PROJECT SUMMARY REPORT

By: J. W. Alt

January 23, 1959

1. Docket No. DMEA-4221 (Copper)
Contract No. Idm-E1027
Property: Peach and Elgin Mines
Pima County, Arizona

Operator: Lewisohn Copper Corporation
128 North Church Avenue
Tucson, Arizona

Operator's Property Rights: Owner of 3 unpatented claims.
Lessee of 6 patented claims.
Lease & Option - dated October 11, 1955.
Assignment of Lease - dated October 12, 1955
Consent to Lien & Subordination Agreement - dated August 1, 1956.

2. Contract dated October 23, 1956. To complete - April 1, 1957.

Work Authorized

The purpose of the project is to explore for ores of copper by churn drilling. The work is divided into two stages, with not more than twelve holes aggregating a length of 3,600 feet to be drilled in each stage. It is expected that each hole will reach an approximate depth of 300 feet.

Estimated Costs of Project

Stage I

Actual Costs

Category (1) Independent Contracts

Churn drilling, 3,600 feet @ $10.00/ft. (Includes all costs for reaming, casing, lost casing, moving, delays and all costs & charges pertaining to the drilling work.)	$36,000.00	$36,000.00

Fixed Unit Costs

Incidental allowances for each foot of drilling completed, 3,600 feet @ $2.03/ft.	7,308.00	
600 samples to be chemically assayed for total copper, @ $1.60/sample	960.00	
60 samples to be check assayed for total copper, @ $2.00/sample	120.00	8,388.00
Total Estimated cost of Stage I		$44,388.00

Stage II

Actual Costs

Category (1) Independent Contracts

Churn drilling, 3,600 feet @ $10.00/ft. (Includes all costs for reaming, casing, lost casing, moving, delays and all costs & Charges pertaining to the drilling work.)	36,000.00	$36,000.00

Fixed Unit Costs

Incidental allowances for each foot of drilling completed, 3,600 feet @ $2.03/ft.	7,308.00	
600 samples to be chemically assayed for total copper, @ $1.60/sample	960.00	
60 samples to be check assayed for total copper, @ $2.00/sample	120.00	8,388.00
Estimated cost of Stage II		$44,388.00
Estimated Cost of Project (Rounded to)		$88,780.00
Government's participation, 50%		$44,390.00

Amendments

No. 1 Agreed January 14, 1957.

Changes description of work to be done.

No. 2 Agreed June 12, 1957.

Extends completion time from April 1, 1957 to August 1, 1957.

Increases royalty payment period from 10 years to 11 years.

Work Completed

Stage I

Actual Costs - Independent Contract

Churn drilling, 3,460 feet @ approximate $9.46/ft.	$32,743.25	$32,743.25

Fixed Unit Costs

Incidental 3,460 feet, @ $2.03/ft.	7,023.80	
Assays - 600 samples, @ $1.60/sample	960.00	
Check assays - 39 samples @ $2.00/sample	78.00	8,061.80
Total Cost of Stage I		$40,805.05

Stage II

Actual Costs - Independent Contract

Churn drilling, 1,015 feet, @ $10.00/ft.	$10,150.00	$10,150.00

Fixed Unit Costs

Incidental, 1,015 feet, @ $10.00/ft.	2,060.45	
Assays - 193 samples, @ $1.60/sample	308.80	
Check assays - 15 samples @ $2.00/sample	30.00	2,399.25
Total Cost of Stage II		$12,549.25

Total Cost of the Project	$53,354.30
Government's participation, 50%	$26,677.15

Work on the project was started on November 2, 1956. By mutual agreement the contract was terminated, effective May 1, 1957.

3. Audit: Report of Review dated October 20, 1958.

Total cost as billed by Contractor	$53,578.60
Exceptions	224.30
Total Accepted Cost	$53,354.30
Government's participation, 50%	$26,677.15

Operator's final report - dated October 11, 1958
Field Team final report - dated August 1958.

4. Certification of Discovery or development: Dated October 3, 1958.

The discovery consists of mixed oxide and sulphide copper ores occurring as contact metamorphic deposits principally in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite. The estimated ore reserve resulting from the work of exploration under the contract consists of 5,000,000 tons with a grade of 0.78 percent copper. Drilling by the Operator resulted in additional reserves at 11,000,000 tonsof the same grade.

5. Comments:

Richard E. Chilson, President of the corporation, reportedly supervised all phases of the exploratory program from the start of operations in late 1955 to about May 15, 1956, when B. H. Martin was employed as manager of field operations. The field operations during this period, as indicated by DMEA examining team's findings, probably were conducted in an inefficient manner. Furthermore, as a result of improper drilling and sampling procedures much unacceptable assay data was obtained.

The filed operations had been reorganized and good drilling and sampling procedures had been put into effect by Mr. Martin within a short time after he assumed management of the project. Thereafter, both the efficiency of the operations and the sampling results appeared to be good.

The findings of the project were favorable. Diamond and churn drilling by the Operator, independently and with Government aid, found an estimated 16,100,000 tons of mixed oxide and sulphide material averaging about 0.78% copper. In addition, about 5,400,000 tons of material averaging less than 0.43% copper is included in and around the zones of higher grade material. The proportion of oxide to sulphide copper in the deposit is variable. Exploitation of the deposit that may be mined by open pitting is dependent upon the development of a suitable method of concentrating the mixed oxide-sulphide ore and relatively high copper prices.

The contract was terminated several months after cessation of drilling at the Operator's request when it became evident they would be unable to finance additional work.

The Field Team recommend that Government aid be considered in any future applications for aid on the Peach and Elgin Mine areas. The Elgin mine area, as yet unexplored, appears to contain a reserve potential at least as promising as that of the Peach mine area.

J. W. Alt

J. W. Alt

HWAlt/er
CC: Docket
Dir Read File
Mr. Johnson
Chron.

DMEA Form 17
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WORK COMPLETED ANALYSIS

After final audit or review report is received, prepare original only and file in official docket

Operator	LWEISOHN COPPER CORPORATION	Actual Cost	X
State	ARIZONA	Agreed Unit Cost	*X
Final Report of Audit		Commodity	COPPER
Final Report of Review	X	Docket No.	DMEA*4221
		Contract No.	Idm-E1027

Operation	Authorized by Contract and Amendments		Completed		Net cost after sale of Government Property
	Units	Cost	Units	Cost	
Drifting & Crosscutting					
Incidental Allowance per foot drilled Stage I *	3,600' @ $2.03/ft	$ 7,308.0	4,475'	$ 9,084.25	$ 9,084.25
Incidental Allowance per foot drilled Stage II *	3,600' @ $2.03/ft.	7,308.0			
Winzes					
Drilling (Specify) Churn--Stage I	3,600' @ $10/ft.	36,000.0	4,475'	42,893.25	42,893.25
Drilling (Specify) Stage II	3,600'	36,000.0			
600 samples assayed @ $1.60 each Stage I *		960.0	600	960.00	
600 samples assayed @ $1.60 each Stage II *		960.0	193	308.80	1,376.80
60 check assays @ $2.00 each Stage I *		120.0	39	78.00	
60 check samples @ $2.00 each Stage II *		120.0	15	30.00	
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		$88,780.00		$53,354.30 *	$53,354.30

* Net cost total must agree with final report of audit or review.

Prepared by W. P. Klugescheid Date 1/14/59.

31398

Stage I.

Actual costs

Cat. 1. Independant Contracts.

3,600' Churn Drilling @ $10.00/ft. 36,000.00

(all costs included)

Fixed Unit Costs.

Incidental allowance/foot drilled.

3,600' @ 2.03/ft 7,308.00

600 Samples assayed for Cu @ 1.60/each 960.00

60 samples to be check assayed @ 2.00/each. 120.00

$44,388.00

Stage II.

Actual costs.

3600' Churn Drilling @ 10.00/ft. 36,000.00

(All costs Included)

Fixed Unit costs

Incidental allowance/foot drilled 3600' @ 2.03 7,308.00

600 Samples assayed @ 1.60/each 960.00

60 Samples assayed @ 2.00/each. 120.00

$88,780.00 $44,388.00

~~Stage~~ I

Spent	1956 November ~~Dec.~~ 1957 ~~Jan Feb March April~~	
		32,743.25 ✓
		~~28,369.00~~
		~~14,840.35~~
Churn Drilling	~~2455'~~ ~~3010'~~ 3460' ~~1232~~ ($10.00 actual)	10,611.50
check Assays @ $2.00	~~14~~ 39	78.00 ✓
		~~28.00~~
		~~428.00~~ ~~991.40~~
Assays	~~437.580~~ 600 ~~238~~ @ $1.60	✗ 960.00 380.80 ✓
Incidental Allowance	~~3,010'~~ 3,460' @ $2.03/ft drilled ~~2255'~~ 1230'	~~4,577.65~~
		~~2,496.90~~ ✓
		~~6,110.30~~
		7,023.80 ✓

~~Stage~~ II

Churn Drilling	6015' ~~510'~~	10,150.00 ✓
		~~4,783.00~~
Incidentals	1015' ~~510'~~	2,060.45 ✓
		~~1,035.30~~
check Assays	15	30.00 ✓
Assays	~~101~~ 193	308.80 161.60 ✓
		13,497.20
		~~16,145.30~~
		~~35,435.30~~
		~~40,755.05~~
		~~46,784.95~~
		53,354.30 ✓

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
11/20/67		110
		220

NOV 2 0 1967

Lewisohn Copper Corp.
P. O. Box 2728
Tucson, Arizona 85702

Re: DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1027

Gentlemen:

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development dated October 3, 1958, all minerals mined or produced from October 23, 1956, to October 23, 1967, were subject to the Government's royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the periods indicated.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to: Banner Mining Company
P. O. Box 5405
Tucson, Arizona 85703

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
OME Region III
130

GLAult/a 11-20-67

23263

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration

November 16, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 20 1967

INITIALS	CODE

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm E-1027

This memorandum is in reply to your request of November 9, 1967 concerning possible production from the subject property from September 1966 to October 23, 1967.

A check with the U. S. Bureau of Mines shows that the Lewisohn Copper Corporation is involved in the King, Exile, Broadtop and Falls claims in Pima County, Arizona, but apparently have not produced from these claims.

The U. S. Bureau of Mines records show activity on a Peach claim in Pima County controlled by Banner Mining Company, but shows no production from this claim during the period from September 1966 to October 23, 1967. U. S. Bureau of Mines records also shows activity on an Elgin claim in Pima County, Colorado being controlled by McFarland and Hullinger. No production is recorded from this claim during the period from September 1966 to October 23. 1967.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
11/9/67		110
		220

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: DMEA-4221 (Copper)
Lewisohn Copper Corp.
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1027

The royalty repayment period for the subject contract expired on October 23, 1967.

Will you please check with the U. S. Bureau of Mines on possible production from this property from September 1966 to October 23, 1967, and advise.

FRANK E. JOHNSON

Frank E. Johnson

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
130 (2)

GLAult/a 11-9-67

23263

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

July 3, 1963

7/8		120
		800
		500
		500
7/4		500
		220

Memorandum

To: Hugh M. Connors, Acting Field Officer, OME, Region ~~III~~, Denver, Colorado

From: Acting Field Officer, OME, Region II

Subject: DMEA records requested by Atomic Energy Commission in connection with Plowshare

DMEA-4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corporation
(Peach Mine)
Pima County, Arizona

DMEA-4568 (Molybdenum)
Contract Idm-E1094
Molybdenum Corporation of America
(Moly or Questa Mine)
Taos County, New Mexico

Mr. Mike Lekas has completed checking these files and we are returning them to your office.

PAUL V. FILLO

Paul V. Fillo

Enclosures

cc:
Chief, Division of Field Operations, OME, Washington, D. C.

OFFICIAL FILE COPY
O. M. E
RECEIVED JUN 17 1963

DATE	INITIALS	CODE
6/17	[illegible]	500
		620
		500
6/17	[illegible]	110
		120
		220

Building 20 - Federal Center
Denver 25, Colorado

June 14, 1963

Memorandum

To: Paul Fillo, Acting Field Officer, OME, Region II
480 Custom House
555 Battery Street
San Francisco 11, California

From: Acting Field Officer, OME, Region III

Subject: DMFA records requested by Atomic Energy Commission in connection with Plowshare

DMFA-4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corporation
(Peach Mine)
Pima County, Arizona
and
DMFA-4568 (Molybdenum)
Contract Idm-E1094
Molybdenum Corporation of America
(Moly or Questa mine)
Taos County, New Mexico

Mr. Mike Lehns telephoned this office and requested information on the subject contracts be forwarded your office for his perusal.

Under separate cover I am forwarding you the following:

(1) The Report of Examination, Field Team Final Report, and Operator's Final Report on Contract Idm-E1027

(2) The Report of Examination, Field Team Final Report, and Operator's Final Report on Idm-E1094.

You should inform Mr. Lehns that the above mentioned information is for Government use only and must not be removed from your office. You should also inform him that no reproduction of this material can be made without the approval of Mr. George Punich, Jr., Director of OME.

Please return these files to this office as soon as Mr. Lehns needs have been satisfied.

Original signed by

Hugh M. Connors

cc Mr. Mike Lehns
U. S. Atomic Energy Commission
San Francisco Operations Office
2211 Bancroft Way
Berkeley, California

Chief, Division of Field Operations, OME (2)
Contract Idm-E1027
Contract Idm-E1094
Chron
HMC/lm

ORIGINAL FILE COPY
O. M. E.
RECEIVED NOV 8 1962

DATE		

Building 20 - Federal Center
Denver 25, Colorado

November 6, 1962

Memorandum

To: Fiscal Section, Division of Administrative Services
Office of the Secretary, Department of the Interior
Washington 25, D. C.

From: Acting Field Officer, OME, Region III

Subject: DMEA-2845 (Copper)
Contract Idm-E615
Richard E. Chilson
(King-in-Exile Mine)
Pima County, Arizona
and
~~DMEA-4221 (Copper)~~
Contract Idm-E1027
Lawrence Copper Corporation
(Peach and Elgin Mines)
Pima County, Arizona

Attached is the original Report of Royalty Review dated November 2, 1962 on Contract Idm-E615 covering the period September 28, 1955, through October 7, 1962 and on Contract Idm-E1027 covering the period June 18, 1959, through October 7, 1962.

Original signed by
TMR
for
Hugh M. Connors

Attachments

cc Chief, Division of Field Operations, OME
E. D. Talbert, Acting Chief
Contract Administration and Audit Division
Royalty Corres E615
Royalty Corres E1027
Chron

TMR/lm

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
		220

November 2, 1962

Memorandum

To: Acting Field Officer, Region III

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

Subject: DMEA-2843 (Copper)
Richard E. Chilson
King-in-Exile Mine
Pima County, Arizona
Contract Idm-E615
and
DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1027

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

(a) Original of each to the Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington 25, D. C.; and
(b) One copy of each for your files.

These Reports of Royalty Review are made for record purposes only; therefore, no copies for the Operators are provided.

As evidence of your concurrence, copies of your memorandums transmitting the original reports to the Fiscal Section should be furnished this Division. If for any reason you do not concur, all copies of the reports should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 11-2-62

cc: Docket - DMEA-4221
Director's Reading File
CA & A Division
Fiscal Section

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
	Griswold	500
10/30	Talbert	800
	Selfridge	120
		110
		100
		220

. B. Bowman
ral Manager
mer Mining Company
. O. Box 3405
Tucson, Arizona

Re: DMEA-4221 (Copper)
Lawisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1627
and
DMEA-2843 (Copper)
Richard E. Chilson
King-In-Exile Mine
Pima County, Arizona
Contract Idm-E615

Dear Mr. Bowman:

We have our copy of your October 12 letter to Mr. Hugh M. Connor, with enclosure, relating to the referenced contracts.

For your information we enclose a copy of our October 26 letter to Mr. Chilson, which is self-explanatory.

May we express our appreciation for the cooperative attitude which your company has always shown toward the DMEA and OME programs.

Sincerely yours,

George Fumich, Jr.

Director

Enclosure

WRGriswold/mm
10-30-62
cc: Director's reading
CA&A Division
Docket DMEA-4221
Docket DMEA-2843
Region III (3)

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 29 1962

DATE	INITIALS	CODE
10-29		100
10/29		110
		120
10/30		~~800~~
	Forwarded	500

October 24, 1962

Memorandum

To: George C. Selfridge, Chief
Division of Field Operations, OME
Washington 25, D. C.

From: T. M. Romslo, Mining Engineer

Subject: DMEA-4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corp.
(Peach and Elgin Mines)
Pima County, Arizona
ON-SITE INSPECTION OF CERTIFIED PROJECT

Mr. Richard R. Chilson, informed me over the telephone at Tucson, Arizona, October 6, 1962, that subject property was inactive from termination of the project about May 1, 1957 to May 1962 1961 when the Banner Mining Company acquired the property and started exploratory work. Regarding the contract between the Operator and the Banner Mining Company, he first said he believed a copy had been provided OME in answer to Mr. Griswold's letter, dated September 20, 1962. When told that it had not been received, he recalled not having sent it because a copy of the 50-page contract was not available. He agreed to obtain a copy of the pertinent part of the contract and forward it direct to Washington at an early date.

I visited the property October 7, 1962, and found that recent activity appeared to be confined to the Banner Mining Co.'s drilling operations. Mr. Allan Bowman, General Manager, Banner Mining Company, told me over the telephone in Tucson, October 8, 1962, that his company had acquired by a Contract of Sale and Purchase, dated April 1, 1961, numerous mining claims in the Helvitia and Rosemont districts. Also, that the claims acquired, included the properties of the subject contract and contract Idm-E1027. He was sure the Government's interest in production from the two properties was provided for in the contract, and agreed to mail to Mr. Connors a copy of the document concerned with the Government's interest. During a visit to the Banner Mining Co.'s office, October 12, 1962,

Mr. Bowman turned over to me a copy of the document and his covering letter to Mr. Connors, dated October 12, 1962. A copy of the letter and the document is attached. After my cursory inspection of the document, we mutually agreed that the quoted outstanding obligation under each contract furnished by the Lewisohn Copper Corp. should be checked by the OME. Mr. Bowman requested that the Banner Mining Co. be informed of the OME findings.

The OME, in its letter to the Banner Mining Co., should express its appreciation of Mr. Bowman's splendid cooperation in all matters pertaining to the OME and DMEA programs.

The document in question was obtained from Mr. Bowman, because I felt that our chances of obtaining it from Mr. Chilson are remote.

T. M. Romslo

T. M. Romslo

Attachments

BANNER MINING COMPANY

P O BOX 5605 TUCSON, ARIZONA PHONE AXminister 4-1488

A. B. BOWMAN
VICE-PRES. & GEN. MGR.

L. L. TRAVIS, PRESIDENT

October 12, 1962

Mr. Hugh M. Connor
Acting Field Officer O.M.E.
Denver Federal Center
Building 20
Denver, Colorado

Dear Mr. Connor:

Mr. Marty Romslo of your office contacted me by phone last week regarding certain contracts the Government has with Richard E. Chilson and Lewisohn Copper Corp. both covering projects in Pima County, Arizona.

Banner Mining Company has entered into contracts with Lewisohn Copper Corp. and others in the Helvetia district of Pima County, Arizona to acquire several large groups of patented and unpatented mining claims. These contracts are in effect long term leases with options to purchase.

Mr. Romslo's question to me was about as follows: If Banner Mining Company produces from the claims which were under the IDM contracts, was provision made between Banner and Lewisohn Copper etc to protect the government's interest?

Our contract with Lewisohn Copper Corp. was dated April 1, 1961. A supplement to the Escrow Agreement under the above contract was signed on May 1, 1961, which specifically makes mention of the IDM contracts and sets up a method of paying the Government royalty in the event of production from the claims involved.

I am enclosing a conformed copy of this supplement for your information.

Yours very truly,

BANNER MINING COMPANY

A. B. Bowman

A. B. Bowman
General Manager

ABB: d
Enclosure

Tucson, Arizona

Dated: May 1, 1961

SUPPLEMENT TO ESCROW AGREEMENT

To:

SOUTHERN ARIZONA BANK AND TRUST COMPANY
Head Office
Tucson, Arizona

Gentlemen:

This is a Supplement to the Escrow Agreement dated May 1, 1961, between Lewisohn Copper Corp. and Banner Mining Company, relating to a Contract of Sale and Purchase, dated as of April 1, 1961, between said parties, covering one hundred one (101) unpatented mining claims, one (1) patented mining claim, and twenty-four (24) unpatented mill sites, described therein as the Lewisohn Group. Other contracts of sale and purchase with other parties cover other groups of mining claims described as the Rosemont Group, Blankenship Group and Tip Top Group in Exhibit "A" to the above mentioned Contract of Sale and Purchase.

By Contract No. Idm-E 615, executed September 28, 1953, DMEA Docket No. 2843 (copper), Richard E. Chilson entered into a production contract with the United States Government incurring an obligation in the sum of $5,100.00, on which there is an outstanding balance [illegible]

[illegible] the outstanding obligation thereunder) is a lien against the production from certain patented mining claims in the Rosemont Group and certain unpatented mining claims in the Lewisohn Group.

Also, by Contract No. [illegible] [illegible]

Rosemont Group and certain unpatented mining claims in the Lewisohn Group. Lewisohn Copper Corp. states that there are no other production contracts with the United States Government entered into by it or assigned to it that are applicable to any of the mining claims in the Lewisohn Group, Rosemont Group, Blankenship Group or Tip Top Group.

Lewisohn Copper Corp. hereby agrees that as amounts become due under the above mentioned Contracts Nos. Idm-E 615 and Idm-K 1027, Banner Mining Company may (but does not obligate itself to) pay said amounts in behalf of Lewisohn Copper Corp. and will be allowed credit for said payments upon the next payments falling due under the above mentioned Contract of Sale and Purchase relating to the Lewisohn Group. Upon Banner Mining Company furnishing Southern Arizona Bank and Trust Company with satisfactory evidence of such payments, Southern Arizona Bank and Trust Company is hereby authorized to allow such credits.

In the absence of Lewisohn Copper Corp. and the United States Government agreeing on the amounts to be paid under the above mentioned contracts with the United States Government, Banner Mining Company is entitled to exercise its own judgment in determining amounts that may be due, and it shall be allowed credit by Southern Arizona Bank and Trust Company upon paying said amounts that are determined to be due under Contracts Nos. Idm-E 615 and Ldm-K 1027, although it is later determined that said amounts were [illegible] not due or were not owed the United States Government [illegible]

[illegible] the considerations which induced Banner M[illegible] [illegible] into the above Contract of Sale and Purchase with Lewisohn Copper Corp. relating to the Lewisohn Group is the simultaneous execution by Lewisohn Copper Corp. of this Supplement to Escrow Agreement, and it is understood that this Supplement to Escrow Agreement cannot be terminated by Lewisohn Copper Corp. unless Banner Mining Company terminates

the above mentioned Contract of Sale and Purchase.

This Supplement to Escrow Agreement shall be binding on the assignees and successors in interest of the partied hereto.

LEWISOHN COPPER CORP.

/s/ By Richard E. Chilson
President

ATTEST:

/s/ Boyd M. Morse
Secretary

BANNER MINING COMPANY

/s/ By A. B. Bowman
Vice President

ATTEST:

/s/ F. C. Prince
Assistant Secretary

Accepted for entry [illegible] records of SOUTHERN ARIZONA BANK AND TRUST COMPANY [illegible], Arizona, this 1st day of May, 1961.

/s/ Wm. Hughes
Escrow Agent

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
10/25	Griswold	500
10/25	Taylor	800
	Selfridge	120
10/26	Johnson	110
	Fernald	100
		220

OCT 2 6 1962

Mr. Richard E. Chilson
President
Lewisohn Copper Corp.
P. O. Box 2728
Tucson, Arizona

Re: DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1027
and
DMEA-2843 (Copper)
Richard E. Chilson
King-In-Exile Mine
Pima County, Arizona
Contract Idm-E615

Dear Mr. Chilson:

Thanks very much for your October 15 letter with the enclosed copy of agreement. The amounts cited in the agreement coincide with our records; of course, you understand that the Idm-E615 contract royalty payments are subject to audit.

Permit us to wish that the drilling presently being done will result most favorably both for your concern and for the Banner Company.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

WRGriswold/mm/gla
10-25-62
cc to: Director's Reading File
Region III (2) w/2 cys incoming letter 10/15/62 w/o cy agreement
CA&A Division
Docket DMEA-2843
Docket DMEA-4221
Code 500

43683

The amounts cited in agreement coincide with our records, but the E 615 royalty payments are "subject to audit". Chilton never submitted an accounting, despite numerous requests.

Talbert
10/22/02

LEWISOHN COPPER CORP.

P. O. BOX 2728
TUCSON, ARIZONA

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 22 1962

October 15, 1962

Griswold 500

Mr. W. R. Griswold, Chief
Division of Minerals
Office of Minerals Exploration
Washington 25, D. C.

Re: DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach & Elgin Mines
Pima County, Arizona
Contract Idm-E1027
ALSO: DMEA-2843 (Copper)
Contract Idm-E615

Dear Mr. Griswold:

In response to your letter of September 20, 1962, I enclose the accompanying copy of the agreement between Banner Mining Company and Lewisohn Copper Corp. providing for the payment of the DMEA obligations of the above captioned contracts from proceeds of the payments by Banner to Lewisohn in the purchase and sale of the subject properties.

Should you find any error in the outstanding balances due on either of these contracts as stated in the enclosed agreement I would very much appreciate being so advised.

Banner has been diligently engaged in an exploratory drilling program on the properties for the past year. No ore production has been made since 1959.

Very truly yours

Richard E. Chilson

Richard E. Chilson
PRESIDENT

Tucson, Arizona

Dated: May 1, 1961

SUPPLEMENT TO ESCROW AGREEMENT

To:

SOUTHERN ARIZONA BANK AND TRUST COMPANY
Head Office
Tucson, Arizona

Gentlemen:

This is a Supplement to the Escrow Agreement dated ~~April~~ May 1, 1961, between Lewisohn Copper Corp. and Ranger Mining Company, relating to a Contract of Sale and Purchase, dated as of April 1, 1961, between said parties, covering one hundred one (101) unpatented mining claims, one (1) patented mining claim, and twenty-four (24) unpatented mill sites, described therein as the Lewisohn Group. Other contracts of sale and purchase with other parties cover other groups of mining claims described as the Rosemont Group, Blackcomb Group and Tip Top Group in Exhibit "A" to the above mentioned Contract of Sale and Purchase.

By Contract No. Idw-K 615, executed September 28, 1953, DMEA Docket No. 2843 (copper), Richard E. Chilson entered into a production contract with the United States Government incurring an obligation in the sum of $5,100.00, on which there is an outstanding balance of $2,022.39. The rights of Richard E. Chilson have been assigned to Lewisohn Copper Corp., and this Contract (and the outstanding obligation thereunder) is a lien against the production from certain patented mining claims in the Rosemont Group and certain unpatented mining claims in the Lewisohn Group.

Also, by Contract No. Idw-K 1027, executed October 23, 1956 and terminated June 16, 1958, DMEA Docket No. 4221 (copper), Lewisohn Copper Corp. entered into a production contract with the United States Government incurring an outstanding obligation in

the sum of $26,677.15, which is a lien against production from certain patented mining claims in the Rosemont Group and certain unpatented mining claims in the Louisiana Group. Louisiana Copper Corp. states that there are no other production contracts with the United States Government entered into by it or assigned to it that are applicable to any of the mining claims in the Louisiana Group, Rosemont Group, Blackhawkhip Group or Tip Top Group.

Louisiana Copper Corp. hereby agrees that as amounts become due under the above mentioned Contracts Nos. Ida-K 615 and Ida-K 1627, Banner Mining Company may (but does not obligate itself to) pay said amounts in behalf of Louisiana Copper Corp. and will be allowed credit for said payments upon the next payments falling due under the above mentioned Contract of Sale and Purchase relating to the Louisiana Group. Upon Banner Mining Company furnishing Southern Arizona Bank and Trust Company with satisfactory evidence of such payments, Southern Arizona Bank and Trust Company is hereby authorized to allow such credits.

In the absence of Louisiana Copper Corp. and the United States Government agreeing on the amounts to be paid under the above mentioned contracts with the United States Government, Banner Mining Company is entitled to exercise its own judgment in determining amounts that may be due, and it shall be allowed credit by Southern Arizona Bank and Trust Company upon paying said amounts that are determined to be due under Contracts Nos. Ida-K 615 and Ida-K 1627, although it is later determined that said amounts were, in fact, not due or were not owed the United States Government, or lesser amounts were due.

One of the considerations which induces Banner Mining Company to enter into the above Contract of Sale and Purchase with Louisiana Copper Corp. relating to the Louisiana Group is the simultaneous execution by Louisiana Copper Corp. of this Supplement to Escrow Agreement, and it is understood that this Supplement to

Escrow Agreement cannot be terminated by Lewisohn Copper Corp. unless Banner Mining Company terminates the above mentioned Contract of Sale and Purchase.

This Supplement to Escrow Agreement shall be binding on the assignees and successors in interest of the parties hereto.

LEWISOHN COPPER CORP.

By_____
President

ATTEST:

_____
Secretary

BANNER MINING COMPANY

By_____
Vice President

ATTEST:

_____
Assistant Secretary

Accepted for entry in the records of SOUTHERN ARIZONA BANK AND TRUST COMPANY, Tucson, Arizona, this _____ day of _____, 1961.

_____
Escrow Agent

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
9/20		500
9/20	Talbot	800
"	M leave	120
"	Johnson	110
9/20	on leave	100
		220

SEP 2 0 1962

Mr. Richard E. Chilson
President
Lewisohn Copper Company
P. O. Box 2728
Tucson, Arizona

Re: IMRA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1027

Dear Mr. Chilson:

Thank you for your August 27 notation that the subject property is under contract to the Banner Mining Company. Will you kindly provide us with a copy of the contract in question.

We are sure you realize that, under Article 8(b) of the contract, your company remains as surety for royalty to the Government on any production which might be made.

Sincerely yours,

W. R. Griswold (gla)

W. R. Griswold, Chief
Division of Minerals

WRGriswold/gla
9-20-62
cc to: Director's Reading File
Region III (2)
Docket
Code 500

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E
RECEIVED SEP 19 19

9/19 800 8 00
9/20 Received 500

September 17, 1962

Memorandum

To: W. R. Griswold, Acting Chief
Division of Field Operations, OME
Washington 25, D. C.

From: Acting Field Officer, OME, Region III

Subject: DMEA-4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corporation
(Peach and Elgin Mines)
Pima County, Arizona

In reply to your memorandum of September 11, 1962 on the subject docket, this is to advise that our records do not show a property transfer to the Banner Mining Company.

Mr. Richard E. Chilson, President of the Lewisohn Copper Corporation, has not been cooperative.

On Mr. Romslo's next trip to cover OME Contract 2145, OME Contract 2153, and Docket No. 6251, which will probably be early in October, he will make an inspection of this property.

Hugh M. Connors

Hugh M. Connors

cc T. M. Romslo

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
9/11		500
9/11	Talbot	800
"	on leave	130
"	Johnson	110
9/11	on leave	100
		220

SEP 1 1 1962

Memorandum

To: Acting Field Officer, Region III

From: Acting Chief, Division of Field Operations

Subject: DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract Idm-E1027

Attached is a copy of MMX Form 63 received from the referenced Operator. Please note the notation "Subject property under contract to Banner Mining Company. Details have been provided."

We have nothing in our files here covering the property transfer to the Banner Mining Company. Please advise us if your records show anything on this.

R. Griswold (gla)

Enclosure

WRGriswold/gla
9-11-62
cc to: Director's Reading File
Review Committee
Docket
Code 500

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

July 29, 1959

Memorandum

TO: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper) Contract No. Idm-E1027
Lewisohn Copper Corporation (Peach and Elgin mines)
Pima County, Arizona

Reference is made to your letter of October 6, 1958 on the subject docket. We requested the mailing addresses from Mr. Chilson on October 13, 1958, and June 23, 1959, and have received no reply.

Since we are unable to obtain the mailing addresses you requested, we are attaching five date-stamped original letters, with one set of distribution correspondence to the following:

Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

J. W. Townsend

Attachment

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE
8-5	gad	220
"	Reinwald	500
		225

Building 20 - Federal Center
Denver 25, Colorado

July 29, 1959

Memorandum

TO: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper) Contract No. Idm-31027
Lewisohn Copper Corporation (Punch and Elgin mines)
Pima County, Arizona

Reference is made to your letter of October 6, 1958 on the subject docket. We requested the mailing addresses from Mr. Chilson on October 13, 1958, and June 23, 1959, and have received no reply.

Since we are unable to obtain the mailing addresses you requested, we are attaching five date-stamped original letters, with one set of distribution correspondence to the following:

Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Hayman

Original signed by
J. W. TOWNSEND
J. W. Townsend

Attachment

HMC:ltm

cc: Roy. corres. file
Chron.

EXTRA COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

MAIL ROOM:

Attached letters to be mailed to FT
for addresses and mailing.

& distribution to field
and others

Reg. III

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. Frederick Lewisohn

OCT 6 1958

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Lewisohn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C P Mitchendorf

ACTING Director

Enclosures

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-K1027

Dear Mr. Chilson:

Transmitted is a certification of discovery or development related to the Exploration Project Contract No. Idm-K1027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OME Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration, which is the successor to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

Sincerely yours,

C. O. Mittendorf

Enclosure

ACTING Director

Frederick Lewisohn

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

To: Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Pursuant to the provisions of Exploration Project Contract No. Idm-E1027, dated October 23, 1956, Docket No. DMEA-4221, hereinafter called the "contract", between Lewisohn Copper Corporation, a Delaware corporation, and the United States of America, hereinafter called the "Government", to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Churn drilling has proved the existence of low-grade oxide-sulphide copper ore occurring as contact metamorphic deposits predominantly in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite.

Date: OCT 3 1958

THE UNITED STATES OF AMERICA

By C O Mitteudorf
ACTING Director, Office of
Minerals Exploration

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

OFFICIAL FILE COPY O. M. E. RECEIVED AUG 5 1959		
DATE	INITIALS	CODE

OCT 6 1958

Mr. Eustace Seligman

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Seligman:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

O Mitteudorf

ACTING Director

Enclosures

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Chilson:

Transmitted is a certification of discovery or development related to the Exploration Project Contract No. Idm-E1027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OME Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration, which is the successor to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosure

Eustace Seligman

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

To: Richard E. Chilson, President
Levisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Pursuant to the provisions of Exploration Project Contract No. Ida-X1027, dated October 23, 1956, Docket No. [illegible]-A221, hereinafter called the "contract", between Levisohn Copper Corporation, a Delaware corporation, and the United States of America, hereinafter called the "Government", to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Churn drilling has proved the existence of low-grade oxide-sulphide copper ore occurring as contact metamorphic deposits predominantly in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite.

Date: OCT 3 1958

THE UNITED STATES OF AMERICA

By [signature]
ACTING DIRECTOR, Office of Minerals Exploration

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

OCT 6 1959

Mr. Alfred Adolph Rossin

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Rossin:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

O Mitteudorf

ACTING Director

Enclosures

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

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Chilson:

Transmitted is a certification of discovery or development related to the Exploration Project Contract No. Idm-E1027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OME Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration, which is the successor to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosure

Alfred Adolph Rossin

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

To: Richard E. Chilson, President
Louisiana Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Pursuant to the provisions of Exploration Project Contract No. IdM-E1007, dated October 23, 1956, Docket No. [illegible], hereinafter called the "contract", between Louisiana Copper Corporation, a Delaware corporation, and the United States of America, hereinafter called the "Government", to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Churn drilling has proved the existence of low-grade oxide-sulphide copper ore occurring as contact metamorphic deposits predominantly in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite.

Date: OCT 3 1958

THE UNITED STATES OF AMERICA

By [signature]
ACTING Director, Office of Minerals Exploration

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. John G. Greenburgh

OCT 6 1958

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Greenburgh:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosures

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

EXTRA COPY O. M. E. RECEIVED AUG 5 1959		
DATE	INITIALS	CODE

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
1076 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-21027

Dear Mr. Chilson:

Transmitted is a certification of discovery or development related to the Exploration Project Contract No. Idm-21027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OME Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration, which is the successor to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

Sincerely yours,

C. O. Mittendorf

Enclosure

ACTING Director

John G. Greenburgh

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

To: Richard E. Chilson, President
Lewisohn Copper Corporation
1670 North Wanson Avenue
Tucson, Arizona

Pursuant to the provisions of Exploration Project Contract No. Ldm-41047, dated October 23, 1956, Docket No. DMSA-4221, hereinafter called the "contract", between Lewisohn Copper Corporation, a Delaware corporation, and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Churn drilling has proved the existence of low-grade oxide-sulphide copper ore occurring as contact metamorphic deposits predominantly in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite.

Date: OCT 3 1958

THE UNITED STATES OF AMERICA

By C. Mittenbery
ACTING Director, Office of Mineral Exploration

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. David M. Heyman

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Heyman:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

O. Mitteneors

ACTING Director

Enclosures

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

EXTRA COPY O. M. E. RECEIVED AUG 5 1959		
DATE	INITIALS	CODE

Mr. Richard R. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Chilson:

Transmitted is a certification of discovery or development related to the Exploration Project Contract No. Idm-E1027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OME Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration, which is the successor to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosure

David M. Heyman

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

To: Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Pursuant to the provisions of Exploration Project Contract No. Ida-K1027, dated October 23, 1956, Docket No. DMEA-4221, hereinafter called the "contract", between Lewisohn Copper Corporation, a Delaware corporation, and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Churn drilling has proved the existence of low-grade oxide-sulphide copper ore occurring as contact metamorphic deposits predominantly in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite.

Date: OCT 3 1958

THE UNITED STATES OF AMERICA

By C. M. Mitchell
ACTING Director, Office of
Minerals Exploration

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

EXTRA COPY
O. M. E.
RECEIVED AUG 5 1959
DATE | INITIALS | CODE
OME
DEPARTMENT OF THE INTERIOR
OCT 8 - 1958
REGION III
DENVER, COLORADO

Mr. Frederick Lewisohn

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Lewisohn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosures

WRGriswold/ism/gla 9-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III (2)

Identical letters to:
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

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

OME
DEPARTMENT OF THE INTERIOR

OCT 8 - 1958

EXTRA COPY
DENVER OFFICE
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. Frederick Lewisohn

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Lewisohn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosures

WRGriswold/ism/gla 9-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III

Identical letters to:
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
(2)David M. Heyman

EXTRA COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

Mr. Frederick Lewisohn

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-K1627

Dear Mr. Lewisohn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittenderf

ACTING Director

Enclosures

WRGriswold/ixm/gla 9-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III (2)

Identical letters to:
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

EXTRA COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

OCT 6

Mr. Frederick Lewischn

Re: Docket No. DMEA-[illegible] (Copper)
Lewischn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. [illegible]

Dear Mr. Lewischn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittenduri

ACTING Director

Enclosures

WRGriswold/lsm/gls 8-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III (2)

Identical letters to:
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

EXTRA COPY O. M. E. RECEIVED AUG 5 1959		
DATE	INITIALS	CODE

Mr. Frederick Lessinsky

Re: Docket No. [illegible] (Copper)
Lessinsky Copper Corporation
Ruth and Elgin Mines
Pima County, Arizona
Contract No. [illegible]

Dear Mr. Lessinsky:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to permit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

OME Reviewed by
DMEA OPERATING COMMITTEE
10-3-58
(date)

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosures

WRGriswold/ism/gla 9-23-58
Set: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III (2)

Identical letters to:
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David R. Reynen

EXTRA COPY
O. M. E.
RECEIVED AUG 5 1959

DATE	INITIALS	CODE

OCT 5 1959

Mr. Frederick Lewisohn

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-51087

Dear Mr. Lewisohn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transfers or leases of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. C. Mittendorf

ACTING Director

Enclosures

WRGriswold/ism/gla 9-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III (2)

Identical letters to:
Eustace Seligman
Alfred Adolph Roesin
John G. Greenburgh
David M. Neyman

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 25 1959

DATE	INITIALS	
6/25	a	220
6/25	6/27	800
		~~Free~~
		225

224 New Customhouse
Denver 2, Colorado

June 23, 1959

CERTIFIED MAIL

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
P. O. Box 2728
Tucson, Arizona

Re: Docket DMRA 4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corporation
(Peach and Elgin mines)
Pima County, Arizona

Dear Mr. Chilson:

Will you please advise this office the mailing addresses of the following individuals:

Frederick Lewisohn
Eustace Seligman
Alfred Adolph Roesin
John G. Greenburgh
David M. Heyman

We wish to forward correspondence to them relating to the captioned project, and I am sure you will want to co-operate with us by supplying the needed addresses.

Our original request to you for this information, dated October 13, 1958, was directed to 1070 North Warren Avenue, Tucson, Arizona, and may not have been delivered to you.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Executive Officer
OME Field Team, Region III

HMC:jy

cc: Chm. Op. Comm. (2)
Roy. Corres. E1027
Contract file
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR

~~DEFENSE MINERALS EXPLORATION ADMINISTRATION~~
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado
November 3, 1958

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 5 1958

DATE	INITIALS	CODE
11/5	C	220
"	JEJ	110
11/7	~~WPB~~	500

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper) Contract Idm-E1027, Lewisohn Copper Corporation, (Peach and Elgin properties) Pima County, Arizona - FINAL PAYMENT

Enclosed are two copies of a memorandum to T. A. Christensen, dated October 28, 1958, relative to final payment under the terms of the subject contract.

J. W. Townsend

Enclosures

224 New Customhouse
Denver 2, Colorado
October 28, 1958

Memorandum

To: T. A. Christensen

From: Acting Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper) Contract Idm-81027, Lewisohn Copper Corporation, (Pemah and Elgin properties) Pima County, Arizona - FINAL PAYMENT

Reference is made to our memorandum of June 24, 1957, whereby we forwarded the final Form MF-104, Operator's Monthly Report and Voucher, for April 1957, and requested that you withhold the amount of $750.00 from reimbursement to the Operator pending resolution of matters prerequisite to closing the account.

The Operator's final report has been received, therefore final payment to the Operator is to be made on the following basis, which is in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, OME, dated October 20, 1958.

Basis for Final Payment

Total accepted cost	$53,354.30
Government participation at 50 percent	26,677.15
Total prior payments	25,927.16
Balance due the Operator	$ 749.99

Original signed by
E. N. HARSHMAN
E. N. Harshman

JDC:hmh

cc: Chem. Op. Comm. (2)
Harshman
Emerick
Romslo, OME/Tuc.
MF-104 file, Reg.III
Corres.file, Reg. III
Cooper
Chron

$749.99

10/31/58 DMEA 59-57

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/24	alley	800
10/24	Valliant	800
10/27	C	220
10/27	[illegible]	500

OCT 24 1958

Mr. Donald T. Finch
OME Auditor
224 New Customhouse
Denver 2, Colorado

Re: Lewisohn Copper Corporation
Contract No. Idm-E1027
Docket No. DMEA-4221

Dear Mr. Finch:

Your report of review on the above-cited project is acceptable and normal distribution is authorized.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers
Contract Administration
and Audit Division

AMAlley/ama
October 24, 1958

Copy to: Docket
Director's Reading File
Mr. Chambers

8623

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 20 1958

10/20
10/21

220
500

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado
October 17, 1958

Memorandum

To: Donald T. Finch, OME Auditor, Region III - w/enclosure

From: Acting Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4091 (Copper), Contract No. [illegible]-M1027, Louisiana Copper Corporation (Peach and Elgin properties), Pima County, Arizona

The subject contract was terminated, effective May 1, 1957, by a TERMINATION AGREEMENT dated June 16, 1958. A copy of the Termination Agreement is enclosed for your records.

The Operator has rendered its final report as required by the contract. Therefore, final payment of the Operator's account is in order contingent on release to this office of a Certificate and Report of Audit or Report of Review of reported project costs, whichever the case indicates.

Acceptable units of work or service completed on a "Fixed Unit Cost" basis consist of incidental allowance for 4,475 feet of churn drilling and analysis of 847 samples for copper content.

The sum of $750 was withheld from reimbursement to the Operator in processing the final accounting report and voucher for the month of April, 1957.

Original signed by
E. N. HARSHMAN

E. N. Harshman

JDC:prl

cc: Chem. Op. Comm. (2)
Harshman
Cooper
Carres. File
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~DEFENSE MINERALS EXPLORATION ADMINISTRATION~~
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado
October 17, 1958

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 20 1958

DATE	INITIALS	CODE
10/20		
10/20		220
10/20		800
		~~500~~

Memorandum

To: Chairman, Operating Committee, OME

From: OME Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin Properties), Pima County, Arizona - FINAL REPORT

Enclosed are the original and one copy of a final report submitted by the Lewisohn Copper Corporation pertaining to the work completed under the subject contract. The Operator's final report has been reviewed by this office and appears to satisfy the requirements under Article 7 (c) of the contract form. Therefore, it is recommended that the Operator's final report be accepted as complying with the contract provisions.

The Joint Final Engineering and Geologic Report by the OME field examiners was forwarded to your office by our memorandum of August 20, 1958.

The contract was terminated before completion of all work provided for, by a TERMINATION AGREEMENT dated June 16, 1958, which was made effective May 1, 1957.

The exploration work completed consisted of the drilling of twelve (12) holes aggregating 4,475 feet of churn drilling. Additional work or service incident to the drilling consisted of incidental allowance for 4,475 feet of drilling and analysis of 847 samples for copper content; all at a tentative accepted total cost of $53,354.30, which is subject to audit.

The exploration work completed under the contract resulted in the discovery or development of a significant quantity of copper ore, on which a Certification of Discovery or Development was issued October 3, 1958.

E. N. Harshman
E. N. Harshman
Acting Executive Officer

LEWISOHN COPPER CORP.

P. O. BOX 2728
TUCSON, ARIZONA

October 11, 1958

OME
DEPARTMENT OF THE INTERIOR
OCT 16 1958
REGION III
DENVER, COLORADO

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-E1027
Lewisohn Copper Corporation
(Peach and Elgin properties)
Pima County, Arizona

Dear Mr. Harshman:

Herewith final report on DMEA project above cited. Contract No. Idm-E1027 was effectively dated October 23, 1956 and was terminated June 16, 1958. The estimated cost of the total project was $88,780 and the Government's share of this cost at 50% was $44,390.

The work approved in the contract consisted of drilling 7,200 feet of churn drill hole together with sampling and assaying at five foot intervals.

Work actually completed under the project consisted of churn drilling 4,475 feet of test hole with 861 samples assayed with 54 check assays. The total cost of the work done on an agreed unit cost basis was $53,578.60. $108.80 was dis-allowed as exceeding the authorization under Stage I of the project, for assays. 50% of the balance, or $26,734.90, was the Government's share of the cost of the work done.

In the course of the work, twelve drill holes were drilled averaging 373 feet in depth. All of the holes contained copper mineralization which averaged from 0.63% to 0.80%. The average vertical ore intercept was 132 feet and the weighted average copper assay of the total ore intercept of 1585 feet was 0.74%. Waste to ore ratio above the bottom of the ore zone was calculated at 1 : 1.11.

Based on a sixty degree drilling pattern 150 feet on centers, the resulting area of influence accorded each hole in this drilling was 19,482 square feet, and assuming ten cubic feet

per ton, there were indicated 1,948 tons per vertical foot. On this basis there were indicated in these holes, 2,929,080 tons of ore containing 0.74% copper, 0.30 Oz. silver per ton. The assumptions of continuity between holes and areal consistency were supported by 34 other holes drilled in this ore body on the same pattern immediately prior to the DMEA project.

Included with this report are five maps of the Peach-Elgin exploration project showing claims and topographic contours, geology, structural contours, surface capping or alteration, and ore.

Drill holes are designated by numbers on the base map, in the order drilled, and should be correlated with DMEA hole numbers as follows:

Hole No.	DMEA No.	Hole No.	DMEA No.	Hole No.	DMEA No.
38	1	42	5	47	9
39	2	43	6	48	10
40	3	44	7	49	11
41	4	45	8	50	12

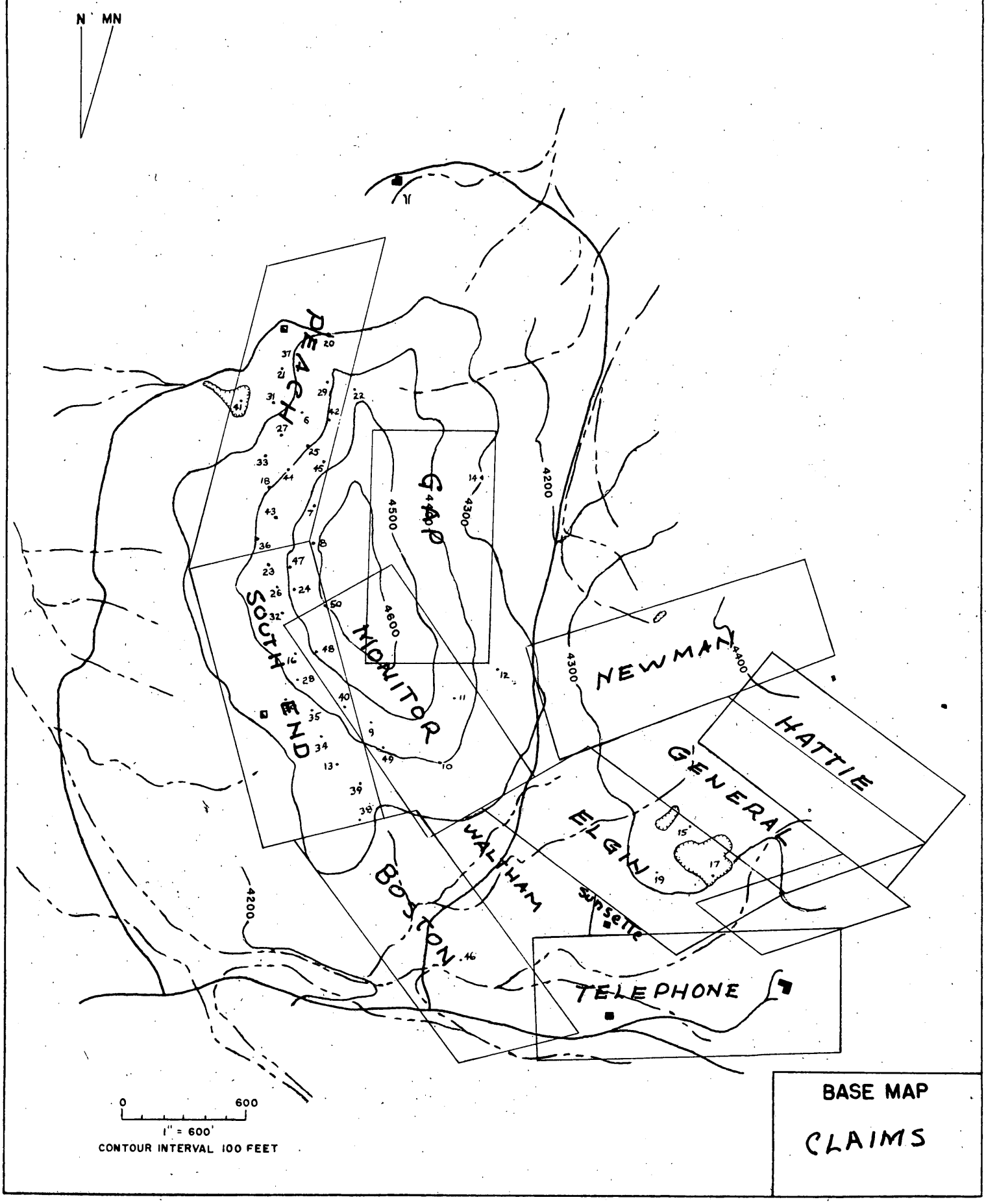
While the area under examination has been insufficiently explored to establish the certainty of a commercial ore deposit, the work done under and in conjunction with this DMEA project has established the probability of a calculated 19,938,758 tons of ore containing 0.798% copper. Mineralization apparently extending into unexplored areas to the east and north offer possibilities of extending this tonnage.

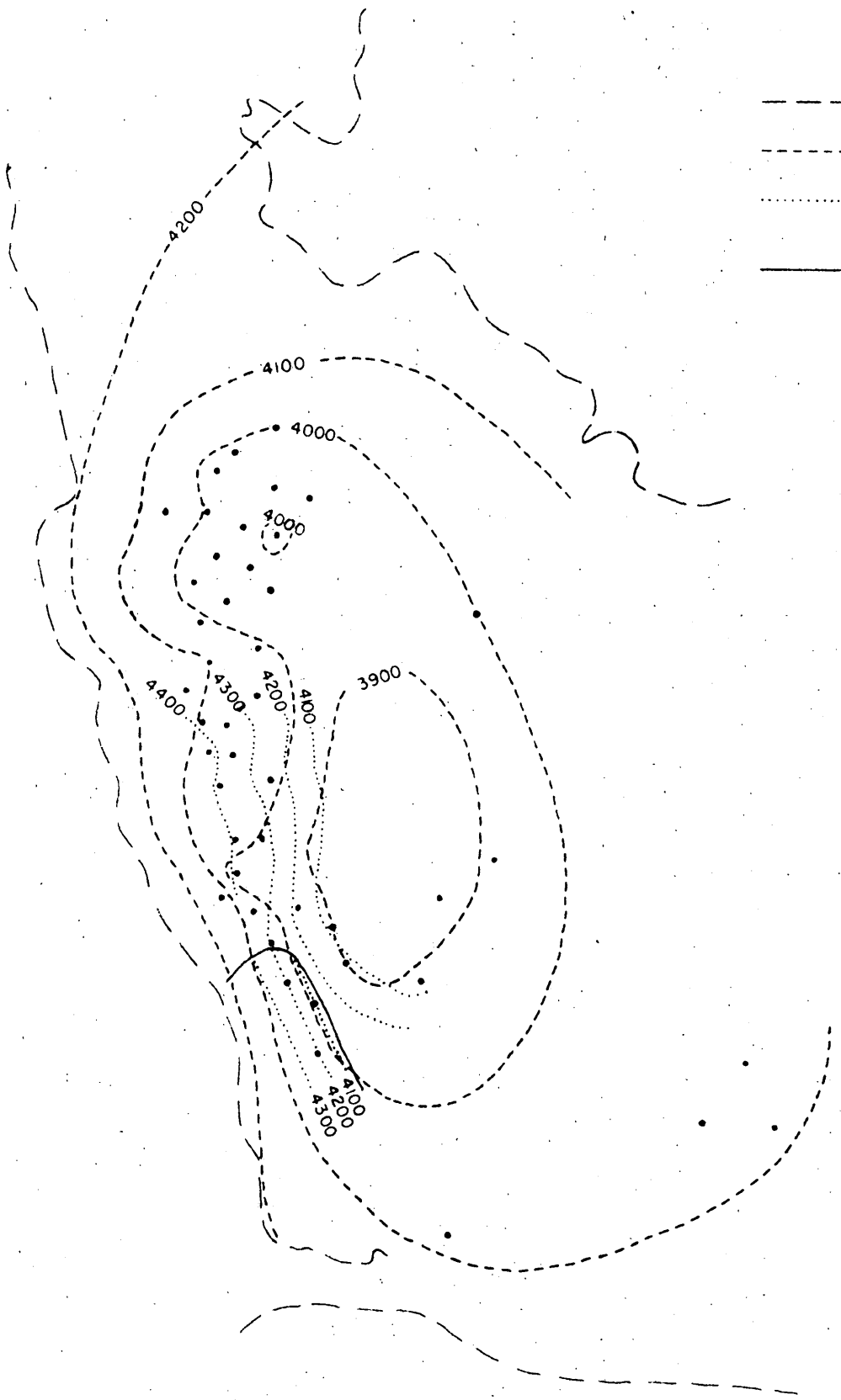
Very truly yours,

Richard E. Chilson

Richard E. Chilson
MENTSCHN COPPER CORP.

OVERLAY MAPS OF THE PEACH-ELGIN AREA





EXPLANATION

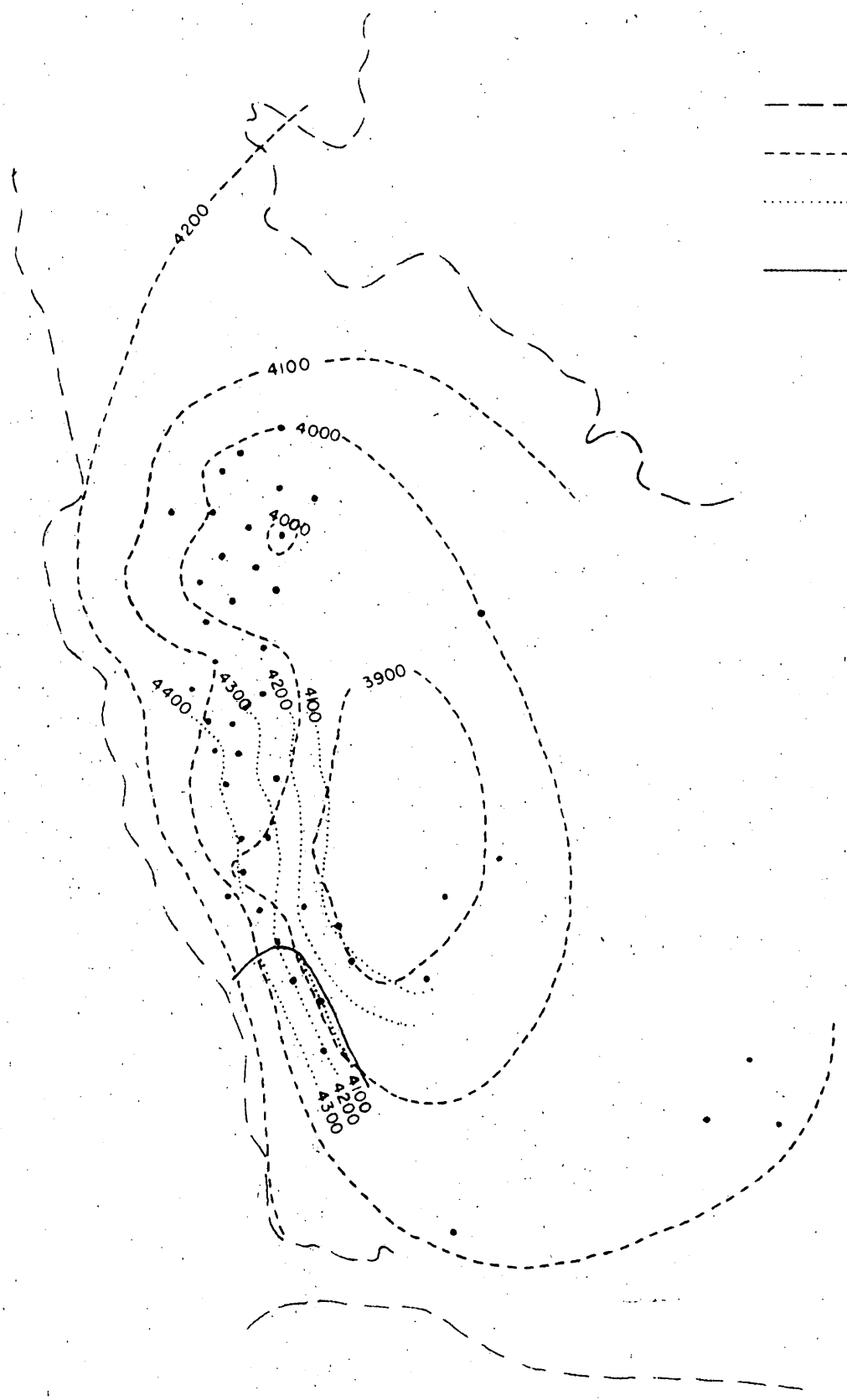
- CUTLINE OF GRANITE OUTCROP
- STRUCTURE CONTOURS ON TOP OF GRANITE
- STRUCTURE CONTOURS ON TOP OF PART OF DIOPSIDE ORE BED
- FAULT

STRUCTURE MAP

EXPLANATION

- ALLUVIUM
- UNALTERED LIMESTONE
- MARBLIZED AND/OR BLEACHED LIMESTONE
- SILICATED LIMESTONE: PARTIAL OR COMPLETE SILICATION
- LIMY SILTSTONE: SILICIFIED LIMESTONE
- QUARTZITE, DARK AND LIGHT COLORED
- QUARTZ MONZONITE PORPHYRY
- ANDESITE PORPHYRY
- GRANITE
- CONTACT
- ALTERATION CONTACT
- HIGH ANGLE FAULT
- THRUST FAULT

GEOLOGIC MAP



EXPLANATION

- — — — — OUTLINE OF GRANITE OUTCROP
- - - - - - - STRUCTURE CONTOURS ON TOP OF GRANITE
- ..... STRUCTURE CONTOURS ON TOP OF PART OF DIOPSIDE ORE BED
- ——— FAULT

STRUCTURE MAP

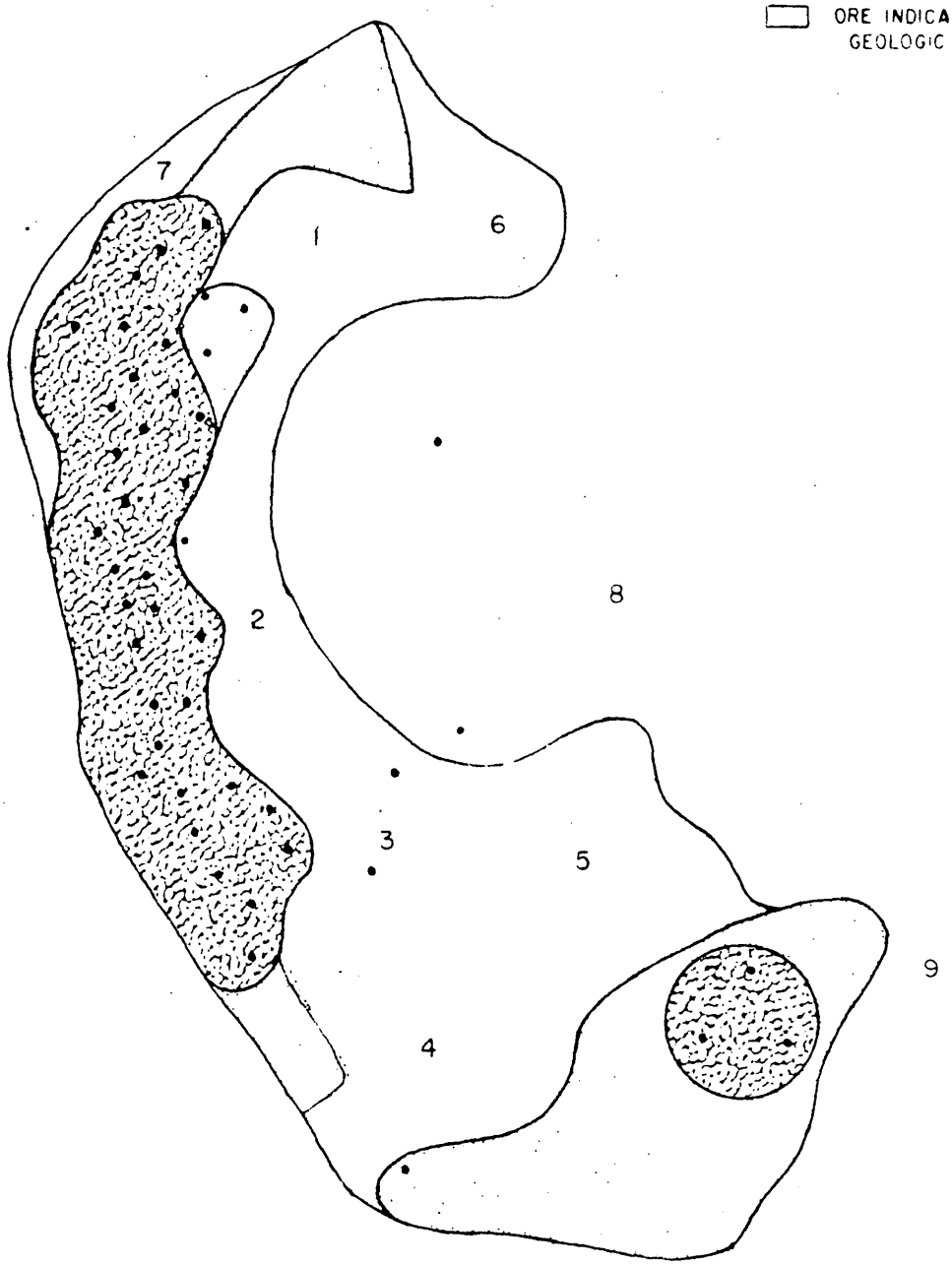
EXPLANATION

ORE PROVED OR STRONGLY INDICATED BY DRILLING

STRONG COPPER MINERALIZATION IN MARBLE CAPPING ONLY

ORE INDICATED BY FAVORABLE CAPPING

ORE INDICATED BY OTHER GEOLOGIC FEATURES



ORE MAP

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 13 1958

DATE	INITIALS	
10/16	C	220
10/17	EEG	800
10/17	[illegible]	500

224 New Customhouse
Denver 2, Colorado
October 13, 1958

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. IMEA 4224 (Copper)
Contract I4m-E1027
Lewisohn Copper Corporation
(Peach and Elgin Mines)
Pima County, Arizona

Dear Mr. Chilson:

Will you please advise this office the mailing addresses of the following individuals:

Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Hagman

We wish to forward correspondence to them relating to the captioned project, and I am sure you will want to cooperate with us by supplying the needed addresses.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
OME Field Team, Region III

EMC:hmh

cc: Chmn. Op. Comm. (2)
Royalty file, E1027
Contract file, E1027
Harshman
Cooper
Chron

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/23/58	[illegible]	500
	Burton	140
	[illegible]	140
9/26	[illegible]	800
10/3	[illegible]	130
10/3	[illegible]	130
10/3	Nelson	130
"	Johnson	110
		100
		220
		500

OCT 6 1958

Mr. Frederick Lewisohn

SOLICITOR
R
SEP 24 1958
INTERIOR DEPT.

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Lewisohn:

Enclosed is a copy of a certification of discovery or development, with copy of covering letter to the Operator, which has been issued pursuant to the terms of the above-cited contract.

This correspondence relates to the Consent to Lien and Subordination Agreement signed by you on August 1, 1956. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under the agreement signed by you, and to give advance notice of the Government's rights to any transferee or lessee of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosures

WRGriswold/izm/gla 9-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold
OME Field Team, Region III (2)

Identical letters to:
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/23/58	Griswold	500
		~~140~~
		~~140~~
9/26	Talbot	800
10/3	GCS	130
10/3	Johnson	110
3	Stenographer	100
		~~500~~ 220
		500

OCT 6 1958

Mr. E. N. Harshman
Acting Executive Officer
OME Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

SOLICITOR

SEP 24 1958

INTERIOR DEPT.

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Harshman:

Enclosed for your files are two copies each of a certification of discovery or development issued on the subject property and the covering letter to the Operator.

We find that the addresses of the owners have not been supplied this office. We are, therefore, attaching five date-stamped original letters, with one set of distribution copies, to the following:

Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

You are requested to insert the correct address in the original letters, noting the addresses on the distribution copies. Please forward the originals to the owners, and return all copies, except those indicated for the Field Team, to this office for distribution.

Sincerely yours,

George C. Selfridge

ACTING Chairman, Operating Committee (SHB)

Enclosures

APPROVED:

Richard H. Mote (SHB)
Member, Bureau of Mines

N. E. Nelson (SHB)
Member, Geological Survey

WRGriswold/ism/gla 9-23-58
cc: Director's Reading File
Mr. Johnson
Operating Committee
Mr. Griswold

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/23/58	Griswold	500
		~~140~~
		~~140~~
9/26	Talbert	800
10/3	[illegible]	130
10/3	[illegible]	130
10/3	[illegible]	130
"	Johnson	110
3	[illegible]	100
		~~6~~ 220
		500

OCT 6 1958

Mr. Clarence A. Fredell, Director
Technical Research and Development Division
Defense Materials Service
General Services Administration
Room 3034
7th and D Streets, S. W.
Washington 25, D. C.

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Leach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Fredell:

Enclosed is a copy of a certification of discovery or development related to Exploration Project Contract No. Idm-E1027.

The contract was dated October 23, 1956, with the Government participating to the extent of 50 percent in an exploration project estimated to cost $88,780.00. Actual expenditures were $53,354.30 (subject to audit), with the Government's share being half of such amount, or $26,677.15.

The total amount of work provided for under the contract consisted of 7,200 feet of churn drilling. Work actually performed consisted of 4,475 feet churn drilled.

The discovery consists of mixed oxide and sulphide copper ores occurring as contact metamorphic deposits principally in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite. The estimated ore reserve resulting from the work of exploration under the contract consists of 5,000,000 tons with a grade of 0.78 percent copper. Drilling by the Operator resulted in additional reserves estimated at 11,000,000 tons of the same grade.

Sincerely yours,

C. O. Mittendorf (for)
ACTING Director

cc: Director's Reading File
Operating Committee
Mr. F. E. Johnson
Mr. Frank Lamb, USBM
Mr. Kiilsgaard, USGS
Contract Adm. & Audit Div.
OME Field Team, Reg. III(2)
Mr. Griswold

Enclosure

WRGriswold/izm/gla (9/3/58) 9/30/58

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/23/58	Griswold	500
	Rubin	140
	Dwyer	140
9/26	Talbert	800
10/3	Selfridge	130
10/2	Watts	130
10/3	Nelson	130
"	Johnson	110
"	Mittendorf	100
10/6		220
		500

OCT 6 1958

Mr. Richard K. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Project No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Fresh and Elgin Mines
Pima County, Arizona
Contract No. Idm-81027

Dear Mr. Chilson:

Transmitted is a certification of discovery or development related to the Exploration Project Contract No. Idm-81027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OMR Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration, which is the successor to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

Sincerely yours,

C. O. Mittendorf

ACTING Director

Enclosure

8623

(DMEA-4221 Lewisohn Copper Corporation (Copper))

WRGriswold/izm/gla
(9/23/58) rewritten 9/30/58

cc to: Docket
Director's Reading File
Operating Committee
Contract Adm. & Audit Div.
Mr. Lamb, USBM
Mr. Kiilsgaard, USGS
Mr. Johnson
OME Field Team, Region III (2)
Mr. Griswold
Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

which is the successor to the
Defense Minerals Exploration Administration.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

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	[illegible]	140
	[illegible]	140
9/26	[illegible]	800
		130
		110
		100
		220
		500

Mr. Richard E. Chilson, President
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

INTERIOR DEPT.
SEP 24 1958
SOLICITOR

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Chilson:

Transmitted herewith is a certification of discovery or development related to the Exploration Project Contract No. Idm-E1027, dated October 23, 1956, on the lands described in the contract.

By the terms of the Exploration Project Contract and of the certification, all minerals mined or produced from October 23, 1956, to October 23, 1967, are subject to the Government's percentage royalty as set forth in the contract until the sum which the Government has advanced as its participating interest is repaid.

Payments should be made to the Executive Officer, OME Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado. Checks should be drawn in favor of the Office of Minerals Exploration. The purchaser should be advised to deduct royalties from the amount due on each shipment and forward the checks to the Executive Officer.

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

You are requested to notify the Executive Officer of any change in ownership and production rights that might affect the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify him at six-month intervals that such is the case.

RECEIVED
SEP 25 1958
ASSOC. SOLICITOR
MINERAL RESOURCES

Sincerely yours,

Director

Enclosure

8623

(DMEA-4221 Lewisohn Copper Corporation (Copper)

WRGriswold/izm/gla 9-23-58

cc: Docket
Director's Reading File
Operating Committee
Contract Adm. & Audit Div.
Mr. ~~McMahon, USBM~~ Lamb, U.S.B.M.
Mr. Kiilsgaard, USGS
Mr. Johnson
DMEA Field Team, Region III (2)
Mr. Griswold
Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

3rd Paragraph - 1st line

low grade copper ore

Churn drilling has proved the existence of low grade oxide-sulphide copper ore occurring as contact metamorphic deposits predominantly in limestones, generally underlain by quartzite, near the contacts with granite and quartz monzonite.

Docket

Trimmel

Portin

Dunger

App'd Sol. Off.

Talbut

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

SOLICITOR
K
SEP 24 1958

INTERIOR DEPT.

To: Richard K. Chilson, President
Lewisohn Copper Corporation
1670 North Warren Avenue
Tucson, Arizona

Pursuant to the provisions of Exploration Project Contract No. Ida-11027, dated October 23, 1956, Docket No. DMEA-4021, hereinafter called the "contract", between Lewisohn Copper Corporation, a Delaware corporation, and the United States of America, hereinafter called the "Government", to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Churn drilling has proved the existence of copper ores occurring as contact metamorphic deposits in limestones, near the contacts with granite and quartz monzonite.

Date: _____

WRGriswold/im/gla 9-23-58
cc: Docket
Mr. C. A. Fredell, DR.TDS.DMS
Mr. ~~McMahon~~, USBM Frank Lund
Mr. Kiilsgaard, USGS
Director's Reading File
Operating Committee
Contract Adm. & Audit Div.
Finance Office
Mr. Johnson
Mr. Griswold
OME Field Team, Region III

THE UNITED STATES OF AMERICA

By _____
Director, Office of
Minerals Exploration

Frederick Lewisohn
Eustace Seligman
Alfred Adolph Rossin
John G. Greenburgh
David M. Heyman

224 New Customhouse
Denver 2, Colorado
September 24, 1958

9/29 C 220
9/29 800
9/30 500

Mr. Richard E. Chilson
Lewisohn Copper Corporation
1070 North Warren
Tucson, Arizona

Re: Docket No. DMEA 4821 (Copper)
Contract No. Kha-E1027
Lewisohn Copper Corporation
(Peach and Elgin properties)
Pima County, Arizona

Dear Mr. Chilson:

Reference is made to our letter of August 19, 1958, whereby we forwarded the "Operator's Copy" of the TERMINATION AGREEMENT, which was executed to terminate Contract No. Kha-E1027, effective May 1, 1957, and advised you of the requirements under Article 7 (e) of the contract form regarding reporting to the Government of a final report pertaining to the work completed under the contract. To date, the final report has not been received in this office.

Please forward to this office by October 10, 1958, either the required five copies of the final report or a firm commitment as to the date on or before which the report will be received in this office. Otherwise, the matter will be referred to the Washington Office for consideration and appropriate action, due to your failure to comply with the contract provisions.

Very truly yours,

Original signed
E. N. HARSHMAN
E. N. Harshman
Acting Executive Officer

JDC:prl

cc: Ops/Washington (2)
Harshman
Emerick
Rosalie CMR/Tucson
Corres. file
Cooper
Chron.

m 7

OFFICIAL FILE COPY

Date	Surname	Code

September 11, 1958

Memorandum

To: The File

From: W. R. Griswold, Director
Division of Base Metals

Subject: Justification for Certification

Docket No. DMEA-4221 (Copper)
Contract No. Idm-E1027
Lewisohn Copper Corporation

The Field Team in its final report, dated August, 1958, estimates an ore reserve of 16,100,000 tons with a grade of 0.78 percent copper. However, this reserve is based upon the drilling of 37 holes, of which 25 holes were drilled by the Operator prior to the DMEA contract.

Therefore, in estimating the ore reserve resulting from the DMEA work, we must attempt an approximation. It seems reasonable to say that if 37 holes showed 16,100,000 tons, we might estimate that 12 of such holes gave 5,000,000 tons of DMEA ore reserve.

W. R. Griswold

W. R. Griswold

8623

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 2 1958
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

September 2, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Final Joint Engineering and Geologic Report, Docket No. DMEA-4221 (Copper) Lewisohn Copper Corporation (Peach and Elgin Properties), Pima County, Arizona, Contract No. Idm - E1027. $53,354.30

The Examiner's report that the findings of the project were favorable with the development of an estimated 16,100,000 tons of mixed oxide and sulfide material averaging 0.78 percent copper. However, they state that mining the deposit is dependent upon the development of a suitable method of concentrating the mixed oxide-sulfide ore and relatively high copper prices.

There have been encouraging developments in the processing of mixed oxide-sulfide ores recently and, although the reserve material is sub-marginal at the current price, it is possible that this reserve could be economically mined and processed in the future. Therefore, I concur in the Examiner's recommendation that a Certificate of Discovery be issued.

A. D. McMahon

A. D. McMahon

Copy to: Division of Minerals
Branch of Base Metals (2)
Files
Thor Kiilegaard, U.S.G.S.
F. D. Lamb

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado
August 20, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 25 1958

DATE	INITIALS	CODE
8/25	C	220
8/25	JB	130
"	JCY	110
8/29	JB	130
8/29	C	220
9/2	[illegible]	500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin properties), Pima County, Arizona

Enclosed are the original and two copies of a Joint Final Engineering and Geologic Report, dated August 1958, by T. M. Romslo, Mining Engineer, Bureau of Mines, and W. L. Emerick, Geologist, Geological Survey, pertaining to work completed under the subject contract.

FINAL F.T. Report

The Field Team Final Summary Report will be forwarded to your office when all matters prerequisite to closing the account have been resolved.

The field examiners state that the DMEA project work resulted in a significant quantity of copper ore, and recommend that a Certification of Discovery and Development be issued by the Government, in which this office concurs.

J. W. Townsend

J. W. Townsend

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
8-29-58
(date)

Time 8-19-58

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Box 4126 University Station
Tucson, Arizona

DMEA
DEPARTMENT OF THE INTERIOR
AUG 19 1958
REGION III
DENVER, COLORADO

RECEIVED
AUG 18 1958
OFFICIAL FILE COPY
DMEA
GEOLOGICAL SURVEY
DENVER, COLORADO
RECEIVED AUG 25 1958

DATE	INITIALS	CODE
8/29	HB	130
		220

August 14, 1958

Memorandum

To: Acting Executive Officer, DMEA Field Team, Region III

From: T. M. Romslo
W. L. Emerick

Through: E. N. Harshman

Subject: Docket No. 4221 (Copper) Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin properties), Pima County, Arizona -- Final Joint Engineering and Geologic Report.

Enclosed are the original and 8 copies of a final joint engineering and geologic report on the above subject docket.

The final report recommends that a Certificate of Discovery be issued as a result of the project.

T. M. Romslo
U. S. Bureau of Mines

W. L. Emerick
U. S. Geological Survey

TMR:WLE:ms

cc: Acting Executive Officer (8)
E. N. Harshman
DMEA/TUC
W. L. Emerick

Reviewed by
DMEA OPERATING COMMITTEE
8-29-58
(date)

W.O

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL JOINT ENGINEERING AND GEOLOGIC REPORT
REGION III

DMEA-4221 (Copper), Contract No. Idm-E1027

Lewisohn Copper Corporation

(Peach and Elgin Properties)

Pima County, Arizona

W. L. Emerick, Geologist
U. S. Geological Survey

T. M. Romslo, Mining Engineer
U. S. Bureau of Mines

August 1958

Reviewed by
DMEA OPERATING COMMITTEE
5-29-58
(date)

DMEA-4221 (COPPER), CONTRACT NO. Idm-E1027
LEWISOHN COPPER CORPORATION
(PEACH AND ELGIN PROPERTIES)
PIMA COUNTY, ARIZONA

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ILLUSTRATIONS

Figure 1. - Location map	following page 4
" 2A.- Claim map	" " 8
" 3. - Geologic map, Peach mine area	In folder
" 4. - Geologic map, Elgin mine area	" "

INTRODUCTION

Lewisohn Copper Corporation's property in the Helvetia Mining District, Pima County, Arizona, was explored for copper from November 1956 through April 1957, with governmental aid authorized by the Defense Production Act of 1950, as Amended. The corporation's application for aid was received by the Defense Minerals Exploration Administration March 19, 1956. It was docketed as DMEA-4221, reviewed by the Operating Committee, and forwarded to the Field Team, Region III, for field investigations and recommendations.

An exploratory project, designed to supplement a corporation drilling program started late in 1955 on the Peach mine area, was recommended by the examining team, approved by the Operating Committee and the Field Team and was authorized by Contract No. Idm-E1027, dated October 23, 1956. While the work authorized by the contract was in progress, the corporation requested on December 19, 1956 that the contract be extended to include similar work in the adjacent Elgin mine area. The request had been partially processed when all work was terminated for financial reasons.

The property was examined for the Field Team by J. N. Faick and Leonid Bryner, geologists, U. S. Geological Survey, and T. M. Romslo, mining engineer, U. S. Bureau of Mines. Field investigations were completed June 22, 1956 and a report recommending aid in a revised program was submitted July 6, 1956. Representatives of the corporation who were consulted by the examining team included Messrs. B. H. Martin, Manager of the project; Harrison Schmitt, Consultant; and H. Toombs and A. Heymen, geologists.

SUMMARY, CONCLUSIONS AND RECOMMENDATION

The Peach and Elgin mine areas, Helvetia Mining district, Pima County, Arizona, are located in the foothills at the northwest extremity of the Santa Rita Mountain range. Ore was probably discovered in the district before the Civil War, but a brief period of activity on the Peach property, probably starting about 1900, was followed by a period of inactivity to 1947. During 1947, 1948, 1951 and 1952 several thousand tons of ore were produced on the property. After another period of inactivity, 1952 to 1955, some geological investigations were carried out by a private company. The Lewisohn Copper Corporation obtained control of the property late in 1955 and started exploratory diamond-drilling and churn drilling that was continued with government aid.

In the Peach and Elgin mine areas a sequence of quartzite and limestones lie in fault contact with underlying granite and quartz monzonite. Oxides and sulphides of copper are distributed throughout large masses of the limestone in numerous fractures and fracture zones. The present workable copper deposits are of the pyrometasomatic type and are chiefly concentrations or enrichment resulting from the oxidation of chalcopyrite and cupriferous pyrite.

The exploratory project of Docket DMEA-4221, Contract Idm-E1027, was designed to supplement a company drilling program to explore a large area of mineralized ground for copper. Twelve churn drill holes aggregating 4,475 feet were completed under the project, which started November

2, 1956 and continued until April 4, 1957, when the operator stopped all work because of financial reasons. The contract was terminated several months after cessation of drilling at the operator's request when it became evident they would be unable to finance additional work. The total cost of the project was $53,354.30, of which the Government's share at 50 percent was $26,677.15.

The findings of the project were favorable. Diamond and churn drilling by the operator, independently and with Government aid, found an estimated 16,100,000 tons of mixed oxide and sulphide material averaging about 0.78 percent copper. In addition, about 5,400,000 tons of material averaging less than 0.43 percent copper is included in and around the zones of higher grade material. The approximate ratios of overburden to indicated reserves of higher grade material and the combined higher and lower grade material are 1 to approximately 1.87 and 1 to approximately 2.35, respectively. The proportion of oxide to sulphide copper in the deposit is variable. Exploitation of the deposit that may be mined by open pitting is dependent upon the development of a suitable method of concentrating the mixed oxide-sulphide ore and relatively high copper prices.

A Certificate of Discovery should be issued because significant tonnages of mixed oxide and sulphide low grade ore of probable future economic value is present on the property.

It is recommended that Government aid be considered in any future applications for aid on the Peach and Elgin Mine areas. The Elgin mine area, as yet unexplored, appears to contain a reserve potential at least as promising as that of the Peach mine area.

LOCATION AND ACCESSIBILITY

The Peach property is situated in secs. 14, 15, and 22, T. 18 S., R. 15 E., Helvetia Mining District, Pima County, Arizona (fig. 1). It may be reached from Tucson by traveling south 18 miles on U. S. Highway 89 to Sahuarita, thence easterly 14 miles on a graded, all-weather road to a one-story adobe building that houses the corporation's field office, and sampling and storage quarters. The project area is about one-half mile northwest of the camp via typical unimproved desert roads.

Sahuarita, the nearest railroad shipping point, is served by the Tucson-Nogales branch of the Southern Pacific Railroad.

The property is situated in the foothills at the northwest extremity of the north-south trending Santa Rita Mountain range. It is in a moderately rugged area at an average altitude of about 4,200 feet. Drainage is westerly to the Santa Cruz valley.

The climate is typical of southern Arizona's zones of intermediate altitude. Summers are hot and winters are mild. Precipitation of about 12 inches annually occurs mainly as heavy rainstorms during July to August, and as light rainfalls during January and February.

Vegetation is sparse, consisting mainly of forage grasses and a variety of desert-type trees and shrubs.

There are no permanent streams in the district. Water is obtained from old mine workings and shallow wells.

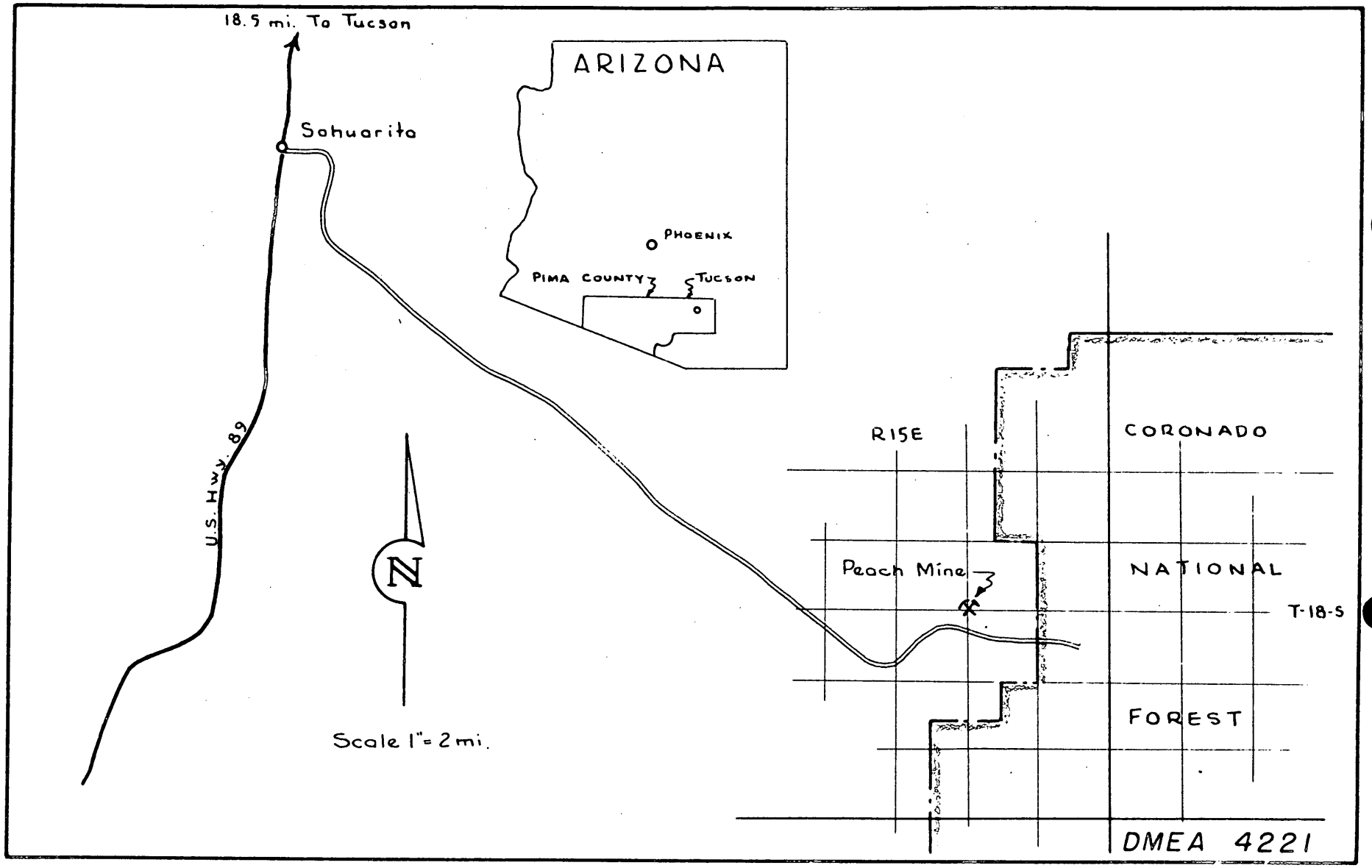

FIG.-1-LOCATION MAP, LEWISOHN COPPER CORP.

PIMA COUNTY, ARIZONA

OFFICIAL FILE COPY
D M E A
RECEIVED AUG 25 1958

DATE	INITIALS	CODE

PROPERTY

History and Production (Pre-DMEA)

S. C. Creasey and George L. Quick say:[1]

"Ore was probably discovered in the Helvetia district before the Civil War, but no records are available on the earliest discoveries. The old Frijole mine, reported to be the oldest in the district, was opened in 1880 and operated for several years. In the early eighties the ore from the district was treated at the Columbia smelter, located on the west side of the Santa Rita Mountains near the old Tiptop campsite. This smelter was succeeded in 1884 or 1885 by the Mohawk smelter, owned and operated by the Rosemont Mining and Smelting Co., which mined from workings near the Rosemont camp on the east slope of the Santa Rita Mountains.

"In the early nineties the Helvetia Copper Co. of New Jersey acquired holdings near the town of Helvetia and operated until 1901. They are reported to have spent $800,000 on development work that included 5 or 6 miles of aerial tramway and a new smelter, and also to have produced about $400,000 worth of copper from ore that averaged 8 to 10 percent copper and contained a small amount of silver and gold."

Activity on the Peach property probably started about 1900 when the Helvetia Copper Co. sunk the presently inaccessible 200-foot inclined Peach shaft. A small tonnage of ore probably was produced from the shaft at that time. As far as known, the property then was inactive to 1947, when several thousand tons of 2 percent copper ore was produced from an open pit about 600 feet southeast of the Peach shaft. During 1948, 10 railroad carloads of ore were shipped from the dump at the Peach shaft and 60 carloads were shipped from the open pit. The next period of operation was during 1951 and 1952, when 40 carloads

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1/ Creasey, S. C., and Quick, G. L., Copper deposits of part of Helvetia Mining District, Pima Co., Arizona: Geological Survey Bulletin 1027-F, 1955, pp. 301-302.

of ore was produced from the open pit. Other operations of this period were the driving of a 165-foot adit from the south end of the open pit, the sinking of a 75-foot shaft on the South End claim for a production of 3 carloads of ore, and the mining of 2 carloads of ore from an open pit near the shaft. The grade of ore, as reported by Richard E. Chilson, President, Lewisohn Copper Corporation, was 2 to 3 percent copper for ores from the Peach claim and about 4 percent copper for the ore from the South End claim.

The property was inactive from 1952 to 1955, when the American Exploration and Mining Company carried out geological investigations under a lease and option agreement with Richard E. Chilson. The company, upon completion of the investigations, did not renew the agreement. During the latter part of 1955 the Lewisohn Copper Corporation obtained control of the property and started an exploratory diamond drilling and churn drilling project. The project was continued with government aid from November 1956 to April 4, 1957 when it was terminated for financial reasons.

Extent and Ownership of the Property

Annex 1 of contract Idm-E1027 states that the property consists of 3 unpatented claims owned by the operator, and 6 patented claims leased by the operator with option to purchase, from Frederick Lewisohn. The Southern Arizona Bank and Trust Company, Administrator

of the Estate of Leonard Lewisohn, and David M. Hymen, John G. Greenburgh, Eustace Seligman, and Alfred Adolph Rossin, Trustees of the Estate of Sam A. Lewisohn, pursuant to an agreement dated October 11, 1955, running to Richard E. Chilson and assigned by him to operator October 12, 1955, with consent of lessors. The claims are in the Helvetia Mining District and patents for them are recorded in the Office of the County Recorder, Pima County, Arizona, in Book No. 22, Deeds of Mines, at pages 383, et seq., pages 392, et seq., and pages 397, et seq.

The patented claims are as follows:

	Lot No.
Mohawk	1300
Newman	1304
Peach	1305
South End	1305
Monitor	1305
Gap	1305

The 3 unpatented claims, owned by the Operator, and Notices of Location of same being recorded in the Office of the County Recorder, Pima County, Arizona, are as follows:

	Book	Page
Flat Top	913	600
Round Top	914	1
Duzy	932	231

Figure 2A shows the location of all the above claims and the claims of the adjoining Elgin property.

Present Status

At present there is no activity on the property. A temporary office building, and sample and storage sheds are the only structures on the property.

GEOLOGY

Sedimentary rocks, ranging from Cambrian to Cretaceous, underlie the Helvetia Mining District, of which the Peach and Elgin mine areas are a part, in the northwest extremity of the Santa Rita Mountain range. Intrusive igneous rocks of the district consist of granitic types, ranging in age from post-Paleozoic to post-Cretaceous. Intense deformation in the district resulted in high-angle normal faults, thrust faults, and folds. Overturned beds, reversal of fault attitudes by post-fault deformation, and klippen are characteristic geologic features. Faulting, particularly thrust faulting, is the dominant structure feature in the Helvetia district.[2/] The ore deposits are chiefly of the pyrometasomatic type and, although they are largely structure-controlled, most of them are confined to Pennsylvanian and Permian limestones.

The geology of the Peach mine area, covering a roughly elliptical-shaped hill, locally called Tip Top Hill, is shown on Figure 3. The hill consists mainly of Pennsylvanian Naco(?) limestone in fault

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2/ Creasey, S. C., and Quick, G. L., op. cit. p. 309.

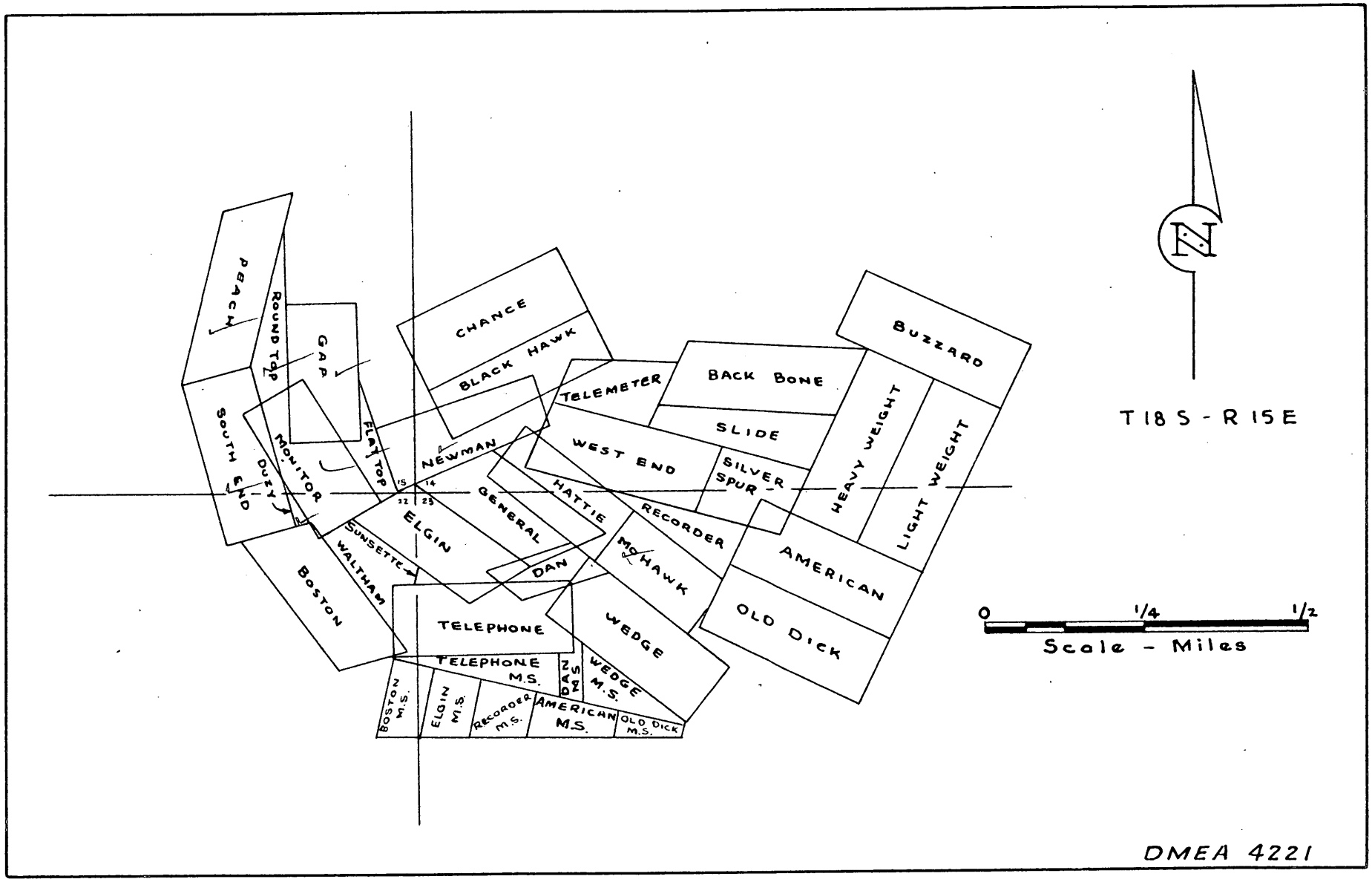

FIG. - 2A - REVISED CLAIM MAP, LEWISOHN COPPER CORP.

PIMA COUNTY, ARIZONA

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contact with an underlying quartzite probably of Cambrian age, which in turn is in fault contact with the underlying Mesozoic(?) granite. The formations, as well as the thrust faults that separate them, have steep to gentle easterly dips. Some of the steeper dips in the formations on the west side of the area occur where the beds are upturned near the fault contact with the underlying granite. The dips flatten to the eastward in the formations away from the contact. The quartzite in particular has been crushed, deformed, and cut out in places by the thrust faulting (Secs. A-A', B-B', C-C', D-D', and F-F', Fig. 3). Steep northeasterly- to northwesterly-trending faults are especially prominent at the north end of the Peach area, and somewhat less prominent at the south end. There has been some post ore movement along some faults but it is believed to be small, for example, as is shown in the northern part of Sec. A-A' where the ore zone has apparently been displaced by a normal fault.

Copper mineralization on the surface in the Peach area appears to be strongest at the north end of the hill, and somewhat less so toward the south end. The relationship is expressed at the surface as a belt of chloritic alteration, kaolinization, masses of garnet-tactite (lime-silicates) and copper oxides in the limestone immediately above the quartzite. As indicated on Figure 3, this belt is quite narrow opposite the center of the area but broadens somewhat to the south, and broadens to a still greater extent to the north.

The geology of the Elgin area (Figure 4) is somewhat similar to the geology of the Peach area. In the Elgin area a sequence of Cambrian quartzite and Pennsylvanian limestones rests upon granite and quartz monzonite. The quartz monzonite crops out on the east side of the area. The relationship of the quartz monzonite to the rocks in the Peach and Elgin areas is not clear, but it appears to overlap the granite and underlie the sediments, wedging out somewhere under Tip Top Hill. Penetrations of the quartz monzonite in drill holes (Figure 4) suggests that it is a sill-like intrusion, possibly from a main quartz monzonite stock further to the east. Locally, the quartz monzonite may be mineralized. Whereas the limestones and quartzite in the Peach area strike northerly and dip 15 to 75 degrees eastward, it is difficult to determine the dip of the beds in the Elgin area. However, it is believed that they are nearly horizontal.

On the Elgin claim (Figure 4) near the eastern end of the area in which DMEA exploration was proposed, the deposit was originally developed by an adit, shaft, and several hundred feet of drift. In recent years the Elgin deposit was mined principally by open-cut methods as a source of flux ore. Considerable copper mineralization can be seen in the walls of the open cut (Figure 4), and considerable chalcopyrite is disseminated throughout a tactite mass approximately 200 feet wide and 400 feet long on a low ridge north and west of the open pit. The reserve potential of the Elgin area appears to be at least as promising as that of the Peach area.

Ore Deposits

Copper mineralization in the Peach and Elgin areas is a mixture of oxides and sulphides. The oxides include carbonates, silicates and sulphates; the principal sulphide copper mineral is chalcopyrite, although cupriferous pyrite is abundant. There also seems to be chalcocite, covellite and some bornite with the ore. Sparse molybdenite was noted in some of the drill core.

The copper oxides, principally azurite, malachite, cuprite, and chalcanthite, predominate over the sulphides to considerable depths, although in places sulphides occur at or near the surface. There is no consistent depth at which the oxides cease to predominate. Drill hole logs (Appendix A) show several variations in the position of the oxide, sulphide, and mixed oxide-sulphide zones, and there does not appear to be any consistent order in the zoning. The relative proportions of oxides to sulphides in the deposit are undetermined. Writing of the entire Helvetia district, Schrader[3/] says:

> "Sulphides generally begin to appear rather near the surface but the lower limit of the oxidation zone is irregular and ranges from less than 100 to 300 feet below the surface."

Most of the gangue material is silicated limestone and limestone. Garnet, quartz, diopside and other contact minerals constitute the silicated limestone.

3/ Schrader, F. C., Mineral Deposits of the Santa Rita and Patagonia Mountains, Arizona; U. S. Geol. Survey Bull. 582, p. 78, 1915.

The ore deposits, which are of the pyrometasomatic or contact metamorphic type, do not occur in well defined bodies, but are distributed throughout large masses of host rock, presumably well shattered and containing numerous fractures and fracture zones, that are surrounded by zones of lower grade, sub-marginal rock, or by essentially barren rock. Some of them are not at the contact of intrusive rocks. The higher grade ore zones occur in the silicated parts of the limestone either adjacent to or at some distance above its contact with the underlying quartzite or granite. Schrader[4] says,

> "Where conditions for mineralization were favorable the deposits extend for considerable distance from the contact out into the limestone."

In regard to the ore bodies in mines to the east of the Peach and Elgin areas, Creasey[5] says:

> "The ore bodies are irregular lenticular zones lying largely within and generally parallel to the lime-silicate zones. The contact between ore and lime-silicate gangue is sharp in places and gradational in places. The general attitude and shape of the ore bodies appears to be controlled by the configuration and attitude of the silicate zones in which they are localized. Fracture zones, cross fractures, changes in attitude of fractured zones, and possible folding are thought to have influenced the location of ore minerals in the silicated zones."

Schrader[6] says:

> "Though the ore occurs to a considerable extent in association with faults or displacements, which have in a measure determined its position, its characteristic mode of occurrence is in irregular pockets, bunches, and bodies in the crushed and altered limestone, associated with underlying beds of quartzite or stringers of quartz which acted as impervious barriers to arrest the downward progress of the percolating mineral-bearing solutions that deposited the ore."

4/ Op. cit., p. 81.
5/ Op. cit., p. 312.
6/ Op. cit., p. 122.

Elsewhere Schrader[7] says:

"The present workable copper deposits are chiefly the result of concentration or enrichment consisting of malachite, azurite, chalcocite, etc., derived by processes of oxidation from the chalcopyrite and cupriferous pyrite which occurs as contact-metamorphic minerals and as accessory constituents in the intrusive granitic rocks."

The extent in depth of the ore is limited by the granite which underlies most, if not all, of the Peach and Elgin mine areas. The ore is predominantly in the limestone, although minor amounts occur in the quartzite. Cross sections (Figure 3) indicate that the top of the granite beneath the sediments lies from about 200 to about 545 feet below the surface.

Most of the thrust and normal faulting was probably pre-ore inasmuch as the ore occurs along both of these fault types, in fact, it seems to have been localized mostly near such faults. There was minor post-ore movement along both types of faults as evidenced by offset sulphide-bearing veinlets in the Tip Top Mine (north of the area of Fig. 3) and by offset gossan in the open cut immediately north of the Southern Cross shaft (Figure 3).

Geologic and assay logs of both diamond-drill and churn drill holes in the Peach and Elgin areas are contained in Appendix A. Churn drill holes C-38 through C-45 and C-47 through C-50 were drilled under DMEA contract.

7/ Op. cit., p. 81.

THE PROJECT

The project was justified geologically by the presence of an extensive area of copper mineralization in favorable limestone beds on the property, as indicated by surface outcrops, old mine workings, and the results of a company drilling project.

The operator originally proposed explorations that involved the building of roads to drill sites, the drilling of 40 diamond drill-holes, and the construction of a temporary office and sample building. Cost of this work was estimated at $251,631.64.

Allowable Work

The purpose of the revised project was to explore for ores of copper by churn drilling not more than 12 holes with an aggregate length of 3600 feet in each of 2 stages. The contract designated the locations of the 12 holes of stage I and provided that the Government could designate other applicable locations in event any of the holes previously had been drilled at the Operator's expense. Drilling of stage II was subject to approval in advance by the Government as to number of holes, locations, and depths.

Other specifications of the contract are set down below.

All holes to be drilled to a minimum diameter of 6 inches, except where otherwise authorized by the Government, and to be reamed and cased or cemented and redrilled as necessary. Only the costs of completed drill holes are allowable costs of the project.

Representative samples shall be taken in mineralized zones, utilizing hole intervals of not less than 5 feet nor more than 10 feet. All samples shall be chemically analyzed for total copper. Certified copies of all assay certificates and complete log records of all holes shall be submitted with the operator's monthly reports. A duplicate of each sample shall be taken and shall be retained and made available for disposition by the Government.

The project shall be supervised by a competent engineer-geologist who shall devote full time to the project work.

Estimated Costs

Stage I

Actual Costs

Independent Contract

Churn drilling, 3600 feet @ $10.00/ft. (The unit cost includes all costs for reaming, casing, lost casing, moving, delays and all costs pertaining to the drilling work.)	$36,000.00	
Fixed Unit Costs 1/		
Incidental allowance for each foot of drilling completed, 3600 feet @ $2.03/ft.	7,308.00	
600 samples to be chemically assayed for total copper @ $1.60 per sample	960.00	
60 samples to be check assayed for total copper @ $2.00 per sample	120.00	
Estimated Cost of Stage I		$44,388.00
Estimated Cost of Stage II (same as Stage I)		44,388.00
Estimated Cost of Project (rounded)		$88,780.00
Government Participation @ 50%		$44,390.00

1/ Includes all costs that might otherwise have been allowable costs under the contract, except assaying.

Work Performed

The drilling authorized by contract Idm-E1027 was started November 2, 1956. It was continued without interruption to April 4, 1957, when the operator stopped all work for financial reasons. The contract was allowed to remain in force until it was terminated at the operator's request. Inability to finance additional work was the reason given for the request.

The work performed under the contract comprised the drilling and sampling of 12 holes aggregating 4475 feet in length and the assaying of 915 samples for total copper. Ten of 12 holes with a total length of 3460 feet were drilled under Stage I and the other 2 holes totalling 1015 feet in length were drilled under Stage II. Of the 915 samples assayed, 707 assays were obtained from Stage I drilling, of which 39 were check assays. Stage II drilling accounted for the remaining 208 samples, of which 15 were check assays.

Cost of Project

Stage I

Actual Costs

Independent Contract

Churn drilling 3,460 ft. @ approx. $9.46/ft.		$32,743.25	
Fixed Unit Costs			
Incidental	3,460 ft. @ $2.03/ft.	7,023.80	
Assays	600 samples @ $1.60/ea.	960.00 1/	
Check assays	39 samples @ $2.00/ea.	78.00	
	Total Stage I		$40,805.05

1/ Maximum allowed by contract-cost of assaying 68 of 668 samples disallowed.

Total Stage I		$ 40,805.05

Stage II

Actual Costs

Independent Contract

Churn drilling 1,015 ft. @ $10.00/ft. $10,150.00 2/

Fixed Unit Costs

Incidental	1,015 ft. @ $2.03/ft.	2,060.45	
Assays	193 samples @ $1.60/ea.	308.80	
Check assays	15 samples @ $2.00/ea.	30.00	
Total Stage II			$ 12,549.25
Total for project			$ 53,354.30 3/
Government's share @ 50%			$ 26,677.15

2/ Maximum allowable. Actual cost was $10,265.50 or $10.1138 per foot.

3/ Before $750.00 withheld pending resolutions of matter pertaining to termination of contract.

The locations of the 12 holes drilled in the Peach mine area under the contract and the 29 holes previously drilled by the corporation are shown on figure 3.

All the drilling of the contract was done by the Purcell Mining and Drilling Company, Tucson, Arizona. One model 60-L Bucyrus Erie churn drill was operated 3 shifts daily for 6 days a week.

ORE RESERVES

The ore reserve estimate on the Peach mine area only is based upon the results obtained from 37 diamond and churn drill holes drilled in a mineralized area roughly 600 feet wide by 2200 feet long (Figure 3). Ten of the holes were diamond-drilled; the remainder were churn drill holes. Twelve of the churn drill holes shown on Figure 3 were drilled under DMEA contract.

The depth of overburden in the drilled area ranges from 0 to 318 feet and averages about 75 feet. It is estimated that the overburden amounts to about 6,159,000 tons of rock.

In the reserve estimate for the mixed oxide and sulfide copper deposit everything above 0.43 percent copper was considered as higher grade material. Based on the 0.43 percent copper cutoff, indicated reserves of 11,500,000 tons averaging 0.79 percent copper and inferred reserves of 4,600,000 tons averaging 0.76 percent copper were obtained. Total indicated and inferred reserves of higher grade material amount to 16,100,000 tons averaging 0.78 percent copper. The lower grade material assaying 0.43 percent and below was estimated at 3,000,000 tons of indicated material averaging 0.25 percent copper, 2,400,000 tons of inferred material averaging 0.24 percent copper, or a total indicated and inferred tonnage of 5,400,000 tons averaging 0.24 percent copper. Zones of the lower grade material occur both on top and within the higher grade material. Total indicated high and low grade material amounts to 14,500,000 tons averaging 0.68 percent copper; total inferred high and low grade material amounts to 7,000,000 tons averaging 0.58 percent copper, for a grand total of 21,500,000 tons averaging 0.65 percent copper.

The tonnages and grades of estimated ore are tabulated below. A tonnage factor of 11 was used in the estimate.

	INDICATED		INFERRED		TOTAL INDICATED AND INFERRED	
	Tons	Grade (% Cu.)	Tons	Grade (% Cu.)	Tons	Grade (% Cu.)
Higher grade	11,500,000	0.79	4,600,000	0.76	16,100,000	0.78
Low Grade	3,000,000	0.25	2,400,000	0.24	5,400,000	0.24
Grand Total	14,500,000	0.68	7,000,000	0.58	21,500,000	0.65

Overburden - 6,159,000 tons overlying the indicated reserves.

The approximate ratios of overburden to indicated reserves of higher grade material and the combined higher and lower grade material are 1 to approximately 1.87 and 1 to approximately 2.35, respectively.

An indication of the variable proportion of oxide to sulphide copper in the deposit is shown by the assays of the following samples of drill hole cuttings and samples of metallurgical tests made by the Arizona Bureau of Mines and the U. S. Bureau of Mines.

Hole No.	Interval (Ft.)	Percent Copper U. S. B. M. Total	U. S. B. M. H_2SO_4 sol.	L. C. Corp. Total
T-3	55-60	1.81	1.64	1.38
O-5	60-65	0.31	0.26	0.29
M-3	135-140	0.93	0.79	0.79
J-3	165-170	0.58	0.49	0.56
P-6	405-410	0.68	0.01	0.68
O-3	50-55	1.04	0.88	0.94
P-4	180-185	1.39	0.24	1.21
D-2	120-255	0.72	0.42	0.75
E-3	315-350	0.70	0.02	0.72
G-3	315-385	0.70	0.07	0.64

The total and acid soluble copper in 2 samples of diamond drill hole core tested by the Arizona Bureau of Mines averaged 0.84 percent and 0.33 percent, respectively. Copper recovery in the rougher concentrates of flotation tests on the 2 samples were 52 percent and 45.6 percent.

The heads of a 500-pound sample of ore from the Peach adit, that was tested by the U. S. Bureau of Mines, assayed 1.97 percent total copper and 1.59 percent acid soluble copper. The sample was tested by the segregation process that involves high temperature chloridization, a reducing roast and recovering of metallic copper by flotation. The recovery was about 85 percent as a concentrate assaying approximately 25 percent copper.

EFFICIENCY OF THE OPERATIONS

Richard E. Chilson, President of the corporation, reportedly supervised all phases of the exploratory program from the start of operations in late 1955 to about May 15, 1956, when B. H. Martin was employed as manager of field operations. The field operations during this period, as indicated by the DMEA examining team's findings, probably were conducted in an inefficient manner. Furthermore, as a result of improper drilling and sampling procedures much unacceptable assay data was obtained.

The field operations had been reorganized and good drilling and sampling procedures had been put into effect by Mr. Martin within a short time after he assumed management of the project. Thereafter, both the efficiency of the operations and the sampling results appeared to be good.

APPENDIX A

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-18
Grid location: P-3

Collar Elevation: 4398 ft.
Total depth: 400 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.17	0-75', Siltstone, minor garnetized limestone; weak magnetite, chalcocite, chrysocolla.
5	10	0.25	
10	15	0.42	
15	20	0.42	
20	25	0.50	Ore zone: 0-30' mixed. No heavy sulfide zone.
25	30	0.57	
30	35	0.57	
35	40	0.92	
40	45	0.25	
45	50	0.10	
50	55	0.20	
55	60	0.10	
60	65	0.20	
65	70	1.00	
70	75	0.20	
75	80	0.10	75-120', Light fine-grained quartzite and dark shaly rock, probably Scherrer formation; strong magnetite, weak pyrite and chalcocite.
80	85	0.30	
85	90	0.40	
90	95	0.05	
95	100	0.40	
100	105	0.30	
105	110	0.40	
110	115	0.50	
115	120	0.35	
120	125	0.13	120-385', Quartzite; 120-320', dark quartzite; weak magnetite, pyrite, chalcopyrite, malachite; no pyrite or chalcopyrite in last 20 feet.
125	130	0.03	
130	135	0.05	
135	140	0.05	
140	145	0.10	
145	150	0.05	
150	155	0.07	
155	160	0.13	
160	165	0.06	
165	170	0.06	
170	175	0.12	
175	180	0.00	
180	185	No sample	
185	190	0.00	
190	195	0.00	
195	200	0.02	

Hole No. C-18 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
200	205	0.18	
205	210	0.22	
210	215	0.21	
215	220	0.22	
220	225	0.18	
225	230	0.25	
230	235	0.01	
235	240	0.01	
240	245	0.02	
245	250	0.22	
250	255	0.28	
255	260	0.23	
260	265	0.25	
265	270	0.08	
270	275	0.10	
275	280	0.10	
280	285	0.40	
285	290	0.15	
290	295	0.20	
295	300	0.12	
300	305	0.12	
305	310	0.08	
310	315	0.05	
315	320	0.05	
320	325	0.02	
325	330	0.00	
330	335	0.01	
335	340	0.01	
340	345	0.03	
345	350	0.02	
350	355	0.05	
355	360	0.02	
360	365	0.03	
365	370	0.02	
370	375	0.03	
375	380	0.01	
380	385	0.02	
385	390	0.02	385-400', Granite; weak magnetite, pyrite, chalcopyrite.
390	395	0.01	
395	400	0.02	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. C-20
Grid Location: S-7

Collar elevation: 4302 ft.
Total depth: 410 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.05	0-170', Altered limestone; 0-55', garnetized limestone and epidote rock, weak oxides; 55-70', epidote rock, moderate oxides; 70-90', epidote rock, moderate oxides, moderate pyrite and chalcopyrite; 90-140', garnetized limestone, moderate oxides first 15 feet; 140-170', garnetized limestone and siltstone, weak oxides last 15 feet.
5	10	0.02	
10	15	0.00	
15	20	0.00	
20	25	0.00	
25	30	0.00	
30	35	0.00	
35	40	0.00	
40	45	0.20	
45	50	0.32	
50	55	0.40	
55	60	0.61	Ore Zone: 55-105' oxide.
60	65	0.80	
65	70	1.06	
70	75	0.91	
75	80	1.18	
80	85	0.88	
85	90	1.13	
90	95	0.47	
95	100	0.25	
100	105	0.71	
105	110	0.10	
110	115	0.08	
115	120	0.05	
120	125	0.05	
125	130	0.02	
130	135	0.10	
135	140	0.15	
140	145	0.95	
145	150	0.11	
150	155	0.20	
155	160	0.30	
160	165	0.28	
165	170	0.37	
170	175	0.58	170-300', Quartzite; 170-215', dark quartzite, weak pyrite, chalcopyrite and oxides; 215-300', light quartzite; 265-270', strong pyrite.
175	180	0.44	
180	185	1.27	
185	190	0.25	
190	195	0.54	
195	200	0.57	Ore Zone: 170-200', sulfide; no heavy sulfide zone.
200	205	0.47	

Hole No. C-20 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
205	210	0.31	
210	215	0.47	
215	220	0.28	
220	225	0.22	
225	230	No sample	
230	235	0.00	
235	240	0.03	
240	245	0.02	
245	250	0.02	
250	255	0.05	
255	260	0.05	
260	265	0.24	
265	270	No sample	
270	275	No sample	
275	280	0.21	
280	285	0.10	
285	290	0.38	
290	295	0.12	
295	300	0.21	
300	305	No sample	300-405', Granite: 335-355', weak pyrite and chalcopyrite.
305	310	0.28	
310	315	No sample	
315	320	0.28	
320	325	0.40	
325	330	0.35	
330	335	0.40	
335	340	0.31	
340	345	0.21	
345	350	0.12	
350	355	1.11	
355	360	0.09	
360	365	No sample	
365	370	0.59	
370	375	0.24	
375	380	0.14	
380	385	0.19	
385	390	0.17	
390	395	0.07	
395	400	0.12	
400	405	0.17	
405	410	0.26	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. C-21
Grid Location: S-5

Collar elevation: 4282 ft.
Total depth: 370 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.33	0-110', Garnetized limestone and siltstone; 0-80', weak oxides; 80-110', moderate copper pitch and chrysocolla, weak malachite.
5	10	0.31	
10	15	0.28	
15	20	0.14	
20	25	0.45	
25	30	0.28	
30	35	0.17	
35	40	0.26	
40	45	0.45	
45	50	0.47	
50	55	0.24	
55	60	0.14	
60	65	0.24	
65	70	0.21	
70	75	0.14	
75	80	0.26	
80	85	0.59	Ore zone: 80-160' oxide.
85	90	0.73	
90	95	0.59	
95	100	0.71	
100	105	1.21	
105	110	0.43	
110	115	0.39	110-235', Epidote rock and black siltstone; 110-160', epidote rock and black siltstone, moderate copper pitch and chrysocolla, weak malachite; 160-235', epidote rock, weak magnetite, strong pyrite and chalcopyrite, weak chalcocite; strong magnetite 215-235'; moderate cuprite 170-185'.
115	120	0.71	
120	125	0.46	
125	130	0.61	
130	135	0.76	
135	140	0.85	
140	145	0.51	
145	150	0.50	
150	155	0.57	
155	160	0.38	
160	165	0.76	Ore zone: 160-280' sulfide. Heavy sulfide zone: 160-235'.
165	170	0.64	
170	175	No sample	
175	180	1.16	
180	185	0.62	
185	190	No sample	
190	195	No sample	
195	198	1.34	
198	200	1.14	

Hole No. C-21 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
200	205	1.44	
205	210	2.08	
210	215	2.86	
215	220	2.01	
220	225	1.18	
225	230	2.08	
230	235	1.02	
235	240	0.66	235-330', Quartzite; 235-280', weak magnetite, pyrite, chalcopyrite; 300-330', weak pyrite and chalcopyrite.
240	245	0.39	
245	250	0.40	
250	255	0.28	
255	260	0.31	
260	265	No sample	
265	270	0.31	
270	275	0.57	
275	280	0.57	
280	285	0.40	
285	290	0.40	
290	295	0.39	
295	300	0.28	
300	305	0.28	
305	310	0.40	
310	315	0.31	
315	320	0.24	
320	325	0.28	
325	330	0.24	
330	335	0.33	330-370', granite; weak pyrite and chalcopyrite; both moderate 345-355'.
335	340	0.33	
340	345	0.33	
345	350	0.39	
350	355	0.42	
355	360	0.26	
360	365	0.12	
365	370	0.22	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-25
Grid Location: P-5

Collar elevation: 4407 ft.
Total depth: 445 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.52	0-55', marble with garnet alteration; 33-55' moderate chrysocolla.
5	10	No sample	
10	15	0.78	
15	20	0.73	Ore zone: 10-160' oxide.
20	25	0.71	
25	30	0.92	
30	35	0.66	
35	40	0.97	
40	45	0.90	
45	50	0.78	
50	55	1.15	
55	60	0.78	55-295', epidote rock and garnetized limestone, locally minor siltstone; 55-70', epidote rock; 70-105', garnetized limestone, moderate chrysocolla and copper pitch; 105-120', epidote rock, weak pyrite and chalcopyrite; 120-165', garnetized limestone with minor epidote rock and siltstone, moderate chrysocolla; 165-220', epidote rock, minor siltstone, weak pyrite, moderate chalcopyrite; 220-265', garnetized limestone, minor siltstone, weak magnetite, pyrite, chalcopyrite, moderate chrysocolla; 265-295', epidote rock, weak magnetite, pyrite, chalcopyrite, moderate chalcopyrite, weak malachite.
60	65	1.06	
65	70	0.95	
70	75	0.61	
75	80	0.47	
80	85	0.31	
85	90	0.31	
90	95	0.45	
95	100	0.76	
100	105	0.85	
105	110	0.76	
110	115	1.23	
115	120	1.61	
120	125	0.85	
125	130	0.12	
130	135	0.47	
135	140	0.47	
140	145	0.90	
145	150	0.76	
150	155	0.87	
155	160	0.61	
160	165	0.66	Ore zone: 160-220' sulfide. No heavy sulfide zone.
165	175	1.23	
175	180	1.16	
180	185	0.99	
185	190	1.28	
190	195	1.65	
195	200	2.03	
200	205	2.17	
205	210	1.35	
210	215	1.18	
215	220	0.57	

Hole No. C-25 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
220	225	0.54	
225	230	0.43	
230	235	0.64	
235	240	0.43	
240	245	0.47	
245	250	0.66	
250	255	0.78	
255	260	0.50	
260	265	0.40	
265	270	0.40	
270	275	0.64	
275	280	0.40	
280	285	0.47	
285	290	0.54	
290	295	0.38	
295	300	0.24	295-430', Quartzite; 295-305', weak malachite; 320-350', strong chrysocolla; 375-405', weak pyrite and chalcopyrite, strong chalcopyrite first 10 feet.
300	305	0.35	
305	310	0.33	
310	315	0.31	
315	320	0.31	
320	325	0.61	
325	330	0.64	
330	335	0.95	
335	340	0.71	
340	345	1.49	
345	350	0.47	
350	355	0.33	
355	360	0.52	
360	365	0.66	
365	370	0.61	
370	375	0.59	
375	380	0.76	
380	385	0.61	
385	390	0.35	
390	395	0.57	
395	400	0.52	
400	405	0.38	
405	410	0.43	
410	415	0.50	
415	420	0.50	
420	425	0.43	430-445', Granite; 435-445', weak pyrite, moderate chalcopyrite.
425	430	0.40	
430	435	0.35	
435	440	0.57	
440	445	0.45	

Churn Dril Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-26
Grid location M-2

Collar elevation: 4477 ft.
Total depth: 490 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.17	0-60', Garnetized limestone; 45-60' moderate clay alteration; 20-30', weak chrysocolla; 30-60', strong chrysocolla.
5	10	0.45	
10	15	0.21	
15	20	0.14	
20	25	0.26	
25	30	0.35	
30	35	0.47	Ore zone: 30-110', oxide.
35	40	0.43	
40	45	0.97	
45	50	0.90	
50	55	0.90	
55	60	0.97	
60	65	0.73	60-190', Epidote rock; 60-105', light and dark green epidote rock, weak pyrite and chalcopyrite; moderate magnetite, chrysocolla and copper pitch 60-80 ft.; 105-190', dark green epidote rock 105-160', moderate magnetite, weak pyrite and chalcopyrite.
65	70	0.61	
70	75	0.57	
75	80	1.28	
80	85	1.21	
85	90	1.39	
90	95	0.80	
95	100	0.83	
100	105	0.97	
105	110	1.44	
110	115	1.11	Ore zone: 110-190' sulfide - Heavy sulfide zone 110-160'.
115	120	0.85	
120	125	1.13	
125	130	0.80	
130	135	1.04	
135	140	1.51	
140	145	0.99	
145	150	1.51	
150	155	1.21	
155	160	1.42	
160	165	0.73	
165	170	0.54	
170	175	1.11	
175	180	0.33	
180	185	0.38	
185	190	No sample	
190	195	0.26	190-255', Garnetized limestone and siltstone; 220-255, moderate clay alteration. Weak oxides.
195	200	0.26	
200	205	0.24	
205	210	0.24	

Lewisohn Copper Corp.
Hole No. C-26 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
210	215	No sample	
215	220	0.35	
220	225	0.73	Ore zone: 220-280' oxide.
225	230	1.09	
230	235	0.45	
235	240	0.50	
240	245	0.61	
245	250	0.31	
250	255	0.25	
255	260	No sample	255-280', Epidote rock and garnetized limestone. Weak magnetite, pyrite, chalcopyrite, oxides. Moderate chrysocolla and malachite in last 10 feet.
260	265	1.09	
265	270	1.04	
270	275	0.85	
275	280	1.80	
280	285	0.90	280-390', Quartzite; 355-390', weak magnetite, pyrite, chalcopyrite. Moderate oxides first 10 feet.
285	290	0.21	
290	295	0.28	
295	300	No sample	
300	305	0.09	
305	310	0.12	
310	315	0.14	
315	320	0.33	
320	325	0.14	
325	330	0.19	
330	335	0.38	
335	340	0.31	
340	345	0.45	
345	350	0.38	
350	355	0.21	
355	360	0.19	
360	365	0.24	
365	370	0.36	
370	375	No sample	
375	380	0.35	
380	385	0.40	
385	390	0.28	
390	395	0.19	390-490', Granite; 390-410', Weak magnetite, pyrite, chalcopyrite; 440-495', weak magnetite, pyrite, chalcopyrite.
395	400	0.19	
400	405	0.12	
405	410	0.24	
410	415	0.17	
415	420	0.14	

Hole No. C-26 - Cont'd -- 3

Depth (Ft.) From	To	Percent Total Copper	Description
420	425	0.21	
425	430	0.31	
430	435	0.19	
435	440	0.19	
440	445	0.21	
445	450	0.21	
450	455	0.21	
455	460	0.17	
460	465	0.12	
465	470	0.12	
470	475	0.21	
475	480	0.24	
480	485	0.19	
485	490	0.21	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-27
Grid location: R-4

Collar elevation: 4342 ft.
Total depth: 400 feet

Depth (Ft.) From	To	Percent Total Copper	Description
15	20	0.73	0-170', Garnetized limestone and siltstone; 20-135', moderate clay alteration, weak epidote alteration 65-85'; 155-170', moderate clay and epidote alteration; 0-90', moderate chrysocolla, weak malachite, weak oxides; 135-160', same mineralization as 0-90'.
20	25	0.24	
25	30	0.43	
30	35	0.54	
35	40	0.57	
40	45	0.90	
45	50	1.28	
50	55	1.37	
55	60	1.35	
60	65	1.51	Ore zone: 15-160' oxide.
65	70	1.21	
70	75	1.04	
75	80	0.71	
80	85	0.69	
85	90	0.45	
90	95	0.71	
95	100	0.57	
100	105	0.45	
105	110	0.24	
110	115	0.35	
115	120	0.52	
120	125	0.38	
125	130	0.45	
130	135	0.66	
135	140	1.35	
140	145	1.58	
145	150	1.02	
150	155	0.57	
155	160	0.66	Ore zone: 160-225', sulfide; heavy sulfide zone: 160-215'.
160	165	2.29	
165	170	1.75	
170	175	1.25	170-195', Epidote rock; strong magnetite, pyrite; moderate chalcopyrite, chalcocite; weak magnetite, pyrite, chalcopyrite in last 10 feet.
175	180	2.01	
180	185	1.96	
185	190	1.11	
190	195	0.69	
195	200	0.83	195-360', Quartzite; 195-215', dark quartzite, strong magnetite, weak pyrite and chalcocite, moderate chalcopyrite and oxides; 215-260', dark and light quartzite, weak magnetite, pyrite, chalcopyrite, moderate malachite, moderate chalcocite in last 10 feet.
200	205	1.04	
205	210	1.89	
210	215	0.97	
215	220	0.87	
220	225	1.11	
225	230	1.23	

Hole No. C-27 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
230	235	1.42	
235	240	0.85	
240	245	0.57	
245	250	1.04	
250	255	0.73	
255	260	0.28	
260	265	0.31	
265	270	0.45	
270	275	0.35	
275	280	No sample	
280	285	0.45	
285	290	0.33	
290	295	0.31	
295	300	0.38	
300	305	0.35	
305	310	0.45	
310	315	0.31	
315	320	0.28	
320	325	0.12	
325	330	0.10	
330	335	0.12	
335	340	0.10	
340	345	0.10	
345	350	0.07	
350	355	0.21	
355	360	0.12	
360	365	0.12	360-395', Granite; weak to moderate pyrite, weak chalcopyrite.
365	370	0.05	
370	375	0.14	
375	380	0.07	
380	385	0.12	
385	390	0.10	
390	395	0.07	
395	400	0.03	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-28
Grid location: J-2

Collar elevation: 4418 ft.
Total depth: 420 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-50', Garnetized limestone; moderate clay alteration. Minor siltstone 35-50'. Moderate to weak chrysocolla.
5	10	0.50	
10	15	0.90	
15	20	0.83	
20	25	0.63	Ore zone: 0-90' oxide.
25	30	0.45	
30	35	0.45	
35	40	0.43	
40	45	0.73	
45	50	0.35	
50	55	0.64	50-135', Epidote rock; 50-60', minor garnet with moderate clay alteration, moderate chrysocolla, weak pyrite and chalcopyrite; 60-80', epidote rock, moderate clay alteration, weak chrysocolla, pyrite, chalcopyrite and chalcocite; 80-125', dark green epidote rock and black siltstone, strong magnetite and chalcopyrite, weak pyrite, moderate chalcocite, all weaker first 10 feet; 125-135', epidote rock, moderate clay alteration, quartz vein material, weak magnetite, pyrite, chalcopyrite.
55	60	0.85	
60	65	0.24	
65	70	0.31	
70	75	0.61	
75	80	0.61	
80	85	0.61	
85	90	1.28	
90	95	1.46	
95	100	1.47	
100	105	2.72	
105	110	0.28	
110	115	0.95	
115	120	0.99	
120	125	1.04	
125	130	0.83	Ore zone: 90-135' sulfide; 90-125' heavy sulfide zone.
130	135	0.45	
135	140	0.33	
140	145	0.28	135-190', Garnetized limestone, minor siltstone; strong to moderate clay alteration. Quartz vein material 135-160'; minor siltstone 155-190'; weak malachite and chrysocolla; very weak pyrite and chalcopyrite.
145	150	0.31	
150	155	0.26	
155	160	0.31	
160	165	0.50	
165	170	0.71	
170	175	0.43	
175	180	0.35	Ore zone: 135-260' mixed.
180	185	0.28	
185	190	0.69	

Hole No. C-28 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper
190	195	0.35
195	200	0.35
200	205	0.38
205	210	0.50
210	215	0.45
215	220	0.87
220	225	4.66
225	230	1.91
230	235	1.28
235	240	3.36
240	245	1.82
245	250	0.99
250	255	0.38
255	260	0.66
260	265	No sample
265	270	0.17
270	275	0.10
275	280	0.05
280	285	0.17
285	290	0.07
290	295	0.09
295	300	0.19
300	305	0.39
305	310	0.47
310	315	0.44
315	320	0.36
320	325	0.30
325	330	0.30
330	335	0.42
335	340	0.58
340	345	0.25
345	350	0.17
350	355	0.24
355	360	0.30
360	365	0.44
365	370	0.23
370	375	0.12
375	380	0.62
380	385	0.23
385	390	0.28
390	395	0.19
395	400	0.17
400	405	0.12
405	410	0.19
410	415	0.25
415	420	0.17

Description

190-205', Epidote rock; minor garnet and quartz vein material; weak magnetite, pyrite, chalcopyrite.

205-215', Siltstone; 215' weak pyrite.

215-420', Quartzite; 215-250', moderate magnetite and pyrite.

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-30
Grid location: J-1

Collar elevation: 4357 ft.
Total depth: 170 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.27	0-130', Garnetized limestone and siltstone; 90-100', epidote rock; 80-105', moderate magnetite, pyrite and chalcopyrite; 105-130', weak sulfides and oxides.
5	10	0.25	
10	15	0.17	
15	20	0.21	
20	25	0.14	
25	30	0.17	
30	35	0.24	
35	40	0.14	
40	45	0.14	
45	50	0.27	
50	55	0.32	
55	60	0.39	
60	65	0.32	
65	70	0.32	
70	75	0.32	
75	80	0.41	
80	85	0.50	Ore Zone: 80-135' mixed; no heavy sulfide zone.
85	90	0.47	
90	95	0.59	
95	100	1.04	
100	105	1.09	
105	110	0.72	
110	115	0.32	
115	120	0.39	
120	125	1.42	
125	130	1.73	
130	135	0.57	130-170', Quartzite; 130-135', weak sulfides and oxides.
135	140	0.25	
140	145	0.19	
145	150	0.23	
150	155	0.31	
155	160	0.25	
160	165	0.16	
165	170	0.19	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-31
Grid location: S-4

Collar elevation: 4283 ft.
Total depth: 415 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.25	0-160', Garnetized limestone and siltstone; 0-15', weak clay and epidote alteration; 15-80', strong clay alteration; 125-160', moderate clay and epidote alteration, weak oxides 155-160', strong magnetite.
5	10	0.28	
10	15	0.30	
15	20	0.53	
20	25	0.42	
25	30	0.26	
30	35	0.12	
35	40	0.17	
40	45	0.26	
45	50	0.17	
50	55	0.17	
55	60	0.12	
60	65	0.14	
65	70	0.19	
70	75	0.12	
75	80	0.29	
80	85	0.19	
85	90	0.19	
90	95	0.19	
95	100	0.14	
100	105	0.16	
105	110	0.22	
110	115	0.12	
115	120	0.15	
120	125	0.40	Ore zone: 120-160' oxide.
125	130	0.87	
130	135	0.32	
135	140	0.25	
140	145	0.38	
145	150	0.50	
150	155	0.61	
155	160	0.62	
160	165	1.25	160-200', Epidote rock; 160-185' moderate magnetite and chalcocite, strong pyrite, weak chalcopyrite, bornite, native copper, oxides, moderate cuprite 180-185'; 185-200', strong pyrite; weak magnetite, chalcopyrite, bornite, native copper, oxides, weak to strong chalcocite.
165	170	1.10	
170	175	3.60	
175	180	0.73	
180	185	0.72	
185	190	0.52	
190	195	0.57	
195	200	0.95	

Hole No. C-31 - Cont'd -- 2
Grid Location: S-4

Depth (Ft.) From	To	Percent Total Copper	Description
200	205	2.00	Ore zone: 160-250' sulfide; heavy sulfide zone 160-220'.
205	210	1.18	
210	215	1.32	
215	220	1.83	200-290', Quartzite; 200-220', dark quartzite, mineralization same as 185-200'; 220-250', dark quartzite, weak magnetite, pyrite, chalcopyrite, moderate chalcocite last 10 feet; 250-290', light quartzite, weak chalcocite, chalcopyrite, oxides.
220	225	0.90	
225	230	0.39	
230	235	0.50	
235	240	0.52	
240	245	1.00	
245	250	0.63	
250	255	0.19	
255	260	0.27	
260	265	0.26	
265	270	0.19	
270	275	0.31	
275	280	0.26	
280	285	0.31	
285	290	0.21	
290	295	0.50	290-415', Granite; 290-415', strong pyrite; 290-325', moderate chalcocite.
295	300	0.33	
300	305	0.31	
305	310	0.54	
310	315	0.28	
315	320	0.30	
320	325	0.17	
325	330	0.21	
330	335	0.20	
335	340	0.21	
340	345	0.09	
345	350	0.12	
350	355	0.17	
355	360	0.05	
360	365	0.05	
365	370	0.06	
370	375	0.05	
375	380	0.03	
380	385	0.04	
385	390	0.03	
390	395	0.04	
395	400	0.03	
400	405	0.01	
405	410	0.01	
410	415	0.03	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-32
Grid location: L-2

Collar elevation: 4486 ft.
Total depth: 350 ft.

Depth (Ft.) From	To	Percent Total Copper		Description
0	5	0.43	0-90',	Garnetized limestone; weak epidote
5	10	0.65		alteration 15-30'. Trace magnetite,
10	15	0.92		pyrite, chalcopyrite; moderate to
15	20	0.95		weak bornite, weak malachite, chryso-
20	25	0.71		colla, copper pitch; moderate magne-
25	30	1.05		tite and hematite.
30	35	1.07		
35	40	0.50	Ore Zone:	0-90', oxide.
40	45	0.35		130-220', sulfide.
45	50	0.19		Heavy sulfide zone: 145-220'.
50	55	0.18		
55	60	0.18		
60	65	0.28		
65	70	0.60		
70	75	0.50		
75	80	0.83		
80	85	0.80		
85	90	No sample		
90	95	0.39	90-220',	epidote rock; 90-105' epidote rock with
95	100	0.21		garnet, weak magnetite and hematite,
100	105	0.17		trace pyrite, chalcopyrite, bornite,
105	110	0.19		moderate chrysocolla and malachite;
110	115	0.07		105-125' epidote rock and quartz vein
115	120	0.05		material, no garnet, same mineraliza-
120	125	0.05		tion as 90-105' but magnetite stronger,
125	130	0.38		oxides weaker; 125-145', epidote rock,
130	135	0.44		moderate magnetite and pyrite, weak
135	140	0.69		chalcopyrite, bornite and malachite;
140	145	1.08		145-220', epidote rock, strong magne-
145	150	1.15		tite and pyrite, moderate chalcopyrite
150	155	1.12		and bornite.
155	160	2.10		
160	165	0.95		
165	170	1.12		
170	175	1.35		
175	180	0.95		
180	185	0.93		
185	190	0.73		
190	195	0.66		
195	200	1.04		
200	205	0.99		

Hole No. C-32 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
205	210	0.80	
210	215	0.96	
215	220	0.47	
220	225	0.22	220-275', Garnetized limestone; 225-275', 40% siltstone; 235-275', weak epidote alteration; 220-275', weak magnetite, pyrite, chalcopyrite, bornite.
225	230	0.17	
230	235	0.18	
235	240	0.17	
240	245	0.33	
245	250	0.26	
250	255	0.33	
255	260	0.38	
260	265	0.28	
265	270	0.17	
270	275	0.28	
275	280	0.12	275-350', quartzite; trace magnetite, pyrite, chalcopyrite, bornite.
280	285	0.12	
285	290	0.19	
290	295	0.24	
295	300	0.08	
300	305	0.07	
305	310	0.08	
310	315	0.12	
315	320	0.15	
320	325	0.12	
325	330	0.17	
330	335	0.05	
335	340	0.08	
340	345	0.11	
345	347	0.11	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-33
Grid location: R-3

Collar elevation: 4341 Ft.
Total depth: 380 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-55', Gray siltstone.
5	10	Overburden	
10	15	0.21	
15	20	0.50	
20	25	0.35	
25	30	0.19	
30	35	0.26	
35	40	0.32	
40	45	0.29	
45	50	0.30	
50	55	0.59	
55	60	0.54	55-65', Gray siltstone and garnetized limestone.
60	65	0.30	
65	70	0.75	
70	75	0.96	65-130', Epidote rock, minor garnet; 75-120', moderate magnetite, pyrite, chalcopyrite, bornite, chalcocite, cuprite; 120-130', weak sulfides, moderate oxides.
75	80	1.28	
80	85	1.10	
85	90	1.33	
90	95	1.40	
95	100	1.23	
100	105	1.00	Ore zone: 75-130' sulfide. Heavy sulfide zone: 75-120'.
105	110	1.28	
110	115	1.28	
115	120	0.88	
120	125	0.54	
125	130	0.65	
130	135	0.43	130-350', Quartzite; 130-175', moderate to weak oxides, weak sulfides.
135	140	0.30	
140	145	0.10	
145	150	0.26	Ore zone: 130-175' mixed.
150	155	0.26	
155	160	1.10	
160	165	0.64	
165	170	0.80	
170	175	0.68	
175	180	0.32	
180	185	0.26	
185	190	0.08	

Hole No. C-33 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
190	195	0.12	
195	200	0.08	
200	205	0.04	
205	210	0.12	
210	215	0.09	
215	220	0.17	
220	225	0.12	
225	230	0.22	
230	235	0.27	
235	240	0.34	
240	245	0.32	
245	250	0.17	
250	255	0.12	
255	260	0.14	
260	265	0.04	
265	270	0.10	
270	275	0.12	
275	280	0.12	
280	285	0.12	
285	290	0.07	
290	295	0.07	
295	300	0.07	
300	305	0.07	
305	310	0.10	
310	315	0.05	
315	320	0.19	
320	325	0.78	
325	330	0.64	
330	335	0.04	
335	340	0.54	
340	345	0.62	
345	350	0.66	
350	355	0.28	350-380', Granite.
355	360	0.28	
360	365	0.34	
365	370	0.30	
370	375	0.30	
375	380	0.23	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-34
Grid location: G-2

Collar elevation: 4382'
Total depth: 335 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-55', Garnetized limestone; 0-45' garnetized limestone, minor siltstone and epidote rock 80% garnet alteration, weak clay alteration of garnet in last 15 feet, weak magnetite, trace pyrite, chalcopyrite, weak copper pitch, malachite, chrysocolla; 45-55', siltstone, mineralization same as 0-45'.
5	10	Overburden	
10	15	0.35	
15	20	0.38	
20	25	0.40	
25	30	0.50	
30	35	0.52	
35	40	0.61	
40	45	0.50	
45	50	0.26	
50	55	0.32	
55	60	0.61	55-205', Epidote rock; 55-75', epidote rock, weak clay alteration, quartz vein material, trace pyrite, chalcopyrite, bornite, weak magnetite, copper pitch, chrysocolla, malachite; 75-100', epidote rock, siltstone and quartz, mineralization similar to 55-75', but stronger; 100-150', dark green epidote rock with minor garnet, strong magnetite, weak to strong pyrite, weak to moderate chalcopyrite, weak bornite, weak to moderate copper pitch, weak malachite and chrysocolla. Sulfides and magnetite weaker first 10 feet.
60	65	0.80	
65	70	0.50	
70	75	0.36	
75	80	0.48	
80	85	0.32	
85	90	0.22	
90	95	0.28	
95	100	0.82	
100	105	0.90	
105	110	1.04	
110	115	1.47	
115	120	1.10	
120	125	0.67	
125	130	0.63	
130	135	0.88	
135	140	0.81	Ore zone: 95-210' sulfide - heavy sulfide zone: 110-205'.
140	145	0.88	
145	150	0.88	
150	155	0.91	
155	160	0.88	
160	165	0.61	
165	170	0.68	
170	175	0.95	
175	180	0.92	
180	185	0.84	
185	190	0.77	
190	195	No sample	
195	200	0.36	

Hole No. C-34 - Cont'd

Depth (Ft.) From	To	Percent Total Copper	Description
200	205	0.50	
205	210	0.52	205-250', Garnetized limestone and siltstone; weak magnetite and pyrite, trace chalcopyrite and bornite, copper pitch, malachite and chrysocolla. Mineralization stronger first 10 feet.
210	215	0.27	
215	220	0.26	
220	225	0.23	
225	230	0.17	
230	235	0.32	
235	240	0.30	
240	245	0.26	
245	250	0.30	
250	255	0.19	250-295', Quartzite; 250-265' mineralization same as 215-250'; 265-295', trace magnetite, chalcopyrite, bornite; moderate pyrite.
255	260	0.17	
260	265	0.10	
265	270	0.35	
270	275	0.20	
275	280	0.20	
280	285	0.15	
285	290	0.12	
290	295	0.33	
295	300	0.17	295-335', Granite; same mineralization as 265-295' but pyrite weaker.
300	305	0.14	
305	310	0.28	
310	315	0.18	
315	320	0.22	
320	325	0.18	
325	330	0.12	
330	335	0.28	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-35
Grid Location: H-2

Collar elevation: 4388 ft.
Total depth: 285 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.28	0-65', siltstone, minor marble, garnetized limestone and epidote rock; 0-20', siltstone and marble, weak magnetite; 20-55', garnetized limestone and siltstone, weak magnetite, trace bornite, malachite and chrysocolla; 55-65', garnetized limestone and siltstone, 20% quartz and brown vein material. Moderate magnetite and chalcopyrite, strong pyrite, weak chalcocite, trace chrysocolla.
5	10	0.26	
10	15	0.26	
15	20	0.28	
20	25	0.18	
25	30	0.15	
30	35	0.28	
35	40	0.12	
40	45	0.19	
45	50	1.28	
50	55	0.30	
55	60	0.25	
60	65	0.22	
65	70	No sample	65-195', Epidote rock, minor garnet and siltstone; 65-80', epidote rock, weak clay alteration, quartz and brown vein material, strong magnetite, pyrite, moderate chalcopyrite, weak chalcopyrite, trace chrysocolla; 80-100', pale green clayey rock, quartz vein material, moderate magnetite, weak pyrite, chalcopyrite; 100-125', dark green epidote rock, strong magnetite, weak pyrite, chalcopyrite; 125-150', dark green epidote rock, strong magnetite, moderate to strong pyrite and chalcopyrite, weak chalcocite, and trace chrysocolla; 150-195', dark green epidote rock, moderate magnetite and pyrite, weak chalcopyrite and chalcocite, trace chrysocolla.
70	75	0.78	
75	80	0.90	
80	85	0.18	
85	90	0.75	
90	95	0.14	
95	100	0.19	
100	105	0.65	
105	110	0.76	
110	115	0.96	
115	120	0.81	
120	125	0.91	
125	130	1.40	
130	135	1.03	
135	140	0.83	
140	145	0.88	
145	150	0.60	
150	155	0.19	
155	160	0.21	
160	165	0.19	Ore zone: 70-150' sulfide; heavy sulfide zone: 100-150'.
165	170	0.26	
170	175	0.47	
175	180	0.45	
180	185	0.43	

Hole No. C-35 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
185	190	0.43	
190	195	0.35	
195	200	0.21	195-245', Siltstone and garnetized limestone; weak magnetite, pyrite, chalcopyrite, chalcocite; trace oxides. Mineralization stronger in first 10 feet.
200	205	0.33	
205	210	0.33	
210	215	0.19	
215	220	0.32	
220	225	0.55	
225	230	0.28	
230	235	0.26	
235	240	0.18	
240	245	0.14	
245	250	0.32	245-270', Dark green epidote rock; weak magnetite, strong pyrite, weak chalcopyrite, moderate bornite, weak chalcocite, trace malachite.
250	255	2.70	
255	260	1.45	
260	265	0.54	
265	270	0.40	
270	275	0.37	270-285', Quartzite; mineralization same as 245-270' but bornite weaker.
275	280	0.52	
280	285	0.28	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-36
Grid location: 0-2

Collar elevation: 4402 ft.
Total depth: 185 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	0.26	0-110', Garnetized limestone and siltstone; 10-110', moderate magnetite and malachite.
5	10	0.16	
10	15	0.60	
15	20	0.92	
20	25	0.84	Ore zone: 10-140' oxide. No heavy sulfide zone.
25	30	0.97	
30	35	0.93	
35	40	0.90	
40	45	0.76	
45	50	0.81	
50	55	0.40	
55	60	0.40	
60	65	0.27	
65	70	0.65	
70	75	0.27	
75	80	1.14	
80	85	0.88	
85	90	0.65	
90	95	0.61	
95	100	1.66	
100	105	1.09	
105	110	0.90	
110	115	0.55	110-185', Quartzite; 110-140', moderate magnetite and malachite.
115	120	0.96	
120	125	1.09	
125	130	0.56	
130	135	0.53	
135	140	0.40	
140	145	0.27	
145	150	0.19	
150	155	0.18	
155	160	0.12	
160	165	0.14	
165	170	0.04	
170	175	0.04	
175	180	0.03	
180	185	0.18	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-37
Grid location: S-6

Collar elevation: 4315 ft.
Total depth: 280 ft.

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-190', Garnetized limestone and siltstone; 0-30', weak chrysocolla and copper pitch; 140-175', weak chrysocolla; 150-190', weak magnetite, strong pyrite, moderate chalcopyrite; 155-160', strong bornite.
5	10	Overburden	
10	15	0.12	
15	20	0.06	
20	25	0.12	
25	30	0.23	
30	35	0.15	
35	40	0.25	
40	45	0.22	
45	50	0.52	
50	55	0.30	
55	60	0.20	
60	65	0.07	
65	70	0.10	
70	75	0.40	
75	80	0.10	
80	85	0.08	
85	90	0.11	
90	95	0.11	
95	100	0.22	
100	105	0.12	
105	110	0.11	
110	115	0.22	
115	120	0.16	
120	125	0.12	
125	130	0.17	
130	135	0.06	
135	140	0.12	
140	145	0.17	
145	150	0.66	Ore zone: 145-270' sulfide; Heavy sulfide zone: 150-275'.
150	155	0.80	
155	160	0.77	
160	165	0.66	
165	170	0.28	
170	175	0.47	
175	180	0.47	

Hole No. C-37 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
180	185	0.56	
185	190	0.52	
190	195	0.62	190-225', Epidote rock and siltstone; 210-255' epidote rock with garnet; 190-255', weak magnetite, strong pyrite, moderate chalcopyrite.
195	200	1.00	
200	205	0.66	
205	210	0.65	
210	215	1.54	
215	220	2.20	
220	225	1.49	
225	230	1.38	
230	235	1.00	
235	240	1.42	
240	245	1.77	
245	250	1.64	
250	255	1.28	
255	260	0.92	255-280', Quartzite; weak magnetite, strong to weak pyrite, moderate to weak chalcopyrite.
260	265	1.02	
265	270	0.47	
270	275	0.30	
275	280	0.35	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-38
Grid Location: D-2

Dia. of Hole: 0-205' - 10"
205-285' - 8"
Collar elevation: 4340 ft.
Total depth: 285 ft.
Date drilled: Nov. 2-7, 1956

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-130', Garnetized limestone; 0-45' garnetized limestone, weak clay alteration, quartz vein material containing sulfides. Weak magnetite and chalcopyrite, strong chrysocolla, malachite, copper pitch; 45-115', garnetized limestone, moderate to strong clay alteration, quartz vein material, weak oxides; 115-130', garnetized limestone, quartz vein material, moderate oxides and sulfides.
5	10	Overburden	
10	15	0.75	
15	20	0.73	
20	25	0.46	
25	30	0.48	
30	35	0.94	
35	40	0.87	
40	45	0.56	
45	50	0.22	
50	55	0.24	
55	60	0.29	Ore zone: 0-45' oxide.
60	65	0.24	
65	70	0.22	
70	75	0.12	
75	80	0.24	
80	85	0.12	
85	90	0.10	
90	95	0.22	
95	100	0.17	
100	105	0.31	
105	110	0.27	
110	115	0.27	
115	120	0.48	Ore zone: 115-255' sulfide.
120	125	0.53	Heavy sulfide zone: 130-255'.
125	130	0.36	
130	135	0.36	130-255', Epidote rock with minor garnet and local quartz vein material; 130-220' moderate to strong magnetite, moderate pyrite and chalcopyrite; 220-255', moderate magnetite, strong pyrite, weak chalcopyrite, pyrite moderate in last 15 feet.
135	140	1.04	
140	145	0.82	
145	150	0.34	
150	155	0.39	
155	160	0.31	
160	165	0.54	
165	170	0.80	
170	175	0.92	
175	180	0.44	
180	185	0.31	
185	190	0.51	

Hole No. C-38 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
190	195	0.54	
195	200	0.68	
200	205	0.99	
205	210	1.02	
210	215	0.79	
215	220	0.99	
220	225	0.54	
225	230	0.34	
230	235	0.36	
235	240	0.44	
240	245	0.50	
245	250	0.44	
250	255	0.61	
255	260	0.27	255-285', Granite; weak magnetite, pyrite, chalcopyrite and oxides.
260	265	0.31	
265	270	0.24	
270	275	0.12	
275	280	0.22	
280	285	0.15	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-39
Grid location: E-3

Dia. of Hole: 0-167' - 10"
167-225' - 8"
225-380' - 7"
Collar elevation: 4346 ft.
Total depth: 380 ft.
Date drilled: Nov. 8-14, 1956

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-270', Garnetized limestone; 0-130', garnetized limestone, weak to strong clay alteration, quartz vein material containing sulfides. Minor siltstone and epidote rock last 25 feet, weak to moderate magnetite, weak oxides, very weak sulfides; 130-185', garnetized limestone with disseminated limonite, weak clay alteration and quartz vein material with sulfides, siltstone 150-155', epidote rock 160-170', moderate magnetite, weak pyrite, chalcopyrite and oxides, no pyrite or chalcopyrite first 15 ft.; 185-270', garnetized limestone, quartz vein material with sulfides, weak oxides, magnetite, pyrite, chalcopyrite very weak 185-240', weak 240-270'.
5	10	Overburden	
10	15	0.46	
15	20	0.22	
20	25	0.17	
25	30	0.24	
30	35	0.34	
35	40	0.31	
40	45	0.34	
45	50	0.29	
50	55	0.31	
55	60	0.41	
60	65	0.34	
65	70	0.31	
70	75	0.58	
75	80	0.53	
80	85	0.53	
85	90	0.29	
90	95	0.17	
95	100	0.29	
100	105	0.39	
105	110	0.36	
110	115	0.17	
115	120	0.15	
120	125	0.41	
125	130	0.36	
130	135	0.31	
135	140	0.46	Ore Zone: 135-180' oxide.
140	145	0.54	
145	150	0.66	
150	155	0.34	
155	160	0.36	
160	165	0.29	
165	170	0.55	
170	175	0.61	
175	180	0.79	
180	185	0.39	

Hole No. C-39 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
185	190	0.29	
190	195	0.27	
195	200	0.15	
200	205	0.27	
205	210	0.39	
210	215	0.22	
215	220	0.24	
220	225	0.22	
225	230	0.17	
230	235	0.19	
235	240	0.31	
240	245	0.50	
245	250	0.41	
250	255	0.29	
255	260	0.22	
260	265	0.22	
265	270	0.12	
270	275	0.41	270-370', Altered limestone; 270-315', light green calcareous clay rock, minor garnet 280-290', minor siltstone 300-305', weak to moderate magnetite and pyrite, weak chalcopyrite; 315-370', light green epidote rock and light green calcareous clay rock, minor siltstone 350-355', moderate magnetite, pyrite and chalcopyrite, magnetite and chalcopyrite weak in last 20 feet.
275	280	0.39	
280	285	0.59	
285	290	0.46	
290	295	0.22	
295	300	0.12	
300	305	0.36	
305	310	0.31	
310	315	0.39	
315	320	0.48	
320	325	0.55	
325	330	0.82	Ore zone: 315-350' sulfide. Heavy sulfide zone: 300-380' (moderate pyrite in granite at bottom of hole).
330	335	0.82	
335	340	0.41	
340	345	0.66	
345	350	0.59	
350	355	0.29	
355	360	0.24	
360	365	0.31	
365	370	0.27	
370	375	0.27	370-380', Granite; weak magnetite and chalcopyrite, moderate pyrite.
375	380	0.15	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-40
Grid location: G-3

Dia. of Hole: 0-260' - 10"
260-372' - 8"
372-460' - 7"
Collar elevation: 4431 ft.
Total depth: 460 ft.
Date drilled: Nov. 16-23, 1956

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.36
15	20	0.27
20	25	0.19
25	30	0.24
30	35	0.22
35	40	0.31
40	45	0.10
45	50	0.15
50	55	0.22
55	60	0.15
60	65	0.19
65	70	0.10
70	75	0.36
75	80	0.27
80	85	0.24
85	90	0.22
90	95	0.24
95	100	0.48
100	105	0.46
105	110	0.27
110	115	0.24
115	120	0.22
120	125	0.24
125	130	0.17
130	135	0.10
135	140	0.22
140	145	0.27
145	150	0.36
150	155	0.36
155	160	0.10
160	165	0.36
165	170	0.54

Description

0-260', Garnetized limestone; weak to moderate clay alteration, minor limestone 20-30', siltstone and garnetized limestone 40-85', disseminated limonite 90-260'; 80-245', weak to moderate magnetite; 245-260', weak magnetite, moderate pyrite, very weak chalcopyrite.

Hole No. C-40 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
170	175	0.31	
175	180	0.31	
180	185	0.22	
185	190	0.46	
190	195	0.36	
195	200	0.29	
200	205	0.59	
205	210	0.36	
210	215	0.27	
215	220	0.19	
220	225	0.31	
225	230	0.50	
230	235	0.36	
235	240	0.34	
240	245	0.29	
245	250	0.22	
250	255	0.36	
255	260	0.31	
260	265	0.34	260-385', Epidote rock; 260-315', weak to very weak pyrite and chalcopyrite, weak magnetite first 10 feet, trace native copper 270-275'; 315-345', strong magnetite, moderate pyrite, strong chalcopyrite; 345-385', weak pyrite, chalcopyrite, pyrite strong last 15 feet.
265	270	0.80	
270	275	0.39	
275	280	0.27	
280	285	0.27	
285	290	0.19	
290	295	0.12	
295	300	0.17	
300	305	0.12	
305	310	0.10	
310	315	0.34	
315	320	1.18	Ore Zone: 315-385' sulfide -- Heavy sulfide zone: 315-345'.
320	325	0.94	
325	330	0.99	
330	335	0.99	
335	340	0.48	
340	345	0.41	
345	350	0.39	
350	355	0.24	
355	360	0.34	
360	365	0.41	
365	370	0.45	
370	375	0.54	
375	380	0.61	
380	385	0.46	

Hole No. C-40 - Cont'd -- 3

Depth (Ft.) From	To	Percent Total Copper	Description
385	390	0.36	385-460', Gray quartzite; weak pyrite and chalcopyrite.
390	395	0.27	
395	400	0.27	
400	410	0.22	
410	415	0.24	
415	420	0.19	
420	425	0.22	
425	430	0.27	
430	435	0.22	
435	440	0.24	
440	445	0.19	
445	450	0.12	
450	455	0.12	
455	460	0.10	

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-41
Grid location: T-3

Dia. of Hole: 105'-10"
Collar elevation: 4229 ft.
Total depth: 105 ft.
Date drilled: Nov. 26-27, 1956

Depth (Ft.) From	To	Percent Total Copper	Description
0	5	Overburden	0-35', Garnetized limestone; moderate chrysocolla.
5	10	0.19	
10	15	0.15	
15	20	0.66	Ore Zone: 15-60' oxide.
20	25	No sample - Lost in crevice	
25	30	0.29	
30	35	0.31	35-65', Epidote rock; 35-55', light green epidote rock, minor garnet, moderate chrysocolla; 55-60', dark green epidote rock, moderate magnetite; 60-65', dark green epidote rock, weak magnetite, strong pyrite, chalcopyrite and chalcocite.
35	40	0.54	
40	45	0.68	
45	50	1.51	
50	55	1.09	
55	60	1.38	
60	65	4.65	
65	70	1.04	65-105', Quartzite; 65-90', dark quartzite, weak magnetite, strong pyrite, moderate chalcopyrite and chalcocite; 90-100', light quartzite, same mineralization as above but weaker; 100-105', light quartzite.
70	75	0.39	
75	80	1.96	
80	85	0.56	
85	90	0.39	
90	95	0.27	
95	100	0.10	
100	105	0.17	

Ore Zone: 60-85', sulfide --
Heavy sulfide zone: 65-100'.

Churn Drill No. C-42

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. C-42
Grid Location: P-6

Dia. of Hole: 0-235' - 10"
235-426' - 8"
426-460' - 7"
Collar Elevation: 4427 ft.
Total Depth: 460 feet
Date drilled: Nov.29-Dec.12, 1956

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	0.31
10	15	0.27
15	20	0.31
20	25	0.12
25	30	0.05
30	35	0.29
35	40	No sample
40	45	" "
45	50	" "
50	55	0.34
55	60	0.39
60	65	0.29
65	70	No sample
70	75	0.24
75	80	0.27
80	85	0.56
85	90	0.46
90	95	0.34
95	100	0.27
100	105	0.22
105	110	0.22
110	115	0.24
115	120	0.19
120	125	0.17
125	130	0.24
130	135	0.54
135	140	0.46
140	145	0.39
145	150	0.34
150	155	0.39

Description

0-70': Marble with moderate garnet alteration and siltstone; 0-70, White marble, moderate garnet alteration; 0-45', strong garnet alteration; 45-70', purple hematite stain, weak chrysocolla and copper pitch except in siltstone zone; 15-30', siltstone, minor marble, very weak oxides; 20-70', weak magnetite.

70-375': Garnetized limestone, minor siltstone; 70-80, garnetized limestone, weak magnetite and copper oxides; 80-95', dark and light green siltstone, minor salite rock, moderate limonite in last 5 feet, moderate magnetite and copper oxides; 95-140', garnetized limestone, minor siltstone, weak magnetite, weak copper oxides, moderate chrysocolla and copper pitch last 10 feet; 140-155', siltstone and garnetized limestone, weak magnetite and chalcopyrite, moderate pyrite, weak copper oxides; 155-170', garnetized limestone, minor limonite, weak magnetite, pyrite, chalcopyrite and chrysocolla; 170-195',

Hole No. C-42 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper
155	160	0.49
160	165	0.34
165	170	0.60
170	175	0.60
175	180	0.39
180	185	0.31
185	190	0.31
190	195	0.31
195	200	0.39
200	205	0.39
205	210	0.27
210	215	0.69
215	220	0.59
220	225	0.39
225	230	0.44
230	235	0.31
235	240	0.17
240	245	0.15
245	250	0.22
250	255	0.22
255	260	0.22
260	265	0.29
265	270	0.27
270	275	0.36
275	280	0.39
280	285	0.50
285	290	0.46
290	295	0.46
295	300	0.39
300	305	0.24
305	310	0.10
310	315	0.10
315	320	0.12
320	325	0.34
325	330	0.51
330	335	0.39
335	340	0.19
340	345	0.19
345	350	0.17
350	355	0.17
355	360	0.10
360	365	0.22
365	370	0.19
370	375	0.19

Description

siltstone and garnetized limestone, moderate magnetite, pyrite and trace chalcopyrite first 10 feet, then weak magnetite and chrysocolla; 195-375', garnetized limestone, weak yellow quartz-calcite material, weak chrysocolla, weak magnetite, and pyrite, no pyrite 230-270' and 310-365'; trace chalcopyrite, chalcocite, covellite 365-375'.

Hole No. C-42 - Cont'd -- 3

Depth (Ft.) From	To	Percent Total Copper
375	380	0.43
380	385	0.82
385	390	1.67
390	395	0.96
395	400	1.14
400	405	0.82
405	410	0.66
410	415	0.31
415	420	0.29
420	425	0.27
425	430	0.19
430	435	0.29
435	440	0.24
440	445	0.19
445	450	0.24
450	455	0.22
455	460	0.19

Description

375-405': Garnetized limestone and diopside rock and 20% quartz vein material; 375-390', garnetized limestone and diopside garnet rock, weak magnetite, pyrite, chalcopyrite, bornite, and chalcocite, all moderate in last 5 feet; 370-405', diopside garnet rock and siltstone, minor garnetized limestone, moderate magnetite, pyrite, chalcopyrite, weak bornite.

Ore Zone: 375-405', sulphide.
No heavy sulphide zone.

405-460': Granite; 405-440, weak magnetite and pyrite.

Churn Drill No. C-43

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-43
Grid Location: 0-3

Dia. of Hole: 0-220' - 10"
Collar Elevation: 4456 ft.
Total Depth: 220 ft.
Date drilled: Dec. 13-17, 1956

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.27
15	20	0.31
20	25	0.59
25	30	0.59
30	35	0.85
35	40	0.69
40	45	0.44
45	50	0.59
50	55	0.94
55	60	0.56
60	65	0.72
65	70	0.97
70	75	1.23
75	80	0.90
80	85	0.31
85	90	0.22
90	95	0.19
95	100	0.24
100	105	0.72
105	110	0.67
110	115	1.24
115	120	0.46
120	125	0.22
125	130	0.36
130	135	0.73
135	140	0.31
140	145	0.17
145	150	0.15
150	155	0.31
155	160	0.19
160	165	0.29
165	170	0.36
170	175	0.22

Description

0- 80': Garnetized limestone, diopside rock, and minor marble, weak yellow calcite-quartz material, minor marble first 25 feet, dominantly diopside rock with weak limonite 25-80', moderate chrysocolla; 0-50', weak magnetite; 50-70', moderate magnetite, weak pyrite, trace chalcopyrite, chalcocite; 70-80, moderate magnetite and pyrite, weak total chalcopyrite, bornite, chalcocite and covellite.

Ore Zone: 20-115'. No heavy sulphide zone.

80-185': Garnetized limestone and siltstone. 95-115', minor siltstone and moderate diopside content, weak limonite, weak chrysocolla, weak magnetite, pyrite, trace chalcopyrite, moderate pyrite 110-115'; 115-185', garnetized limestone and minor siltstone, weak magnetite, weak pyrite 150-170', weak chrysocolla.

Hole No. C-43 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper
175	180	0.29
180	185	0.44
185	190	0.27
190	195	0.19
195	200	0.24
200	205	0.19
205	210	0.17
210	215	0.24
215	220	0.19

Description

185-220': Black quartzite, weak magnetite, weak pyrite last 10 feet.

Churn Drill C-44

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-44
Grid Location: P-4

Dia. of Hole: 0-266' - 10"
266-345'- 8"
Collar Elevation: 4408 ft.
Total depth: 345 ft.
Date drilled: Dec. 18-23, 1956

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.23
15	20	0.21
20	25	0.19
25	30	0.09
30	35	0.14
35	40	0.14
40	45	0.16
45	50	0.19
50	55	0.24
55	60	0.24
60	65	0.63
65	70	0.80
70	75	0.95
75	80	0.80
80	85	0.71
85	90	0.71
90	95	0.56
95	100	0.34
100	105	0.36
105	110	0.41
110	115	0.39
115	120	0.34
120	125	0.36
125	130	0.36
130	135	0.63
135	140	0.71
140	145	1.14
145	150	2.11
150	155	1.31
155	160	1.48
160	165	1.57
165	170	1.14
170	175	2.05
175	180	1.52
180	185	1.21

Description

0-130: Garnetized limestone with minor diopside and minor siltstone (transition zone between grossularite rock and grossularite-diopside rock); 0-60, little diopside, minor siltstone 25-30, 50-60, weak chrysocolla, very weak magnetite and pyrite 40-55; 55-95, moderate diopside, minor limestone first 15 feet, minor siltstone 70-95, strong magnetite, weak pyrite, chalcopyrite, bornite, moderate chrysocolla and copper-pitch, weak malachite; 95-130, weak diopside, moderate gray-green siltstone, strong black siltstone 110-115, weak chrysocolla, weak magnetite, weak pyrite first 10 feet, weak magnetite, moderate pyrite, weak chalcopyrite and bornite last 5 feet.

Ore Zone: 60-130 mixed.

130-215: Diopside-garnet rock. Moderate limonite to 185, strong limonite 155-160 and 165-170, minor siltstone 130-135, 20% quartz vein material 150-165, 185-190, 210-215. Moderate to strong magnetite, moderate pyrite, strong total of covellite, chalcopyrite, bornite, chalcocite. Weak copper pitch and chrysocolla. Moderate malachite and chrysocolla last 10 feet.

Hole No. C-44 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper
185	190	0.76
190	195	0.78
195	200	2.44
200	205	0.86
205	210	1.40
210	215	1.21
215	220	0.39
220	225	0.31
225	230	0.19
230	235	0.24
235	240	0.16
240	245	0.19
245	250	0.09
250	255	0.12
255	260	0.16
260	265	0.12
265	270	0.59
270	275	0.73
275	280	0.56
280	285	0.34
285	290	0.49
290	295	0.56
295	300	0.26
300	305	0.19
305	310	0.16
310	315	0.24
315	320	0.26
320	325	0.19
325	330	0.16
330	335	0.16
335	340	0.14
340	345	0.14

Description

Ore Zone: 130-215 sulphide, heavy.

215-345: Black quartzite.
215-265, weak magnetite, pyrite, chalcopyrite, chrysocolla.
265-295, weak magnetite, moderate chrysocolla.
295-345, weak magnetite, weak chrysocolla; weak pyrite 295-335.

Drill Hole C-45

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-45
Grid Location: 0-5

Dia. of Hole: 0-50' - 10"
50-355'- 8"
Collar Elevation: 4479 ft.
Total Depth: 355 ft.
Date drilled: Dec. 28, 1956 to
Jan. 7, 1957

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.39
15	20	0.54
20	25	0.14
25	30	0.05
30	35	0.12
35	40	0.29
40	45	0.39
45	50	0.34
50	55	0.34
55	60	0.29
60	65	0.29
65	70	0.36
70	75	0.39
75	80	0.41
80	85	0.46
85	90	0.50
90	95	0.46
95	100	0.50
100	105	0.61
105	110	0.41
110	115	0.41
115	120	0.87
120	125	0.75
125	130	0.85
130	135	0.82
135	140	1.04
140	145	1.04
145	150	0.71
150	155	0.61
155	160	0.31
160	165	0.36
165	170	0.27

Description

0-130': Garnetized limestone and siltstone; 0-65, garnetized limestone and black siltstone, mostly black siltstone 20-35', weak chrysocolla and copper pitch, trace magnetite, pyrite, covellite 50-60; 65-130, garnetized limestone, minor black siltstone and diopside rock, disseminated limonite, weak 65-110, strong 110-130', moderate chrysocolla and copper pitch, weak magnetite 110-130.

Ore Zone: 75-145' oxide, 145-230' sulphide.

130-300': Diopside rock and garnetized limestone; 130-155, diopside rock, minor garnetized limestone, moderate chrysocolla, copper pitch, malachite, magnetite 130-145; strong magnetite, moderate pyrite, chalcopyrite, and covellite, weak oxides 145-150, all weaker last 5 feet; 155-175, garnetized

Hole No. C-45 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper
170	175	0.27
175	180	1.42
180	185	0.71
185	190	1.07
190	195	1.38
195	200	0.71
200	205	0.78
205	210	0.73
210	215	0.44
215	220	1.04
220	225	0.76
225	230	0.56
230	235	0.34
235	240	0.22
240	245	0.16
245	250	0.21
250	255	0.29
255	260	0.29
260	265	0.27
265	270	0.24
270	275	0.34
275	280	0.24
280	285	0.36
285	290	0.27
290	295	0.50
295	300	0.71
300	305	0.41
305	310	0.34
310	315	0.34
315	320	0.36
320	325	0.27
325	330	0.29
330	335	0.44
335	340	0.39
340	345	0.29
345	350	0.27
350	355	0.16

Description

limestone, gray-green siltstone last 5 feet, weak oxides, weak magnetite, weak pyrite last 5 feet; 175-230, diopside rock, minor garnetized limestone, moderate magnetite, pyrite, chalcopyrite, covellite, weak oxides, weak magnetite and very strong pyrite first 5 feet, more garnetized limestone and weaker mineralization in last 5 feet; 230-270, garnetized limestone, minor gray-green siltstone 245-255 and 265-270, weak oxides; 270-300, diopside rock, minor garnetized limestone, minor gray-green siltstone 175-190, weak oxides, weak-moderate magnetite and pyrite, weak chalcopyrite last 5 feet.

Heavy sulphide zone: 175-200'.

300-355: Black quartzite with weak malachite, chrysocolla and pyrite.

Churn Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. C-46
Grid Location: FF-5

Collar Elevation: 4336 ft.
Total Depth: 170 ft.

Depth (Ft.) From	To	Description
0	40	Garnetized limestone. Moderate yellow quartz calcite material and quartz vein material. Moderate to strong disseminated limonite. Moderate chrysocolla and copper pitch. Minor cuprite(?). Moderate to strong magnetite. No siltstone: evidence for concha.
40	130	Diopside rock. 40-95', Dark and light green and black diopside rock with minor yellow clayey material and minor limonite in first 20 feet. Minor quartz vein material. Moderate oxides and magnetite first 5 feet. Strong magnetite and oxides; moderate chalcopyrite; weak pyrite second 5 feet. 50-95', strong magnetite; strong total of chalcopyrite, bornite, covellite, chalcocite; weak pyrite; 95-130', White quartz vein material(?), minor diopside rock. Moderate magnetite, pyrite, copper sulfides 95-105' and 120-125'. All weak in remainder.
130	170	Granite. 130-145', Finely pulverized. Minor light and dark green rock similar to diopside rock. May be chlorite alteration or cave from above. Moderate magnetite, weak pyrite and copper sulfides. Coarsely pulverized. Moderate to strong magnetite, weak pyrite and copper sulfides.

Ore Zones: 15-45' mixed, 45-95' sulfide.
No Heavy Sulfide Zone.

Drill Hole C-47

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-47
Grid Location: M-3

Dia. of Hole: 0-286' - 10"
286-400' - 8"
Collar elevation: 4518
Total depth: 400 feet
Date drilled: Jan. 16-31, 1957

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	Overburden
15	20	0.31
20	25	0.50
25	30	0.49
30	35	0.24
35	40	0.50
40	45	0.39
45	50	0.54
50	55	0.31
55	60	0.41
60	65	0.39
65	70	0.17
70	75	0.10
75	80	0.07
80	85	0.07
85	90	0.07
90	95	0.27
95	100	0.17
100	105	0.19
105	110	0.12
110	115	0.19
115	120	0.19
120	125	0.27
125	130	0.36
130	135	0.86
135	140	0.75
140	145	1.10
145	150	0.41
150	155	0.19
155	160	0.24
160	165	0.22
165	170	0.34
170	175	0.15
175	180	0.17
180	185	0.15

Description

0-65': Marble. Weak garnet alteration. Stronger in last 20 feet. Weak megascopic chrysocolla and copper pitch. Weak magnetite 35-40'.

65-195: Garnetized limestone. 65-110, garnetized limestone. Minor gray-green siltstone 80-85, minor quartz and calcite vein material, limonite, epidote 105-110, weak oxides, weak magnetite 75-80'; 110-130, garnetized limestone, strong limonite, minor quartz and calcite vein material, weak oxides, pyrite weak first 5 feet and moderate last 15 feet, covellite weak last 10 feet, no magnetite or chalcopyrite, pyrite altering to limonite and covellite; 130-150, garnetized limestone and diopside rock, diopside rock light green and clayey and dark green to black, moderate limonite, weak quartz vein material moderate chrysocolla and copper pitch, weak magnetite, pyrite, covellite, moderate pyrite last 5 feet; 150-195, garnetized limestone, minor diopside, epidote, calcite, quartz and limonite, weak chrysocolla and copper pitch both moderate in last 5 feet, weak magnetite, pyrite, chalcopyrite, covellite first 20 feet.

Hole No. C-47 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
185	190	0.27	
190	195	0.50	195-265: Diopside rock. 195-240, dark gray first 5 feet, dark and light gray and green with limonite and minor quartz 200-220, dark gray-green 220-240, strong magnetite, moderate pyrite, strong covellite-chalcocite, weak chalcopyrite 195-230, strong magnetite, pyrite, chalcopyrite 230-240; 240-265, diopside rock with garnet and siltstone, minor garnet, quartz, epidote first 5 feet, dominantly siltstone 245-250, garnet, quartz, epidote, siltstone last 15 feet, moderate magnetite and pyrite, weak chalcopyrite all through and covellite strong in last 5 feet.
195	200	1.19	
200	205	1.43	
205	210	1.43	
210	215	1.06	
215	220	0.75	
220	225	0.92	
225	230	0.64	
230	235	1.06	
235	240	0.56	
240	245	0.44	
245	250	0.54	
250	255	0.29	
255	260	0.44	
260	265	1.16	
265	270	0.34	
270	275	0.36	265-355: Garnetized limestone and siltstone. 265-330, garnetized limestone and gray-green siltstone, minor diopside rock first 20 feet, weak magnetite, moderate pyrite, weak chalcopyrite and covellite first 10 feet, weak magnetite and pyrite 275-295, weak magnetite last 35 feet; 330-355, garnetized limestone and gray-green siltstone, minor limonite, weak chrysocolla and copper pitch, weak to moderate magnetite.
275	280	0.36	
280	285	0.24	
285	290	0.19	
290	295	0.24	
295	300	0.19	
300	305	0.19	
305	310	0.22	
310	315	0.17	
315	320	0.19	
320	325	0.17	
325	330	0.29	
330	335	0.41	
335	340	0.36	
340	345	0.77	
345	350	0.56	
350	355	0.56	355-460: Quartzite. 355-380, dark gray quartzite, weak magnetite, malachite and chrysocolla; 380-400, light tan quartzite, very weak magnetite, malachite and chrysocolla.
355	360	0.38	
360	365	0.29	
365	370	0.31	
370	375	0.29	
375	380	0.31	
380	385	0.24	
385	390	0.15	
390	395	0.07	
395	400	0.12	

Ore Zones: 20-60' mixed; 130-150' mixed; 195-265' sulphide; 230-255 mixed. Heavy sulphide zone 195-240'.

Drill Hole C-48

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-48
Grid Location: J-3

Dia. of Hole: 0'-208' - 10"
208'-370' - 8"
370'-450' - 7"
Collar elevation: 4499 feet
Total depth: 450 feet
Date drilled: Feb. 2-14, 1957

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.24
15	20	0.17
20	25	0.17
25	30	0.07
30	35	0.39
35	40	0.44
40	45	0.39
45	50	0.10
50	55	0.22
55	60	0.34
60	65	0.36
65	70	0.29
70	75	0.24
75	80	0.05
80	85	0.24
85	90	0.08
90	95	0.10
95	100	0.22
100	105	0.58
105	110	0.15
110	115	0.10
115	120	0.08
120	125	0.54
125	130	0.24
130	135	0.29
135	140	0.44
140	145	0.62
145	150	0.24
150	155	0.24
155	160	0.22
160	165	0.36
165	170	0.56
170	175	0.45
175	180	0.96
180	185	0.94

Description

0-115': Marble, garnetized limestone and siltstone. White marble, brown garnet, dark brown to black iron-bearing material; probably hematite-bearing calcite. Gray-green siltstone and garnetized limestone 45-50. Moderate hematite 50-60, 95-100. Gray-green siltstone, minor garnet 70-80 and 105-115. Weak oxides throughout.

115-175': Garnetized limestone. 115-135, weak yellow calcite-quartz material, limonite and hematite, weak oxides, magnetite, weak pyrite, in part altered to hematite last 5 feet. 135-165, weak to moderate yellow calcite-quartz material and limonite, moderate chrysocolla and copper pitch, weak magnetite but moderate 140-145, weak pyrite altering to hematite and covellite last 5 feet. 165-175, minor garnet, mostly limonite-coated white quartz vein material, strong limonite, weak oxides and pyrite, moderate magnetite.

Hole No. C-48 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper
185	190	0.92
190	195	1.38
195	200	1.16
200	205	1.07
205	210	1.40
210	215	0.59
215	220	0.31
220	225	0.39
225	230	0.41
230	235	1.28
235	240	1.48
240	245	0.87
245	250	0.66
250	255	0.94
255	260	0.73
260	265	0.85
265	270	0.24
270	275	0.10
275	280	0.12
280	285	0.44
285	290	0.81
290	295	0.63
295	300	0.54
300	305	0.59
305	310	0.72
310	315	0.50
315	320	0.63
320	325	0.44
325	330	0.24
330	335	0.31
335	340	0.39
340	345	0.27
345	350	0.27
350	355	0.22
355	360	0.41
360	365	0.29
365	370	0.39
370	375	0.29
375	380	0.36
380	385	0.48

Description

175-335': Diopside rock. 175-205, diopside rock with minor garnet, weak to moderate quartz vein material and minor epidote, weak oxides, moderate magnetite, pyrite, chalcopyrite, covellite. 205-230, garnet and diopside rock with strong white quartz vein material (note correlation of low grade with strong quartz). First 10 feet moderate diopside, moderate magnetite, moderate to weak pyrite, chalcopyrite, covellite, last 15 feet no diopside and some yellow clayey-looking material; weak magnetite, pyrite, chalcopyrite, weak oxides throughout. 230-265, diopside rock, moderate limonite 140-155, moderate to strong magnetite and very strong in last 5 feet, moderate to strong pyrite and chalcopyrite, weak covellite. 265-280, diopside rock with moderate quartz vein material, low grade; weak magnetite, pyrite, chalcopyrite. 280-335, diopside rock. Moderate magnetite and copper sulphides. Quartz vein material and weaker mineralization last 15 feet.

335-390': Garnetized limestone. Moderate diopside intermittently. Weak limonite and oxides last 25 feet. Weak magnetite, pyrite, chalcopyrite.

Hole No. C-48 - Cont'd -- 3

Depth (Ft.) From	To	Percent Total Copper
385	390	0.24
390	395	0.65
395	400	1.33
400	405	0.83
405	410	0.36
410	415	0.31
415	420	0.48
420	425	0.39
425	430	0.39
430	435	0.19
435	440	0.19
440	445	0.27
445	450	0,17

Description

390-450: Quartzite. 390-405, dark gray quartzite with strong chrysocolla and very strong limonite, strong magnetite, weak pyrite and chalcopyrite. 405-420, dark gray quartzite, weak magnetite, pyrite, chalcocite, weak oxides. 420-450, light tan quartzite, weak pyrite, chalcocite and oxides first 15 feet.

Ore Zones: 165-325, sulphide.
Heavy sulphide zone 275-320
with heaviest at 230-265
Heavy magnetite 390-405

Drill Hole C-49

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-49
Grid Location: E-4

Dia. of Hole: 0-215' - 10"
215-430' - 8"
430-510' - 7"
Collar elevation: 4395 feet
Total depth: 510 feet
Date drilled: Feb. 26- Mar. 7, 1957

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.15
15	20	0.17
20	25	0.19
25	30	0.44
30	35	1.28
35	40	0.39
40	45	0.66
45	50	0.59
50	55	0.39
55	60	0.27
60	65	0.17
65	70	0.07
70	75	0.10
75	80	0.22
80	85	0.12
85	90	0.17
90	95	0.17
95	100	0.10
100	105	0.19
105	110	0.24
110	115	0.34
115	120	0.29
120	125	0.36
125	130	0.29
130	135	0.44
135	140	0.17
140	145	0.10
145	150	0.10
150	155	0.15
155	160	0.15
160	165	0.12
165	170	0.10
170	175	0.10
175	180	0.31

Description

0-55': Marble and garnetized limestone. Minor vein quartz material. Minor grayish-yellow altered clay-like siltstone. 10-25, weak chrysocolla, jaspery cuprite, chalcopyrite. 25-55, moderate chrysocolla, jaspery cuprite, weak magnetite, chalcopyrite, strong jaspery cuprite 30-35.

55-240': Garnetized limestone and altered clay-like siltstone. 55-100, light gray altered, clay-like siltstone with black manganese speckles, minor garnet, minor gray-green siltstone, very minor vein quartz epidote, weak chrysocolla and magnetite. 100-135, garnetized limestone, moderate yellow quartz-calcite material, moderate limonite, weak chrysocolla, copper pitch, magnetite, pyrite, chalcopyrite. 135-175, gray-green, slightly altered siltstone, weak chrysocolla, weak pyrite and magnetite last 5 feet. 175-200, garnetized limestone, moderate vein quartz material, yellow calcite-clay material, and limonite. Weak chrysocolla and copper pitch, weak magnetite first 10 feet. Moderate magnetite, weak pyrite and chalcopyrite last 15 feet. 200-220, altered gray-green siltstone, possibly some diopside rock,

Hole No. C-49 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
180	185	0.31	weak magnetite, pyrite, and chalcopyrite. 220-240, garnetized limestone, minor diopside rock. Moderate quartz vein material. Weak to moderate magnetite, chalcocite and copper pitch. Weak pyrite and chalcopyrite.
185	190	0.68	
190	195	0.94	
195	200	0.63	
200	205	0.17	
205	210	0.19	
210	215	0.27	
215	220	0.39	
220	225	0.44	
225	230	0.85	
230	235	1.14	
235	240	0.94	
240	245	0.82	
245	250	1.12	240-500': Diopside rock. Dark green. Black siltstone-like 350-370 and 410-435. Some quartz vein material scattered throughout. 240-280, strong magnetite, moderate pyrite. Moderate total chalcopyrite and covellite. 280-305, strong to moderate magnetite. Weak total sulphides. 305-500, strong magnetite; moderate chalcopyrite, pyrite. Spotty covellite and chalcocite. All weaker 350-365 and last 55 feet.
250	255	0.61	
255	260	0.29	
260	265	0.82	
265	270	0.79	
270	275	0.82	
275	280	0.73	
280	285	0.39	
285	290	0.31	
290	295	0.39	
295	300	0.34	
300	305	0.29	
305	310	0.51	
310	315	0.54	
315	320	0.46	
320	325	0.78	
325	330	0.92	
330	335	0.72	
335	340	0.54	
340	345	0.54	
345	350	0.60	
350	355	0.39	
355	360	0.19	
360	365	0.12	
365	370	0.61	
370	375	0.82	
375	380	0.85	
380	385	0.59	
385	390	0.56	
390	395	0.63	
395	400	0.68	

Hole No. C-49 - Cont'd -- 3

Depth (Ft.) From	To	Percent Total Copper	Description
400	405	0.42	
405	410	0.78	
410	415	0.85	
415	420	1.19	
420	425	1.31	
425	430	0.82	
430	435	0.59	
435	440	0.42	
440	445	0.36	
445	450	0.49	
450	455	0.43	
455	460	0.36	
460	465	0.29	
465	470	0.27	
470	475	0.39	
475	480	0.39	
480	485	0.31	
485	490	0.36	
490	495	0.51	
495	500	0.42	
500	505	0.39	
505	510	0.29	500-510': Granite(?) Weak magnetite, sulphides.

Ore Zones: 25-55 Oxide; 185-200 oxide; 220-280 Sulphide; 305-435 (except 350-365) sulphide. No heavy sulphide zone.

Drill Hole C-50

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. C-50
Grid Location: K-4

Dia. of Hole: 0-370' - 10"
370-505' - 8"
Collar elevation: 4579
Total depth: 505 feet
Date drilled: Mar. 13-April 4, 1957

Depth (Ft.) From	To	Percent Total Copper
0	5	Overburden
5	10	Overburden
10	15	0.15
15	20	1.00
20	25	2.63
25	30	1.98
30	35	0.88
35	40	0.30
40	45	0.33
45	50	0.35
50	55	0.58
55	60	0.70
60	65	0.68
65	70	1.48
70	75	0.70
75	80	0.68
80	85	0.23
85	90	0.15
90	95	0.13
95	100	0.10
100	105	0.10
105	110	0.05
110	115	0.10
115	120	0.05
120	125	0.10
125	130	0.19
130	135	0.24
135	140	0.24
140	145	0.05
145	150	0.07
150	155	0.05
155	160	0.00
160	165	0.27
165	170	0.49
170	175	0.22
175	180	0.39
180	185	0.29
185	190	0.59
190	195	0.44
195	200	No sample (lost)

Description

0-275': Marble. 0-30, Marble. Moderately garnetized. Minor brown translucent calcite. Weak chrysocolla, pyrite, chalcopyrite, moderate covellite and copper pitch.
30-45, iron-rich gossan material, minor marble and garnet. May be fracture zone. Strong brown limonite, very weak magnetite and chalcopyrite, weak pyrite and copper pitch.
45-50, tan marble.
50-80, white marble, minor limonite, garnet, dark red jaspery cuprite. Weak chrysocolla, copper pitch. Weak to moderate covellite.
80-195, white marble. Locally minor gray-green siltstone, garnet, jaspery material, limonite and chrysocolla. Spotty very weak magnetite and sulphides.
195-235, Samples lost in crevice.
235-275, marble. Similar to 80-195. Moderate brown limonite 250-265. Moderate chrysocolla 250-275.

Hole No. C-50 - Cont'd -- 2

Depth (Ft.) From	To	Percent Total Copper	Description
200	205	0.49	
205	210	No sample (lost)	
210	215	No sample (lost)	
215	220	0.19	
220	225	0.22	
225	230	No sample (lost)	
230	235	No sample (lost)	
235	240	No sample (lost)	
240	245	No sample (lost)	
245	250	0.34	
250	255	0.44	
255	260	0.84	
260	265	0.71	
265	270	0.81	
270	275	0.49	275-360': Garnetized limestone and gray-green siltstone. Weak chrysocolla. Spotty, very weak magnetite, pyrite, chalcopyrite.
275	280	0.64	
280	285	0.52	
285	290	0.34	
290	295	0.17	
295	300	0.07	
300	305	0.29	
305	310	0.32	
310	315	0.15	
315	320	0.34	
320	325	0.20	
325	330	0.17	
330	335	0.00	
335	340	0.02	
340	345	0.05	
345	350	0.02	
350	355	0.03	
355	360	0.07	
360	365	0.37	360-460': Diopside rock. Mostly black siltstone-like variety. Minor gray-green siltstone. 360-425, moderate to strong magnetite and pyrite, moderate chalcopyrite. 425-460, weak magnetite, pyrite, chalcopyrite.
365	370	0.62	
370	375	0.76	
375	380	0.57	
380	385	0.84	
385	390	0.98	
390	395	0.84	
395	400	0.86	
400	405	0.64	
405	410	0.81	
410	415	0.79	

Hole No. C-50 - Cont'd -- 3

Depth (Ft.) From	To	Percent Total Copper	Description
415	420	0.70	
420	425	0.52	
425	430	0.24	
430	435	0.19	
435	440	0.24	
440	445	0.49	
445	450	0.42	
450	455	0.17	
455	460	0.44	460-505': Black quartzite. Weak magnetite, pyrite, chalcopyrite, oxides.
460	465	0.24	
465	470	0.27	
470	475	0.29	
475	480	0.19	
480	485	0.29	
485	490	0.17	
490	495	0.22	
495	500	0.19	
500	505	0.27	

Ore Zones: 15-80' mixed; 250-285' oxide; 365-425' sulphide.
Heavy sulphide zone 365-425'.

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-6
Grid Location: R-5

Collar Elevation: 4290 ft.
Total depth: 396 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined
0	10	60	1.84		
10	13	60	1.49		
13	19	54	0.78		
19	27	36	2.86		
27	37	34	1.51		
37	42	100	2.91	1.11	
42	47	85	2.20	1.11	
47	52	100	1.25	0.47	
52	57	32	1.09	0.47	
57	62	22	0.78		
62	67	77	0.35	0.43	
67	70	100	0.24	0.43	
70	72	100	1.13	0.43	
72	74	100	0.24	0.43	
74	80	25	0.14	0.90	
80	84	57	0.64	0.90	
84	87	57	1.54		
87	92	89	No sample		
92	96	89	1.84		
96	102	67	0.47		
102	107	60	0.38		
107	112	73	0.24		
112	122	84	0.12		
122	127	70	0.17		
127	129	75	0.45		
129	133	27	0.24		
133	137	31	0.66		
137	142	47	0.97		
142	147	53	0.99		
147	152	90	0.57		
152	157	7	No sample		
157	159	17		2.10	
159	167	42	0.71	2.10	
167	170	67	0.66	0.52	
170	177	95	0.45	0.52	
177	185	75	0.50	0.45	
185	187	33	0.57	0.45	
187	192	40		0.19	
192	197	50	0.04	0.19	
197	204	81	0.47		

Description

0-228', Garnetized limestone; 0-70', interbedded black siltstone; 0-96' weak chrysocolla; 170-228', moderate clay alteration; 197-228', moderate pyrite, weak chalcopyrite.

Hole No. D-6 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
204	212	88	0.85			
212	214	44	1.18	0.31		
214	220	100	0.83	0.33	0.57	
220	227	60	1.06			
227	237	71	0.87			228-312', Epidote rock;
237	242	25	0.99	1.25	1.21	moderate pyrite and chalcopyrite,
242	247	18	1.06	2.01	1.93	weak chrysocolla.
247	252	33	1.56	2.01	1.94	
252	257	68	1.25	0.73	0.90	
257	263	68	0.92			
263	272	39	1.32	0.57	0.71	
272	277	33	0.99	0.53	0.65	
277	282	22	0.61	0.31	0.34	
282	287	27	0.90			
287	292	50	0.66	0.31		
292	297	25		0.31		
297	301	50	1.37			
301	307	8	1.42			
307	312	7	1.18			
312	316		No sample			312-316', No core recovery
316	321	33	0.33	0.24	0.25	(fault zone).
321	327	33	0.05			316-396', Basement granite;
327	332	38	0.17	0.24		327-396', weak chloritization;
332	337	38	0.05			moderate pyrite.
337	342	20	0.12	0.19		
342	347	28	0.12	0.19		
347	350	50	0.19	0.26		
350	353	67	0.12	0.26		
353	357	31	0.07	0.21	0.19	
357	360	50	0.12	0.17	0.16	
360	367	71	0.14	0.12	0.13	
367	372	90	0.07	0.17	0.13	
372	377	70	0.09			
377	381	67	0.09			
381	384	10	0.04			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-7
Grid Location: N-5

Collar Elevation: 4535 ft.
Total depth: 566 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	21		0.61			0-167', Marble, veins and small masses of garnet; weakly disseminated pyrite, bornite, malachite and chrysocolla.
21	28		0.05			
28	38		0.12			
38	41		0.71			
41	45		0.09			
45	51		0.09			
51	56		0.52			
56	64		0.07			
64	71		0.59			
71	81		No sample	)		
81	90		0.92	)		
90	101		No sample	)		
101	106		1.35	)		
106	110		0.14	)		
110	116		0.85	)		
116	120		0.52	)	Recracked	
120	125		0.50	)		
125	134		No sample	)		
134	144		No sample	)		
144	154		No sample	)		
154	157		No sample	)		
157	172		No sample	)		
172	182		No sample	)		
Recracked						
70	80		1.13			
80	90		0.76			
90	100		0.64			
100	110		0.80			
110	120		0.78			
120	130		0.31			
130	140		0.31			
140	150		0.25			
150	160		0.31			
160	170		0.47			167-521', Garnetized limestone and epidote rock; 200-245', epidote rock, minor siltstone; 178-236', moderate pyrite;
170	180		0.43			
180	190		No sample			
190	200		No sample			

Hole No. D-7 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
200	210		0.28			178-209', weak malachite;
210	215		0.35			301-316', weak malachite.
215	230		0.83			Ore zones: 215-340', mixed.
230	240		0.38			No heavy sulfide zone.
240	250		0.35			
250	260		0.57			
260	270		1.18			
270	280		No sample			
280	290		0.31			
290	300		0.35			
300	310		0.52			
310	320		1.13			
320	330		0.85			
330	335		No sample			
335	340		0.64			
340	345		0.45			
345	350		0.31			
350	355		0.35			
355	360		0.19			
360	367		0.45			
Deflection to 268						
268	273		1.11			
273	280		1.16			
280	301		0.26			
301	303		0.31	0.45		
303	306		0.47	0.45		
306	310		0.59	0.56		
310	316		1.28	0.56		
316	322		1.46	0.44		
322	324		0.59	0.44		
324	326			0.44		
326	332		0.78	0.20		
332	337		0.50	0.78		
337	342		0.26	0.40		
342	345		0.33	0.94		
345	350			0.40		
350	356		0.59			
356	358		No sample			
358	364		0.69			

Hole D-7 Cont'd -- 3

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
364	366		No sample			
366	369		No sample			
369	376		0.26			
376	381		No sample			
381	385		No sample			
385	386		1.14			
386	391		No sample			
391	396		1.42			
396	401			0.59		
401	406		0.90	0.26		
406	413		No sample			
413	418		0.31	0.54		
418	426		0.24			
426	432			0.47		
432	436			0.47		
436	446			0.10		
446	449		0.24	0.26		
449	456			0.26		
456	466			0.62		
466	476			0.30		
476	486		0.57	0.47		
486	490		0.38	0.57		
490	496		0.35	0.57		
496	506		0.26	0.80		
506	516		0.21	0.31		
516	521		0.35	0.24		
521	526			0.24		520-543', basement granite; weak pyrite.
526	531		0.31			
531	536		0.43			
536	542		0.40			
542	543			0.38		
543	545			0.38		
545	556			No sample		
556	566			0.38		

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-8
Grid Location: M-4

Collar Elevation: 4576 ft.
Total Depth: 572 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	10		.21			0-148', Marble, some garnet and tremolite; 0-12', weak pyrite; 30-73', moderate pyrite and bornite; 105-142', weak pyrite.
10	13		.30			
13	18		.01			
18	25		.01			
25	30		.00			
30	35		.85			
35	38'5"		.35			
38'5"	44		.02			
44	54		.01			
54	58		.01			
58	61		.40			
61	65		.50			
65	73		.05			
73	81		.01			
81	83		.00			
83	90		.00			
90	93'6"		.00			
93'6"	94		.00			
94	98'6"		.00			
98'6"	102		.00			
102	105		.12			
105	108		.30			
108	115		.03			
115	125		.02			
125	135		.02			
135	138		.35			
138	142		.20			
142	146		.12			
146	148'5"		.00			
148'5"	151'5"		.00			148-160', Black siltstone.
151'5"	153		.00			
153	156		.00			
156	159		.00			
159	160'5"		.00			

Hole No. D-8 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
160'5"	161		.00			160-290', Garnetized limestone, weak clay alteration and siltstone; 199-216', moderate pyrite.
161	164		.00			
164	165		.00			
165	174		.00			
174	177		.05			
177	180		.12			
180	181		.21			
181	181'10"		.25			
181'10"	184'2"		.19			
184'2"	185		.08			
185	189		.07			
189	191'4"		.13			
191'4"	191'8"		.24			
191'8"	194		.25			Ore zone: 194-219' sulfide, no heavy sulfide zone.
194	199		.72			
199	204		1.51			
204	210		1.28			
210	215'6"		.25			
215'6"	219		.79			
219	224		.26			
224	232		.34			
232	236		.22			
236	241		.10			
241	245		.12			
245	250		.11			
250	255		.16			
255	258		.13			
258	264		.16			
264	270		.11			
270	274		.08			
274	279		.12			
279	282		.15			
282	285		.09			
285	290		.12			
290	293		.12			290-307', gray-green siltstone.
293	295		.08			
295	296		.09			
296	297		.09			
297	300		.10			
300	300'4"		.06			
300'4"	302		.06			
302	303		.06			

Hole No. D-8 - Cont'd -- 3

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
303	305		.08			
305	307		.12			
307	310		.78			307-323', Altered garnetized limestone and gray siltstone; weak pyrite.
310	314		.98			
314	315		.88			
315	316		.87			Ore zone: 307-350' sulfide. No heavy sulfide zone.
316	317'8"		1.21			
317'8"	319		.54			
319	320'6"		.09			
320'6"	322		.10			
322	323		.42			
323	325		.86			323-445', Gray siltstone, some clay alteration; 323-327' weak pyrite.
325	327		1.00			
327	331		1.19	0.52		
331	340		1.25	0.52		
340	350		.66			
350	360		.15	0.24		
360	370		.14	0.57		
370	378		.23	0.26		
378	385		.39	0.26		
385	395		.49			
395	396		.71			
396	405		.87			
405	415		.42	0.47		
415	425		.37	0.38		
425	435			0.24		
						445-515', white quartzite; 515-572', basement granite; 515-558', weak pyrite.

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-9
Grid Location: F-4

Collar Elevation: 4444 ft.
Total Depth: 565 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined
0	7		.48		
7	10		.30		
10	15		.30		
15	16		.25		
16	23.3		.25		
23.3	26.5		.02		
26.5	30		.02		
30	35		.00		
35	40		.00		
40	46		.00		
46	51		.00		
51	55		No sample		
55	57		.01		
57	61		.43		
61	65		.65		
65	70		.23		
70	75		.28		
75	85		.12		
85	95		.02		
95	103'5"		.00		
103'5"	110		.35		
110	112		.02		
112	115		.03		
115	118		.05		
118	122		.00		
122	125		.05		
125	128		.15		
128	133		.02		
133	135		.15		
135	140		.32		
140	143		.32		
143	145		.00		
145	149.5		.12		
149.5	152		.10		
152	155		.25		
155	162.5		.28		
162.5	164.3		.25		
164.3	167		.15		

Description

0-415', Garnetized limestone; 85-204', moderate clay alteration; 116-152', weak pyrite.

Hole No. D-9 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
167	174		.05			
174	176		.10			
176	179'5"		.00			
179'5"	185		.00			
185	187		.00			
187	190		.00			
190	195		.15	.19		
195	197'5"		.02			
197'5"	200'5"		.03			
200'5"	202'6"		.02			
202'6"	204		.16			
204	209		.50			
209	211'3"		.02			
211'3"	215		.01			
215	219		.00			
219	222		No sample			
222	226'5"		.02			
226'5"	232		.02			
232	235		.19			
235	240		.15			
240	245		.15			
245	250		1.15			
250	256		.21			
256	265		.26			
265	270		.14	.33		
270	275		.25	.33		
275	285		.30	.52		
285	295		.80			
295	305		.60	.28		Ore zone: 295-375' oxide.
305	312		.25			No heavy sulfide zone.
312	318		.10			
318	323		.85			
323	333		.72			
333	335		.42			
335	345		.87	.66		
345	350		.66			
350	355		.24			
355	365		.70			
365	375		.63			
375	385		.43			

Hole No. D-9 - Cont'd -- 3

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
385	395		.41			
395	405		.41			
405	415		.42			
415	425		.27			415-535', Gray-green siltstone and gray siltstone cut by quartz veins; 415-465', moderate pyrite.
425	435		.40			
435	445		.67			
445	455		.34	.76		
455	465		.12			
465	473		.11			
473	483		.39	.94		
483	485			.94		
485	495		.35			
495	505		.45	1.18		
505	515		.30			
515	520		.27			
520	525		.14			
525	531		.15	.69		
531	535		.35	.69		
535	545		.15			535-545', Fault zone; chlorite gouge; 541-545', moderate pyrite, strong chalcopyrite.
545	555		.00	.80		
555	565			.87		545-565', Basement granite.

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. D-10
Grid Location: C-6

Collar Elevation: 4386 Ft.
Total Depth: 553 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	5		.20			0-50', No core recovery(?)
5	10		.21			
10	15		.22			
15	20		.19			
20	25		.04			
25	30		.25			
30	35		.21			
35	40		.20			
40	45		.29			
45	50		.34			
50	60		No sample			50-345', Garnetized limestone and interbedded gray-green siltstone; 60-285', moderate clay alteration; weak pyrite; 155-175', moderate epidote alteration.
60	65		.00			
65	75		.00	.17		
75	85		.00			
85	95		.00			
95	105		.10			
105	115		.18			
115	125		.30			
125	135		.18			
135	145		.00			
145	155		.31			
155	165		.01			
165	175		.52			
175	185		.25			
185	195		.63			
195	205		.60			
205	215		.45	.33		
215	225		.38	.17		
225	235		.00	.21		
235	245		.00	.17		
245	255		.60	.35		
255	265		.65	.38		
265	275		.22			
275	285		No sample			
285	295		.20			
295	305		.24			

Hole No. D-10 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
305	315		.03			
315	325		.26			
325	335		.02			
335	345		.20			
345	355		.05			345-395', Epidote rock with garnet; weak pyrite.
355	365		.00			
365	375		.05			
375	385		.42			
385	395		No sample			
395	405		.00			395-525', Gray-green siltstone, fault zone in last 5 ft.
405	415		.50			
415	435		.05	.61		
435	445			.57		
445	455		.02			
455	465		.19			
465	475		.18			
475	485		.18			
485	495		.35			
495	505		.05			
505	515		No sample			
515	525		.00			
525	530		.00			525-553', Basement granite.
530	540		.00			
540	550		.00	.26		
550	553		.00	.35		

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-11
Grid Location: D-7

Collar Elevation: 4380 ft.
Total depth: 650 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	13		1.20			0-217', Garnetized limestone; 30-35' and 134-140', marble, 60-70' gray-green siltstone; 154-164', garnetized limestone and quartz veins; 70-94' and 116-132' strong clay alteration; 154-217', moderate clay alteration; 0-30', moderate chrysocolla; 56-94' moderate chalcopyrite.
13	16		0.05			
16	19		0.55			
19	23		0.74			
23	27		0.08			
27	30		0.70			
30	36		1.20			
36	40		0.10			
40	50		0.42	0.20		
50	60		0.20			
60	70		0.18			
70	71		0.20			
71	76		0.12			
76	86		0.75			
86	94		0.32	0.24		
94	97		0.21			
97	104		0.21			
104	113		0.52			
113	115		0.02			
115	124		0.00			
124	127		0.00			
127	132		0.00			
132	145		0.91			
145	147		No sample			
147	149		No sample			
149	154		No sample			
154	159		0.39			
159	164		No sample			
164	168		0.02			
168	178		0.00	0.31		
178	186		0.00	0.19		
186	194		0.15	0.17		
194	204		0.38	0.26		
204	208		0.10	0.21		
208	214		0.12	0.21		
214	217		0.12	0.19		
217	224		0.13	0.19		217-274', White to pale green silicated limestone, strong clay alteration.
224	234		0.04	0.19		
234	245		0.02	0.19		
245	255		0.05			
255	261		0.05	0.19		
261	267	100	0.57	0.45	0.51	

Hole No. D-11 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
267	274	80	0.25	0.45	0.37	
274	280	56	0.20	0.35	0.31	274-319', Garnetized limestone;
280	289	71	0.10	0.28	0.22	weak pyrite.
289	299	69	0.04	0.38	0.27	
299	309	66	0.65	0.35	0.45	
309	319	33	0.70	0.45	0.49	
319	329	69		0.47		319-534', Epidote rock; moderate
329	339	69	0.40			pyrite.
339	349	60		0.33		
349	359	60		0.45		
359	369	53	0.10	0.45	0.36	
369	379	20	0.05			
379	389	12	0.18			
389	399	7	0.04	0.38	0.37	
399	409	10	0.45	0.43	0.43	
409	419	12	0.71	0.40	0.42	
419	429	7	0.41	0.40	0.42	
429	449	7	0.41	0.43	0.42	
449	459	7		0.43		
459	469	30	0.00	0.35	0.30	
469	479	10	0.23	0.35	0.34	
479	484	15	0.15	0.40	0.37	
484	489	15	0.15	0.38	0.37	
489	494	7	0.23	0.38	0.37	
494	499	7	0.10	0.40	0.39	
499	504	7	0.10	0.40	0.39	
504	514	15	0.18	0.38	0.37	
514	524	22	0.52	0.35	0.37	
524	534	35	0.28	0.54	0.48	
534	544	15		0.14		534-544', Siltstone, clay gouge
544	552	18		0.45		fault zone; weak pyrite
552	562	40	0.22	0.40	0.37	and chalcopyrite.
562	569	94	0.00	0.31	0.21	
569	577	100	0.00	0.33	0.21	544-650', basement granite.
577	587	37	No sample			
587	592	62	0.00			
592	599	30	0.00	0.19	0.12	
599	604	100	0.00	0.14	0.09	
604	613	19	0.00	0.26	0.24	
613	618	40		0.26		
618	625	94	0.00	0.17	0.06	
625	630	25	0.00	0.12	0.11	
630	634	77		0.12		
634	644	45	0.00			
644	650	84	0.00	0.17	0.12	

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-12
Grid location: D-9

Collar Elevation: 4342 ft.
Total depth: 426 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	18	0		0.38		0-46', Garnetized limestone; 36-46', weak malachite; 26-46', weak pyrite and chalcopyrite.
18	26	33	0.03	0.24	0.20	
26	31	45	0.00	0.17	0.13	
31	36	95	0.00			
36	38	75	0.00			26-66', Gray-green siltstone.
38	44	76	0.58			
44	46	87	0.50			
46	51	30	1.40	0.28	0.44	
51	56	25	0.02	0.26	0.23	
56	61	40	0.03	0.33	0.27	
61	66	45	0.02	0.21	0.17	
66	71	75	0.38	0.31	0.34	66-101', Garnetized limestone, moderate clay alteration; 90-101', weak pyrite and chalcopyrite.
71	76	60	0.00	0.12	0.09	
76	86	85	0.00	0.12	0.07	
86	96	35	0.00	0.04	0.03	
96	101	100	0.02	0.38	0.21	
101	106	55	0.40	0.87	0.75	101-392', Epidote rock; 341-382', quartz veins; 101-246', weak pyrite; 101-392', weak chalcopyrite.
106	112	88	0.31	0.31	0.31	
112	122	42	0.05	0.40	0.33	
122	127	80	0.02	0.17	0.11	
127	132	85	0.01	0.00	0.04	
132	137	100	0.01	0.00	0.05	
137	142	100	0.03	0.28	0.16	
142	147	80	0.02	0.30	0.19	
147	152	100	0.02	0.35	0.19	
152	157	100	0.01	0.26	0.14	
157	162	95	0.00	0.50	0.27	
162	167	80	0.00	0.50	0.31	
167	172	100	0.00	0.38	0.20	
172	177	70	0.00	0.38	0.25	
177	182	95	0.25	0.54	0.41	
182	187	85	0.25	0.54	0.42	
187	192	95	0.02	0.31	0.18	
192	197	100	0.00	0.31	0.17	
197	202	90	0.20	0.31	0.26	
202	207	95	0.02	0.31	0.18	
207	212	85	0.00	0.47	0.28	
212	217	25	0.10	0.26	0.24	
217	222	40	0.10	0.33	0.29	
222	227)	5	0.50	0.33)	0.45	
227	232)		0.50	0.57)		

Hole No. D-12 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
232	237	20	0.40	0.47	0.46	
237	241			0.45		
241	246	5	0.20	0.31	0.31	
246	251			0.64		
251	256	5	0.66	0.35	0.36	
256	261			0.28		
261	266	15	0.36	0.40	0.40	
266	271	15	0.48	0.21	0.23	
271	276	25	0.36	0.35	0.35	
276	279	58	0.18	0.47	0.40	
279	284	95	0.40	0.33	0.36	
284	289	20	0.20	0.38	0.36	
289	294	10	0.04	0.35	0.34	
294	299	15	0.44	0.31	0.32	
299	301	50	0.22	0.35	0.33	
301	302	100	0.04	0.35	0.24	
302	305	81	0.44	0.35	0.38	
305	310	74	0.70	0.52	0.57	
310	315	76	0.36	0.38	0.37	
315	320	87	0.44	0.24	0.30	
320	325	40	0.00	0.35	0.30	
325	328	60	0.00	0.19		
328	331	91	0.00	0.19		
331	336	55	0.00	0.28		
336	341	30	0.00	0.45		
341	346	10	0.00	0.24		
346	351		0.00			
351	356	20	0.00	0.35		
356	361	15	0.00	0.33		
361	366			0.31		
366	369	16	0.20	0.28		
369	372	25	0.26	0.28		
372	377	5	0.90	0.28		
377	382		No sample			
382	387	5	0.20	0.80		
387	392	5	0.30	0.24		
392	396	43	0.00	0.17		392-426', Basement granite.
396	402	100	0.00	0.07		
402	405	41	0.00	0.05		
405	408	18	0.00	0.05		
408	416	27	0.00			
416	426	12	0.00			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. D-13
Grid location: F-2

Collar Elevation: 4365 ft.
Total depth: 335 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	2	40	0.94			0-200', Garnetized limestone, moderate clay alteration; 0-74' and 170-190', weak chalcopyrite.
2	4	40	0.99			
4	7	40	0.62			
7	10	100	0.54			
10	17	09	0.88			Ore zone: 0-200', oxide. No heavy sulfide zone.
17	20	50	1.17			
20	30	48	0.97			
30	40	73	1.21			
40	45	45	0.49			
45	50	50	0.54			
50	55	52	0.89			
55	60	88	0.89			
60	65	40	1.13			
65	74	40	0.64			
74	84	47	0.56			
84	89	60	0.31			
89	95	50	0.85			
95	105	35	0.31			
105	114	51	0.40			
114	115	75	0.19			
115	125	56	0.12			
125	135	28	0.73			
135	145	83	0.42			
145	155	46	0.30			
155	160	60	0.31			
160	170	90	0.97			
170	180	30	0.80			
180	190	36	0.24			
190	200	50	0.35			
200	210	20	0.59			200-305', Epidote rock; 200-230', interbedded black siltstone.
210	220	36	0.64			
220	230	15	0.92			
230	233	66	1.30			Ore zone: 200-275' sulfide. No heavy sulfide zone.
233	240	12	1.41			
240	244	100	0.87			
244	255	40	0.95			
255	257	100	0.75			
257	265	75	0.40			
265	275	34	0.80			
275	295	10	0.33			
295	305	20	0.42			
305	315	20	0.33			305-335', Basement granite.
315	325	30	0.19			
325	335	28	0.40			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. D-14
Grid Location: K-11

Collar Elevation: 4272 ft.
Total depth: 326 ft.

Depth (Ft.) From	To	% Core Rec.	% total Copper Core	Sludge	Combined	Description
0	17)					0-149', Altered limestone, alternating zones of marble, pale tan to green lime silicate and garnetized limestone. Weakly disseminated malachite and copper sulfides.
17	18)					
10	19)	46	0.24	0.07		
19	22)			0.07		
22	24	100	No sample			
24	28	87	0.35			
28	30	100	0.45			
30	35	85	No sample			
35	45	7	No sample			
45	55	7	No sample			
55	58	100	No sample			
58	75	42	0.45			
75	85	56	0.35			
85	95	100		0.26		
95	99	100		0.31		
99	109	100	0.57			
109	117	100	No sample			
117	124	63		0.17		
124	129	85	No sample			
129	133	100	0.05	0.21		
133	138)			0.21		
138	140)	84		0.17		
140	146	60		0.17		
146	147	100	0.19	0.17		
147	156	80	0.35	0.19		149-298', Marbleized limestone, local garnet veins; 209-229', weak molybdenite; 285-294', strong chalcopyrite.
156	165	100	0.38	0.21		
165	174	100	0.24			
174	184	100		0.21		
184	192	100		0.31		
192	201	93	No sample			
201	209			0.47		
209	219			0.43		
219	229			0.19		
229	235		0.17	0.26		
235	239		0.31			
239	247		0.17			
247	252		No sample			
252	255		No sample			
255	261		0.28			
261	270			0.31		
270	274			0.31		
274	276		No sample			

Hole No. D-14 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% total Copper Core	Sludge	Combined	Description
276	280		No sample			
280	285		0.52			
285	294		0.83	1.09		
294	296		0.41			
296	298		0.41			
298	304		0.09			298-304', Brecciated zone, fault contact with granite.
304	314		0.03			
314	322		No sample			
322	324		0.05			304-326', Basement granite.
324	326		0.02			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-15
Grid location: JJ-12

Collar elevation: 4391 ft.
Total Depth: 270 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	5		0.81	0.64	.73	0-47', Garnetized limestone,
5	7		0.81	0.64	.73	moderate clay alteration;
7	10		0.98	0.64	.78	moderate pyrite and chalco-
10	15		0.65	0.48*	.55	pyrite.
15	20		0.26	0.71	.56	Ore zone: 0-112' sulfide.
20	25		0.12	0.71	.40	
25	30		0.15	0.24	.22	
30	35		0.42	0.24	.30	
35	38		0.30	0.13	.20	
38	43		0.22	0.18	.41	
43	47		0.22	0.50	.41	
47	51		0.30	0.50	.41	47-120', Highly mineralized
51	55		5.20	5.03	5.06	garnetized limestone and
55	63		3.80	1.35	1.46	diopside rock; very strong
63	70		1.10	0.80	.85	chalcopyrite and bornite,
70	72		0.60	1.11	.99	moderate pyrite, strong
72	77		3.96	1.11	1.73	magnetite.
77	82		2.50	1.80	1.95	Ore zone: 47-120' heavy sulfide.
82	85		1.80	0.54	.74	
85	88		2.30	0.54	1.10	
88	90		0.50	0.54	.53	
90	95		0.36	0.45	.42	
95	100		0.84	0.45	.57	
100	105		1.70	0.59	1.02	
105	112		0.52	0.59	.56	
112	120		0.10	0.40	.33	
120	125		0.44	0.27	.29	120-195', Monzonite; 186-190'.
125	129		0.24	0.35	.31	diopside rock; 170-175', no
129	132		0.36	0.19	.23	core; 186-190', moderate
132	135		0.10	0.64	.53	pyrite; 145-170', weak pyrite
135	137		0.00	0.64	.44	and bornite.
137	145		0.04	0.07	.07	

*Missing sludge assays estimated from assay average difference.

Hole No. D-15 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
145	148		0.10	0.07	.08	
148	155		0.10	0.07	.08	
155	158		0.04	0.33	.20	
158	165		0.10	0.33	.30	
165	170		0.06	0.00	.01	
170	175		No sample			Ore zone: 170-235', sulfide.
175	180		0.20	0.12	.15	
180	185		0.20	0.12	.15	
185	190		0.10	0.00	.02	
190	195		0.44	0.40	.41	
195	200		0.57	0.40	.40	195-200', No core recovery, fault contact.
200	203		0.20	0.40	.37	200-235', Diopside rock; moderate chalcopyrite; 210-228', very finely disseminated sulfides.
203	210		0.16	0.43	.34	
210	216		0.90	0.38	.60	
216	225		1.32	1.99	1.81	
225	228		1.20	1.02	1.09	
228	230		1.00	1.02	1.01	
230	235		0.96	1.02	1.00	
235	238		0.10	0.00		235-265', Monzonite.
238	241		0.04	0.00		
241	245		0.04	0.00		
245	248		0.04	0.40	.23	
248	251		0.04	0.40	.27	
251	255		0.00	0.17	.14	
255	263		No sample			
263	265		0.02	0.00		
265	270		0.38	0.21		

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine - Pima County, Arizona
Hole No. D-16
Grid Location: K-2

Collar Elevation: 4477 Ft.
Total depth: 261 ft.

Depth (Ft.) From	To	% Core Rec.	% total Copper Core	Sludge	Combined	Description
0	13	65	0.60		0-59',	Garnetized limestone, slight clay alteration; weak chrysocolla,
13	14	100	1.00			
14	19	26	0.36			
19	22	66	0.40			
22	29	14	0.26		Ore zone:	Oxide.
29	39	37	0.44			
39	49	20	0.90			
49	59	13	0.84			
59	69	52	1.92		59-109',	Epidote rock. Strong pyrite and chalcopyrite.
69	74	65	0.92			
74	79	56	1.96			
79	84	46	0.84		Ore Zone:	Heavy sulfide.
84	89	22	0.72			
89	98	16	0.48			
98	99	100	1.44			
99	109	17	0.76			
109	114	30	1.76		109-204',	Garnetized limestone and interbedded siltstone, strong clay alteration of limestone; 109-139', weak pyrite, chrysocolla, and malachite; 166-219', very weak chalcopyrite; 109-154', ore zone, mixed.
114	119	20	1.90			
119	124	42	1.08			
124	125	75	2.10			
125	129	20	1.24			
129	134	22	1.06			
134	139	11	1.06			
139	144	62	0.86			
144	154	60	0.64			
154	157		0.20			
157	159		0.00			
159	164		0.36			
164	166		0.36			
166	169		0.38			
169	172		0.40			
172	175		0.04			
175	179		No sample			
179	184		0.14			
184	189		0.30			
189	194		0.00			
194	199		0.40			
199	204		0.12			

Hole No. D-16 -- Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% total Copper Core	Sludge	Combined	Description
204	209		0.04			204-224', Gray siltstone.
209	214		0.20			
214	219		1.86			
219	224		0.60			
224	229		0.04			224-261', Gray quartzite; 229-255', very weak malachite and chalcopyrite.
229	231		0.10			
231	232		0.15			
232	237		0.17			
237	241		0.15			
241	245		0.15			
245	246		0.12			
246	248		0.41			
248	252		0.25			
252	258		0.23			
258	261		0.20			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-17
Grid location: KK-12

Collar elevation: 4315 ft.
Total Depth: 295 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	11		1.10	1.11	1.11	0-130', Altered limestone alternating with zones of monzonite; 25-30', gouge, fault between monzonite and limestone; 75-130', quartz veins cutting limestone; 0-45', weak chalcopyrite; 55-130', moderate chalcopyrite and magnetite. Ore zone: 0-130' sulfide; heavy sulfide zone: 55-130'.
11	15		0.20	0.59	.55	
15	19		1.06	1.07	1.07	
19	25		0.30	0.31	.37	
25	33		1.00	0.87	.88	
33	35		0.24	1.09	.93	
35	40		1.18	1.19	1.19	
40	45		0.24	0.25	.25	
45	50		0.62	0.05	.13	
50	55		0.00	0.05	.05	
55	60		0.10	0.11	.11	
60	65		0.42	0.26	.33	
65	69		0.64	0.59	.60	
69	75		0.44	0.59	.58	
75	80		0.36	0.73	.55	
80	85		1.12	0.73	.92	
85	95		0.70	0.83	.79	
95	100		0.30	1.28	1.02	
100	105		0.92	1.28	1.19	
105	110		0.50	0.51	.51	
110	115		0.32	1.18	.89	
115	120		0.30	0.83	.66	
120	125		0.40	0.83	.65	
125	130		0.44	0.38	.40	130-135', Diopside rock; moderate chalcopyrite and magnetite.
130	135		0.22	0.38	.36	
135	140		0.24	0.31	.30	135-240', Monzonite; 135-210', weak pyrite; 210-291', weak magnetite.
140	145		0.00	0.31	.24	
145	150			0.17		
150	155		0.00	0.17	.16	
155	160		0.10	0.38	.35	
160	165		0.10	0.38	.37	
165	170		0.22	0.24	.24	
170	175		0.20	0.24	.24	
175	180		0.00	0.14	.12	
180	185			0.14		

Hole No. D-17 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
185	190		0.00	0.17	.16	
190	195		0.00	0.17	.16	
195	200		0.00	0.24	.21	
200	205		0.00	0.24	.20	
205	210		0.00	0.17	.15	
210	215		0.00	0.17	.15	
215	220		0.00	0.17	.15	
220	225		0.00	0.17	.15	
225	235		0.00	0.19	.18	
235	240		0.00	0.25	.23	
240	245		0.00	0.17	.16	240-245', Red fault gouge and
245	250		0.00	0.24	.17	breccia.
250	255		0.00	0.24	.15	245-296', Dark, coarse-grained,
255	258		0.00	0.21	.11	porphyritic basement granite.
258	260		0.00	0.21	.16	
260	265		0.00	0.21	.17	
265	270					
270	278		0.00	0.38	.20	
278	285		0.00	0.07	.04	
285	287		0.00	0.12	.06	
287	291		0.00	0.12	.11	
291	296			0.12		

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-19
Grid location: JJ-11

Collar elevation: 4382 ft.
Total Depth: 370 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	7					
7	12		0.80	0.71	.73	0-108', Garnetized limestone
12	13		0.56	0.47	.49	in part altered and cut by
13	15		0.44	0.35	.36	steeply dipping quartz veins;
15	20		1.64	0.83	.95	7-20', moderate diopside;
20	25		1.32	0.83	.94	40-50', clay and moderate
25	30		1.22	0.83	.94	diopside; 80-90', moderate
30	35		0.30	0.83	.73	diopside; 0-108', moderate
35	40		0.80	0.80	.85	chalcopyrite and magnetite.
40	45		0.89	0.80	.81	Ore zone: 7-205' sulfide -
45	50		0.34	0.25	.29	no heavy sulfide zone.
50	55		0.40	0.64	.52	
55	60		0.30	0.64	.48	
60	65		0.50	0.61	.56	
65	70		0.54	0.61	.58	
70	75		0.52	0.43	.47	
75	80		0.70	0.43	.56	
80	85		0.90	0.43	.66	
85	90		0.36	0.27	.31	
90	92		0.44	0.35	.39	
92	98		0.40	0.54	.49	
98	103		0.82	0.73	.77	
103	110		1.30	0.73	.98	108-223', Diopside rock;
110	115		0.24	0.78	.66	115-152', local garnet; moderate
115	120		2.00	0.78	1.37	chalcopyrite and magnetite.
120	125		0.56	0.66	.64	
125	131		0.16	0.28	.23	
131	136		0.60			
136	138		0.60	0.43	.50	
138	145		0.30	0.20	.24	
145	150		2.06	1.97	1.99	
150	152		0.60	0.66	.64	
152	155		0.64	0.66	.65	
155	157		0.64			

Hole No. D-19 Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
157	165		1.30	0.73	.82	
165	168		0.46	0.37	.40	
168	171		0.66	0.57	.61	
171	173		0.40	0.31	.33	
173	175		No sample			
175	180		0.30	0.59	.51	
180	185		0.68	0.59	.62	
185	190		0.46	0.37	.40	
190	195		1.10	1.01	1.05	
195	200		1.14	0.66	.78	
200	205		0.62	0.66	.65	
205	210		0.38	0.35	.38	
210	215		0.50	0.35	.42	
215	220			0.31		
220	225			0.31		223-256', Monzonite, kaolinized throughout.
225	230		0.30			
230	235		0.20			
235	238		0.10			
238	240		0.14			
240	242		0.07			
242	245		0.05			
245	250		0.05	0.17	.15	
250	255		0.02	0.17	.14	
255	256		0.02			
256	258		0.05			256-340', Diopside rock; 320-340', garnetized limestone beds; 330-340', garnetized limestone with deep red color.
258	261		0.26			
261	265		0.26			
265	270		0.33			
270	271		0.07	0.31	.22	
271	277		0.09	0.31	.24	
277	280		0.61	0.31	.44	
280	284		0.61	0.50	.44	
284	290		0.07	0.50	.38	
290	295		0.07	0.35	.31	
295	300		0.09	0.35	.28	
300	305		0.24	0.28	.28	
305	310		0.59			
310	315		0.05			
315	320		0.12	0.38	.37	
320	325		0.26	0.38	.36	
325	330		0.21	0.26	.25	
330	335		0.24	0.26	.26	
335	340		0.07	0.26	.25	
340	345			0.26		340-370', Basement granite.
345	350		0.09	0.17	.16	
350	360		0.07	0.17	.17	
360	370		0.02	0.21	.20	

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Arizona
Hole No. D-22
Grid Location: P-7

Dia. of hole: 0'- 38' - NX
38' -380'- BX
380'- 486'- AX
Collar Elevation: 4449 ft.
Total Depth: 486 ft.

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
0	10		0.05			0- 98', Marble, minor garnet alteration; 0-25', weak chrysocolla; 34-50', weak chrysocolla; 86-98', weak chrysocolla, malachite, copper pitch, black copper oxides, chalcopyrite in veinlets last 4 feet.
10	12		0.24	0.21		
12	13		0.38	0.21		
13	16		0.50	0.21		
16	20		0.31	0.21		
20	21		0.90	0.24		
21	25		0.35	0.24		
25	28		0.17	0.24		
28	30		0.35	0.24		
30	38		0.64			
38	40		0.28			
40	45		0.21	0.28		
45	49		0.19			
49	52		0.07			
52	57		0.07			
57	58		0.26			
58	63		0.17			
63	70		0.21			Ore zone: 86-170' mixed. No heavy sulfide zone.
70	79		0.24			
79	86		0.38			
86	95		0.57			98-371', Altered limestone, minor marble; 98-104' garnetized limestone, yellow and red translucent garnet, weak clay alteration, minor marble, porous, vuggy. Moderate chrysocolla, malachite, copper pitch, black copper oxide and chalcopyrite; 104-115', garnetized limestone, strong limonite and hematite alteration, very porous limonite sponge in much of section, strong pyrite and chalcopyrite; 115-174', white lime silicate, garnet and marble, weak chrysocolla, brown and black copper oxides, chalcopyrite, pyrite, bornite; 174-371', garnetized limestone, light tan garnet,
95	101		0.97			
101	108		0.76			
108	112		2.87			
112	113		0.43			
113	117		1.32			
117	122		0.38			
122	126		0.45			
126	130		0.73			
130	135		0.99	0.78		
135	137		1.02	0.78		
137	140		0.85	0.78		
140	150		0.87	0.64		
150	160		0.97	0.73		
160	170		0.43	0.78		
170	180		0.19	0.17		
180	190		0.32	0.26		
190	200		0.19	0.19		
200	210		0.26	0.38		
210	220		0.24	0.17		
220	230		0.24	0.17		

Hole No. D-22 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% Total Copper Core	Sludge	Combined	Description
230	240		0.40	0.24		moderate clay alteration
240	250		0.14	0.14		Siltstone 194-199', 206-210',
250	260		0.14	0.19		223-225', 241-242', 245-246',
260	270		0.12	0.12		251-265', 328-330'; weak
270	280		0.12	0.17		chrysocolla and pyrite.
280	290		0.09	0.12		
290	300		0.07			
300	310		0.12			
310	320		0.12			
320	330		0.07			
330	340		0.07			
340	350		0.07			
350	360		0.07			
360	370		0.05			
370	375		0.61			371-376', Fault zone; brecciated al-
375	380		0.61			tered lime and quartzite;
380	390		0.31			moderate pyrite and mag-
390	400		No sample			netite.
400	410		0.35			
410	420		0.28	0.31		376-460', Quartzite; white quartzite;
420	430		0.38			disseminated weak pyrite
430	440			0.35		and chalcopyrite.
440	450			0.24		
450	460			0.21		460-476', Fault zone; brecciated
460	470			0.40		quartzite, altered granite;
470	480			0.19		chlorite material 1/2 inch
480	486			0.17		chalcopyrite vein at 463 ft.
						467-486', Granite; strong chlorite
						alteration. Disseminated
						weak pyrite and chalcopyrite.

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-23
Grid location: N-2

Collar elevation: 4439 ft.
Total depth: 315 ft.

Depth (Ft.) From	To	% Core Rec.	% total Copper Core	Sludge	Combined	Description
0	10	10	1.16	1.18	1.18	0-23', Garnetized limestone, strong epidote alteration; 10-15', chlorite schist (probably a fault zone); moderate malachite, bornite, weak azurite.
10	20	19	2.79	2.81	2.81	
20	30	17	0.12	0.14	0.14	
30	31	100	0.17	0.54	0.36	
31	35	27	0.73	0.54	0.56	
35	40	28	1.25	0.73	0.80	
40	45	38	No sample			Ore zone: 0-92' oxide.
45	50	15	0.83	0.85	0.85	
50	55	20	0.97	0.99	0.99	23-35', Gray-green siltstone; 30-35', moderate malachite.
55	60	51	1.06	1.08	1.08	
60	62	100	0.43	0.90	0.67	
62	66	25	0.83	0.90	0.89	45-130', Siltstone, gray to black, 45-75', gray siltstone; 75-90', gray-green and black siltstone; 90-130', black siltstone and epidote rock, chlorite schist at 160 feet (possibly fault); 62-70', moderate malachite, weak chalcopyrite and chalcocite; 83-85', weak malachite and chalcopyrite; 92-130', strong pyrite and chalcopyrite.
66	70	46	1.11	0.90	0.95	
70	75	55	0.80	0.95	0.91	
75	80	40	0.71	0.95	0.82	
80	83	70	0.78	0.76	0.76	
83	85	95	0.85	0.76	0.80	
85	90	22	0.95	0.76	0.78	
90	92	100	0.61	1.04	0.83	
92	95	95	0.87	1.04	0.96	
95	100	70	0.97	1.04	1.01	
100	105	60	0.99	0.99	0.99	
105	110	80	0.80	0.99	0.91	
110	115	40	0.76	1.09	1.02	
115	120	83	0.31	1.09	0.65	
120	125	100	0.19	0.69	0.43	Ore zone: 92-140', Sulfide. Heavy sulfide zone.
125	130	92	0.64	0.66	0.65	
130	135	55	1.09	1.11	1.10	
135	140	82	0.83	0.69	0.74	130-145', Chlorite schist (possibly fault zone); moderate pyrite and chalcopyrite.
140	145	88	0.40	0.69	0.57	
145	150	60	0.59	0.52	0.54	
150	155	40	0.31	0.52	0.48	
155	160	40	0.24	0.26	0.26	145-226", Garnetized limestone, strong clay alteration; 220-226', strongly altered, schistose, dark colored; strong pyrite and chalcopyrite.
160	165	35	0.43	0.26	0.29	
165	170	67	0.35	0.40	0.38	
170	175	80	0.26	0.40	0.35	
175	180	80	0.50	0.24	0.34	
180	185	60	0.26	0.24	0.24	

Hole No. D-23 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% total copper Core	Sludge	Combined	Description
185	190	26	0.28	0.19	0.20	
190	195	24	0.35	0.19	0.20	
195	200	35	0.24	0.14	0.16	
200	204	55	0.64	0.14	0.27	Ore zone: 200-240' sulfide.
204	205	100	0.85			
205	210	27	0.54	0.19	0.23	
210	214	28	0.38	0.19	0.21	
214	220	62	1.61	0.12	0.56	
220	225	70	1.37	0.12	0.54	
225	230	40	1.44	1.13	1.19	226-315', White quartzite; 236-240',
230	235	45	0.21	1.13	0.88	moderate malachite.
235	236	100	0.23	0.78	0.45	
236	240	37	0.64	0.78	0.75	
240	242	40	0.28	0.78		
242	245	66	0.38	0.78		
245	250		0.24	0.19		
250	255	20	0.21	0.19		
255	260	15	0.14	1.16		
260	265	33	0.17	1.16		
265	270	9	0.26			
270	275	5	0.07			
275	280	10	0.19			
280	285	8	0.33			
285	290	5	0.40			
290	295	3	0.21			
295	300	7	0.33			
300	305	8	0.33			
305	310	7	0.19			
310	315	7	0.35			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima County, Ariz.
Hole No. D-24
Grid location: L-3

Collar elevation: 4537 ft.
Total depth: 585 ft.

Depth (Ft.) From	To	% Core Rec.	% total copper Core	Sludge	Combined	Description
0	10		0.64			0-171', Garnetized limestone, random quartz and garnet-filled fractures; 145-166', weak pyrite, chalcopyrite and azurite.
10	15		0.54			
10	20			0.40		
15	20		0.64			
20	25		0.59			
20	30			0.38		
25	34		0.33			
34	40		0.16			
30	40			0.45		
40	45		0.31			
45	46		0.59			
46	50		0.21			
50	55		0.05			
55	63		0.28			
63	68		0.09			
68	74		0.35			
74	83		0.24			
83	92		0.35			
92	100		0.31			
100	105		No sample			
105	115		0.19			
115	124		0.64			
124	129		0.26			
129	135		No sample			
135	140		0.40			Ore zone: 145-171', oxide.
140	145		0.33			
145	150		0.61			
150	155		0.73			
155	159		0.31			
159	166		0.45			
166	169		0.47			
169	171		No sample			171-244', Epidote rock, dark green, random calcite-filled fractures; 200-210, black siltstone; 171-200', contains garnet; 210-244', no garnet; 171-210', very strong pyrite and chalcopyrite; 219-244', moderate pyrite and chalcopyrite.
171	178		1.44			
178	185		1.47			
185	193		1.09			
193	200		0.90			
200	204		1.06			
204	210		1.42			
210	215		0.69			
215	219		0.07			

Hole No. D-24 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% total Copper Core	Sludge	Combined	Description
219	225		0.50			Ore zone: 171-308', sulfide. Heavy sulfide zone: 171-210'.
225	231		0.76			
231	235		1.20			
235	240		1.35			
240	244		1.32			
244	247		0.76			244-300', Black siltstone, calcareous, yellow-white clay, in fractures; 244-259', moderate pyrite and chalcopyrite.
247	248		1.00			
248	250		No sample			
250	254		1.04			
254	256		1.42			
256	259		1.30			
259	261		0.90			
261	264		0.78			
264	267		0.71			
267	269		0.66			
269	275		0.80			
275	278		1.65			
278	280		0.64			
280	281		0.66			
281	285		0.66			
285	289		0.80			
289	292		No sample			
292	294		0.61			
294	296		0.87			
296	300		0.28			
300	302		0.33			300-380', Garnetized limestone, moderate to strong clay and epidote alteration.
302	305		1.25			
305	308		1.51			
308	311		0.31			
311	314		0.35			
314	320		0.45			
320	330		0.17			
330	340		0.17			
340	350		0.59	0.28		
345	355			0.26		
350	360		0.21			
355	365			0.31		
360	370		0.31			
370	380		0.26			
375	385			0.33		
380	390		0.52			380-490', White quartzite; 415-455', red stained.
385	395			0.26		
390	400		0.22			

Hole No. D-24 - Cont'd -- 3

Depth (Ft.) From	To	% Core Rec.	Core	Sludge	Combined	Description
390	400		0.22			
400	410		0.12			
410	420		2.10			
420	430		0.21			
430	440		0.19			
440	450		0.19			
450	455		0.30			
455	490		0.19			
490	500		0.35			490-585', Basement granite; 500-514', weak pyrite, chalcopyrite; 550-555', weak molybdenite.
500	510		0.09			
510	520		0.09			
520	530		0.12			
530	540		0.17			
540	550		0.17			
550	560		0.15			
560	570		0.14			
570	580		0.07			
580	585		0.05			

Diamond Drill Hole Log

Lewisohn Copper Corp.
Peach Mine, Pima Co., Ariz.
Hole No. D-29
Grid location: R-6

Dia. of Hole: 0-52' - NX
52-404' - BX
Collar elevation: 4382 ft.
Total depth: 404 ft.

Depth (ft.) From	To	% Core Rec.	% total copper Core	Sludge	Combined
0	10		0.97	0.28	
10	20		0.60	0.28	
20	30		0.90	0.60	
30	40		0.73	0.37	
40	50		1.10	0.42	
50	60		2.20	0.07	
60	70		0.19	0.20	
70	80		0.31	0.23	
80	90		0.50	0.35	
90	100		0.12	0.17	
100	110		0.08	0.12	
110	120		0.08	0.12	
120	130		0.08	0.17	
130	140		0.08	0.19	
140	150		0.08	0.07	
150	160		0.03	0.07	
160	170		0.03	0.08	
170	180		0.03	0.08	
180	190		0.02	0.12	
190	200		0.12	0.14	
200	210		0.03	0.10	
210	220		0.05	0.08	
220	230		0.05	0.12	
230	240		0.12	0.14	
240	250		0.04	0.12	
250	260		0.15	0.17	
260	270		0.17	0.17	
270	280		0.17	0.26	
280	290		0.47	0.28	
290	300		0.40	0.30	
300	310		0.38	0.30	
310	320		0.67		
320	330		0.32	0.30	
330	340		0.19	0.17	
340	350		0.19	0.29	
350	360		0.14	0.14	

Description

0-52', Marble, minor garnet alteration; moderate disseminated chalcopyrite, weak chrysocolla.

Ore zone: 0-60' mixed. No heavy sulfide zone.

52-382', Garnetized limestone and siltstone; garnetized limestone with weak to moderate clay alteration. Siltstone 52-53', 57-58', 63-70', 210-217', 225-229', 279-281', 283-286', 288-292', 294-322', 340-374', 377-382'. Siltstone 63-70' apparent horizontal fine bedding (probably calcite veins in parallel fractures). Disseminated pyrite in lower siltstones; weakly disseminated chalcopyrite 52-58'. Moderate jarosite(?) 86-90'; weak chrysocolla and spotty chalcopyrite and copper pitch 86-92'; moderate epidote alteration and disseminated pyrite and chalcopyrite 270-276'; weakly disseminated pyrite and chalcopyrite and magnetite-pyrite-chalcopyrite veins 327-382'.

Hole No. D-29 - Cont'd -- 2

Depth (Ft.) From	To	% Core Rec.	% total copper Core	Sludge	Combined	Description
360	370		0.19	0.17		
370	380		0.17	0.21		
380	390		0.12	0.19		382-395', Fault zone; brecciated siltstone, epidote rock, quartz, chlorite; weak pyrite and chalcopyrite.
390	400		0.22	0.04		
400	404		0.06	0.12		395-404', Granite; strong chlorite alteration; weak pyrite and chalcopyrite.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
August 19, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 21 1958

DATE	INITIALS	CODE
8/21	N.G.	225
		500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper) Contract No. Idm-E1027
Lewisohn Copper Corporation (Peach and Elgin properties)
Pima County, Arizona

Enclosed are the Government's and Audit copies of the TERMINATION AGREEMENT which was forwarded by your letter of June 17, 1958, for signature by the Operator.

Copies of the Termination Agreement have been distributed to the Operator, the Finance Office and others concerned in Region III

J. W. Townsend

8/5 J. g. 225
8/5 800
WRA 500

224 New Customhouse
Denver 2, Colorado
July 30, 1958

Mr. Richard E. Chilson
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corporation
(Peach mine)
Pima County, Arizona

Dear Mr. Chilson:

Reference is made to our letter of June 23, 1958, to you, whereby we transmitted for signature by an official of Lewisohn Copper Corporation, the Government's, Audit, Finance Office, and Field Team copies of a proposed Termination Agreement to terminate Contract Idm-E1027, effective May 1, 1957. To date the signed copies of the proposed Termination Agreement have not been returned to this office.

Please return all copies of the proposed Termination Agreement to this office by return mail, either signed as indicated, or unsigned, together with your objections to the Amendment.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Alternate Acting Executive Officer
DMEA Field Team, Region III

JDC:hmh

cc: Chmn. Op. Comm. (2)
Harshman
Tucson (Romslo)
Emerick
Cooper
Corres.file, Reg. III
Chron

COPY

DMEA
RECEIVED JUN 26 1958

DATE	INITIALS	CODE
6/26	H.g.	225
6/26	[illegible]	800
6/27	~~[illegible]~~	~~500~~

224 New Customhouse
Denver 2, Colorado
June 23, 1958

CERTIFIED MAIL

Mr. Richard E. Chilson
Lewisohn Copper Corporation
1070 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract Idm-K1027
Lewisohn Copper Corporation
(Peach and Elgin properties)
Pima County, Arizona

Dear Mr. Chilson:

Enclosed are the Government's, Audit, Finance Office, and Field Team copies of a proposed TERMINATION AGREEMENT, which has been prepared in reference to your letter of May 18, 1958, to terminate Contract Idm-K1027 effective May 1, 1957.

If the Termination Agreement is satisfactory, all copies are to be signed by an official of Lewisohn Copper Corporation authorized to sign such an instrument, the signer's title inserted, the corporate seal affixed and all copies promptly returned to this office; upon receipt of which the "Operator's copy" will be forwarded to you.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Alternate Acting Executive Officer
DMEA Field Team, Region III

Enclosures

JDC:hmh

cc: Chmn. Op. Comm. (2)
Harshman
DMEA/Tuc (Romslo)
Emerick
Corres.file, Reg.III
Cooper
Chron

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/16	[illegible]	500
6-16	Chambers	800
6/16	[illegible]	130
"	[illegible]	110
"	[illegible]	100
6/19	[illegible]	220
		500

500

JUN 17 1958

Mr. J. W. Townsend
Alternate Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Properties
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Townsend:

With reference to your memorandum of May 21, 1958, we are enclosing the original and four copies of a Termination Agreement to the cited contract, which have been signed by the Administrator, for the Government. We are also enclosing two extra copies for the use of the Field Team.

If the agreement meets with your approval, kindly present it to the Operator for approval and signature and, when completed, distribute all the copies in the usual manner. Otherwise, and if any proposed change should lie beyond your delegated authority, return all copies to us with your recommendations.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

Enclosures
APPROVED:

Frank D. Lamb (HB)
Member, Bureau of Mines

Thor H. Kiilsgaard (HB)
Member, Geological Survey

WRGriswold/er 6/16/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

June 16, 1958

Memorandum for the Docket

From: Director, Division of Base Metals

Subject: Justification for Termination Agreement for Docket No. DMEA-4221, Lewisohn Copper Corporation, Peach and Elgin Properties, Pima County, Arizona, Contract No. Idm-E1027, Copper.

The cited project has been in recess for a year, due essentially to lack of funds on the Operator and they apparently have little expectancy of being able to raise any more capital.

Fortunately work done to date has indicated a substantial tonnage of low grade copper ore, perhaps six or eight million tons of a mixed oxide-sulphide ore, with a grade around 0.75 per cent. Certification is therefore possible.

WRG

W. R. Griswold

WRG/er

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado
May 29, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 9 1958

DATE	INITIALS	CODE
6/2	C	220
6/3	WPB	130
		500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin Properties), Pima County, Arizona

Enclosed are the original and two copies of a joint memorandum, dated May 26, 1958, from T. M. Romslo, Mining Engineer, Bureau of Mines, and W. L. Emerick, Geologist, Geological Survey, which supplements information provided in our memorandum of May 21, 1958 in reference to matter discussed in your letter of May 2, 1958 and the Operator's letter of May 18, 1958, regarding termination of the subject contract.

The work performed to date is inconclusive as to the extent of ore that might be discovered on the property as a result of performing the additional work provided for in the contract. However, it appears that the project can be certified as a discovery or development as a result of the small amount of work performed under the contract.

Since resumption of work by the Operator is so indefinite, it is recommended that a suitable termination agreement be prepared to terminate the contract in its present status, effective April 4, 1957.

J. W. Townsend

J. W. Townsend

Enclosures

DMEA

MAY 28 1958

REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Box 4126 University Sta.
Tucson, Arizona

IN REPLY REFER TO:
MINERAL DEPOSITS
DMEA
RECEIVED
MAY 28 1958
OFFICIAL FILE COPY
U.S.
DMEA
GEOLOGICAL SURVEY
DENVER, COLORADO

May 26, 1958

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region III

From: T. M. Romslo
W. L. Emerick

Through: E. N. Harshman

Subject: Docket No. DMEA-4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corp. (Peach and Elgin Properties), Pima County, Arizona. -- Certification of Discovery or Development.

Reference is made to memorandum, dated May 21, 1958, from Acting Executive Officer, DMEA Field Team, Region III.

The field examiners recommend certification of the project as a Discovery or Development resulting from the work performed because a significant amount of potential copper ore was indicated when the operator suspended work on the project on April 4, 1957.

Our preliminary estimate, based on results of drilling a total of 39 diamond and churn drill holes, shows that the indicated reserves are about 12,000,000 tons of material containing approximately 0.70 percent copper, and according to the operator about 0.3 ounces per ton of silver. Approximately 3,000,000 of the 12,000,000 tons of reserves was indicated by the 12 churn drill holes drilled with governmental aid. Essentially all of the potential ore reserves occur in altered limestone as oxides and sulphides.

Although presently indicated reserves do not constitute a commercial ore body, field evidence suggests that if drilling is continued on the Peach and adjoining Elgin properties indicated reserves might be increased to somewhat over 20,000,000 tons of similar grade material. A deposit of this magnitude that may be open-pit mined could be commercial under favorable economic conditions.

T. M. Romslo
U. S. Bureau of Mines

W. L. Emerick
U. S. Geological Survey

W.H.King cc. (8)
E. N. Harshman cc.
DMEA/TUC
Emerick

TMR:WLE:ms

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

500

May 28, 1958

Memorandum

To: Associate Solicitor, Division of Minerals Resources

From: Director, Division of Base Metals

Subject: Termination Agreement for the Docket No. DMEA-4221, Lewisohn Copper Corporation, Peach and Elgin Properties, Pima County, Arizona, Contract No. Idm-E1027, Copper.

Will you kindly prepare a Termination Agreement for the cited contract, effective as of May 1, 1957.

Do not put in a pseudo-certification, but please reserve the Government's right to certify, as we expect to make a certification as soon as data is received from the Field Team.

WRG/er

W. P. Klugescheid for
W. R. Griswold

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
May 21, 1958

5/23 Hg. 225
5/23 Wells 130
500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corp. (Peach and Elgin Properties), Pima County, Arizona

Enclosed are the original and two copies of the Operator's letter of May 18, 1958, which is in reference to the matter discussed in your letter to this office, dated May 2, and our letter to the Operator, dated May 7, 1958.

The Operator requests termination of the contract in its present status because of existing conditions.

Unless it is possible to maintain the contract in an indefinite status for a considerable period of time, it appears that there is no alternative other than to effect termination of the contract in its present status.

A review of our MF-104 file, Operator's Monthly Report and Voucher, and the field examiners' report, dated February 20, 1957, indicates that ore grade material was encountered in a part of the twelve DMEA drill holes. However, we have requested specific recommendations from the field examiners regarding the issuing of a Certification of Discovery or Development, which will be forwarded to you as soon as received.

for E. N. Harshman

Enclosures

8

LEWISOHN COPPER CORP.

P. O. BOX 2728
TUCSON, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
MAY 20 1958
REGION III
DENVER, COLORADO

DMEA
RECEIVED 24

W.O.

May 18, 1958

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-1027
Pima County, Arizona

Dear Mr. Harshman:

Thank you for your letter of the 7th. Your comment on the SEC is a revelation. After six weeks our attorneys have not yet decoded it. Being a mine operator rather than a lawyer, I have no appreciation of the fine points of the contest.

Even if we won, I am afraid the case is analogous to the surgical operation which was successful although the patient died. In our case, regardless of the findings, the effect of the investigation together with the recession of the economy in general and of copper in particular appears to have made it impossible for our financiers to follow through our plan for the exploration of the Peach-Elgin copper deposit in Helvetia.

We have put a lot of hard work into this project and I believe we have done a good job as far as we have gone. Our procedures have been meticulous and exacting and the data developed thoroughly reliable in every respect. I believe with Dr. Harrison Schmitt that the completion of the project as planned would have resulted in the development of a commercial copper deposit.

However, the situation being what it is, I have no choice but to propose that such steps as are necessary be taken to terminate the Contract No. Idm-1027 as well as the proposed amendment covering the adjoining Elgin property.

I wish to express my very great appreciation of the kindness and unfailing courtesy of your department of the government in the handling of this contract with Lewisohn Copper Corp. I, also, feel that you have been very lenient in maintaining the indefinite status of this contract as long as you have done. I have dealt with the government on various occasions and have never before experienced this attitude. I am therefore doubly regretful that we have been unable to justify your extreme consideration in this case.

Very truly yours,

Richard E. Chilson

Richard E. Chilson

224 New Customhouse
Denver 2, Colorado
May 21, 1958

5/23 N.g. 225
~~800~~
~~400~~
500
WRB.

Mr. Richard E. Chilson
Lewisohn Copper Corp.
P. O. Box 8788
Tucson, Arizona

Re: Docket No. DMEA 4821 (Copper)
Contract No. Ida-21087
Lewisohn Copper Corp.
(Peach and Elgin Properties)
Pima County, Arizona

Dear Mr. Chilson:

Thank you for your prompt reply to our letter of May 7, 1958 concerning future operations under Contract No. Ida-21087.

The matter of terminating the contract in its present status will be referred to the Washington Office, DMEA, for their consideration and appropriate action, on which you should hear, either direct from them or through this office, at an early date.

Very truly yours,

Original signed by
J. W. TOWNSEND

for W. N. Marshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:pel

cc: Chem. Op. Comm.[Y] (2)
Marshman
DMEA/Tucson (Romelo)
Merrick
Corres. file
Townsend
Chron.

224 New Customhouse
Denver 2, Colorado
May 21, 1958

5/23 II-g 225 800 500

w/cb.

Memorandum

To: DMEA/Tucson (Rumple) - w/enclosure
W. L. Emerick - " "

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. DMA-E1027, Lorincka Copper Corp. (Peach and Elgin Properties), Pima County, Arizona

Enclosed is a copy of the Operator's letter of May 18, 1958 advising that, under the circumstances, they have no alternative other than to request termination of the contract in its present status.

As Certification of the project as a Discovery or Development resulting from the work performed to date must be considered, please submit a joint memorandum report containing your recommendations pertaining thereto.

Original signed by
J. W. TOWNSEND

for E. N. Harshman

JWT:pri

cc: Chem. Op. Comm. (2)
Harshman
Chgrms. file
Townsend
Chrtm.

9 58

220
800
500

224 New Customhouse
Denver 2, Colorado
May 7, 1958

CERTIFIED MAIL

Mr. Richard E. Chilson
Lavinchee Copper Corp.
1079 North Warren Avenue
Tucson, Arizona

Re: Docket No. DMA 4221 (Copper)
Contract No. Mm-21027
Lavinchee Copper Corp.
(Peach and Elgin properties)
Pima County, Arizona

Dear Mr. Chilson:

Reference is made to your letter dated November 3, 1957, and prior communications pertaining to continuation of operations under Contract No. Mm-21027.

We have been informed that the Securities and Exchange Commission ruled adversely towards your company in the matters that were pending with them.

We consider that the Government has been very lenient in maintaining the contract in an indefinite status for such a long period to provide your company time to resolve all matters which were a deterrent to continued operations towards completing the work provided for in the contract.

It is not possible to continue maintaining the contract in such an indefinite status. Therefore, we will appreciate advice by return mail as to your plans regarding future operations under the contract and proposed operations in the Elgin mine regarding which you requested an amendment to the contract to provide for work involving additional funds.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMA Field Team, Region III

JWT:prl

cc: Chgn. Op. Comm. (2)
Harshman
DMA/Tucson-Nemzle
Hamrick
Corres. file
Townsend
Chron.

} w/copy of Chairman's letter of May 2, 1958.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/2	[illegible]	500
5/2	[illegible]	130
5/2	[illegible]	110
	[illegible]	100
5/5	[illegible]	220
		500

500

MAY 2 1958

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Properties
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Harshman:

With reference to your memorandum of November 8, 1957, covering the cited project, we were advised some time ago by the Securities and Exchange Commission that they had ruled adversely in the matter of the Lewishohn Copper Corporation.

Since this project has been in an indefinite status for a considerable period of time, we are desirous of getting a clarification. Will you please make the necessary inquiries and let us have your recommendations.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (HB)

WRGriswold/er 5/2/58

Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

Frank D. Lamb [redacted] (HB)
Member, Bureau of Mi[redacted]

W. P. Williams [redacted] (HB)
Member, Geological Survey

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 12 1957

DATE	INITIALS	CODE
11/12	C	220
11/12	~~copy~~	500

November 8, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin properties), Pima County, Arizona

In reference to the post script to your letter of October 16, 1957, enclosed are two copies of the Operator's letter of November 3, 1957, relative to the S.E.C. hearing and present status of the project.

E. N. Harshman

E. N. Harshman

Enclosures

LEWISOHN COPPER CORP.

~~100 NORTH CHURCH~~ 1070 N. Warren Ave.
TUCSON, ARIZONA

November 3, 1957

DMEA
DEPARTMENT OF THE INTERIOR
NOV 8 - 1957
REGION III
DENVER, COLORADO

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4221 (copper)
Contract No. Idm-E-1027
(Peach & Elgin Properties)
Pim County, Arizona

Dear Mr. Harshman:

Your letter of October 22nd to Mr. Ben Martin has been ref-ferred to me for reply.

In answer to your inquiry concerning the status of our SEC investigation, the final hearing was held in September. While the climate and discussion at the meeting was reported to be very satisfactory to the company, I have not yet received a transcript of the proceedings. No final decision has yet been delivered.

Immediately upon receipt of this final disposition we hope to proceed with the arrangements for financing the balance of the exploration work on the Peach-Elgin property.

We very much appreciate your understanding attitude and hope in the near future to know when we can proceed with our work.

Very truly yours,

Richard E. Chilson

Richard E. Chilson

NOV 8 1957

Copies distributed to:
Chmn. Op. Comm. (2)
Harshman
DMEA/Tucson (Romelo)
Emerick
Townsend

OFFICE FILE COPY
D M & A
RECEIVED OCT 25 1957

DATE	INITIALS	CODE
10/25	gb	220
10/25	[illegible]	800
10/28	aRH	500

294 New Customhouse
Denver 2, Colorado

October 22, 1957

Mr. B. H. Martin, Manager
Lewisohn Copper Corporation
1070 North Warren
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-E1027
Lewisohn Copper Corporation
(Peach and Elgin Properties)
Pima County, Arizona

Dear Mr. Martin:

In reference to your letter of August 28, 1957 concerning a six-months' extension of the date presently fixed in the Contract on or before which the work shall be completed, the matter will be held in deferment until the various obstacles which are holding up the work have been removed. Then the Government will consider the matter of an amendment to the Contract to provide for a suspension of operations and extension of the completion time upon revival of the matter by your company.

In your letter of August 28, you advised that the Securities and Exchange Commission would perhaps hold a final hearing on their investigation about the middle of September. Please advise if the S.E.C. final hearing has been held and the results thereof. We will appreciate advice by return mail on the foregoing as well as advice as to the present status of the project and your plans for resumption of work under the Contract.

JWT:prl

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

cc: Chmn.Op.Comm.-2 w/copy of Chairman's letter of Oct. 16.
Harshman
Emerick
Romslo
Corres. file
Townsend
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/15	Klugescheid	500
	Trainel	500
10/16	[illegible]	130
	Johnson	110
"	Mittenberg	100
		~~HB~~
10/17	B	220
		500

500

Mr. B. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

OCT 17 1957

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Properties
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Harshman:

We refer to the letter of Mr. B. H. Martin, dated August 28, 1957, in which he requested a six-month extension of the completion date for the cited project, and your memorandum, dated September 5, 1957.

We have discussed the matter of an amendment with the Legal Division and their advice is: to let matters ride as they are until such time as the Operator solves its problems. When the various obstacles which are holding up the work have been removed, then we will be glad to take up the matter of an amendment extending the completion time.

At present, the Operator is technically in default and no advantage would accrue to the Government by changing this status under present conditions.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)
WPKlugescheid/er 10/15/57
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

Frank D. Lamb (FDL)
Member, Bureau of Mines

Thor H. Kiilsgaard (THK)
Member, Geological Survey

P. S. Has final S.E.C. hearing, referred to by Mr. Martin, been held, and if so, what was the result? If not held, what is the present status of the project?

8623

MF

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 10/8/57

REFERRED TO:

1. ~~Assoc. Sol., Div. Min. Resources~~
2. W. R. Griswold--Rm. 4242
3.
4.

DMEA-4221

INTERIOR DEPT.
OCT 9 - 1957
DMEA 4221
SOLICITOR

FOR:

X	Action		Recommendation
	Approval		Record
	Comment		of
	Conference		Referring to
	Consideration		Reply for signature of
	Filing		Rewriting
	Instructions		Signature
	Investigation		Suggestions
	Initials		Your information
	Mailing		
	Previous correspondence		

Bill — Let's wait until you amend for more work. HLL

REMARKS: ~~Preparation Amend. No. 3~~ 10/11/57

RECEIVED
OCT 10 1957
ASSOC. SOLICITOR
MINERAL RESOURCES

Check (X) before the items needing attention.

W. R. Griswold
Initials of sender.

GPO 16—63815-1

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/8	Klugescheid	500

500

October 8, 1957

Memorandum

To: Associate Solicitor, Division of Mineral Resources

From: Director, Division of Base Metals

Subject: Preparation of Amendment No. 3 for Docket No. DMEA-4221, Lewishon Copper Corporation, Peach and Elgin Properties, Pima County, Arizona, Contract No. Idm-E1027.

Will you please prepare an Amendment No. 3 for the cited contract, as follows:

1. The date fixed in Article 3 on or before which the work shall be completed is extended from August 1, 1957, to February 1, 1958.

W. R. Griswold

WPKlugescheid/er

Copy to: Docket
Chron.

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

September 5, 1957

OFFICIAL FILE COPY
DMEA

DATE		CODE
9-9	C	220
		130
9/-11	WRB	500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-4221 (Copper), Contract No. Idm-E1027
Lewisohn Copper Corporation (Peach and Elgin Mines)
Pima County, Arizona

Enclosed are the original and two copies of the Operator's letter of August 28, 1957, in reply to our letter of August 23, 1957, two copies of which were forwarded to you at the time of writing.

The Operator requests a six months extension of the date fixed for completion of the project work, to enable them to complete negotiations relative to additional financing.

As performance of additional work under the contract, as well as resolving matters pertaining to the additional work and funds requested, is contingent on satisfactory resolution of their financial status, it is recommended that a suitable amendment be prepared to extend the completion date the six months requested.

As the matter is somewhat involved, it is forwarded for your consideration and appropriate action with the foregoing recommendation.

E. N. Harshman

Enc.

E. N. Harshman

LEWISOHN COPPER CORP.

1070 North Warren
TUCSON, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
SEP 3 - 1957
REGION III
DENVER, COLORADO

August 28, 1957

J. W. Townsend, Alternate Act. Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4221(Copper)
Contract No. IDM - E 1027
Lewisohn Copper Corp.
Peach & Elgin Mines
Pima County, Arizona

Dear Mr. King:

This will acknowledge your letter of August 23, 1957 which points out that we are in default according to Amendment 2 of the present contract.

In my letter of June 7, 1957, I stated that the securing of additional financing had been subjected to un-anticipated delays, which however we hoped would be resolved in the near future. The cause of these delays was an investigation by the Securities and Exchange Commission who have yet to hand down their final opinion. The delay will no doubt continue until this is done.

After a series of postponements, we are now advised that the S. E. C. will hold a perhaps final hearing about the middle of September, after which we may reasonably expect a resolution of these difficulties.

We are anxious to maintain the contract in force and therefore request a 6 months extension in the completion date from August 1, 1957.

Very truly yours

B. H. Martin

B. H. Martin, Manager

OFFICIAL FILE COPY
DMEA
RECEIVED
9 1957
CODE

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 28 1957

DATE	INITIALS	CODE
8/28	G	220
8/28	[illegible]	800
8/28	[illegible]	500

224 New Customhouse
Denver 2, Colorado

August 23, 1957

Mr. B. H. Martin, Manager
Lewisohn Copper Corporation
128 North Church
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-E1027
Lewisohn Copper Corporation
(Peach and Elgin Mines)
Pima County, Arizona

Dear Mr. Martin:

Amendment No. 2 to the Contract extended the date fixed on or before which work shall be completed to August 1, 1957. Therefore, as the matter now stands, you are in default under the Contract.

We realize that further extension of the date fixed for completion of the work is involved with your request for approval of additional work and funds under the Contract. As to the latter, we have heard nothing from you since your letter of June 7, 1957.

If you are desirous of maintaining the Contract in force, you should submit for the Government's consideration a request for further extension of the date fixed on or before which work shall be completed. You must realize that a definite commitment from you will be required, as the Contract cannot be maintained in an indefinite status.

We hope that these matters will be satisfactorily resolved at an early date. Otherwise, the Government must initiate action to protect its interest. We trust that we may hear from you by return mail.

Very truly yours,

Original signed by
J. W. TOWNSEND

J. W. Townsend
Alternate Acting Executive
Officer, DMEA Field Team,
Region III

JWT:prl

cc: Chmn. Op. Comm. - 2
Harshman
DMEA/Tucson
Romslo
Townsend
Corres. file
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/3	C	220
7/3	WRB	500

July 2, 1957

Memorandum

To: Catherine Curtin, Statistics and Control Division

From: Hazel Berry, Operating Committee (by ds)

Subject: Amendment to Contract

Attached is the following docket copy of an amendment to a contract which has been reviewed and approved by the Commodity Division and the Audit Division. No clearance by Legal is necessary.

LEWISOHN COPPER CORP., DMEA-4221, Idm-E1027,
Amendment No. 2.

Attachment-1

8623

224 New Customhouse
Denver 2, Colorado
June 25, 1957

6/28 C 220
6/28 800
7/1 500

Mr. B. H. Martin, Manager
Lewisohn Copper Corporation
128 North Church
Tucson, Arizona

Re: Docket DMEA-4221 (Copper)
Contract Ida-K1027
Lewisohn Copper Corporation
(Peach mine)
Pima County, Arizona

Dear Mr. Martin:

Form MF-104, Operator's Monthly Report and Voucher for April, 1957, has been received and is being processed for payment.

The maximum allowable average unit cost for drilling under Stage II has been exceeded by an amount of $115.50. This amount is suspended and is subject to possible reinstatement at a later date, to the extent that the average overall unit cost for drilling under Stage II may fall below the maximum allowable average unit cost established in the contract.

The amount of $750.00, which was withheld from the March, 1957 voucher is reinstated, and an equal amount is withheld from the April, 1957 voucher, pending resumption of work under the contract. If for any reason the work is not resumed, this amount shall continue to be held pending resolution of matters prerequisite to closing the account, which includes:

1. Execution by the parties to the contract of a suitable agreement to effect termination of the contract in its present status without requiring performance of the balance of the work outlined in the contract.

2. Rendering to the Government a final report in conformance with Article 7 (c) of the contract form.

3. Release to this office of an Audit Report or Report of Review of reported project expenditures, by the Contract Administration and Audit Division, DMEA.

If you have any questions regarding the above please feel free to contact this office.

Yours very truly,

Original signed by
W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

JDC:hmh
cc: Chmn. Op. Comm. (2)
Harshman
DMEA, Tuc.
Emerick
Townsend
Corres. file, Reg. III
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

June 25, 1957

6/28 C 220
6/28 ~~2464~~ 500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4221 (Copper) Contract Idm-E1027
Lewisohn Copper Corporation (Peach mine)
Pima County, Arizona

Enclosed for your information are three copies of the drilling subcontract between Lewisohn Copper Corporation and Purcell Mining and Drilling Company, which we requested from the Operator by letter of June 11, 1957.

W. H. King

Enclosures

OMEA
DEPARTMENT OF THE INTERIOR
JUN 21 1957
REGION III
DENVER, COLORADO

CHURN DRILLING CONTRACT

THIS CONTRACT, made and entered into this 18th day of October, 1956, by and between LEWISOHN COPPER CORP., hereinafter called the "Owner," and PURCELL MINING AND DRILLING COMPANY, hereinafter called the "Contractor,"

WITNESSETH:

That the parties hereto mutually agree as follows:

The Contractor shall perform churn drilling for the Owner upon the Owner's mining claims situated in Pima County, Arizona, upon the following terms and conditions:

The Contractor shall select, hire, discharge, and pay the wages of all employees required in the work, and shall have and exercise exclusive supervision, direction and control over such employees and the details of the work. Direct control and management of all operations and personnel shall rest in the Contractor, who shall be responsible for Social Security and Unemployment Taxes, and Workmen"s Compensation Insurance, and shall discharge all other responsibilities in connection with the employment of said personnel.

The Contractor shall drill at the location or locations designated by the Owner, and shall drill each hole to such size and such depth as the Owner shall require, in a good drilling manner.

The Contractor acknowledges and understands that the object of the work is to obtain samples which, in the Owner's judgment, are adequate and representative of mineral-bearing formations passed through by the drill, and agrees to consult with the Owner's field representative before proceeding with any details of the work which may affect, in any manner, the taking of accurate, adequate and

DATE

representative samples. Among such details, but not excluding any others not herein referred to, are changes in diameter of the hole, the setting of casing in the hole, and the use of "drilling mud" in the hole.

The Contractor shall arrange for the bailing out of each hole at 5-foot intervals to enable the Owner to sample the hole, and such bailing shall continue until the Owner's sampler, or field representative, shall be satisfied that the hole is clean and that an accurate and adequate sample has been obtained. Any question arising under this provision, or any other provision of this contract, shall be taken up between the Owner and the Contractor and not between the sampler and the drill runner.

The Contractor shall furnish all casing required for the work and shall use every reasonable effort to recover such casing from the hole. All casing shall be in good condition and suitable for the purpose for which it is used.

The Contractor shall haul all water required for drilling and sampling operations; however, the Owner will furnish this water at Helvetia.

The Owner shall designate the location for all drill holes hereunder, and shall provide a suitable road to each location, and shall make and level each location in a good drilling manner.

The Owner shall pay for all drilling and other work hereunder as follows:

Drilling, 0 - 600'	$ 6.00 per foot
Reaming, 0 - 600'	4.00 per foot
Casing (in or out)	0.25 per foot
Liners (in or out)	0.50 per foot
Rig Time (delay time)	12.50 per hour

Whenever unusually difficult drilling conditions prevail, such as hard formation or a hole difficult to keep straight, and such that less than 15 feet of drilling per shift is accomplished because of such reasons, the Owner will pay the Contractor at the rate of One Hundred Dollars ($100.00) per 8-hour shift, this amount to be reduced by any drilling accomplished during the shift at Six Dollars ($6.00) per foot or any rig time paid for by the Owner during the shift at Twelve Dollars and Fifty Cents ($12.50) per hour.

The Owner will pay for all casing lost in the hole or left in the hole at the Owner's request, payment to be on a replacement cost basis.

Fishing for the first 24 hours shall be at the expense of the Contractor; additional fishing time shall be paid by the Owner (unless due to Contractors negligence) at the rate of Twelve Dollars and Fifty Cents ($12.50) per hour.

Payment for the above described work will be made on or before the 10th day of the succeeding month for work performed during the preceeding month.

The Contractor agrees to carry Workmen's Compensation Liability Insurance, and property damage insurance (including such insurance covering operation or transportation equipment) with limits of not less than Fifty Thousand Dollars ($50,000.00) for injuries or death to any one person, and not less than One Hundred Thousand Dollars ($100,000.00) for any one accident, and with a property damage limit of not less than Fifty Thousand Dollars ($50,000.00). Certificates of such insurance shall be delivered to Owner before Contractor shall start any work under this contract.

This contract shall not be assigned without the written consent of the Owner.

IN WITNESS WHEREOF, the parties hereto have executed this contract, in duplicate, as of the day and year first above written.

LEWISOHN COPPER CORP.

By _____
B. H. Martin, Manager

PURCELL MINING AND DRILLING COMPANY

By Martha G. Purcell
Martha G. Purcell

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 24 1957

DATE	INITIALS	CODE
6/25	C	220
	esf	130
	J	500

June 21, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin mines), Pima County, Arizona

Enclosed are the original and two copies of Amendment No. 2 to Contract No. Idm-E1027, which has been executed to extend the date fixed in Article 3, on or before which the work shall be completed, from April 1, 1957 to August 1, 1957, and to extend the maximum period for payment of royalty and lien for payment thereof to eleven years from the date of the contract.

The Operator's request now pending for approval of additional work and funds also involved an extension of the date fixed for completion of the work. Since the request for additional work and funds may not be resolved for some time, it was necessary that the completion date be extended to enable our processing the Operator's accounting report for the month of April, 1957 and provide time for resolution of the matter relative to additional work and funds.

Copies of the Amendment have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

W. H. King

Enclosures

224 New Customhouse
Denver 2, Colorado

June 13, 1957

6/17 C 220
6/18 800
6/19 500

Mr. B. H. Martin, Manager
Lewisohn Copper Corporation
128 North Church
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-E1027
Lewisohn Copper Corporation
(Peach and Elgin mines)
Pima County, Arizona

Dear Mr. Martin:

Because the matter of your request for the Government's approval of additional work and funds, which also involves an extension of the date for completion of the work, may be held up for some time, we have prepared proposed Amendment No. 2 to the Contract to extend the date fixed for completion of the work from April 1, 1957 to August 1, 1957.

Also, the Amendment increases the maximum period for payment of royalty and lien for payment thereof to eleven years from the date of the Contract.

Execution of the Amendment will enable us to process your accounting report for the month of April, 1957, when the data requested by our letter of June 11, 1957, is received.

If the Amendment is satisfactory, all copies are to be signed by the President, Lewisohn Copper Corporation, as indicated, the corporate seal affixed, and all copies promptly returned to this office; upon receipt of which and after signature by the Executive Officer, DMEA Field Team, Region III, for the Government, an executed copy of the Amendment will be returned to you.

Very truly yours,

W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

JWT:prl

cc: Chmn.Op.Comm.-2
Harshman
Emerick
DMEA/Tucson
Townsend
Corres. file
Chron.

224 New Customhouse
Denver 2, Colorado

June 11, 1957

6/13 C 220
800
6/14 500

Mr. B. H. Martin, Manager
Lewisohn Copper Corporation
128 North Church
Tucson, Arizona

Re: Docket [illegible]-4821 (Copper)
Contract I4s-[illegible]027
Lewisohn Copper Corporation
(Peach mine)
Pima County, Arizona

Dear Mr. Martin:

Form MF-104, Operator's Monthly Report and Voucher for April, 1957, has been received and reviewed in this office.

We are unable to determine the basis on which the April, 1957, drilling costs were calculated. You were billed for 4½ shifts at $100.00 per shift, after which certain drilling costs were deducted, and other drilling costs were added.

Please submit to this office as soon as possible, six copies of your drilling subcontract with Purcell Drilling Company, and the original and five copies of a letter which explains and justifies the calculation shown on the Purcell Drilling Company invoice dated April 8, 1957.

The April, 1957, Voucher cannot be processed for payment until the drilling costs are clarified, and the contract completion date has been extended beyond April 1, 1957.

Yours very truly,

W. H. KING

W. H. King
Executive Officer,
[illegible] Field Team, Region III

JBC:hmh
cc: Chmn. Op. Comm. (2)
Harchman
[illegible], Tucson
Emerick
Townsend
Corres. file, Reg. III
Chron.

LEWISOHN COPPER CORP.

128 NORTH CHURCH
TUCSON, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
JUN 10 1957
REGION III
DENVER, COLORADO

June 7, 1957

Mr. E. N. Harshman, Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4221
Contract No. Idm E 1027
Lewisohn Copper Corp.
Peach & Elgin Mine
Pima County, Arizona

Dear Mr. Harshman:

This will acknowledge your letter of May 28th relative to the lease and option extensions on the Elgin property. I have been away from the office or would have answered sooner.

The subject extensions are now contingent on the securing of further financing by the Lewisohn Copper Corp. Inasmuch as we have encountered unanticipated delays in this regard, it is impossible to state definitely at this time what the schedule might be.

We are however optimistic and believe that the situation will be resolved in the near future.

Your continued indulgence in this matter will be appreciated.

Very truly yours

B. H. Martin, Manager

6-11-57
Copies distributed to:
Chron Op. Comm
Harshman
DMEA Tucson
Emerick
Zoumaras
Carlee

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 13 1957

DATE	INITIALS	CODE
6-13	C	220
6/13		800
6/14		500

224 New Customhouse
Denver 2, Colorado

May 28, 1957

Mr. B. H. Martin, Manager
Lewisohn Copper Corporation
128 North Church Avenue
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-K1027
Lewisohn Copper Corporation
(Peach and Elgin mine)
Pima County, Arizona

Dear Mr. Martin:

In your letter of May 14, 1957 you advised that you expected to be able to forward the Lease and Option Extension on the Elgin property that week.

As considerable time has elapsed and we have heard nothing further from you, we will appreciate advice by return mail as to the status of the matter.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:prl

cc: Chmn.Op.Comm.-2
Harshman
Storms
Emerick
Townsend
Corres. file
Chron.

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DATE | INITIALS | CODE
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224 New Customhouse
Denver 2, Colorado

May 28, 1957

5/31	C	220
6/3	[illegible]	800
6/3	[illegible]	500

Mr. B. E. Martin, Manager
Lewisohn Copper Corporation
128 North Church Avenue
Tucson, Arizona

Re: Docket DMEA-4221 (Copper)
Contract Idm-E1027
Lewisohn Copper Corporation
(Peach mine)
Pima County, Arizona

Dear Mr. Martin:

Form MF-104, Operator's Monthly Report and Voucher for March, 1957, has been received in this office and is being processed for payment.

The completion date for work under Contract Idm-E1027 was April 1, 1957, therefore an amount of $750.00 is withheld pending resolution of matters relative to your request for additional work and funds, and for extension of the completion date.

Yours very truly,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JDC:hmh
cc: Chmn. Op. Comm. (2)
Harshman
Storms
Townsend
Corres file, Reg. III
Chron

LEWISOHN COPPER CORP.
120 NORTH CHURCH
TUCSON, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
MAY 16 1957
REGION III
DENVER, COLORADO

May 14, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 20 1957

DATE	INITIALS	CODE
5/20	C	220
5/21	[illegible]	800
5/21	~~WRS~~	500

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Dear Mr. Harshman:

This will acknowledge receipt of your letter of May 6th in reply to our request for a recess in drilling operations.

We have taken steps to extend the lease and option period on the Elgin property and will forward same to you as soon as received from the lessor, which should be sometime this week.

Very truly yours,

B. H. Martin
Manager

BHM:bjg
Air Mail

Copies Distributed to:
Chm. Op. Comm. (2)
Harshman
Storms
Emerick
Townsend

E1027

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 8 1957

DATE	INITIALS	CODE
5/8	C	220
		130
5/9	[illegible]	500

May 6, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corp. (Peach and Elgin mine), Pima County, Arizona

Enclosed is the following material pertaining to a suspension of operations under the subject Contract:

1. Four sets of data consisting of the original and three copies of the Operator's letter of May 2, 1957, and a joint memorandum, dated May 3, 1957, from T. M. Romslo and W. L. Emerick.

2. Four copies of a letter from this office to the Operator requesting advice as to the status of action on matters covered in our letter dated March 22, 1957.

Extension of the date fixed for completion of the project work is involved with the proposed amendment to the Contract to provide for additional work and funds, and as the matter of extension of the Contract and authorizing a recess of operations is somewhat complicated by the proposed amendment, action on which is held in deferment, we believe that we should first have advice relative to the matter of the Operator's obtaining an extension of the Lease and Option on the property.

We will advise you further in the matter as soon as we receive appropriate advice from the Operator on our letters of March 22 and May 6.

E. N. Harshman

E. N. Harshman

224 New Customhouse
Denver 2, Colorado

May 6, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 8 1957

DATE	INITIALS	CODE

VIA AIR MAIL
CERTIFIED MAIL

Mr. B. N. Martin, General Manager
Lewisohn Copper Corp.
128 North Church
Tucson, Arizona

Re: Docket No. DMEA 4221 (Copper)
Contract No. Idm-E1027
Lewisohn Copper Corp.
(Peach and Elgin mine)
Pima County, Arizona

Dear Mr. Martin:

Your letter to Mr. Storms, Tucson, Arizona, dated May 2, 1957, wherein you request approval for a ninety-day recess of drilling operations under Stage II of the Contract, was referred to this office for appropriate action.

Before action can be taken on your request for the ninety-day recess of operations and a resultant extension of the date fixed for completion of the project work, it is necessary that we be informed as to the status of the extension of the Lease and Option on the Elgin property referred to in our letter to you of March 22, 1957, in conjunction with your request for approval of additional work and funds under the Contract.

Inasmuch as the Contract expired April 1, 1957, prior to completion of all the work approved, your prompt attention should be given to the matter discussed in our letter of March 22, herein referred to.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:prl
cc: Chmn. Op. Comm.-4
Harshman
Storms
Emerick
Townsend
Corres. file
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
BOX 4097
TUCSON 5, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
MAY 6 - 1957
REGION III
DENVER, COLORADO

May 3, 1957

Memorandum

To: E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III

From: T. M. Romslo
W. L. Emerick

Through: W. R. Storms

Subject: Docket DMEA-4221 (Copper), Contract Idm-E1027, Lewisohn Copper Corp. (Peach Mine), Pima County, Ariz.

B. H. Martin, Manager of the captioned corporation, in the attached letter of May 2, 1957 to W. R. Storms requests a 90-day recess in the drilling operations.

We recommend that the requested recess be granted for the reason given by Mr. Martin.

T. M. Romslo, Mining Engineer
U. S. Bureau of Mines

W. L. Emerick, Geologist
U. S. Geological Survey

CC Exec. Off. (Orig. & 8)
W. L. Emerick
DMEA-4221
DF

TMRomslo:WLEmerick:frj

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 8 1957

DATE	INITIALS	CODE

LEWISOHN COPPER CORP.

128 NORTH CHURCH
TUCSON, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
MAY 6 - 1957
REGION III
DENVER, COLORADO

May 2, 1957

Mr. W. H. Storms
U. S. Bureau of Mines
University of Arizona
Tucson, Arizona

Re: Docket No. DMEA 4221
Contract No. Idm E 1027

Dear Mr. Storms:

This is to request a 90 day recess in Stage II drilling operations at the Peach Mine, Pima County, Arizona. The 90 day period to begin April 4,th which is the date of completion of the last hole. abandoned program

This recess is requested in order to give us time to secure additional financing to continue the drilling program.

Very truly yours

B. H. Martin

B. H. Martin, Manager

BHM:lt
cc:File

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 8 1957

DATE	INITIALS	CODE

U. S. BUREAU OF MINES
SOUTHWEST EXPERIMENT STATION
MAY 3 1957
TUCSON, ARIZONA

224 New Customhouse
Denver 2, Colorado

April 9, 1957

OFFICIAL FILE COPY
D M E A
RECEIVED APR 15 1957

DATE	[illegible]	CODE
4/15	C	220
4/1[illegible]	[illegible]	800
4/15	[illegible]	500

Mr. B. F. Martin, General Manager
Lewisohn Copper Corporation
128 North Church
Tucson, Arizona

Re: DMEA Docket No. 4221 (Copper)
Contract [illegible]-E1027
Lewisohn Copper Corporation
(Leach mine)
Pima County, Arizona

Dear Mr. Martin:

Form M-[illegible], Operator's Monthly Payroll and Voucher, for February, 1957, has been received in this office and is being processed for payment.

A total of 663 chemical assays, exclusive of check assays, have been reported to date under Stage I. The contract authorizes only 600 chemical assays under Stage I; therefore, the cost of 63 assays is disallowed. You will be notified of the exact amount disallowed by means of an Administrative Audit Difference Statement which will be mailed to you by the Finance Office, Region III.

If you have any question regarding the above disallowance please feel free to contact this office.

Yours very truly,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JDC:hh
cc: Chmn.Cp.Comm. (2)
Harshman
Storms
Townsend
Corres,File E1027,
Reg. III
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED

DATE		CODE
4/5	C	220
4/5	~~[illegible]~~	500

April 3, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, ~~DMEA Field Team,~~ Region III

Subject: Docket No. DMEA 4221 (Copper), Contract No. Idm-E1027, Lewisohn Copper Corporation (Peach and Elgin mines), Pima County, Arizona

Reference is made to your letter of March 29, 1957, and the telephone conversation between this office and Mr. Griswold on March 22, 1957 concerning the subject Operator's application for approval of additional work.

In response to Mr. Griswold's advice, the Operator was requested by our letter of March 22, 1957 to obtain a two-year minimum extension of the Lease and Option on the Blankenship property. Two copies of the letter were forwarded to you at the time of writing. Nothing has been heard from the Operator.

J. W. Townsend
J. W. Townsend

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

500

Date	Surname	Code
3/28	[illegible]	500
3/29	Selfridge	130
"	Johnson	110
"	[illegible]	100
4/2	C	225
		500

MAR 29 1957

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

Re: Docket No. DMEA-4221 (Copper)
Lewisohn Copper Corporation
Peach and Elgin Mines
Pima County, Arizona
Contract No. Idm-E1027

Dear Mr. Harshman:

On March 22, 1957, Mr. Griswold phoned your office and, in your absence, spoke with Mr. Townsend regarding the cited application for additional work.

We note that most of the significant land is held under a Lease and Option from Ruth B. Blankenship, dated May 1, 1956. This document stipulates that a cash payment of at least fifty thousand dollars is required by May 1, 1958.

Obviously, we cannot give consideration to a program involving some $167,000.00 unless the Operator can obtain an extension to this agreement.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JB)

APPROVED:

O. M. Bishop (JB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JB)
Member, Geological Survey

WRGriswold/er 3/28/57
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 25 1957

DATE	INITIALS	CODE
3/25	C	220
3/26	[illegible]	800
3/26	[illegible]	500

224 New Customhouse
Denver 2, Colorado

VIA AIR MAIL

March 22, 1957

Mr. B. H. Martin, General Manager
Levisohn Copper Corporation
128 North Church
Tucson, Arizona

Re: Docket No. DMEA 4821 (Copper)
Contract No. I4m-E1027
Levisohn Copper Corporation
(Peach and Elgin Mines)
Pima County, Arizona

Dear Mr. Martin:

Reference is made to your letter of December 19, 1956 and enclosed Application for the Government's approval of additional work and funds under Contract No. I4m-E1027.

The Lease and Option on the Elgin property, dated May 1, 1956, between Ruth E. Blankenship and Levisohn Copper Corporation is for a period of two years and will expire May 1, 1958 if the Option to Purchase is not exercised by Levisohn Copper Corporation by that date.

Inasmuch as the additional work requested may necessitate extension of the Contract beyond May 1, 1958 to enable completion of all the work, before the Government can give further consideration to your Application, it will be necessary that the Lease and Option, mentioned above, be extended a minimum of an additional two years, and three signed copies, or photostats of the original signed instrument effecting the extension, be forwarded to this office.

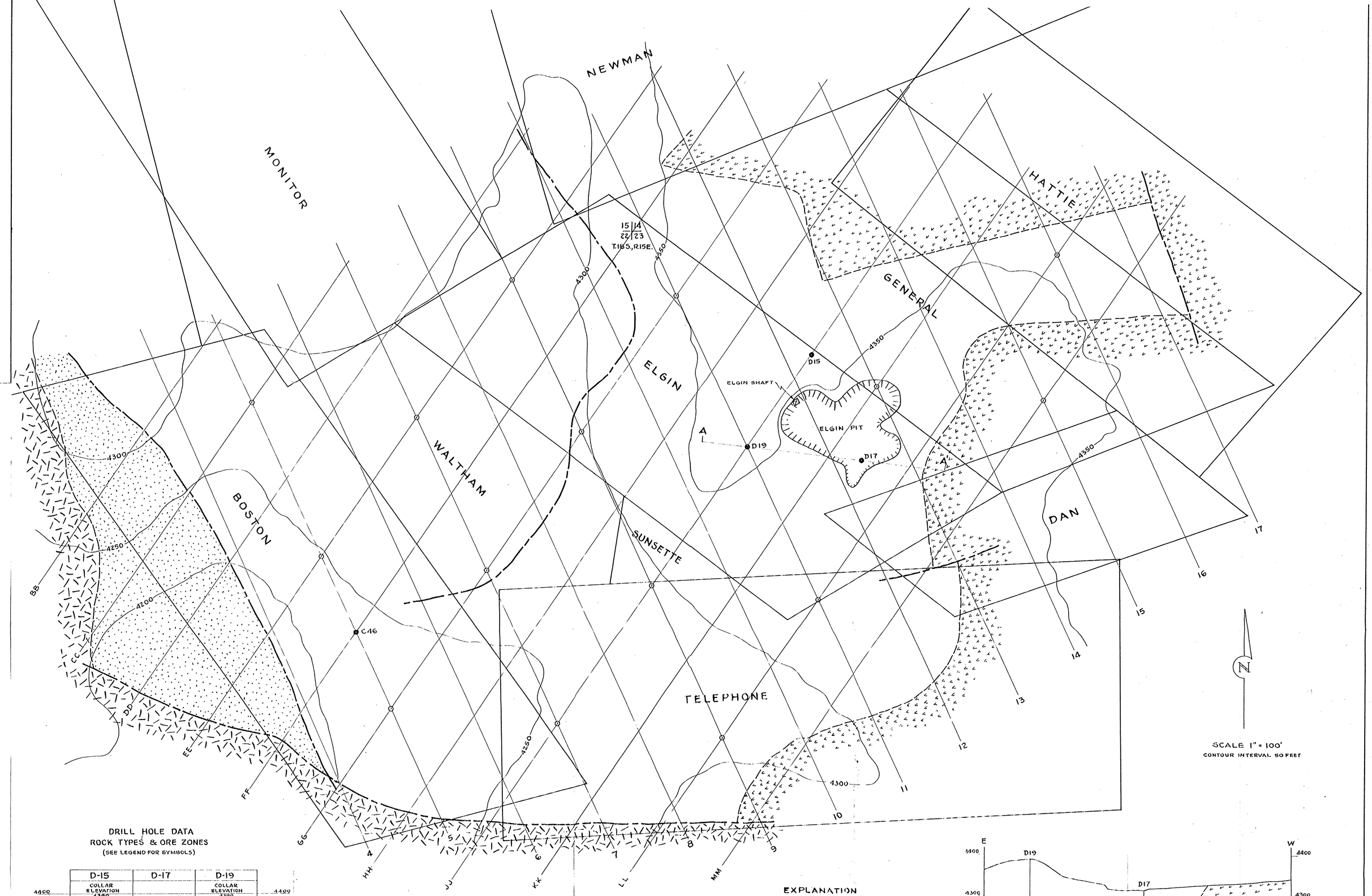
If the Option to Purchase has been exercised by Levisohn Copper Corporation, and if all provisions of the Lease and Option have been met, three photostats of the signed Purchase Agreement or other instrument involved should be forwarded instead of the extension of the Lease and Option.

Very truly yours,

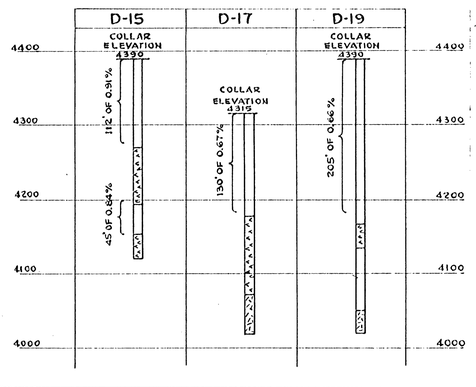
Original signed
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

JWT:prl
cc: Chairman, Op. Comm. (2)
Harshman
Storms
Emerick
Townsend
Corres. file
Charon.



DRILL HOLE DATA
ROCK TYPES & ORE ZONES
(SEE LEGEND FOR SYMBOLS)

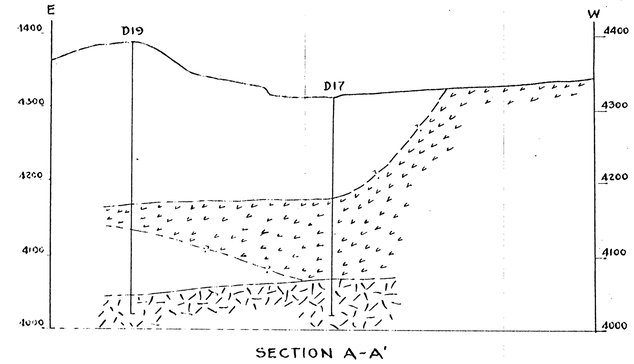


EXPLANATION

- ALTERED LIMEROCK
- QUARTZITE
- MONZONITE
- GRANITE
- CONTACT
- FAULT
- DRILLED CHURN OR DIAMOND DRILL HOLE
- PROPOSED DRILL HOLES

ELEVATIONS REFER TO U.S.G.S. BM.

(TRACED FROM MAP BY LEWISOHN COPPER CORP. 1956)



SECTION A-A'

DMEA 4221 CONTRACT IDM-E1027.

FIGURE 4.- GEOLOGIC MAP, LEWISOHN COPPER CORPORATION, ELGIN MINE, PIMA COUNTY, ARIZONA.

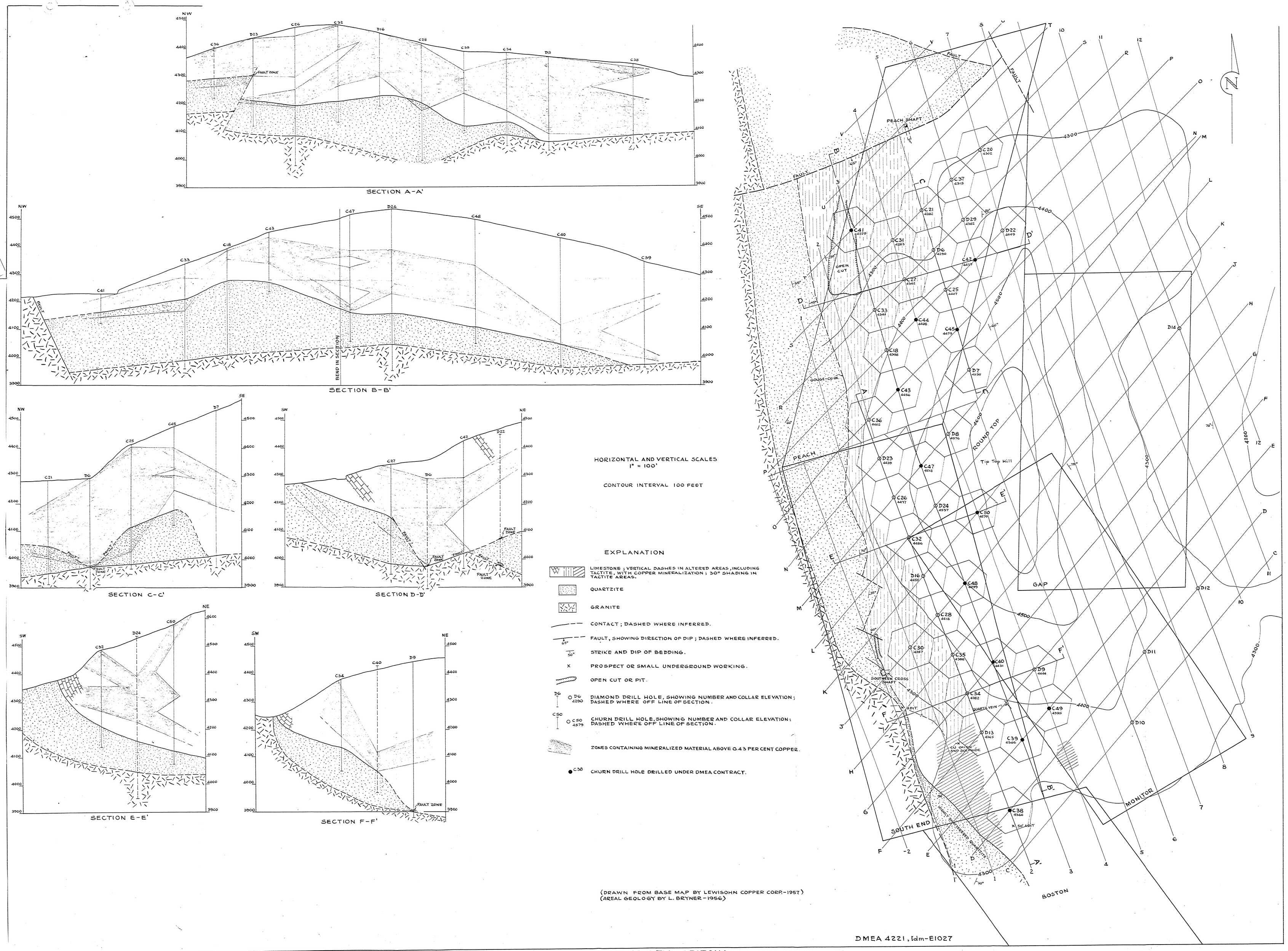


FIGURE 3.- GEOLOGIC MAP AND CROSS SECTIONS, LEWISOHN COPPER CORPORATION, PEACH MINE, PIMA COUNTY, ARIZONA.