DEFENSE MINERALS EXPLORATION ADMINISTRATION

Nonmetallic Minerals Division Date 7-27-56

Semi-Annual Report - Certified Project Date 6-30-56

DMEA No. 2512 Operator Corundum Corp Contract No. Idm-E 457

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	184,000	20% Al_2O_3 in Corundum & Andalusite
Increase (Operator)		
Total		
Decrease (Production)		
Net Available		

No Change

Investment

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

No activity

100338

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
12/20/67	R. M. Smith	120
12/21/67	Lil Romo	120
		110
		220

DEC 21 1967

Mrs. Esther Rea
P.O. Box 2226
Reno, Nevada 89505

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

Dear Mrs. Rea:

In accordance with your request of December 8, 1967, for copies of factual information in the files of the referenced contract, we are posting a mailing-tube containing one copy each of drill logs (20 pages), assays (12 pages), explanation (1 page), and two maps. Receipt of your check in the amount of $5.00 to cover the costs of duplicating and mailing is hereby acknowledged.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Smith
Region II

23263

ESTHER REA
P. O. BOX 2226
RENO, NEVADA 89505

December 8, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 12 1967
INITIALS | CODE
| 110
RMB | 120

Mr. Frank Johnson
Administrator
Defense Minerals Exploration Administration
U. S. Department of the Interior
Washington 25, D. C.

RE: Docket No. DEMA 2512 (corundum-andalusite)
GREEN TALC, BISMARK andalusite properties
Hawthorne, Mineral County, Nevada
(Contract No. IDM-E-457)

Dear Mr. Johnson:

Thank you for your courtesy with respect to the above subject, and your cooperation via the telephone.

In accordance with your request, the sum of $5.00 is herewith forwarded to you for the processing of the papers by your office, so that I may obtain the results of the exploration work performed under the above-referred-to loan on the GREEN TALC and BISMARK andalusite properties, which work was performed in the nineteen fifties.

Sincerely yours,

Esther Rea

Esther Rea
(Owner of above properties)

12/12/67

Enclosure

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/6/67	Smith	120
	Kilburn	120
		110
		220
		120M

DEC 6 1967

Mrs. Esther Rea
P. O. Box 2226
Reno, Nevada 89505

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

Dear Mrs. Rea:

This is in reply to your letter of November 28, 1967 requesting a copy of the Government's Final Report or of other information resulting from exploration in 1953 under the referenced contract.

We regret that the report by H. L. Jones and A. J. Bodenlos cannot be released from the DMEA files because it is classified For Government Use Only. The Operator's Final Report is considered confidential and can be released only upon written authorization from Coranda Corporation.

Since you are the owner of the property and Coranda no longer has an interest in its development, we are authorized to send you copies of factual information from these reports such as drill logs, assays, and maps. The file contains 20 pages of drill logs, 12 pages of assays, and two maps showing the locations of the holes which can be copied and mailed to you.

A charge of $5.00 would be made for this service to cover the costs of duplicating and mailing.

If you wish us to forward this information we shall be pleased to do so upon receipt of your instructions and a check or money order. Please do not send cash.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File, OME Reading File, Mr. Smith, Region II

43683

WILLIAM REA
Mining
P. O. BOX 2226
RENO, NEVADA 89505

OFFICIAL COPY
C. M. E.
RECEIVED
DEC 1 1967
INITIALS | CODE
130
~~170~~
110
RMS
220

November 28, 1967

Mr. Frank Johnson
Administrator
Defense Minerals Exploration Administration
U. S. Department of the Interior
Washington 25, D. C.

2512
Closed file
Letter acknowledged
12/1/67

RE: Docket No. DEMA (Corundum-Andalusite)
GREEN TALC, BISMARK andalusite properties
Mineral County, Nevada
Contract No. IDM-E-457)

Dear Mr. Johnson:

As owner of the above-named properties, I should like to know if it is possible for me to obtain the results of the exploration work performed under the above-referred-to loan on the GREEN TALC and BISMARK andalusite properties.

If possible, I should like to have a copy of the final report on these properties dated April 8, 1954, by Henry J. Jones, Mining Engineer and A. J. Bodenloe, Geologist.

Also, may I secure copies of the drill hole logs of the 12 holes which were drilled and copies of assays, if available.

Or perhaps you would give permission for our engineers to look over the results of the final report without the conclusions of your engineers, which report is in your office.

The Coranda Corporation had a lease on these claims from 1954, which expired, or was closed in 1958 for non-performance, at which time all connection with this group was terminated, and they have no further interest in these properties. They refused to give any information whatever regarding the results of the Government drilling.

The properties have been idle since that time.

I wish to express appreciation for the fine cooperation of Mr. Harold Slager, Field Office of Minerals Exploration, U. S. Geological Service, Menlo Park, California, and am contacting you at his suggestion.

Thank you for any cooperation you may give us.

Sincerely yours,

Esther Rea

Esther Rea

CC: Mr. Harold Slager
U. S. Geological Service
345 Middlefield Road
Menlo Park, California

OFFICE OF MINERALS EXPLORATI
U.S. GEOLOGICAL SURVEY

220

TO:

Budget and Finance

FROM:

Office of Minerals Exploration

- ABSTRACT OF REMITTANCES -

Date	Amount	Bank, City and State	Name of Remitter	Docket & Contract Numbers	Purpose
12/8/67	$5.00	1st. Natl Bank of of Nevada	Esther Rea	DMEA 2512 E-457	5x00 Duplicating

REMARKS: (List smelter or mill lot numbers covered by royalties)

12/14/67
Date Prepared

C. Curtin
Person Preparing Abstract

Date Received

Person Receiving Remittance

Grunwald

220

#1-INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee ☐ Show address where delivered

(Additional charges required for these services)

RETURN RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE *(must always be filled in)*

X Esther Rea

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED	ADDRESS WHERE DELIVERED *(only if requested in item #1)*
1-29-63	

CS5—16—71548-4 GPO

2572

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

January 23, 1963

Re: DMEA-2512 (Corundum-Andalusite)
Coranda Corporation
Green Talc & Bismark Mines
Mineral County, Nevada
Contract Idm-2457

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Mrs. Esther Rea
P. O. Box 2226
Reno, Nevada

Dear Mrs. Rea:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

We wrote you previously on July 25 and on September 28, 1962, but have received no reply. It will be greatly appreciated if you will be kind enough to bring us up to date concerning the present status of the property.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

DMEA-2512
Idm-E457

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since December 31, 1957, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since December 31, 1957, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____		
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since _____, has any production been transported through _____ workings (see _____ of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

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

September 28, 1962

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

Mrs. Esther Rea
P. O. Box 2226
Reno, Nevada

Dear Mrs. Rea:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

DMEA-2512
Idm-2497

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since December 31, 1957, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since December 31, 1957, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____	_____	_____
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

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

Re: DMA-2012 (Corundum-Andalusite)
Corenda Corporation
Green Talc & Bismark Mines
Mineral County, Nevada
Contract IOc-2097

Mrs. Esther Rea
P. O. Box 226
Reno, Nevada

Dear Mrs. Rea:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since July 17, 1956, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since December 31, 1957, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____		
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	_____ Tons	_____	_____
Concentrates	_____ Tons	_____	_____
Other	_____ Tons	_____	_____

3. Since _____, has any production been transported through _____ workings (see _____ of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

4511

Re: DMEA - 2512

Suggest inquiry addressed to landowners.

Gilbert
6/11/62

Agreed

STATES
F THE INTERIOR
ORATION ADMINISTRATION
ON 25, D. C.

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

OFFICIAL FILE COPY
O. M. E
RECEIVED JUN 11 1962

DATE	INITIALS	
6/11		800
6/		120
		100
		500
6/14		500
		220

MAY 21 1962

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

Coranda Corporation
386 Race Street
San Jose, California

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

New address — See reply (over)

7/25/62
Copy of this Form 63 held in Code 500 to be sent to Region II when forms are received from Mrs. Esther Rea mailed this date.

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **July 17, 1956**, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

as far as I know the property is in the hands of the original owner at present.

2. Since **December 31, 1957**, has there been any production from the land subject to the contract? Yes ☐ No ☐

not as far as I know

A. If so and it was shipped, give quantity, value, and name and address of purchaser.

~~not as far as I know~~

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

not as far as I know

A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name J. H. Roddan Title

Address 547 So Bascom Date 6/1/62

San Jose Calif

4511

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 7/1/57-12/31/57 Date of Examination 12/31/57

Operator Coranda Corporation

Mine Name Green Talc and Bismark Mines

County and State Mineral County, Nevada

Docket Number and Commodity DMEA-2512 (Corundum-Andalusite)

Contract Number Idm-E 457

Date of Contract

Date of Certification

Expiration Date of Royalty Payments

Total Amount of Contract

Total Expenditures under Contract

Amount of Government Participation at %

Royalty Payments this Period

Previous Royalty Payments

Total Royalty Payments to Date

Percent Government Participation Repaid

Royalty Due on Production to Date

Royalty Remarks:

NO CHANGE
RECEIVED FEB 3 1958
DATE | INITIALS | CODE
2/4 | C | 220
NO CHANGE

DMEA-2512 Idm-E 457

	Tons	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report)		
Mines ☐ Survey ☐ Joint ☐		
Revised Estimate of DMEA Reserves (Field Team)		
Mines ☐ Survey ☐ Joint ☐		
Increase of Reserves by work performed subsequent to DMEA project work		
Production DMEA ore (This Period)		
(Previous)		
(To date)		
Operator's ore found subsequent to DMEA work (This period)		
(Previous)		
(To date)		

NO CHANGE

NO CHANGE

Percent Revised Reserves mined _____

Investment Data

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

NO CHANGE

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

NO CHANGE

Signed (Engineer)
For: Henry W. Jones

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 7/1/57-12/31/57 Date of Examination 12/31/57

Operator Coranda Corporation

Mine Name Green Talc and Bismark Mines

County and State Mineral County, Nevada

Docket Number and Commodity DMEA-2512 (Corundum-Andalusite)

Contract Number Idm-E 457

Date of Contract

Date of Certification

Expiration Date of Royalty Payments

NO CHANGE

EXTRA COPY
DMEA
FEB 3 1958

Total Amount of Contract

Total Expenditures under Contract

Amount of Government Participation at %

Royalty Payments this Period

Previous Royalty Payments

Total Royalty Payments to Date

NO CHANGE

Percent Government Participation Repaid

Royalty Due on Production to Date

Royalty Remarks:

DMEA-2512 Idm-E 457

	T[illegible]s	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report)		
Mines ☐ Survey ☐ Joint ☐	_____	_____
Revised Estimate of DMEA Reserves (Field Team)		
Mines ☐ Survey ☐ Joint ☐	_____	_____
Increase of Reserves by work performed subsequent to DMEA project work	_____	_____
Production DMEA ore (This Period)	_____	_____
(Previous)	_____	_____
(To date)	_____	_____
Operator's ore found subsequent to DMEA work (This period)	_____	_____
(Previous)	_____	_____
(To date)	_____	_____

NO CHANGE

Percent Revised Reserves mined _____

Investment Data

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

NO CHANGE

Mine Plant		Facilities: Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

NO CHANGE

Signed _____ (Engineer)

Henry W. Jones

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 1/1/57 - 6/30/57 Date of Examination 6/30/57

Operator Coranda Corporation

Mine Name Green Talc and Bismark Mines

County and State Mineral County, Nevada

Docket Number and Commodity DMEA-2512 (Corundum-Andalusite)

Contract Number Idm-E 457

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 5 1957

DATE	INITIALS	CODE
8/8	CRM	100

Date of Contract 12/5/52

Date of Certification 4/23/54

Expiration Date of Royalty Payments 12/5/62

Total Amount of Contract $36,000.00

Total Expenditures under Contract $36,000.00

Amount of Government Participation at 90% $32,400.00

Royalty Payments this Period -0-

Previous Royalty Payments -0-

Total Royalty Payments to Date -0-

Percent Government Participation Repaid -0-

Royalty Due on Production to Date -0-

Royalty Remarks: Inactive. Future production will depend on metallurgical research.

Coranda Corporation DMEA-2512 Idm E 457
ons Analysis

Original Estimate of DMEA Reserves (Field Team Final Report)
Mines [ ] Survey [ ] Joint [X] 184,000 20% Al_2O_3

Revised Estimate of DMEA Reserves (Field Team)
Mines [ ] Survey [ ] Joint [ ] No change

Increase of Reserves by work performed subsequent to DMEA project work None

Production DMEA ore (This period) None
(Previous) None
(To date) None

Operator's ore found subsequent to DMEA work (This period) None
(Previous) None
(To date) None

Percent Revised Reserves mined None

Investment Data

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

Inactive since completion of DMEA contract. Corundum and Andalusite are principal minerals of potential value.

Signed Henry W. Jones (Engineer)
Henry W. Jones

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 7/1/56 - 12/31/56 Date of Examination 12/31/56

Operator Coranda Corporation

Mine Name Green Talc and Bismark Mines

County and State Mineral County, Nevada

Docket Number and Commodity DMEA-2512 (Corundum-Andalusite)

Contract Number Idm-E457

Received JAN 28 1957 D.M.E.A.

Date of Contract 12/5/52

Date of Certification 4/23/54

Expiration Date of Royalty Payments 12/5/62

Total Amount of Contract $36,000.00

Total Expenditures under Contract $36,000.00

Amount of Government Participation at 90 % $32,400.00

Royalty Payments this Period -0-

Previous Royalty Payments -0-

Total Royalty Payments to Date -0-

Percent Government Participation Repaid -0-

Royalty Due on Production to Date -0-

Royalty Remarks: Inactive. Future production will depend on metallurgical research.

DMEA-2512 Green Talc (Contract No. Idm-E457)

	Tons	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report) Mines / ____ / Survey / ____ / Joint / X /	184,000	20% Al_2O_3
Revised Estimate of DMEA Reserves (Field Team) Mines / ____ / Survey / ____ / Joint / ____ /	No change	
Increase of Reserves by work performed subsequent to DMEA project work	-0-	
Production DMEA ore (This period)		
(Previous)	-0-	
(To date)		
Operator's ore found subsequent to DMEA work (This period)		
(Previous)		
(To date)		

Percent Revised Reserves mined -0-

Investment Data

Shafts Size	Shafts Feet	Shafts Cost	Winzes Size	Winzes Feet	Winzes Cost	Drifts & Crosscuts Size	Drifts & Crosscuts Feet	Drifts & Crosscuts Cost

Raises Size	Raises Feet	Raises Cost	Drilling Type & Size	Drilling Feet	Drilling Cost	Rehabilitation Description	Rehabilitation Cost

Facilities

Mine Plant Description	Mine Plant Cost	Mill Description	Mill Cost	Roads Description	Roads Cost

Remarks

Inactive. No additional work completed after termination of DMEA contract. Minerals of potential value are corundum and andalusite.

Signed Henry W. Jones (Engineer)
Henry W. Jones

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 1/1/56 - 6/30/56 Date of Examination 6/30/56

Operator Coranda Corporation

Mine Name Green Talc and Bismark Mines

County and State Mineral County, Nevada

Docket Number and Commodity DMEA-2512 (Corundum-Andalusite)

Contract Number Idm-E457

Date of Contract 12/5/52

Date of Certification 4/23/54

Expiration Date of Royalty Payments 12/5/62

Total Amount of Contract $36,000.00

Total Expenditures under Contract $36,000.00

Amount of Government Participation at 90 % $32,400.00

Royalty Payments this Period -0-

Previous Royalty Payments -0-

Total Royalty Payments to Date -0-

Percent Government Participation Repaid -0-

RECEIVED JUL 26 1956

Royalty Due on Production to Date -0-

Royalty Remarks: Inactive- Future production will depend on metallurgical research.

Original Estimate of Reserves
DMEA Final Report

	Tons	Grade
Measured:		
Indicated:		
Inferred:	184,000	20% Al_2O_3

Increase (or Decrease) of Reserves
Work performed subsequent to original and last Field Team estimate:

	Tons	Grade
Measured:		
Indicated:	No change	
Inferred:		

Revised Estimate of Reserves	No change
Production this Period	-0-
Amount of Previous Production	-0-
Total DMEA Production to Date	-0-

Production Remarks: No production

Other Remarks: No active interest shown in the mine since completion of the DMEA contract. Minerals of potential value are corundum and andalusite.

Signed Walter Bank
for Henry W. Jones

REGION II
SEMI-ANNUAL REPORT
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No.: DMEA-2512 (Corundum-Andalusite) Date: 12/31/55

Contract No.: Idm-E457

Operator: Coranda Corporation
386 Race Street
San Jose, California

Green Talc & Bismark
Mineral County, Nevada

Date of Contract: 12/5/52 Completion Date: 5/20/53

	Total	Expenditures	Gov't Participation
Amount of Contract:	$36,000.00	$36,000.00	$32,400.00

Date Certified: 4/23/(53) 54

Estimated Reserves

DMEA Project	Tons	Grade	Gross Value
Measured:			
Indicated:			
Inferred:	184,000	20% Al_2O_3	Questionable
January 1, 1956			
Measured:			
Indicated:			
Inferred:	184,000	20% Al_2O_3	Questionable

	This Period	Todate	Gross Value
Production:	0	0	0

	This Period	Todate	Percent Payment
Royalty:	0	0	0

Status: Inactive - Future production will depend on metallurgical research. It is impossible to appraise value of estimated ore reserves. The minerals of potential value are corundum and andalusite.

REGION II
SEMI-ANNUAL REPORT
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No.: DMEA-2512 (Corundum-Andalusite) **Date:** June 30, 1955

Contract No.: Idm-E457

Operator: Coranda Corporation
386 Race Street
San Jose, California

Date of Contract: December 5, 1952 **Completion Date:** May 20, 1953*

	Total	Gov't Participation	Operator
Amount of Contract:	$36,000.00	$32,400.00	$3,600.00
Expenditures:	$36,000.00	$32,400.00	$3,600.00

Date Certified: April 23, 195~~3~~4

Status: Inactive**

	Tons	Grade	Gross Value	Deductions	Net Value
Production DMEA:	None	-	-	-	-

	This Period	Todate	Percent Payment
Royalty:	None	-	-

Remarks:

*Research and analytical work performed after project work completed.

**Future production depends upon development of a market in the ceramic and refractory industry. Considerable metallurgical research has been and is currently being done to develop uses of material from this property. A routine inspection of the property will be made at the earliest convenience.

SEMI-ANNUAL DMEA REPORT

Docket No.: DMEA-2512 (Andalusite-Corundum) December 31, 1954

Contract No.: Idm-E457

Period: (Second) July 1, 1954 to December 31, 1954

Date of contract: December 5, 1952

Exploration work completed: November 5, 1953

Amendment No. 1 permitted the drilling of Hole 7 to the north as good mineralization was found in Hole 6.

Amendment No. 2 extended time of completion of the contract to November 5, 1953.

Name and address of operator: Coranda Corp.,
386 Race Street
San Jose, Calif.

Name and location of property: Green Talc and Bismark Deposits,
Mineral County, Nevada

Located 10 and 12 miles respectively northeast of Hawthorne, Nev.

Date certified:

Certification of a discovery was issued by the Administrator, DMEA, to the Coranda Corp. on April 23, 1954.

Expenditures:

Operator	Government	Total
$3,600.00	$32,400.00	$36,000.00

Statement of operations:

No work has been done on the properties during the period or since completion of the DMEA contract.

A. C. Johnson
Mining Engineer

SEP 20 1954

Semi-Annual DMEA Report

Docket No.: DMEA-2512 (Andalusite-Corundum) Sept. 14, 1954

Contract No.: Idm-E457

Period: (First) Jan. 1, 1954 to June 30, 1954

Date of contract: Dec. 5, 1952

Exploration work completed: Nov. 5, 1953

Amendment No. 1 permitted the drilling of hole 7 to the north as good mineralization was found in hole 6.

Amendment No. 2 extended time of completion of the contract to Nov. 5, 1953.

Name and address of operator: Coranda Corporation
386 Race Street
San Jose, Calif.

Name and location of property: Green Talc and Bismark Deposits, 10 and 12 miles respectively northeast of Hawthorne, Mineral County, Nevada.

Date certified:

Certification of a discovery was issued by the Administrator, DMEA, to the Coranda Corporation on April 23, 1954.

Expenditures:

Operator	Government	Total
$3,600.00	$32,400.00	$36,000.00

Statement of operations:

No work has been done on the properties since completion of the DMEA contract.

A. C. Johnson

A. C. Johnson

104 (Rev.)
1952)

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

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

Month of October, 1953 Docket No. DMEA 2512 Contract No. ID-2457
Operator's Name Corunda Corporation Minerals Andalusite
Address 386 Ruce St., San Jose, Calif. & Corundum
Contract Amount, $ 36,000.00 Government Participation: 90 % Amount, $ 32,400.00

October 3 2512 ID-2457
Corunda Corporation Andalusite
386 Ruce St., San Jose, Calif. & Corundum

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling		$20,750.00	$28750.00			
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	$36,000.00			

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

Date Nov. 1, 1953 *Payee Corunda Corporation

Per J. 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:

$2497.50

Signature Lloyd W. Sylander
Authorized Certifying Officer
(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. Date Nov. 10, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: A. C. Johnson Region III

Signature W. C. Miller Title Executive Officer DMEA Field Form Region III Date November 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-R1151.1
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 1953 Docket No. DMEA 2012 Contract No. [illegible]-2407
Operator's Name Corunda Corporation Minerals Andalusite
Address 306 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	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core				$28750.00	2500	$11.50	2500	$11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
P.C.L. Tests	1							
Roads and Trails		$1,000.	50	$1,000.00	50	$20.00	50	$20.00
Sampling & Analysis	1	$1,775.	71	$6,250.00	250	$25.00	250	$25.00
TOTAL DISTRIBUTED COSTS		$2,775.		$7,250.00				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 Nov. 1, 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.

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

Nov. 1, 1953

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

FORM 407

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 16,1953

Coranda 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	0.08	0.69	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.

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

CLIENT'S No. FILE No.

REPORT

October 16,1953 Page 2

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	0.11	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 657 651 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

Charles W. Robinson
District Manager

SS
wh
cc: 16 Above

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.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 5-5-A	28
3-2-Comp.	27-2 31-2 33-2 34-2	20	2-5-Comp.	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.

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 PAGE 2

Coranda Corporation
386 Race Street
San Jose, California.

Attention:Mr.J.H. Rolda,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

654 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.
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

Carlos M. Robinson

District Manager

SS:wh
cc: 10 Above

Form MFI-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 OCT 14 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Sept., 1953 Docket No. DMEA 2512 Contract No. IDM-E457

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	~~$33,225.00~~			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3200.00	30,025.00	33,225.00			

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 RECEIVED

Month of Sept. 1953 Docket No. DMEA 2512 Contract No. IDM-E457

Operator's Name Coranda Corporation Minerals Andalusite & Corundum

Address 386 Race 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				$28,750.	2500	$11.50	2500	$11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling & Analyses	1 Sample	$2200.00	188	$4,475.00	179	$25.00	250	$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 Coranda 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

128 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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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 2 1953

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

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

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	1.35	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	0.03	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	0.73	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

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

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

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

Defense Minerals Administration
RECEIVED
SEP 28 1953

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

September 24, 1953

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Progress Reports - Forms MF-104 & MF-104A

Enclosed herewith are two copies of each of the subject reports received from the following operators as listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report dated	Period covered
Idm-E457 DMEA-2512	Coranda Corporation	Sept. 1, 1953	August 1953
Idm-E466 DMEA-2470	Nevada Uranium Co.	Sept. 15, 1953	August 1953

Code 700

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

Attachments

Copy to: E. W. Bailey, USGS

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

ACCOUNTS SEP 22 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Defense Minerals Administration
RECEIVED
SEP 28 1953

Month of August 1953 Docket No. DMEA 2512 Contract No. IDM-E 457
Operator's Name CORANDA CORPORATION Minerals Andalusite & Corundum
Address 386 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:		28,750.00	28,750.00			
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			
Sampling and Analysis	$1275.00	00.00	~~$30,025.00~~			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1275.00	28,750.00	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 Coranda 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

Lloyd H. Sjolander
Authorized Certifying Offic

Signature (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]457 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Region III Date September 18, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller 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-101A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

ACCOUNTS SEP 22 1953
Defense Minerals Administration
RECEIVED
SEP 28 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 195 3 Docket No. DMEA 2512 Contract No. IDM-E 457

Operator's Name CORANDA CORPORATION Minerals Andalusite &

Address 386 Race Street, San Jose, California 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				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 Coranda Corporation

Per J. H. Rodda 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. DVEA 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.

DEPARTMENT OF THE INTERIOR
Defense Minerals 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

Coranda 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	0.32	0.44	.33	0.38	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	0.63	0.26	0.52	0.28	1.67	"	0.36
B5-2	69.52	21.00	3.15	1.02	0.32	0.63	0.27	2.50	"	0.21
B7-2	67.88	16.60	3.08	0.73	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	0.73	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	0.93	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	0.63	1.40	0.91	1.41	1.87	"	2.64

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

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	1.08	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	1.38	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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

Date: June 8, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2512

Contract Idm-E 457

Commodity Andalusite, Corundum

Operator - Coranda Corp, 386 Race Street, San Jose, California

Property - Green Talc Mine and Bismark Mine Mineral County, Nevada

By Henry W. Jones, Mining Engineer

Dated June 5, 1953

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

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)

George Mavor

INTERIM REPORT

Docket No.: DMEA-2512 (Andalusite, corundum) June 5, 1953

Name and address of operator: Coranda Corp.,
386 Race Street, San Jose, Calif.
P. O. Box 1484, Hawthorne, Nev.

Name and location of property: Green Talc mine and Bismark mine
Mineral County, Nevada

Contract No.: Idm-E457

SUMMARY AND CONCLUSIONS

The Bismark mine (andalusite, corundum), situated about 12 miles northeast of Hawthorne, Nev., was visited on May 28 to check diamond drilling information applicable to the DMEA contract.

All drilling was completed on May 20, 1953 and the equipment moved.

Drill hole #3 ran into unconsolidated material on the opposite side of the ridge. It was stopped at a depth of 171 feet. Drill hole #4 was completed to a depth of 200 feet. Drill hole #5 was driven to a depth of 179 feet. Total footage drilled on the Bismark property was 900 feet. Total combined footage for the Green Talc and Bismark mines was 2,500 feet. Mineralization in hole #4 was encountered from 6 feet through 64 feet and hole #5 from the collar to 171 feet.

No further analyses on the pulps of the mineralized sections, made by the Hydrometallurgical and Ore Dressing Branch of the Bureau of Mines, were received.

Conclusions:

The mineralized sections of both the Green Talc and Bismark areas were delineated by means of the diamond drilling project. All blocking out of the ore will be based on analysis of both surface and core samples. Complete results of the core analyses, run by the Hydrometallurgical and Ore Dressing Branch of the Bureau of Mines, are not as yet available.

No further diamond drilling is necessary on the project at this time.

WORK COMPLETED

The Bismark mine was visited on May 28, 1953 to check the diamond drill progress since the previous visit of May 7, 1953. All drilling was completed by May 20 and the equipment was moved from the site.

Drill hole 3, as spotted on the geological map, encountered mineralization at 23 feet which continued to 70 feet. Slight mineralization was again struck from 141-161 feet. The hole was discontinued at 171 feet when unconsolidated material mixed with sand was found.

Drill hole 4, spotted about 57 feet below and bearing S. 5° E. from Hole 1, was completed to a depth of 200 feet. A mineralized zone was encountered at 6 feet and continued to a depth of 64 feet. Occasional mineralization was again observed in a meta-andesite formation from 128 feet through 180 feet.

Drill hole 5, spotted S. 82° E. and 126 feet above Hole 1, was driven to a depth of 179 feet. A well mineralized section was encountered at the collar and persisted to 171 feet. The large mineralized section determined by this hole tends to indicate the main ore

structure swings to the northeast rather than extending northward up the ridge.

The logs of drill holes 3, 4 and 5 of the Bismark mine are attached to this report.

Completed information on the Bismark drill holes are listed below:

Hole No.	Date Start	Date Completion	Depth Feet	% Core Recov.	Av. daily footage	Angle	Bearing	Approx. elevation
1	4/13/53	4/29/53	150	85.0	10.0	-30°	N 70 W	5235
* 2	4/13/53	4/25/53	200	84.0	16.6	-30°	S 70 E	5255
* 3	4/29/53	5/9/53	171	59.5	17.1	-30°	N 70 W	5283
* 4	5/1/53	5/16/53	200	63.7	14.3	-45°	N 70 W	5207
* 5	5/12/53	5/20/53	179	60.0	22.4	-45°	N 70 W	5273

* Drilled on a partial 2-shift basis.

COMMENTS ON PROGRESS

Drilling progress on the Bismark was considerably faster than on the Green Talc property due in part to the more consolidated and siliceous material encountered. Most of the drill holes on the Bismark were placed so that the formation was cut at nearly right angles.

Henry W. Jones

Henry W. Jones
Mining Engineer

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

Bismark Mine
Mineral County, Nevada

Diamond Drill Log - Hole #3
Strike N 70° W, Dip 80°

Foot 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. 60% C.R.
15'	20'		Slight alteration of quartzite at 18'. 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'		90% 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'. 90% C.R.
95'	100'		C.R. 80% 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. Country 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. 30% C.R.
116'	121'		Continuing dark, massive meta andesites to 121'.

Diamond Mine
Mineral County, Nevada

Docket No. DMEA-3512
Contract No. Idr-B457

Diamond Drill Log - Hole # 3

Depth 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%. Same as above.
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 small 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

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

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

Feet From	To	Size	Description
0	8'	NX	Overburden
8	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	NX	30% C.R. Ore zone at 30', continuing to 36' with small seam of meta volcanics at 34' continuing 36'.
36	39		36'-37', Brecciated material with schistocity, 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. 60% 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	85'		Same as above 75% C.R.
85	86'		Considerable quartz showing in dark meta andesites, also porphyritic structure with some feldspars scattered throughout. 75% C.R.
86	91'		100% C.R. Dark meta andesites, solid formation.
91	96'		100% C.R. Comes 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 quarts 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. 30% C.R.
128	134'		Schistosed structure, some mineralization. 60% C.R.
134	139'		5% C.R. Broken up country, light ground mass.
139	145'		50% 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'		50% 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

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

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, 20% C.R.
185	190'		Sameas above. Poor C.R.
190	195'		40% C.R. Formation more solid. Black meta andesite.
195	200'		Same as above with some mineralization. 40% C.R.

Bismark Mine
Mineral County, Nevada

Dock[illegible] No. DMEA-2512
Contract No. Idm-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 grado 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 33'-36'. General ore zone broken up from 36'-41', quartz 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. 60% C.R.
56	59'		At 56-57' slight change in tructure 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 continuin . 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 interupption. 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 shot through. 75% C.R.
95	100'		General ore zone. Quite silceous, 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'		50% 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'		20% 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.

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

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

ACCOUNTS JUL 6 1953

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. IDm-E457

Operator's Name Coranda Corporation Minerals Andalusite & Corundum

Address 386 Race St., San Jose, Calif

Contract Amount, $36,000.00 Government Participation 90% % Amount, $52,400.00

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		
				-1,150.00 *	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 Coranda Corporation

Per V. H. Rodella 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

Lloyd W. Sjolander
Authorized Certifying Officer

Signature (Authorized Certifying Officer)

Date JUL 13 1953 Vou. No. SF-DMEA-1

(See other side)

* To correct error of 100 ft reported on April M. 2104

(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. 1m-1457 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date June 8, 1953.
A. C. Johnson Region III

APPROVAL BY DMEA EXECUTIVE OFFICER, OR ALTERNATE:

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

GPO 83-38476

Form MF4104A
(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 May 1953 Docket No. DMEA 2512 Contract No. IDM-1437

Operator's Name Corunda Corporation Minerals Andalusite & Corundum

Address 380 Race 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	1 ft	$0005.00	850	$20,750.00	2500	20,750.00	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, 1955 Operator Corunda Corporation

Per J. H. Radda 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

CORAIDA CORPORATION
386 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 was 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 23 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 outcropeand 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 excepting where diaspore seams were enterccountered. 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 fine 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'	BX	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'. 80% C.R.
35'	41'		Solid core, 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'		90% 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 still 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'. 90% C.R.
95'	100'		C.R. [illegible] 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'.

Docket No. DMMA-2012
Contract No. Idm-5457

Bismark Mine
Mineral County, Nevada

Diamond Drill Log - Hole #5
Strike N 70° W, Dip 50°

Feet From	To	Size	Description
2'	7'	NX	Few inches of solfatoised 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'. 80% C.R.
35'	41'		Solid core, 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'		80% 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. Solfatoised material.
60'	65'		10% C.R. Same as above.
65'	65'		50% C.R. Alteration at 65'. Reddish honey combed material with some mineralization. Material becoming highly solfatoised at 64'. Green AlSi minerals.
65'	70'		90% C. R. Continuing solfatoise structure, occasional green AlSi minerals showing. Alteration at 67' to solfatoised meta volcanics with oxidized surfaces, continuing to 70'.
70'	75'		Waxy surfaces on shear planes. Flate like partings. 100% C.R.
75'	81'		70% C.R. Same as above. Platy structure more predominant.
81'	86'		Dark ground mass still prevailing (meta volcanics, country broken up. 50% C.R.
86'	91'		50% C.R. Same as above. Some mineralization
91'	95'		Material altera to a light colored solfatoised structure slight mineralization. Platy surfaces. Continues to 94' where mineralization increases to 95'. 90% C.R.
95'	100'		C.R. Broken up country, some mineralization showing in in the solfat.
100'	105'		Continuing solfat to 102' where alteration occurs to darker meta andesites which continues to 105'. 100% C.R. Country 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, solfatoised 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%. Sameasabove.
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. DMEA-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	80% C.R. Ore zone at 30', continuing to 36' with small seam of meta volcanics at 33' continuing 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. Sameas 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 showingat 139 which continues to 145, low grade.
145	147'	AX	80% C.R. Some mineralization continuing to 147 in dark ground mass.
147	150'		50% 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.

Diamark No. 4
Diamark Mine
Mineral County, Nevada

Docket No. DMEA-2512
Contract No. Idm-8457

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'	25		General ore zone continuing. Broken up country at 21' to 25' 100% C.R.
25	30		Ore zone continuing to 26' where alteration to meta volcanics occurs with some mineralization. 60% C.R.
30'	36	BX	80% C.R. Ore zone at 30', continuing to 36' with small seam of meta volcanics at 33' continuing 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 porphyritic structure with some feldspars scattered throughout. 75% C.R.
86	91'		100% C.R. Dark meta andesites, solid formation.
91	96'		100% C.R. Samess 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 occasional 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	146'		30% C.R. Ore showing 139 which continues to 146, low grade.
146	147'	AX	80% C.R. Some mineralization continuing to 147 in dark ground mass.
147	150'		50% 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

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

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, 20 % C.R.
185	190'		Sameas above. Poor C.R.
190	195'		40% C.R. Formation more solid. Black meta andesite.
195	200'		Same a s above with some mineralization. 40% C.R.

Bismark Mine
Mineral County, Nevada

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

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

Feet From	To	Size	Description
8	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', siliceaous 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', quartz 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. 60% C.R.
56	59'		At 56-57' slight change in tructure 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 continuin . 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 interupption. 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 shot 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'		50% 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.

Bismark Mine
Mineral County, Nevada

Docket No. DMEA-2512
Contract No. Idm-8467

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

Feet From	To	Size	Description
8	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 to be lower in grade up to 16'. Very solid formation.
16	21'		80% 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 38'-41', quartz 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 continues. Blue green cast. 100% C.R.
59	61'		General ore zone continuing. Solid formation. 100% C.R.
61	66'	RX	General ore zone continuing unusual mineralization at 62'. Light in color with off color green veinlets. Country more broken up. 80% C.R.
66	71'		General ore zone continuin . Solid formation. 100% C.R.
71	75.5'		80% C.R. Same as above.
75.5	81'		Samess 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 interruppt1on. 60% C.R.
91	95'		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 shot 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. 50% C.R.
114	117'		Meta andesites continuing to 118 where alteration takes place to general ore zone, darker in color, reddish. Continues to 117. 70% C.R.
117	120'		50% 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.

Docket 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'		80% 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 1, 1953

Honorandum

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

From: Chief, Mining Division, Region III

Subject: MF-104 - Corunda Corporation, Idm-1457
April, 1953 - forwarded Regional Office - May 13, 1953.

Enclosed are four copies of a letter from Mr. R. B. Holt, correcting their April MF-104, which was forwarded to your office on May 13, 1953.

Since this correction constitutes an overcharge of 100 feet of diamond drilling in the amount of $1150., this amount should be disallowed and payment made to the corporation of their percentage on the balance.

If payment has already been made of this claim, adjustment should be made when MF-104 for the balance of the 2500 feet of diamond drilling is submitted.

A. C. Johnson

Encl:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

JUN 1 1953

Date: May 26, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2512

Contract Idm-E 457

Commodity Andalusite-Corundum

Operator - Coranda Corp., 386 Race Street, San Jose, California

Property - Green Talc Mine and Bismark Mine Mineral County, Nevada

By Henry W. Jones, Mining Engineer

Dated May 21, 1953

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

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)

INTERIM REPORT

Docket No.: DMEA-2512 (Andalusite, Corundum) May 21, 1953

Name and address of operator: Coranda Corp.,
386 Race Street P. O. Box 1484
San Jose, Calif. Hawthorne, Nev.

Name and location of property: Green Talc Mine and Bismark Mine
Mineral County, Nev.

Contract No.: Idm-E457

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Bismark mine (andalusite, corundum), situated about 12 miles northeast of Hawthorne, Nev., was visited on May 7, 1953 to check information applicable to the DMEA contract.

Holes 1 and 2, spotted on the Geological maps, were completed. Hole 3 was driven to a depth of 120 feet and hole 4,placed 60 feet southerly and about 25 feet easterly of hole 1, was collared and driven to 26 foot depth. Mineralization has been encountered in all holes to date.

Two diamond drills are in operation with an extra crew working one of the drills on the night shift. Drilling progress appears to be advancing at a faster rate than at the Green Talc mine.

Check pulp analysis of the mineralized sections of holes 1 through 5, made by the Hydrometallurgical and Ore Dressing Branch of the Bureau of Mines, are attached.

WORK COMPLETED

The Bismark mine was visited on May 7, 1953 to check the diamond drill progress since the previous visit of April 8, 1953.

Drilling has been in progress on the Bismark mine since April 13. Holes 1 and 2 were collared on that date and completed on April 29 and April 25, respectively. Hole 3 was collared on April 29 and was completed to a depth of 120 feet at the time of the inspection. Hole 4 was collared on May 3 and was to a depth of 26 feet.

Mineralization was encountered in all holes.

The logs of holes 1 and 2 are attached.

Information on the Bismark drill holes are listed below:

Hole No.	Dates Start	Dates Completion	Depth Feet	%, Core Recov.	Av. Daily Footage	Angle	Bearing	Approx. Elevation
1	4/13/53	4/29/53	150	85.0	10.0	-30°	N.70°W.	5,235
*2	4/13/53	4/25/53	200	84.0	16.6	-30°	S.70°E.	5,255
3	4/29/53	--	120			-30°	N.70°W.	5,283
4	5/3/53	--	26			-45°	N.70°W.	5,207

* No. 2 hole drilled on a partial 2-shift basis.

COMMENTS ON PROGRESS

Work was delayed several times on the drill rigs due indirectly to the extremely rough and sandy road leading to the property. The 4-wheel drive truck used for water haulage has repeatedly broken down, necessitating extensive repairs.

Henry W. Jones

Henry W. Jones
Mining Engineer

Green Talc Mine
Mineral Co., Nevada

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

Diamond Drill Hole #1

Sample No.	Footage	Percent SiO_2	Percent Al_2O_3	Description
1 - 1	21 - 27	41.7	33.5	Mineralized, sericite
2 -1	27 - 34	46.9	31.7	" "
3 - 1	34 - 39	46.3	32.1	" "
4 - 1	39 - 45	54.1	28.0	Meta volcanics & Min.
5 - 1	45 - 55	54.3	29.0	Mineralized, sericite
6 - 1	55 - 65	44.5	34.8	Light, colored Min.
7 - 1	65 - 70	37.8	37.2	" " "
8 - 1	70 - 80	57.4	24.8	Some Min. in meta volc.
9 - 1	80 - 90	58.8	25.7	" " "
10 - 1	90 - 95	54.3	28.7	" " "
16 - 1	140 - 150	41.4	34.5	Al-Si Min. and Sericite
17 - 1	150 - 155	47.3	25.1	Mostly Sericite in M.V.
18 - 1	160 - 170	45.5	29.9	Sericite & Al-Si Min.
19 - 1	170 - 178	35.2	36.6	Al-Si Min. & Kaolin
20 - 1	178 - 185	52.3	24.8	Sericite and Meta volc.
21 - 1	185 - 200	59.9	18.5	Some Min. in M.V.
22 - 1	200 - 208	46.1	17.5	M.V. rock, no min.

Diamond Drill Hole #2

4 - 2	35 - 40	72.4	14.6	Sericite in M.V. schist
5 - 2	40 - 47	62.5	16.1	" " "
12 - 2	88 - 97	51.3	22.0	Sericite in Quartzite
15 - 2	97 - 107	74.1	13.4	Sericite in M.V. schist
17 - 2	117 - 130	37.9	39.0	Al-Si Min. Some Sericite
18 - 2	130 - 135	54.7	29.3	Sericite cementing M.V.
20 - 2	135 - 146	45.4	34.6	Mostly Al-Si Min., Ser.
22 - 2	146 - 156	42.2	28.5	Al-Si Min, & Dike rock.
24 - 2	156 - 164	44.0	32.6	Al-Si Min. & Kaolinite.
25 - 2	164 - 172	56.7	25.6	" " "
26 - 2	172 - 180	49.4	24.1	Kaolinite in Schist
27 - 2	180 - 187	52.0	23.4	Sericite and Schist
29 - 2	187 - 197.5	71.7	16.3	Sericite and clay
30 - 2	197.5 - 205	81.3	10.9	Sericite bands in schist
31 - 2	205 - 213	42.7	35.5	Predom. Sericite
32 - 2	213 - 221	55.5	26.7	Sericite & Al-Si in schist
33 - 2	221 - 230	50.4	27.7	Sericite in M.V.
34 - 2	230 - 237	48.3	28.3	" " "
35 - 2	237 - 245	57.7	25.2	Al-Si, Sericite in M.V.
36 - 2	245 - 250	50.8	29.5	" " "
38 - 2	250 - 257	43.6	32.0	" " "
40 - 2	257 - 264	56.3	26.9	" " "
42 - 2	264 - 270	49.2	29.5	M.V. with some Al-Si Min.
43 - 2	270 - 280	48.8	29.2	M.V. with Sericite
44 - 2	280 - 286	44.5	34.5	Some Min. in M.V.

Diamond Drill Hole #3

Sample No.	Footage	Percent SiO_2	Percent Al_2O_3	Description
1 - 3	1 - 4.5	39.8	33.5	Sericite and Al-Si Mineralization
2 - 3	4.5 - 16	52.6	17.3	Soft Schist, no Mineralization
3 - 3	16 - 25	38.1	21.7	Al-Si Min., some Sericite in M.V.
4 - 3	25 - 33	58.4	22.1	Kaolinite and Sericite in M.V.
5 - 3	33 - 41	67.3	16.1	Quartzite, little Mineralization
12 - 3	97 - 105	75.6	8.0	Quartzite, some Sericite in seams
13 - 3	105 - 115	76.8	9.2	" " " " "
14 - 3	115 - 125	43.9	35.9	Sericite, some Al-Si min.
15 - 3	125 - 138	60.2	24.4	" " " "
16 - 3	138 - 148	47.3	33.7	Black M.V. cemented with Sericite
17 - 3	148 - 150.6	38.3	39.2	Sericite and Al-Si minerals
18 - 3	150.6 - 165	36.2	31.7	Dark M.V. rock, sericized in seams
19 - 3	163 - 175	49.4	23.6	Light porphry schist, little min.

Diamond Drill Hole #4

2 - 4	10 - 20	51.1	21.6	Dense M.V., no mineralization
3 - 4	20 - 30	59.4	30.3	Sericite & Kaolin in light groundmass
4 - 4	30 - 40	64.0	29.0	Min. in darker groundmass
5 - 4	40 - 48	64.7	25.6	Dissem. min. in dark groundmass
7 - 4	52 - 55	65.3	15.3	Talc in Meta Volcanics, Little min.
8 - 4	55 - 60	66.8	15.2	Kaolin in M.V.
9 - 4	60 - 65	72.2	8.8	Broken M.V. Hematite, little Min.
16 - 4	110 - 115	70.2	18.0	Kaolin or Talc in M.V.
17.4 4	115 - 125	61.7	23.7	Sericite in light sandy M.V.
18 - 4	125 - 135	45.0	39.9	Al-Si Min., Sericite inclusions
19 - 4	135 - 145	49.2	37.8	Well Min., Corundum streaks
20 - 4	145 - 150	54.9	31.8	Same only darker groundmass
21 - 4	150 - 160	57.7	21.0	Silicious M.V. Little Min.
22 - 4	160 - 170	58.6	24.0	Light Min. in a M.V. groundmass
23 - 4	170 - 175	70.0	14.8	Meta volcanics, little Min.
24 - 4	175 - 185	65.6	16.7	Light M.V. with dark phenocrysts

Diamond Drill Hole #5

2 - 5	5 - 14	39.6	33.8	Al-Si Min. light groundmass
4 - 5	14 - 20	47.4	48.1	" " , Corundum noted
5 - 5	20 - 30	58.9	34.8	" " " "
5 - 5B	30 - 40	57.7	35.3	Light Buff Groundmass, less Min.
5 - 5E	40 - 49	61.0	32.2	" " " , Some Sericite
6 - 5	49 - 55	52.8	24.3	Light Talc, little Min.
7 - 5	55 - 64	64.4	29.2	Light buff Groundmass, well Min.
9 - 5	64 - 73	70.7	24.8	" " " , some sericite
10 - 5	73 - 83	65.8	24.3	" " " " "
11 - 5	83 - 88	42.9	38.3	Broken, light, well Min., some Sericit
12 - 5	88 - 98	76.4	19.2	Light Buff groundmass, quartzitic
13 - 5	98 - 108	65.2	21.1	Gen Min. structure, some sericite
14 - 5	108 - 117	75.1	19.0	" " " " "

(Contd.) Diamond Drill Hole #5

Sample No.	Footage	Percent SiO_2	Al_2O_3	Description
15 - 5	117 - 124	72.5	14.0	Quartzitic, min. structure
17 - 5	124 - 134	85.9	9.4	" Some Min., Kaolin
18.- 5	134 - 144	70.3	20.1	Min. M.V. , Some Sericite
19 - 5	144 - 154	71.3	17.5	" " " and Kaolin
21 - 5	154 - 159	53.1	30.8	Dark M.V. with Sericite inclusions
22 - 5	159 - 169	45.7	35.7	" " " " "
23 - 5	169 - 179	38.7	39.1	" " , Considerable Sericite
24 - 5	179 - 189	41.5	29.0	Sandy textured M.V., Some Min.
25 - 5	189 - 200	39.7	27.1	M.V. and some min., Sericite Incl.
28 - 5	200 - 210	53.4	22.1	" " Sericite Incl.
29 - 5	210 - 220	53.4	19.1	M.V. dark groundmass, no min.
30 - 5	225 - 235	49.4	18.0	" " " " "
31 - 5	235 - 240	48.5	20.0	" " " " "
32 - 5	240 - 250	45.8	21.1	" " " " "

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

Bismark Mine
Mineral County, Nevada.

Underlined footages indicate mineralization. Strike N.70°W; dip 30°

Diamond Drill Log - Hole #1

Feet From	Feet To	Size	Description
0	6	NX	Overburden and meta volcanics
6	10	"	Lime and clay like structure altering to a light colored ground mass, of meta volcanics slightly schistose.
10	14		Meta volcanics with darker ground mass, quite schistose. Grey blue in color. 100% c.r.
14	18		Dark bluish cast meta volcanics, brecciated with a schistose structure, core breaks along planes of schistosity.
18	24.5		Slight mineralization in a meta volcanic structure, tendency toward brecciation 80% c.r.
24.5	25		Some iron stain observed in rock mass.
25	31		Patchy maineralization in a schistose structure, diaspore showing at 29'. Quartz becoming more predominent
31	32		Gradual alteration to meta volcanics containing considerable hematite stain. 100% c.r.
32	35	NX	General mineralized structure, indications of diaspore.
35	43	BX	Well mineralized structure, small vugs and seams of white quartz. 60% c.r. Apparent difficulty shown in drilling and coring
43	68	"	Quartzy structure with mineralization, glassy charactaristics. Light colored inclusions similar to feldspar. 70% c.r.
68	75.5		General ore structure, diaspore and some pyrophyllite crystals showing. 50% c.r.
75.5	95		Mineralization generally altering to schistose meta volcanics. Considerable brecciation. Ground mass gradually altering to a darker colored meta volcanics. Alteration of phenocrysts at 83'. 40% c.r.
95	104		Brecciated meta volcanics, dark colored, grey banded structure, platy in spots. 70% c,r.
104	120		General alteration to a well mineralized structure at 104' Small seams and spots of quartz shot through the structure.
120	128		Alteration back to a pronounced schistose meta volcanics structure, highly brecciated, schist and alteration clay structure noted at 127'
128	130	BX	Small mineralized zone. 100% c.r.
130	135	AX	Soft claylike material, light buff colored containing small seams of nontronite. 90% c.r.
135	150		Shaly appearing meta andesite, soft, containing banded layers of quartz mineralization.

End of hole

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

Bismark Mine
Mineral County, Nevada.

Underlined footages indicate mineralization. Strike S70°E; dip 30°

Diamond Drill Log, Hole #2

Feet From	Feet To	Size	Description
0	15	NX	Overburden, sand.
15	32	"	Schistose meta andesite, highly broken with a light grey
	28	BX	ground mass containing white colored phenocrysts. 60% c.r.
32	37		Alteration to a green sericite, highly broken, some iron stain in the rock mass at 36'. 100%c.r.
37	56		Light grey meta andesites with pronounced schistosity, some quartz inclusions. Schistose planes almost parallel with the drill hole. 100% c.r. No mineralization.
56	71		Considerable mineralization in a badly broken quartzy ground mass. White fine grained material similar to AlSi mineralization observed. 100%c.r.
71	76		Light sandy textured material appering to be diaspore. No core.
76	93		Light colored quartzite appearing material, with sericite in seams, increasing grade of mineralization. 90%c.r.
93	106		Less highly mineralized structure in a lighter colored quartzite ground mass, some sericite in seams. 90% c.r.
106	130		General ore structure, diaspore and associated AlSi minerals noted. Buff colored formation. 100% c.r.
130	161		Well mineralized structure in a buff colored ground mass Diaspore crystals evident throughout the ore body. Generally well consolidated ground mass. 90% c.r.
161	174		Less mineralized ore structure, mineralization banded in a meta andesite rock mass. Gradually decreasing mineralization in a more schistose structure. 50% c.r.
174	196		Meta andesites with occasional quartzite zones. Scattered sericite observed in seams throughout mass. Not considered to be well enough mineralized to be classed as ore.
196	200		Schistose meta volcanics altering from a lighter color to an almost black cast, No mineralization. 5% c.r.
			Bottom of hole

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1953 MAY 23 AM 8 : 47

SAN FRANCISCO, CALIFORNIA

Form MF-104
(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 [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible] Corundum
Contract Amount, $ [illegible] 36,000.00 Government Participation: 90 % Amount, $ [illegible]

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	6,359.50	17,446.50	23,805.00			
(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 4, 1953 *Payee Grants Corporation
Per J. H. Roelda 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

Lloyd H. Sjolander
Authorized Certifying Officer

Signature (Authorized Certifying Officer)
JUN 1 1953
Date Vou. No. SF-DMCA-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. [illegible] in accordance with the terms of the contract.

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. Miller Title Executive Officer DMEA Field Form Date May 16, 1953

H. G. 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-[illegible]151
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[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible] 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	[illegible]	[illegible]	[illegible]	[illegible]	2,170	[illegible]	1000	11.0
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								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 May 4, 1953 Operator [illegible]

Per J. H. Rodela 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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 4 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

Date: April 29, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2512

Contract Idm-E 457

Commodity Andalusite, Corundum

Operator - Coranda Corp., 386 Race Street
San Jose, California

Property - Green Talc Mine and Bismark Mine
Mineral County, Nevada

By Henry W. Jones, Mining Engineer

Dated April 20, 1953

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

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)

George Mavor

INTERIM REPORT

Docket No.: DMEA-2512 (andalusite, corundum) April 20, 1953

Name and address of operator: Coranda Corp.
386 Race Street, San Jose, Calif.
P. O. Box 1484, Hawthorne, Nev.

Name and location of property: Green Talc Mine and Bismark Mine
Mineral County, Nev.

Contract No.: Idm-E457

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Green Talc mine (andalusite, corundum), situated about 12 miles northeast of Hawthorne, Nev., was visited on March 20 and again on April 8, 1953. The latter visit was made in company with E. T. Schenk, mineralogist, U. S. Bureau of Mines, Boulder City, Nev. The property was inspected and information was obtained concerning the diamond drilling project applicable to the DMEA contract.

Seven holes were drilled and completed with a combined total length of 1600 feet on the Green Talc property.

Core of the completed holes were split, and half stored at the Bureau of Mines core library at Reno, Nev.

Pulp samples of the mineralized portions of holes 2 and 5 are being analyzed in the Reno, Nev. metallurgical laboratory. Copies of the drill logs previously submitted by the operators are included with the report.

Drill equipment is being moved to drill sites being prepared on the Bismark mine, approximately 2½ miles (airline) east of the Green Talc.

Drilling operations have been carried on efficiently and all requirements were met by the drill foreman.

The material for analysis and pyrometric equivalent cone tests have not yet been submitted by the operator to a commercial laboratory.

WORK COMPLETED

The Green Talc mine was visited on March 20 and again on April 8, 1953 to check the diamond drill progress since the last visit of March 6, 1953. E. T. Schenk, mineralogist, U. S. Bureau of Mines, Boulder City, Nev., accompanied the engineer on the latter visit. Representative specimens were taken for mineralogical work.

Three drill rigs have been in operation on the property. Drill hole No. 1 was completed at a depth of 208 feet and the rig was moved to drill site No. 6 (see overlay map). The drill rig at hole No. 4 completed 200 feet of drilling and moved to the opposite side of the hill to drill site No. 7. The drill rig at No. 5 hole completed 250 feet of drilling. The crew was then used alternately on the night shift to complete holes 6 and 7. A total of 1600 feet of holes was drilled on the Green Talc property as prescribed by the contract.

Cores of the drill holes Nos. 1, 2, 3, 4, and 5 have been split, including the unmineralized portions and half stored at the Bureau of Mines core library in Reno. Pulp samples were made with the remainder. Representative portions of the pulp from holes No. 2 and No. 5 are being analyzed at the Hydrometallurgical and Ore Dressing Branch, Reno, Nev.

Information on drill holes are listed below:

Hole No.	Date Start	Date Completion	Depth Feet	% Core Recov.	Av. Daily Foot.	Angle	Bearing	Elevation
1	2/24/53	3/18/53	208	55	9.0	-20°	S 35° E	5,164
2	1/8/53	2/19/53	286	?	7.5	-25°	N 45° W	5,170
3	1/7/53	2/12/53	200	46	6.6	-20°	N 49° W	5,169
4	2/19/53	3/18/53	200	59	7.4	-20°	N 45° W	5,178
5	2/14/53	3/23/53	250	55	7.1	-30°	S 45° E	5,210
6	3/20/53	3/30/53	243	74.5	24.3	-30°	S 72° E	5,222
7	3/24/53	4/2/53	213	80	23.6	-30°	S 72° E	5,242
			1,600					

* Holes 6 and 7 were worked partially on a 2-shift daily basis. An overlay map was completed by the project engineer; a copy of which is attached.

Drilling equipment is being moved to drill sites being prepared on the Bismark mine, about 2½ miles (airline) east of the Green Talc mine.

COMMENTS ON PROGRESS

Drilling progress was slow on the first five holes because of the broken and alterable nature of the caved material. The progress on holes 6 and 7 was relatively rapid due in part to the operation of a double shift and to the more compact ground.

Moving of equipment from the Green Talc to drill sites at the Bismark mine is slow because of the sandy road leading to the mine. A 4-wheel drive conveyance is necessary for access.

DISCUSSION

Two diamond drills are to be set up and operated at the Bismark on a partial 2-shift basis. Three crews are on hand.

It is noted on the overlay map that hole No. 1 was driven at a bearing of S 57° 08' E instead of the prescribed S 35° E as laid out by the DMEA field team. The mistake was noticed by the inspecting engineer on his monthly visit after the hole had progressed to a point where altering the bearing was impossible. Results of this hole, although fairly informative, duplicates in part the information obtained from the previously drilled hole No. 2.

Henry W. Jones

Henry W. Jones
Mining Engineer

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

Diamond Drill Log Hole #1

Feet From	to	Size	Description
0	21	NX	Overburden, no core recovery
21	27	"	Meta volcanics, dark ground mass 21-25' 60% core recovery
25	27	"	Ore zone, sericite inclusions
27	34	"	General ore zone, dark inclusions.
34	39	"	Same as above, fround mass becoming darker.
39	45	"	Lean metavolcanics, some ore inclusions, more mineralized at 42'
45	47	"	Mineralized zone, dark ground mass, sericite inclusions
47	50	"	General ore structure 100% c.r.
50	55	BX	Broken ore structure, some sericite inclusions.
55	60	"	General ore structure 50% c.r.
60	65	"	Solid ore structure, ground mass becoming darker
65	70	"	General ore structure, black barren seam of meta andesites 69-70'
70	71	"	Ore structure 70% c.r.
71	75	"	Dark ground mass, barren meta volcanics. Possible lean corundum showing at 74'
75	76	"	Dark meta volcanics,no mineralization
76	82	"	Broken material slightly mineralized.
82	85	"	Ore structure,dark ground mass, more general mineralization.
85	90	"	Varied ore structure, low grade, 80% c.r.
90	94	"	General ore structure becoming less mineralized at contact.
94	100	"	Highly sheared zone of meta volcanics, no mineralization
100	105	"	Dark ground mass, dense meta volcanics, 90% c.r.
105	110	"	Shearing structure, platy, in a lighter ground mass. 100% c.r.
110	115	"	Dark ground mass meta volcanics, broken structure.
115	117	"	Porphyritic structure, crystals altered to a kaolin. 70% c.r.
117	125	"	Dark ground mass of meta volcanics, broken
125	130	"	Same as above.
130	135	"	" " "
135	140	"	" " "
140	145	"	Sericite with Al-Si mineralization, black inclusions, brecciated, 20% c.r.
145	150	"	Same as above
150	155	"	Highly broken sericite structure, mud seam near 160', ~~[illegible]~~.
155	160	AX	No core recovery, changed to AX at 160 feet.
160	165	"	Ore structure, some dark ground mass inclusions, highly broken, 30% c.r.
165	170	"	Sericite and Al-Si mineralization showing ina light ground mass
170	175	"	Same as above but showing some kaolinization, 60%c.r.
175	178	"	Some sericite, altering gradually to a meta volcanic
178	185	"	Meta volcanics highly broken, occasional mineralization showing
185	190	"	Light colored meta volcanics, 20% c.r.
190	195	"	Mud seam 5% c.r.
195	200	"	No core recovery
200	208	"	Dark colored meta volcanic rock, highly silicious, scattered pyrite crystals showing, 100% c.r.
			Bottom of hole

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

Diamond Drill Log - Hole #4

Feet From	to	Size	Description
0	3	NX	Overburden
3	5	"	Meta volcanic material, dark ground mass, fine crystal structure. Dense, dark grained basalt material
5	10	"	Same as above
10	15	"	Same as above, becoming more broken at 15 feet.
15	17	"	Lighter ground mass, alteration phase at 17 feet.
17	20	"	Lighter ground mass becoming mineralized at end of run
20	25	"	Mineralized section, inclusions of sericite and kaolinite in a light ground mass
25	30	BX	Same as above
30	35	"	Mineralized zone becoming darker in color.
35	40	"	Low grade mineralization, some pyrite and hematite inclusions.
40	45	"	Ore structure, Good core recovery.
45	48	"	More disseminated ore structure
48	50	"	Silicious ground mass, very little mineralization, hematite inclusions.
50	52	"	Same as above but with purplish cast, suspected mineralization, Broken structure 50%c.r.
52	55	"	Broken country rock, oxidized, inclusions of talc. 50% c.r.
55	60	"	Low grade mineralization, kaolinization, conglomoration of ore particles interspersed through ground mass of meta volcanics.
60	64	"	Broken material, hematite inclusions, some mineralization 50% c.r.
64	70	"	Change in ground mass at 64' becoming lighter in color brecciated 50% c.r. Slight mineralization at 68'.
70	72	"	Light meta volcanic ground mass, hematite in seams, some kaolinization.
72	75	"	Light colored ground mass, silicified, sand stone appearing structure, manganese stain at 74'.
75	80	"	Quartzite, broken, 50% c.r.
80	85	"	Mud seams, intervening through oxidized quartzite material, iron stains, 10% c.r.
85	90	"	Same as above.
90	95	"	Same as above 60% c.r.
95	100	"	Quartzite showing sulfide inclusions, pyrite, oxidized seams.
100	105	"	Broken quartzite showing considerable iron oxidation 5% c.r.
105	110	"	No core recovery
110	115	"	Kaolin or talc like material, 10%c.r.
115	120	"	Sericite inclusions in a meta volcanic ground mass, becoming increasingly mineralized with sericite. 70% c.r.
120	125	"	Sandy structure altering to meta volcanics containing sericite. General mineralized zone ~~from 122'~~
125	130	"	Mineralized structure, Al-Si mineralization, sericite inclusions.
130	135	"	Same as above.
135	140	"	Mineralized structure, corundum seams observed, believed to be good ore. 50% c.r.

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

(Cont.) Diamond Drill Log # Hole #4

Feet From	To	Size	Description
140	145	BX	Believed to be good ore zone 90%c.r.
145	150	"	Same as above except darker ground mass.
150	155	"	Al-Si mineralization altering to meta volcanic dark groundmass.
155	160	"	Highly silicious material changing from a dark to a lighter ground mass.
160	165	"	Al-Si mineralization at 160'
165	170	"	Some mineralization,altering to a meta andesite 100% c.r.
170	175	"	Same as above
175	180	"	Meta andesite, lightmground mass with dark phenocrysts brecciated.
180	185	"	Same as above, some sericite at 185'.
185	190	"	Darker ground mass, no mineralization 50%c.r.
190	195	"	Same as above, some alteration to kaolin. 60%c.r.
195	200	"	Dark meta andesite, slight mineralization at 197, material becoming more broken

Bottom of hole.

Diamond Drill Log - Hole #5

Feet From	Feet To	Size	Description
0	5	NX	Overburden
5	6.5	"	Mineralized zone, Good grade Al-Si.
6.5	7.0	"	Mudseam
7.0	13.5	"	Al-Si mineralization, Good core recovery.
13.5	14	"	Kaolin in mineralized zone.
14	19	"	Mineralized zone, small inclusions of manganese.
19	20	"	General mineralized zone, corundum, some sericite.
20	25	"	Same as above.
25	30	"	Same as above.
30	35	"	Same as above.
35	37	"	Ore zone less mineralized, light buff ground mass
37	49	BX	General ore structure, light buff ground mass, some sericite inclusions.
49	51	"	Mud seam
51	55	"	Same as above.
55	57	"	White talc, becoming mineralized.
57	64	"	Mineralized structure, light buff ground mass,good core
64	69	"	Ore structure, generally broken
69	73	"	General ore zone, light buff ground mass, broken.
73	78	"	Some sericite inclusions in ore structure.
78	83	"	Broken ore structure
83		"	Mud seam, containing clay and talc Good core recovery.
83	88	"	Broken ore structure.
88	98	"	Ore structure, less broken, light buff ground mass, becoming more quartzitic.
98	108	"	General ore structure, some sericite inclusions. Corundum showing quite strongly. Poor core recovery.
108	110	"	Brecciated ore structure Poor core.
110	117	"	General ore structure. 50% c.r.
117	122	"	Brecciated ore structure.
122	124	"	Solid ore structure.
124	127	"	Quartzite showing scattered pyrite on fresh surfaces, some oxidation. Some kaolinization at end of run.
127	129	"	Some mineralization in meta volcanic material. 80% c.r.
129	132	"	Highly kaolinized material showing some Al-Si inclusions.
132	134	"	General ore structure, tending toward kaolinization. 90% c.r.
134	139	"	Well mineralized ore structure 60% c.r.
139	144	"	Highly brecciated ore structure, some sericite inclusions 50% c.r.
144	149	"	Same as above 20% c,r.
149	154	"	Same as above, becoming well kaolinized at end of run.
154	155	"	Quartzite, oxidized seams, highly broken. No ore
155	159	"	Dark meta andesite ground mass, somewhat broken, sericite inclusions.
159	162	"	Solid ore structure, some sericite inclusions, becoming highly broken. 90% c.r.
162	168	"	Highly brokenore structure, Intermixed with pieces of meta volcanics.

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

(Cont.) Diamond Drill Log- Hole #5

Feet From	Feet To	Size	Description
168	174	BX	Solid mineralized structure, considerable sericite. Small amounts of meta volcanics in vugs. 70% c.r.
174	179	"	Highly broken ore structure, shear planes, some dark masses included. 100% c.r.
179	184	"	Same as above. 40% c.r.
184	189	"	Crushed zone, some mineralization showing, sandy structure.
189	194	"	Altered meta volcanics. Dark olive or mud appearance on wetting. Considerable brecciation 30% c.r. Some ore.
194	197	"	Highly broken low grade ore structure. Some meta voldanics showing in pebbles. 50% c.r.
197	200	"	Highly broken ore structure, sericite inclusion and meta volcanics,
200	210	"	Same as above except highly sheared and tending toward a shistose structure. 10% c.r.
210	215	"	Highly broken meta volcanics, dark ground mass. No ore.
215	220	"	Same as above only becoming lighter.
220	230	"	Meta volcanics, highly broken and quite silicious.
230	235	"	Meta volcanics, highly brecciated, pyrites and oxidized faces.
235	240	"	Same as above.
240	250	"	Same as above.

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

Diamond Drill Log - Hole #6

Feet From	Feet To	Size	Description
0	5	NX	Overburden
5	8	"	Quartzite boulder at 5', broken up condition at 5.5'. Meta andesites, somewhat brecciated with sericite and Al-Si mineralization. Country highly broken up at 7'.
8	10	"	Mineralized with sericite. Dark inclusions 100% c.r. Same as above except kaolinized structure, becoming more mineralized with Al-Si. 100% c.r.
10	15	"	Ore zone showing Al-Si mineralization, Some dark inclusions and sericite. 100% c.r.
15	20	"	Broken up zone, some sericite and meta volcanics becoming more barren at end of hole.
20	25	"	Meta volcanics, dark ground mass, solid structure, small inclusion of sericite at 25'.
25	27	"	Dark massive meta volcanics. No mineralization.
27	29	"	Broken zone altering to sericite and Al-Si mineralization with inclusions of quartzite. 60% c.r.
29	33	"	Sericite structure and Al-Si minerals, mineralization increasing. Meta Andesites inclusion at 31'.
33	37	"	General ore zone with some andesites included at 33-35'. Broken structure at end of run. 90% c.r.
37	43	"	General ore structure, broken. 90% c.r.
43	44.5	"	Ore structure, highly kaolinized at end of run.
44.5	48	"	Light ground mass meta andesite, containing specks of manganese, kaolinized at 48'.
48	54	"	Kaolinized structure, light ground mass, highly broken becoming more oxidized 20% c.r.
54	60	"	Seams of hematite and sericite in andesite, highly broken 20% c.r.
60	65	"	Alteration to sericite and Al-Si mineralization. General mineralized zone.
65	71	"	General mineralized structure, silicious at 71'. 100% c.r.
71	76	BX	General mineralized structure, increasing corundum content. 100% c.r.
76	81	"	Ore zone becoming more coarsely crystalized, silicious in appearance.
81	86	"	Highly brecciated andesites, light ground mass to 86'. Highly oxidized faces. 20% c.r.
86	90	"	Ground mass changes markedly to dark colored volcanics. 80% c.r.
90	91	"	Same as above.
91	96	"	Highly broken mineralized structure. No apparent change in structure to indicate alteration zone, some sericite inclusions.
96	98	"	Mineralized section
98	105	"	Meta volcanics, alternating dark and light ground masses. No ore.
105	107	"	Same as above. 70% c.r.
107	114	"	Alteration to sericite mineralization at 107, highly broken.
114	120	"	Altering to general ore zone, quite silicious. 100% c.r.

(Cont.) Diamond Drill Log - Hole #6

Feet From	To	Size	Description
120	125	BX	General mineralized structure, rock more consolidated 100%c.r.
125	130	"	General mineralized structure. 100%c.r.
130	146	"	Same as above. General mineralized structure. 100% c.r.
146	147	"	Dark meta volcanic ground mass with Al-Si mineralization shot through structure.
147	153	"	General mineralized structure, darker in color. 100% c.r.
153	154	"	Alteration zone from mineralized material to quartzite with ore shot through tth structure. 100%c.r.
154	158	"	Quartzite with streaks of Al-Si mineralization
158	164	"	General Mineralized structure, seam of hematite intermixed with ore at 163'. 100% c.r.
164	170	"	Alteration to meta volcanics, dark ground mass, highly broken, Some sericite inclusions at 170'. 80% c.r.
170	176	"	Meta volcamics with small inclusions of sericite. 10% c.r.
176	179	"	Same as above. 10%c.r.
179	186	"	Alteration and slight mineralization, sericite, highly broken.
186	191	"	Alteration to meta andesites, increasingly darker groundmass with phenocrysts becoming frequent. 100% c.r.
191	197	"	Meta volcanics, dark ground mass, highly brokenlast part of run.
197	201	"	Same as above, oxidazed faces, some sericite inclusions. 100% c.r.
201	205	"	Highly silicious meta volcanics, broken. 20% c.r.
205	208	"	Same as above, becoming sandy. 20% c.r.
208	212	"	Meta andesites, 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.
226	227.5	"	Same as above. 90% c.r.
227.5	231	"	Alteration to Al-Si mineralization. Meta andesites with sericite inclusions. 80% c.r.
231	236	"	Darker ground mass, faces show oxidation, no mineralization.
236	243	"	Same as above.
			End of hole

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 APR 7 1953

Month of [illegible], 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [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						
Bulldozing						
Crosscutting						
Drifting	[illegible]	[illegible]	[illegible]			
(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 [illegible] *Payee [illegible]

Per [illegible] 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 [illegible]
(Authorized Certifying Officer)

Date APR [illegible] Vou. No. SF-DMEA-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. [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 April 6, 1953

H.C.Hiller

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 MR-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS APR 7 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1953 Docket No. DMEA 2012 Contract No. [illegible]
Operator's Name Corunda Corporation Minerals Andalusite &
Address 330 Ivoo 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 [illegible]	9752.00	863	[illegible]	1619	17,445.50		
Churn							2000	11.00
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 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.

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

Corunda Corporation
386 Rose Street
San Jose, California
April 1, 1953

Attachment to Report 104 and 104A
Contract No. [illegible] 467
Docket No. [illegible] 2512

During the month of March, 649 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 130 feet deep as of March 31st.

Upon the approval of Mr. Johnson, Bureau of Mines, Reno, Nevada, the remaining footage of the 1600 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 BX size bit to 41 feet, 41 to 160 feet BX and 160 to 208 feet AX and at an angle of minus 20°. No ore was contacted for the first 25 feet after which a general ore zone was found to exist down to 100 feet. This zone was interrupted by seams of meta volcanics and was found broken.

Another general ore zone was found between 140 and 180 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 20°. 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 bearing 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 9.1 feet.

No. 5 hole which was continued from 86 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 30°.

The ore zone which was contacted at the early part of the hole continued on through 86 feet down to 139 feet with minor seams 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 volcanic 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.

Corunda Corporation
856 Race Street
San Jose, California
April 1, 1953

Attachment to Report 104 and 104A
Contract No. ID -E 457
Docket No. DMEA 2512

No. 6 hole was drilled with an NX size bit to a depth of 71 feet and BX size for the remainder of the hole, namely, 243 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 130 feet which had been drilled as of March 31st. The angle of dip of the hole was set a minus 80°.

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 cut 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 bottoms 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% alumia. Silica analysis on several samples from No. 5 hole ranged from 50 - 64%. The alumina 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 call library. Pulp samples have also been delivered to the above named place.

Diamond Drill Log Hole #1

Feet From	To	Size	Description
100	105		Meta Volcanics, dark ground mass 50% C. R. material solid.
105	110		Same as above - lighter ground mass - considerable shear action or plate like structure. 100% C. R.
110	115		70% C. R. Meta volcanics
115	120		115'-117' lighter ground mass porphyritic structure. 117'-120' feldspar crystals altered to Kaolin. 70% C. R.
120	125		Darker ground mass, meta volcanics 60%. More broken up.
125	130		Same as above.
130	135		80% C. R. Same as above.
135	140		70% C. R. Same as above. Altering at 140' to sericite.
140	145		Sericite with Al-Si black inclusion shown 80% C. R.
145-	145		Highly broken up same as above.
145	150		Same as above.
150	155		Highly broken sericite zone changing to mud seam.
155	160	AX	No core recovery - changed to AX drill size at 160'.
160	165		Ore zone - dark inclusions - highly broken up 30% C. R.
165	170		60% C. R. Light ground mass sericite Al-Si showing.
170	175		60% C. R. Same as above showing kaolinized.
175	180		Sericite same as above altering to sericite of meta volcanics 178-180.
180	185		20% C. R. Highly broken up country-meta volcanics, occasional Al-Si showing.
185	190		20% C. R. Light colored meta volcanics.
190	195		Mud seam - 0% C. R.
195			No core recovery - mud seam.
200	205		100% C. R. dark colored meta volcanics - highly siliceous - scattered sulfides showing. Bottom of hole.

Docket No. [illegible]-2512
Contract No. [illegible]

Diamond Drill Log - Hole #4

Feet From	Feet To	Size	Description
0	3	EX	Overburden
3	8	"	Meta volcanics - dark ground mass. Fine crystal structure, black in color. Dense, dark grained basalt G. C.
8	10	"	Same as above G. C.
10	15	"	Same except core broken up at 14' - 15' C. F.
15	17	"	Lighter ground mass - alteration place at 17' G. C.
17	20	"	Lighter ground mass becoming mineralized at 20' G. C.
20	25	"	Becoming highly mineralized at 24' - inclusions of serpentite in light ground mass, kaolinite
25	30	"	Same as above
30	35		Mineralized zone becoming darker in color
35	40		Low grade ore - some pyrite and hematite inclusions becoming more mineralized 100% S. F.
40	43		Ore Zone G. C. F.
43	48		Lower grade ore zone
48	50		Becoming siliceous - darker ground mass - hematite inclusions
50	52		Same as above but with purplish cast - are total mineralization (sillimanite 50% C. F. broken up)
52	55		Broken up country - oxidized inclusions of talc. 50% C. F.
55	60		Low grade mineralization, kaolinite structure 50% F. Devitrification and particles about the rock. Light ground mass - meta volcanics
60	65		Broken up country - Iron inclusions at 60' - hematite oxidized surface - some mineralization. Contact or change at 64' lighter ground mass - brecciated 50% C. F.
65	70		66' meta volcanics - showing mineralization 68'
68	70		Same as above
70	72		Light ground mass, meta volcanic hematite core - mineralization. Some kaolinization.
72	76		80% C. F. Light colored ground mass - silicified - mineralization ore zone. Manganese - 76'. Sandstone structure light ground mass.
76	80		Quartzite. Broken up 40% C. F.
80	83		10% C. F. Bad section - interrupting
81			Iron stains - quartzite - purplish cast - through 85' oxidized surfaces.
83	90		Same as above
90	92		Same as above 60% C. F.

Docket No. [illegible]
Contract No. [illegible]

Diamond Drill Log - Hole #4

Feet From	To	Size	Description
65	100	BX	Quartzite showing sulfide - 60% C. R. oxidized zone. 8% S. Fe. Broken up quartzite showing considerable iron oxidization.
100	110		Fe C. R.
110	115		10% C. R. Kaolin or talc-like material.
115	120		Beta volcanics, sericite inclusions showing at 121' becoming increasing amounts of sericite 70% C. R.
120	125		Sandy structure altering to beta volcanics, altering to sericite at 128' 60% C. R. becoming mineralized at 128' - General ore zone.
125 to 130			Ore zone. Al-Si - sericite inclusions.
130	135		Same as above.
135	140		C. R. 60% Ore zone carbonate seams showing. Good ore.
140	145		80% C. R. Good ore zone.
145	150		Same as above except darker ground zone.
150	155		Al-Si altering to beta volcanics - dark ground mass.
155	160		Highly siliceous material changing from dark to light ground mass.
160	165		Altered to Al-Si ore zone at 160' 160-165 ore zone.
165	170		Ore zone 100% C. R. altering to beta andesite. Some mineralization.
170	175		Same as above.
175	180		Beta andesite - highly brecciated light ground mass with dark phenocrysts. 100% C. R.
180	185		Same as above - sericite showing 185'.
190	195		Beta andesite dark ground mass.
195	200		Same as above 50% C. R.
200	205		Same as above 205' altering to kaolinized structure 60% C. R.
205	209		Same as above - some mineralization at 207' becoming more broken up. Sericite showing at 208'. Bottom of hole.

Diamond Drill Log - Hole #5

Feet From	To	Size	Description
19	51	22-27'	Lime rock
51	[illegible]		Same as above
56	57'5		White talc - becoming mineralized
57'5	62		Mineralized ore zone, light buff ground mass C. C. B.
64	65		Normal ore zone broken up at 63'
68	72		Zone so fractured at 73'. Possibly broken up at 72'
			Light buff ground mass - ore zone.
72	77		General ore zone - more sericitic than above
77	88		78-80' broken up ore zone - and down to 88'. Clay and talc C. C. B.
88	95		Ore zone - broken up
95	99		Ore zone - less broken up. Light buff ground mass - heavily ore quartzitic.
99	100		Ore zone - sericite chalcopyrite
100	105		F. G. B. Ore zone - Genuine chalcopyrite quite strongly
105	110		F. G. B. Precipitated ore zone
110	117		50% C. F. General ore zone - Solid
117	122		Broken up material ore zone
122	124		Ore zone solid

Docket No. [illegible]
Contract No. [illegible]

Diamond Drill Log Hole #6

Feet

From	To	Size	Description
124	127		Quantities of very scattered pyrite on fresh surface and some oxidation. Alteration at 127' to hydrolization.
127	129		General ore zone - not highly mineralized 10% C. F.
129	132		Highly hydrolized showing Al-Si leaching. Poor ore.
132	134		General ore zone - showing towards hydrolization. Solid ore. 50% C. F.
134	137		Ore zone. Well mineralized. Solid ore zone. 50% C. F.
137	141		Highly broken up ore zone. Sericite inclusions 50% C. F.
141	149		20% C. F. Same as above.
149	154		40% C. F. Same as above showing well hydrolized and altering to quartzite at 154.
154	156		Quartzite, oxidized seams, altering to light green sericite, highly broken up.
156	159		Sericite inclusions in dark, pressed zone. Meta volcanic component broken up altering to hydrolization 159'-160'. Solid ore zone-some sericite incl. zones becoming highly broken up. 50% C. F.
159	162		Highly broken up ore zone. 40% C. F.
162	164		75% C. F. Same as above.
164	168		75% C. F. Highly broken up ore zone - pieces of meta volcanics interbedded.
168	170		Solid ore zone - considerable sericite included. 70% C. F. Small amounts of meta volcanics in vein.
170	174		100% C. F. Highly broken up ore zone - showing shear planes. Some dark masses included.
174	179		40% C. F. Same as above.
179	184		Sericite zone - some ore showing. Sandy structure.
184	189		Altered meta volcanics 50% C. F. Dark olive-gray and appearance on weathering. Considerable brecciation. Alteration to low grade ore.
189	197		Highly broken up low grade ore zone. 50% C. F. Some meta volcanics showing in veinlets.
197	200		10% C. F. Highly broken up ore zone- sericite inclusion and meta volcanics.
200	210		Same as above except highly sheared and tending to a schistose structure. 10% C. F.
210	213		Highly broken up meta volcanics - dark green zone.
213	220		Same as above except lighter green color.
220	230		Meta volcanics - highly broken up very silicified.
230	238		Meta volcanics - highly brecciated - pyrites and oxidized areas.
238	240		Same as above.
240	250		Same as above.

Docket No. [illegible]-3512
Contract No. [illegible]-[illegible]87

Diamond Drill Log Hole #6
0 - 71' NX 71' - 345' BX
Angle of Dip - 30'

Feet From	To	Size	Description
0	5		Overburden
5	6		Quartzite boulder at 6'; broken up condition at 5.5' meta andesites, somewhat brecciated with sericite and AlSi mineralization. Country highly broken up at 7'. Highly mineralized with sericite. Dark inclusions 100% C.R.
6	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 - 60% C.R.
30	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 39-41'.
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 5.C.R. 20%.
54	59		Highly broken up to 58', seams of hematite and sericite in andesite. Light ground mass 58-59' 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 crystallized. Siliceous in appearance.
81	86		Highly broken up andesites, light ground mass to 86', 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

Diamond Drill Log Hole #6
[illegible] - 71' [illegible] 71' - 225' [illegible]
Angle of Dip - 80'

Feet From	To	Size	Description
91	98		Highly broken up ore zone, no apparent change in strength to indicate alteration zone. 92-98' ore zone solid, sericite inclusions 100% C.R.
98	99		98-99' ore, altering to meta volcanics, alternating dark ground mass for few inches, then light ground mass to 99'. 100% C.R.
99	103		Meta volcanics dark ground mass with light patches 100% C.R.
105	110		103-109' 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. 80% 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	135		Same as above, 100% C. R.
135	138		Same as above, 100% C. R.
138	148		Same as above, alteration at 140 to meta volcanics with [illegible] ALSI shot through, dark ground mass.
148	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 ALSI mineralization to 158'. 158' ore zone to 161, 30% 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.R. 10%
176	179		Same as above, F.C.R. 10%.
179	186		Alteration to ALSI or sericite at 180', F.C.R. 20% highly broken up.
186	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, feels oxidized, highly broken up, C.C.R 100%, some sericite inclusions.
201	203		Highly siliceous meta volcanics highly broken up, 20% C.R.
203	208		Same as above, becoming sandy. F.C.R. 50%.
208	212		Meta andesites, 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, 50% C. R.
227.5	231		Alteration at 227.5 to ALSI continuing to 229 where

Diamond Drill Log Hole #3
X - VI' NX VI' - 245' NX
Angle of Dip - 30'

Feet From	To	Size	Description
			where another alteration occurs, with andesites with sericite inclusions to 231, 80% C.R.
231	236		Changing to darker ground mass at 231, fuzzy show, oxidation, continuing to 236'.
236	245		Same as above. End of Hole.

DIAMOND DRILL HOLE NO. 7
0 - 20' - NX 20' - 20' - 167'

Depth From	To	Size	Description
0	5		0 - 4' meta andesites broken up, light ground mass to 4' very dark and finely crystalline meta volcanics 4 - 5' 100% C.R.
5	20		5 - 10' meta andesites lighter ground mass, highly broken up. 10 - 18' sandy, structure changing to more solid rock at 16' continuing to 20'. 30% C. R.
20	30		Meta andesite highly broken up epidote coarse - 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 38'. 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 49' - 50'. 30% C. R.
50	55		Sericite becoming inclinised 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 58 - 60' changing to light colored ground mass which continues through 63' 100% C.R.
60	64		Light colored andesites with hematite inclusions to 62' where color of volcanics become dark and texture finely crystalline. 100% C.R.
64	70		Dark meta volcanics, finely crystalline structure. 50% 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 95-99' 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 Alsi. 100% C.R.
110	112		General sericite and Alsi zone 100% C. R.
112	118		112-113 same as above altering to meta andesites, light ground mass.
118	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	128		125-127 alteration to sericite and Alsi becoming broken up at 128'. 100% C.R.
128	130		Broken up ore zone altering to finely textured meta andesites which is more solid. 100% C.R.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 24 1953

Date: March 20, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2512

Contract Idm-E 457

Commodity Andalusite, Corundum

Operator - Coranda Corp.
386 Race Street
San Jose, Calif.

P. O. Box 1484
Hawthorne, Nev.

Property - Green Talc Mine and Bismark Mine
Mineral County, Nevada

By Henry W. Jones, Mining Engineer

Dated March 18, 1953

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

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)
Geo. Mavor

INTERIM REPORT

Docket No.: DMEA-2512 (andalusite, corundum) March 18, 1953

Name and address of operator: Coranda Corp.,
386 Race St., San Jose, Calif.
P. O. Box 1484, Hawthorne, Nev.

Name and location of property: Green Talc Mine and Bismark Mine
Mineral County, Nevada

Contract No.: Idm-E457

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Green Talc mine (andalusite, corundum), situated about 12 miles northeast of Hawthorne, Nev., was visited on March 6, 1953. Diamond drill progress applicable to the DMEA contract was checked and copies of the core log were obtained from the operator and engineer.

Holes 2 and 3 have been completed to date. Drill core log for hole 2 is attached. Three diamond drills are in operation on the property.

Hole 1 was drilled to a depth of 75 feet, hole 4 is at a depth of 90 feet, and hole 5 is to a depth of 111 feet. The core recovery has steadily improved; probably due to the drillers gaining experience in this type of rock material and the harder formations encountered on the northwest slopes of the ridge. The core recovery for hole 1 to date was 55.0 percent; hole 4 was 77.0 percent and hole 5 was 76.0 percent.

Drilling progress is slow but considered satisfactory. Analysis of the core material has not yet been started.

WORK COMPLETED

The Green Talc mine was visited on March 6, 1953 in company with R. A. Holt to check the diamond drill progress since the last visit of Feb. 13, 1953. Work has been progressing satisfactorily on the present holes. Drill hole 2 was continued beyond its prescribed 250 foot depth when the mineralization was found to continue. The hole was terminated at 286 feet after a short distance in a non-mineralized zone. The rig was then moved from hole 2 to a location in the gully and just above the dump on the opposite side of the slope from the proposed No. 1 hole when it was found the rock formations in hole 5 were less broken. Hole No. 5 had been previously spotted on the northwest slope of the ridge midway between the projection of holes 2 and 3, about 20 feet west of the access road and at an altitude of 5,208 feet.

The drill core currently is being logged jointly by R. A. Holt (operator) and L. B. Spencer (engineer). Copies will be submitted at the completion of each hole, to accompany the interim report. Information on drill holes are listed below as of the date of the inspection.

Hole No.	Start Date	Completion Date	Depth Feet	% Core Recv.	Av. Daily Foot.	Angle	Bear.	Approx. Elevation
1	2/24/53	-	75	55.0	7.5	-20°	S35°E	5,170 ft.
2	1/8/53	2/19/53	286	?	7.5	-25°	N45°W	5,170 "
3	1/7/53	2/12/53	200	46.0	6.6	-20°	N49°W	5,170 "
4	2/19/53	-	90	77.0	6.4	-20°	N45°W	5,175 "
5	2/14/53	-	111	76.0	6.2	-30°	S45°E	5,208 "
			762					

All holes have been reamed, cemented and cased. Hole 1 has BX casing to 72 feet, hole 4 is being cased to 90 feet, and hole 5 has BX casing to 79 feet.

A topography map is being completed by the company engineer covering additional formations and deposits to the north and adjoining present mapped structures.

PROGRESS

Progress has been slow due to the alterable hardness of the formations. Cementing and reaming have to be advanced concurrently with the coring of all holes. A few days of time was lost when a high wind blew over and demolished the three tripods set up over the drill rigs.

Henry W. Jones
Henry W. Jones
Mining Engineer

Green Talc Mine
Mineral County, Nev.

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

Underlined footages indicate mineralization. Strike N. 45° W; dip 25° N.W.

Diamond drill log - Hole 2

Feet From	Feet To	Size	Description
0.0	15.0	NX	No core.
15.0	20.0		Occasional quartzite boulders in overburden.
20.0	26.0	BX	Highly brecciated silicified meta-andesite, iron-stained fractures, occasional manganese stain in fractures.
26.0	31.0		Dark granular silicified meta-andesite, gradually becoming more silicious, quartz breccia inclusions.
31.0	31.5		Small sericite particles in oxidized, brecciated silicified fault stringer.
31.5	37.0		Silicified meta-volcanics containing quartz breccia inclusions. Iron-stained fracture at 33 feet. Core becoming unconsolidated, occasional core.
37.0	47.0		Schistose structure, sericitized, becoming more massive, occasional sillimanite minerals observed. Hematite streaks and vugs in sericite and quartzite matrix. Hematite making up about 5% of rock mass at 45 to 47 feet.
47.0	65.0		Extremely vuggy quartzite, considered true quartzite, iron stains impregnating material. Occasional area showing pyrite mineralization. No sericite observed. Blue green material in quartz matrix at 53.2 feet (copper mineralization). Fresh pyrite becoming more pronouned at 60 to 65 feet.
65.0	66.0 ±		White bull quartz, epidote filling of fracture.
66.0	67.0		Quartzite containing fresh pyrite, oxidized and vuggy in part.
67.0	75.0		Brownish fine sand, becoming clayey, epidote in matrix. No core recovered 70-75 feet.
75.0	79.0		Soft, partially granular, mud base material, assuming sandstone appearance. Gradually becoming harder and having appearance of silicified meta-volcanic.
79.0	80.0		Broken silicious material, occasional epidote in fractures.
80.0	90.0		Micaceous appearing material, very soft becoming harder could be altered (volcanic dike material) very slightly sericitized at 81 feet.

Feet From	Feet To	Size	Description
90.0	107.0	BX	Sericite in quartzite, epidote noted at 91 feet. Core recovery 28% to here. No core from 100 to 105 feet. Sericite in schistose structure at 105 feet, becoming softer, changing to sericite pebbles in soft (kaolinite) matrix.
107.0	117.0		Hard silicious material, pyrite mineralization, no ore.
117.0	130.0		Broken sericitic silicified at edge of ore zone, sillimanite minerals quite prominent. Poor core recovery. Fault structure, oxidation, between 128-130 feet.
130.0	135.0		Sericite cementing dark gray to black mineralized inclusions (meta-andesite).
135.0	144.0		Kaolinized zone, occasional sericite, containing prominent sillimanite minerals. Dark gray inclusion from 137-139 feet and again at 141-142.5 feet. Remainder very light in color.
144.0	146.0		Dark inclusions, believed to be (meta-volcanics) cemented with sericite, becoming more mineralized at 146 feet.
146.0	151.0		Predominently sillimanite minerals, fractured and recemented with sericite, highly sheared area 148-150 feet. Good core recovery.
151.0	156.0		Light porus, dark grained (altered and decomposed diorite? dike), granular appearance, associated with a black (schist) material, contact material noted at 156 feet. No mineralization.
156.0	172.0		Predominently (kaolinite) associated with sillimanite minerals, black schist inclusions; becoming progressively darker in color with occasional sericite and andalusite observed, dark (schist) material has crinkly appearance. Believed to be mineralized.
172.0	173.0		Schist structure altering to a brecciated mud, some sericite in breccia (possible fault structure).
173.0	180.0		White kaolinite material cementing dark schist, crinkly effect. Some mineralization.
180.0	180.5		Soft granular purpole zone (meta-andesite?). No mineralization.
180.5	187.0		Dark schist, sericitization in fractures. Light brown crystals(pyrite casts) altered to hematite, scattered through rock mass.
187.0	190.0		Green sericite altered to clay, occasional Al-Si gouge zone?
190.0	195.0		Highly broken zone, sericitized, some clay, bull quartz and pyrophyllite noted at 195 feet.

Feet From	Feet To	Size	Description
195.0	201.0	BX	Less broken, solid core, sericite, becoming cherty toward 200 feet.
201.0	212.0		Bands of sericite, somewhat silicified in schistose structure. Solid sericite at 206 feet and at 212 feet.
212.0	215.0		Gradual transition from massive sericite to sericite and meta-andesite schist; schist partly replaced by sericite and minor amounts of Al - Si.
215.0	225.0		Silicification of meta-andesite. Scattered sericite bands.

Log continued by
L. B. Spencer and R. Holt.

225.0	230.0		Sericite in meta-volcanics, darker ground mass, broken.
230.5	233.0		Contact, change in structure to finer grained silicon and sericite. Lighter ground mass, increased mineralization to 233 feet.
233.0	237.0		Meta-volcanics, silicified. Contact to definite mineralization Al-Si at 237.
237.0	240.0		Al-Si altered to meta-volcanics and sericite.
240.0	245.0		Broken meta-volcanics with sericite.
245.0	247.0		Meta-volcanics with some mineralization and darker groundmass.
247.0	248.0		Mineralization changing to meta-volcanics.
248.0	250.0		Meta-volcanics silicified.
250.0	251.0		Mineralized zone Al-Si.
251.0	255.0		Meta-volcanics some sericite changing from dark to lighter groundmass.
255.0	257.0		Altered to mineralized zone Al-Si.
257.0	260.0		Altered to meta-volcanics, silicified.
260.0	263.0		Meta-volcanics, light groundmass, dark inclusions.
263.0	264.0		Mineralized Al-Si
264.0	265.0		Meta-volcanics.
265.0	270.0		Meta-volcanics becoming increasingly mineralized.
270.0	275.0		Meta-volcanics with sericite inclusions, slight mineralization.
275.0	282.0		Do; only more broken.
282.0	285.0		Mineralized groundmass becoming more broken.
285.0	286.0		Altered to dark ground mass, meta-volcanics.
			End of hole.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1955 MAR 20 AM 8:38

SAN FRANCISCO, CALIFORNIA

(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 Chief, Mining Div. Date March 3, 1953.

A. C. Johnson

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Region III

Signature H C Miller Title Executive Officer DMEA Field Team Date March 5, 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 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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
ACCOUNTS MAR 16 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

MAR 3 1953

Month of February, 1953 Docket No. DMEA 2010 Contract No. [illegible]
Operator's Name Coronado Corporation Minerals [illegible]
Address 500 Hanc St., San Jose, Calif.
Contract Amount, $ 32,000 Government Participation: 00 % Amount, $ 32,000

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 March 2, 1953 *Payee Coronado Corporation

Per J. 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:

$ 4181.40

Lloyd H. Sjolander
Authorized Certifying Officer

Signature _____ (Authorized Certifying Officer)

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

(See other side)

Form MF-104A
(April 1952)

Budget Bure[illegible]
Approval ex[illegible] 53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS MAR 6 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 195 3 Docket No. DMEA 2532 Contract No. [illegible]-3-457
Operator's Name Coronda Corporation Minerals Alabaster
Address 336 Moe 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.	4646.00	604	7693.50	668	7695.50	2500	11.00
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 March 2, 1953 Operator Coronda Corporation

Per J. H. Robbs 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.

U. S. GOVERNMENT PRINTING OFFICE 205676

CORANDA CORPORATION
366 Race Street
San Jose, California

Attachment to Report 104 and 104A
Contract No. 1DR-E 457
Docket No. DMEA 2512

During the month of Feb., 404 feet of diamond drilling was performed. two holes were bottomed, No. 2 hole 236 feet deep, No3 hole 207 feet deep. No 2 hole was allowed to be drilled 38 feet deeper as a remainder zone was evident and was stopped upon entering waste rock. No 3 hole was stopped as the 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 80°, as jointly agreed by the DMEA field team and Coranda Corp. No. 1 hole was spotted opposite the mar 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 [illegible] 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 drill. No. 3 hole was 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 2.34 and 2.92 on two normal s taken at random which according to other analysis and experience would indicate a 40% sulfide content.

Drilling progressed at a rate of 2.3 feet per day on No. 5 hole, 9.1 feet per day on No. 2 hole, 12.1 feet per day on No. 3 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. 5 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. 22.

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 3 1953

Date: Feb. 27, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2512

Contract Idm-E 457

Commodity Andalusite & Corundum

Operator - Coranda Corp.
386 Race Street
San Jose, Calif.

P. O. Box 1484
Hawthorne, Nev.

Property - Green Talc Mine and Bismark Mine,
Mineral County, Nevada

By Henry W. Jones, Mining Engineer

Dated Feb. 25, 1953

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

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)

INTERIM REPORT

Docket No.: DMEA-2512 (Andalusite, corundum) February 25, 1953

Name and address of operator: Coranda Corp.
386 Race Street P. O. Box 1484
San Jose, Calif. Hawthorne, Nev.

Name and location of property: Green Talc Mine and Bismark Mine, Mineral County, Nev.

Contract No.: Idm-E457

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The Green Talc Mine (andalusite, corundum), situated about 12 miles northeast of Hawthorne, Nev., was visited on Feb. 7 and again on Feb. 11 to 13, 1953. The latter visit was made in company with A. J. Bodenlos, U.S.G.S. Diamond drill progress was checked, drill cores logged, Hole 3 core was skeletonized, and additional holes were potentially spotted for future drilling, pending the outcome of assays.

Three diamond drill rigs are currently on location. The third rig was being placed in position at drill site No. 5 during the inspection. Diamond drilling was still in progress on Hole 2, with a depth of 225 feet being attained. Hole 3 was completed at a depth of 200 feet and the rig was being moved to drill site No. 4 (see fig. 3 accompanying contract). Drill core log for Hole 3 is attached.

Drilling conditions have improved with depth. Core recovery has also improved. An estimated 75 percent of core has been recovered from the latter 100 feet of both holes. Total core recovery for Hole 3 is estimated at 46 percent.

WORK COMPLETED

The inspection of Feb. 7, 1953 was confined to the logging of core of Holes 2 and 3. The inspection of Feb. 11 to 13, in company with A. J. Bodenlos, U.S.G.S., covered several phases of the drilling program. Additional and alternate holes were spotted for future drilling. The core on both holes were logged up to date. Hole 3 was terminated at 200 feet as prescribed by the contract and a skeletonized core was taken from the entire section for the U. S. Bureau of Mines core library at Reno, Nev. A log of drill Hole 3, made by the Bureau engineer, is attached.

Geology on the outlying and nearby outcrops was discussed as a partial means of determining the more favorable localities for the placing of alternate holes.

Three drill rigs are currently on the project. The third, larger and more powerful rig, was brought in and was being set up at drill site No. 5. The rig at Hole 2 is continuing to the prescribed depth of 250 feet, or if the mineralization persists, until the mineralized limits are determined. The rig at Hole 3 was being moved to drill site No. 4.

PROGRESS

Progress has been continuing at a slow rate, although somewhat increased when mineralization was encountered. The average progress for both holes over a period of 29 working days was 14.5 feet per 8-hour shift. Progress on Hole 2 to the present depth was 7.7 feet per shift, whereas on Hole 3 daily progress averaged 6.8 feet per shift.

The drill foreman, Hank Hines, decided that to enable a more efficient and less expensive drilling operation, a third and more powerful drill rig was to be placed on the job. Current drilling operations are far behind the contractors schedule.

Mineralization of unknown grade (at present) was encountered in both drill holes. A mineralized section in Hole 2 was encountered from 37 to 47 feet, then again from 90 to 212 feet. Drill Hole 3 showed mineralization from the surface to 33 feet and again from 97 to 158 feet.

Assays have not been run on the core to date, awaiting the completion of the Coranda Corp. field laboratory.

DISCUSSION

During the course of the inspection, several topics were brought forth relating to terms of the contract.

To date the inspecting Bureau engineer has logged and recorded all core. It was brought out that the operator's should provide adequate supervision with a qualified engineer present on the drill site to log the core, handle the field work and compile work reports. Further holes are to be spotted by this engineer, pending results of the assays, with the approval of the field team.

Drill cores should be adequately marked, split and boxed, half of which are to be sent to the Bureau of Mines core library at Reno. The pulps of the samples run by the corporation should also be made available to the Bureau for check sampling.

It was pointed out to the operator's that although drilling is

continuing satisfactorily, check assays of the core has not started. Inasmuch as additional drill holes depend upon this sampling, further hole spotting will be impossible.

Bob Holt, operator, informed the visiting geologist and engineer that the field laboratory would be completed within the following week and assaying started immediately.

Henry W. Jones
Henry W. Jones
Mining Engineer

Green Talc Mine
Mineral County, Nev.

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

Underlined footages indicate mineralization. Strike N. 49° W; dip 20° N.W.

Diamond drill log - Hole 3

Feet From	Feet To	Size	Description
0	4.5	NX	White (kaolinite)? changing to greenish cast sericite containing sillimanite minerals.
4.5	16.0	BX-5'	Soft mica schist inclusion, occasional gneissoid schist. No mineralization.
16.0	19.0		Greenish sericite containing sillimanite mineralization.
19.0	33.0		White kaolinite with occasional sericite inclusions, becoming progressively more mineralized at 26 to 33 feet.
33.0	41.0		Fine grained quartzite (no contact material) noted. Epidote at 41 feet. No mineralization.
41.0	45.0		Soft mud gouge assuming schistose structure, silicified and harder at 45 feet. No mineralization.
45.0	56.0		Considered to be quartzite at 45 feet, occasional epidote in fractures, in dark grained silicified meta-andesite, some mottled effect quartz breccia inclusions.
56.0	56.5		Black fine-grained dike (unknown width) lamprophyre ~~cutting~~.
56.5	66.0		Mottled silicified meta-andesite, dark, containing occasional epidote fillings in fractures.
66.0	90.0		Dark mud gouge, soft sandstone appearance, meta-andesite and altered schist. Little to no core.
90.0	97.0		Harder schistose material at 90 feet very little core; softer material at 95 to 97 feet becoming mud and clay at 97 feet. No mineralization. 26% core recovery to here.
97.0	99.0		Fractured flaky sericite, containing quartzite, brecciated and recemented.
99.0	105.0		Fractured quartzite, oxidized in fractures, pyrites in fresh rock. No sillimanite minerals.
105.0	115.0	AX	Dark brown quartzite, slightly brecciated, minor amounts of sericite in fractures. Pyrites in fresh rock, oxidized in fractures.
115.0	138.0		Sericite, minor amounts of sillimanite minerals, poor core recovery. Rock becoming kaolinized at 130 feet, sericitization of fractures, increasing sillimanite minerals, (corundum).
138.0	148.0		Black inclusions (meta-volcanics) cemented with sericite.
148.0	150.5		Light green sericiteic material sillimanite minerals present.
150.5	158.0		Dark silicious meta-volcanic) rock, slightly sericitized in fractures.
158.0	162.0		Dark mottled silicious schist, small lamprophyre dike at 159.0 feet. Very small amount of sericite noted. Schist becoming lighter in color to 162.0 feet.

Feet From	Feet To	Size	Description
162.0	170.0	AX	Light gray porphyritic schist, no mineralization, good core recovery. Slight sericite seam observed at 166.0 feet.
170.0	185.0		Hematite noted at 176.0 feet and again at 180.0 to 185.0 feet in porphyritic schist, Slightly silicified at 178.0 feet.
185.0	195.0		Predominantly light gray porphyritic schist, slightly silicified. No mineralization.
195.0	198.0		Black schist, kaolinite inclusions (probably altered sericite).
198.0	200.0		Black firm grained sand. Very little core.
			End of hole.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

FEB 23 '61 9:0

SAN FRANCISCO, CALIFORNIA

Form M[redacted]4 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R035.3.
Approval expires 6-30-53.

ACCOUNTS FEB 16 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1953 Docket No. DMEA 2612 Contract No. IBLD-457
Operator's Name Corando Corporation Minerals Andalusite
Address 386 Race Street, San Jose, Calif.
Contract Amount, $ 36,000 Government Participation: 00 % 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	03,047.50		03,047.50			
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 Corando Corporation

Per V. H. Roelda 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

Signature Lloyd W. Stearns
Authorized Certifying Officer
(Authorized Certifying Officer)

Date FEB 24 1953 Vou. No. SF-DMEA-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. 14-2157 in accordance with the terms of the contract.

Signature A. G. Johnson Title Chief, Mining Div., Region III Date February 12, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title ~~DMEA Field Team~~ Executive Officer Region III Date February 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-102A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

ACCOUNTS FEB 16 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1953 Docket No. DMEA 2512 Contract No. IDME-457
Operator's Name Coranda Corporation Minerals Andalusite
Address 386 Race 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	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. Rodeda 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 Jan. 31st, 265 feet of hole had been diamond drilled, 140 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 remained for 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 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 approximately 120 feet, No. 2 hole is believed to have contacted the ore structure and followed the contact zone down due to the angle 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 main 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

Date: January 28, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2512

Contract Idm-E 457

Commodity Corundum-Andalusite

Operator - Coranda Corporation
386 Rau Street
San Jose, California

Property - Green Talc Mine and Bismark Mine
Mineral County, Nevada

By Henry W. Jones, Mining Engineer

Dated January 26, 1953

H C Miller

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

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)

INTERIM REPORT

Docket No.: DMEA-2512 January 26, 1953

Name and address of operator: Coranda Corp.
386 Rau St., San Jose, Calif.
P. O. Box 1484 Hawthorne, Nev.

Name and location of property: Green Talc Mine and Bismark Mine
Mineral County, Nevada

Contract No.: Idm-E457

SUMMARY, CONCLUSION, RECOMMENDATION

The Green Talc mine and the Bismark mine (corundum, andalusite) are situated in the Gillis range about 12 miles and 14 miles respectively by road northeast of Hawthorne, Nev. These properties were visited on Jan. 12 and 13 and again on Jan. 22, 1953 to check the diamond drill progress applicable to the DMEA contract and to log the core. Two drills were set up on the Green Talc mine and drilling on a one shift per day basis has been in progress since Jan. 8, 1953.

Extremely difficult drilling conditions have been encountered to date due to the broken conditions of the ground and the variable hardness of the formations. Hole No. 2 had progressed to a depth of 105 feet and hole No. 3 was at a depth of 95 feet. Both holes were driven with BX size bits. Core recovery from these two holes was 28% and 26%, respectively. Sludge recovery has been satisfactory.

The diamond drilling has been slow but is progressing in a satisfactory manner considering the difficult conditions encountered. The drill crew is cooperating to the fullest extent in the handling and recovery of the core and sludges.

There are no recommendations for the improvement of operations at this time.

Statement of work completed

The Green Talc mine was visited on Jan. 12 and 13 and again on Jan. 22, 1953 to check the diamond drill progress applicable to the DMEA contract and to log the core. The contract between the Coranda Corp. and the United States government was signed on Dec. 5, 1952. Diamond drilling was contracted to the Processed Diamond Bit and Tool Co. of San Francisco, Calif. Equipment was moved in and drilling started on Jan. 8, 1953 on holes No. 2 and No. 3., the location and inclination as indicated on fig. 3. All holes are to be driven with BX size bits.

Both holes have been cemented, reamed and are now being cased to their present depths of 105 feet and 95 feet respectively. Logging of the core is complete to the reported depths. The core was logged cooperatively between the visiting engineer and R. B. Holt, supervising engineer. Core recovery on the two holes was determined to be 28% and 26% respectively. Sludge recovery was satisfactory. A copy of the logs will be submitted at the completion of the holes.

Comments on progress

Progress has been extremely slow due to the broken and alterable nature of the ground. Cementing is not too effective as the unconsolidated ground shifts within the hole after washing, thus necessitating casing.

The drilling foreman and crew are cooperating to the fullest extent in the handling and recovery of the core and sludges. Operations are running smoothly with few equipment breakdowns or interruptions in the daily work shift.

Henry W. Jones

Henry W. Jones
Mining Engineer

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
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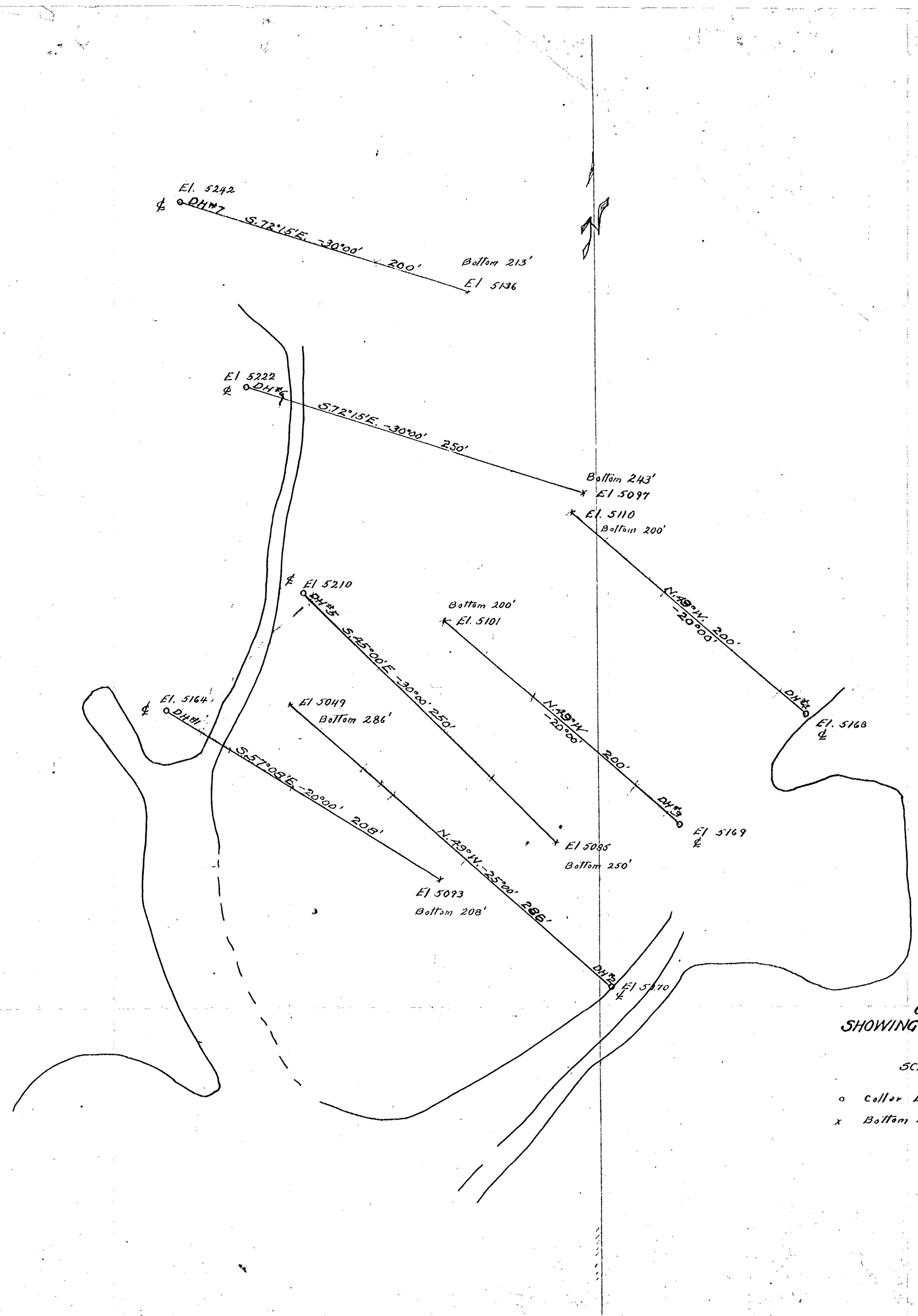

GREEN TALC MINE
SHOWING D.D. HOLES LOCATIONS

SUR. BY L.B.S.

SCALE 1" = 40 ft

o Collar Elevation

x Bottom Elevation