For Certificate of Deposit No. 483, dated November 21, 1958, giving royalty payment of $4,315.58, see E-228.

QUADRUPLICATE Treasury Department Circular No. 945 - Rev., Supp. 1 (Third Amendment). Promulgated Sept. 11, 1957 by Treasury Department, Fiscal Service.

CERTIFICATE OF DEPOSIT
Standard Form 219

10/20/58 (Date sent)

14-23-320-478 (Deposit No.)

Identification of Accountable Officer Affected	
(1) Office Deposit Symbol: 9320	(2) For Consolidated Abstract of Treasury Regional Office at (city and state): Portland, Oregon

Deposited with Federal Reserve Bank of San Francisco, Portland, Oreg. Portland Branch
(Name and location of depositary)

(3) The Sum of $17,319.60

(4) Classification of Deposit

Account Symbol	Amount	Account Symbol	Amount
14X4401	$17,319.60	E 4445	$

(6) Department or Agency and address whose accounts are credited, IF OTHER THAN depositing agency.

(5)
Dorothy F. Long, Authorized Collector
U. S. Bureau of Mines
1201 N. Division Street
Spokane 2, Washington

Depositor's title, Department or Agency and address. If deposit is made for another accounting entity, identify in (6).

(7) SPACE BELOW TO BE USED BY DEPOSITARY ONLY. I certify that the above amount has been received for credit in the account of the Treasurer of the United States on the date shown, subject to adjustment for uncollectible items included therein.

(Authorized signature)

(Date of credit in Treasurer's account)

Depositary will date, sign and forward to depositor.

E645 Calera Mining Company $17,319.60

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 22 1958

DATE	INITIALS	CODE
10/22	C	220
		800

QUADRUPLICATE Treasury Department Circular No. 945 - Rev., Supp. 1 (Third Amendment). Promulgated Sept. 11, 1957 by Treasury Department, Fiscal Service.

CERTIFICATE OF DEPOSIT
Standard Form 219

9/22/58 (Date sent)

14-23-020-474 (Deposit No.)

Identification of Accountable Officer Affected

(1) Office Deposit Symbol: 9020

(2) For Consolidated Abstract of Treasury Regional Office at (city and state): Portland, Oregon

Deposited with Federal Reserve Bank of San Francisco, Portland Branch, Oreg.
(Name and location of depositary)

(3) The Sum of $15,164.96

(4) Classification of Deposit

Account Symbol	Amount	Account Symbol	Amount
14X4401	$15,164.96		$

(6) Department or Agency and address whose accounts are credited, IF OTHER THAN depositing agency.

(5)

Dorothy P. Long, Authorized Collector
U. S. Bureau of Mines
1201 N. Division Street
Spokane 2, Washington

Depositor's title, Department or Agency and address. If deposit is made for another accounting entity, identify in (6).

(7) SPACE BELOW TO BE USED BY DEPOSITARY ONLY. I certify that the above amount has been received for credit in the account of the Treasurer of the United States on the date shown, subject to adjustment for uncollectible items included therein.

(Authorized signature)

(Date of credit in Treasurer's account)

Depositary will date, sign and forward to depositor.

E645	Calera Mining Company	$14,733.52
E1154	Mudhole Exploration, Inc.	431.44

DMER

RECEIVED

DATE		
9/24	N.G.	225
		800

QUADRUPLICATE Treasury Department Circular No. 945 - Rev., Supp. 1 (Third Amendment). Promulgated Sept. 11, 1957 by Treasury Department, Fiscal Service.

CERTIFICATE OF DEPOSIT
Standard Form 219

8/22/58 (Date sent)

14-23-920-471 (Deposit No.)

Identification of Accountable Officer Affected	
(1) Office Deposit Symbol: 9920	(2) For Consolidated Abstract of Treasury Regional Office at (city and state): Portland, Oregon

Deposited with Federal Reserve Bank of San Francisco, Portland Branch, Portland, Oregon
(Name and location of depositary)

(3) The Sum of $12,619.55

(4) Classification of Deposit

Account Symbol	Amount	Account Symbol	Amount
14X4431	$ 12,619.55		$

(6) Department or Agency and address whose accounts are credited, IF OTHER THAN depositing agency.

(5)
Dorothy F. Long, Authorized Collector
U. S. Bureau of Mines
1201 N. Division Street
Spokane 2, Washington

Depositor's title, Department or Agency and address. If deposit is made for another accounting entity, identify in (6).

(7) SPACE BELOW TO BE USED BY DEPOSITARY ONLY. I certify that the above amount has been received for credit in the account of the Treasurer of the United States on the date shown, subject to adjustment for uncollectible items included therein.

(Authorized signature)

(Date of credit in Treasurer's account)

Depositary will date, sign and forward to depositor.

E645 Calera Mining Company $12,619.55

OFFICIAL FILE COPY
OMEA
RECEIVED AUG 25 1959

DATE	INITIALS	CODE
8/25	H.g.	225
		800

For Certificate of Deposit No. 466, dated July 18, 1958, giving royalty payment of $11,910.07, see E-493.

FIRST ROYALTY

COPY
RECEIVED 18 1958
DATE
8/18 J. G. 825
800

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

ROYALTY AUDIT CERTIFICATE

I have examined the records and sales documents pertaining to the sale of cobalt, copper and incidental gold and silver for the period of December 9, 1953 to June 20, 1958, by:

THE CALERA MINING COMPANY
Cobalt, Idaho

produced from the Blackbird Mine, located near Cobalt, in Lemhi County, State of Idaho, under the terms of Contract No. Idm E 645, Docket No. DMEA 3143 (cobalt-copper), dated December 9, 1953, including Amendments Nos. 1 to 4 inclusive.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

The audit established the net value of the cobalt and copper (copper included the incidental gold and silver) contained in the mine-run ore for this period to be $2,499,311.00. Royalty due the United States Government at the contract rate of five percent to be $124,965.56. Royalty paid and balance due are as follows:

Total Royalty Due	$124,965.56
Total Royalty Paid	124,965.56
Balance Royalty Due	— 0 —

August 5, 1958

C. A. Turner - Auditor.

III SCOPE OF AUDIT AND FINDINGS

A. CONFERENCE WITH THE EXAMINING ENGINEER

A conference with the examining engineer, Mr. John D. Bardill, Metallurgist, United States Bureau of Mines, disclosed the following:

(a) The Operator does stockpile ore subject to royalty repayment.

The Operator has contracted the open pit mining to the Isbell Construction Co. of Reno, Nevada, whose mining operations have produced more ore than the mill has been able to process. At the time of the audit, a temporary stockpile of 20,741 tons of ore was on hand to be milled.

The stockpiled open pit ore is piled in a separate pile and the production record's control is considered adequate by the examining engineer and this auditor.

(b) The Operator does commingle production subject to DMEA royalties with exempt production.

The allocation of commingled ore subject to DMEA royalties is considered by the examining engineer and this auditor to be equitable.

(c) The Operator does stockpile low-grade ore from the Blacktail open pit, which at the present low prices is submarginal. The present stockpile of 177,844 tons is not expected to have any potential value within the royalty payment period.

It is the opinion of the examining engineer and this auditor that the records maintained by the Operator are adequate to protect the Government's interest.

(d) Assay controls are deemed adequate.

(e) The manner of disposing of production is considered as giving the Government its fair royalty return.

(f) Periodic examinations by the examining engineers indicate that the Operator is properly reporting his production of ore subject to DMEA royalty.

(g) The Operator does not buy from or sell to other operators.

Check Sheet of Examining Engineer

Operator's Name Calera Mining Company

Address Cobalt, Idaho

Exploration Contract No. Idm-E645 Docket No. DMEA-3143

	Check One Yes	No
1. (a) Does the Operator stockpile ore subject to royalty repayment?	x	
(b) If so, is segregation and identification procedure adequate?	x	
2. (a) Does Operator commingle production subject to DMEA royalties with exempt production?	x	
(b) If so, do you consider the allocation of the commingled production equitable?	x	
3. (a) Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		x
(b) If so, are adequate records maintained on such material to protect the Government's interest?		
4. Do you consider the assay controls in effect are adequate?	x	
5. Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	x	
6. Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA royalties?	x	
7. Does the Operator buy from or sell to other Operators?		x

8. Comment on any item 2 (b) to 6 if answer is No.

3. (a) Operator is stockpiling low-grade ores from the Blacktail open pit but at the present low prices they are submarginal. The loan should be repaid in several months so stockpiling of these low-grade ores is not a factor.

John D. Bardill
Mining Engineer

Date June 24, 1958

82448

No. 157 Howard Street
Spokane 4, Washington
August 27, 1958

800

Mr. E. B. Douglas, Manager
Blackbird Division
Calera Mining Company
Cobalt, Idaho

Re: Docket No. DMEA-3143 (Cobalt-Copper)
Blackbird Mine
Lemhi County, Idaho
Contract No. Ida-R643

Dear Mr. Douglas:

One copy of Royalty Audit Certificate and one copy of Royalty Audit Report, dated August 5, 1958, by C. A. Turner, DMEA Auditor, are enclosed for your information and files. This certificate and this report covers the period of December 9, 1955, to June 20, 1958.

Sincerely yours,

Donald R. MacLaren
For: Wing G. Agnew
Acting Executive Officer
DMEA Field Team, Region I

Enclosures

cc: DMEA(2)
[illegible](2)
DMEA(AO)
Turner

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Docket No. DMEA-5020 3143
(Cobalt-Copper)
Calera Mining Company
Contract No. Idm-E645

Dear Mr. Turner:

Your Royalty Audit Certificate and Report on the referenced project are acceptable and normal distribution is authorized.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

GMcCarthy/GMcC
August 19, 1958

cc: Docket
Admr. Reading File
Mr. Chambers

1301 N. Division St.,
Spokane 2, Washington

July 25, 1958

800

MEMORANDUM

To: DMEA Field Team, Region I

From: John B. Bardill, Bureau of Mines

Subject: Method of computing royalty repayments, Docket No. DMEA-3143, Galena Mining Company, Blackbird Mine, Lemhi County, Idaho, Contract No. Ida-3143

Mr. C. A. Turner, DMEA auditor, made a royalty audit at the main mine office on June 24, 1958. I accompanied him to determine the method and the reasonableness and fairness of the method of computing DMEA royalty repayments to the Government on the company's production of cobalt and copper from their Blacktail ore body.

The total amount repayable to the Government under the contract was $185,863.88. The company has repaid $124,965.56 on production through the month of May 1958. At the present rate of repayment, which is expected to continue, the full amount should be repaid in from 4 to 5 months.

All production from the Blacktail ore body is subject to DMEA royalty at the rate of 5 percent on estimated cobalt and copper contents of mine run ore until the whole loan has been repaid. The ore body is being developed to mine a portion of the ore by open pit methods and the remainder by underground methods. Present rate of mining is approximately 1 ton of underground ore to 7 tons of open pit ore. The underground ore results from the development of the mine for underground mining. The open pit ore reserve is expected to be depleted in about a year unless more ore is discovered by drilling now in progress.

The top of the Blacktail ore body is quite oxidized; however, as it attains depth the oxidation progressively lessens. Tests indicate that the oxidized cobalt is very difficult to recover by flotation, resulting in high cobalt losses in the mill tailings. Measures are being taken to decrease these losses.

Prior to 1957, ore was being mined underground from the Dandy, Chicago and Brown Bear stopes.

Non-DMA ore and DMA ore from both open pit and underground Blacktail mining are commingled and milled together. Each ore is carefully weighed and sampled before commingling. Under these conditions it is impossible to accurately determine the cobalt and copper reserveries that would result if each ore was milled separately. Treatment of the ores separately at the present rate of about 1200 tons per day would be unnecessarily expensive and would require either separate milling facilities for each ore or large storage facilities for ores awaiting milling.

The effect of the oxidized Blacktail ores being mixed with the company ores from underground workings is reflected in the cobalt reserveries. The production of Blacktail ore prior to the fall of 1957 was from underground exploration and development. Average tonnage milled was approximately 1,200 tons per day, or roughly 22,000-24,000 tons per month including Blacktail ore.

The following tabulation illustrates the detrimental effect of the Blacktail ores on the overall cobalt reserveries and the month by month estimated cobalt reserveries upon which the company paid royalties; also, the estimated and actual copper reserveries for Blacktail and commingled ores.

B. AUDIT OF SETTLEMENT SHEETS

A considerable amount of preaudit work was accomplished in the DMEA Office, Region I, Spokane, Washington, prior to the on-site audit. This consisted of a recomputation of the detailed settlement sheets. This information was tabulated, and a reconciliation was made with the amounts of royalty receipts indicated by the records of the Finance Officer. These tabulations are filed as a part of my audit working papers. A summary analysis of these statements is included in Section IV of this audit report.

The on-site audit included a comparison and reconciliation of the data compiled during the pre-audit work, with the Operator's production records, sales records and general records in the Company office located at the mine.

The Operator sold the cobalt concentrates to the Garfield Division of the Company, Garfield, Utah; and the copper concentrates to the American Smelting and Refining Co., Tacoma, Washington.

IV CONCLUSIONS AND RECOMMENDATIONS

A summary analysis of the Operator's production of cobalt and copper (copper including the incidental gold and silver), from the mine-run ore produced from the Blacktail ore body of the Blackbird Mine, for the period of December 9, 1953 to May 31, 1958 on which royalty payment was received by the Finance Officer June 20, 1958 follows:

SUMMARY OF ROYALTY PAID ON PRODUCTION TO JUNE 20, 1958

FOR THE PERIOD OF DECEMBER 9, 1953 TO JUNE 20, 1958

Sale of Cobalt to The Calera Mining Co.
Garfield Division, Garfield, Utah

	Tons	Grade
Mine-run ore		
Underground Ore	47,342	.55219%
Open pit ore	83,957	.45566%

Metal Content - Cobalt	Tons	Value
Underground	261.41816	$581,260.44
Open pit	382.56626	803,364.63
Total	643.98442	$1,384,625.07

Royalty Paid	$1,384,625.07	@ 5%	$ 69,231.26

Sale of Copper to The American Smelting and Refining Co.
Tacoma, Washington

Mine-run Ore	Tons	Grade
Underground Ore	47,342	2.24394%
Open pit ore	83,957	2.21650%

Metal Content - Copper	Tons	Value
Underground	1062.32732	$ 473,069.68
Open pit	1860.91223	641,616.25
Total	2923.23955	$1,114,685.93

Royalty Paid	$1,114,685.93	@ 5%	$ 55,734.30
Total Production and Royalty Paid	$2,499,311.00	@ 5%	$124,965.56

The audit has confirmed the accuracy and propriety of the royalty payments received by the Regional Office for the period under dudit, December 9, 1953 to June 20, 1958.

At the conclusion of the audit, the findings were discussed with Mr. G. B. Deacon, chief accountant for The Calera Mining Co.

The audit report and findings were discussed with Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I August 11, 1958.

August 5, 1958

C. A. Turner

C. A. Turner - Auditor

Month	Tons Blackhall ores		Estimated % Co recoveries Company based results	Actual % aver. yearly Co recovery of concentrated ores	Estimated % Co recoveries Company based results	Actual % aver. yearly Co recovery of concentrated ores
Reported recoveries prior to Blackhall ore production				± 80.00		
	Underground	Open pit				
1956						
Thru Sept.	6,690		73.8		86.6	
Oct.	1,558		72.9		90.2	
Nov.	1,932		72.6	66.45	91.4	92.6
Dec.	2,569		64.6		86.2	
1957						
Jan.	1,188		75.3		88.3	
Feb.	1,584		75.2		90.6	
Mar.	2,130		71.9		81.1	
Apr.	3,915		75.1		85.7	
May	2,732		76.6	70.69	86.0	86.3
June	1,166		80.9		90.1	
July	1,454		80.6		82.0	
Aug.	1,368		79.1		87.5	
Sept.	1,124		75.0		85.0	
		5,842	70.0		80.0	
Oct.	2,850		75.0		85.0	
		8,842	68.0		70.0	
Nov.	2,305		76.0		80.0	
		10,073	68.0		70.0	
Dec.	2,086		70.0		80.0	
		7,807	60.0		70.0	
1958						
Jan.	916		65.0		80.0	
		8,934	55.0		70.0	
Feb.	855		70.0		80.0	
		7,658	60.0	55.37	70.0	85.6
Mar.	2,583		70.0		70.0	
		8,642	60.0		75.0	
Apr.	1,609		70.0		70.0	
		11,372	50.0		80.0	

SUMMARY

Period	Tons Blacktail area	Weighted Avg. % Spinli Recoveries: Company based equations	Weighted Avg. % Spinli Recoveries: Total commingled ores
1956	12,720	72.4	66.45
1957	58,186	67.9	70.69
1958 thru April	42,649	57.7	55.37
Weighted average Total Blacktail Ores	113,563	64.57	64.46

Period	Tons Blacktail area	Weighted Avg. % Copper Recoveries: Company based equations	Weighted Avg. % Copper Recoveries: Total commingled ores
1956	12,720	87.8	91.6
1957	58,186	78.1	86.3
1958 thru April	42,649	76.1	85.6
Weighted average Total Blacktail Ores	113,563	78.4	86.6

It is quite a coincidence that the weighted averages of the estimated and actual cobalt recoveries are almost identical. If the cobalt mill recoveries of the underground ores prior to the discovery of the Blackbird were about 80 percent, then the cobalt recoveries of the Blackbird ores if treated alone would probably be considerably lower than the cobalt recoveries of the commingled ores. If this is true the Government is being overpaid.

The mine, mill and Garfield refinery are an integrated operation. It is my understanding that at the time the Blackbird ore body came into production it was tentatively agreed between the Executive Officer and the Operator that, because of the integrated operation, royalty payments would be based on the cobalt and copper contents of the mine run ore plus recovered incidental gold and silver. At the time, cobalt was selling for $2.60 per pound and the Government contract was at the base price of $2.30 per pound. It was tentatively agreed that $1.35 per pound would be a fair price for contained cobalt in the ore. Cost of mining and milling was estimated at $1.00 per pound, leaving a $0.35 per pound profit for the Blackbird Division of the company. When the price of cobalt dropped to the base price of $2.30 per pound the value of contained cobalt to mine was reduced to $1.05 per pound.

As an example of the method of computing cobalt royalty, April 1958 is cited. Production of underground ore was 1,609 tons, averaging 1.13 percent cobalt with an estimated mill recovery of 70 percent. Open pit ore production was 11,372 tons, averaging 0.86 percent cobalt with an estimated mill recovery of 50 percent. Then,

Underground	22.6 lbs. Co (1.13% Co) x 70% recovery x $1.05/lb.	=	$16.61
Open pit	17.2 lbs. Co (0.86% Co) x 50% recovery x 1.05/lb.	=	$ 9.03

This may or may not be a strictly accurate method of computing the royalty, but if the loan will be repaid in several months it makes little difference.

The Operator's estimated average copper mill recoveries for Blackbird ores are approximately 8.2 percent lower than the mill recoveries of commingled ores. This seems reasonable because during the first four months of 1958, Blackbird ores constituted approximately one-half of the entire mill feed and the overall average mill recovery of commingled ores had dropped to 85.6 percent. During 1956, Blackbird ores represented only a small percentage of the total mill feed when the overall mill recovery of commingled ores was 91.6 percent or approximately 5 percent higher than in 1958.

A review of the smelter settlements for copper concentrates shows that the net smelter returns are approximately 71 percent of the gross value of the copper, gold and silver. The Operator evidently used this figure to estimate monthly net smelter return price for copper. For example, the average price of domestic electrolytic copper, f.o.b. refinery, during April 1958 was $0.33 per pound. The Operator estimated the net smelter return for copper during April at $0.235 per pound or approximately 71 percent of $0.33.

As in the case of the method of computing royalties on exhaust production, this may or may not be a strictly accurate method of computation, but if the loan will be repaid in several months it makes little difference.

Under the circumstances I believe the basis for the Operator's methods of computing and repayments is fair and reasonable.

John D. Bardill

Distribution:
DMA (4)
USGS (2)
USBM (10)
Turner
USBM (2)

For Certificate of Deposit No. 464, dated July 3, 1958, giving royalty payment of $14,226.66, see E-9.

No. 157 Howard Street
Spokane 4, Washington

June 16, 1958

800

Mr. E. D. Douglas
Calera Mining Company
Cobalt, Idaho

Re: Docket No. DMEA-3103 (Cobalt-Copper)
Calera Mining Company
Blackbird Mine
Lemhi County, Idaho
Contract No. Idm-0645

Dear Mr. Douglas:

With the approaching close of the fiscal year, it is desirable for DMEA to have its royalty accounts up to date. To this end Mr. Charles Turner, DMEA auditor, and Mr. John D. Bardill, U. S. Bureau of Mines Engineer, will make an audit of the Calera royalty account and plan on arriving at Cobalt on Tuesday, June 24, 1958. Any assistance you or the members of your staff can give them will be much appreciated.

If this date is not convenient, will you please telephone me upon receipt of this letter.

With best regards,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (3)
USBM (2)
USBM (AD)
Turner

EXTRA COPY
DMEA
RECEIVED JUN 10 1958

DATE	INITIALS	CODE
6/12	N.S.	225
		800

So. 157 Howard Street
Spokane 4, Washington

June 5, 1958

Mr. Charles A. Turner
DMEA Auditor
LDEL E. Division
Spokane 2, Washington

Dear Mr. Turner:

Referring to our recent conversation, I suggest that you make audits of the following royalty accounts at your convenience:

Operator	Contract No.	Docket No.
Jennie Moore	Idm-8701	DMEA-3626
Boss Mines, Inc. (Boss & Atlantus)	Idm-1743	DMEA-3546
Calhern Mining Co.	Idm-2649	DMEA-3143

Sincerely yours,

[illegible] E. Heissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2)
Contr. Adm. & Aud.
USGS (2)
USBM (AS)

QUADRUPLICATE Treasury Department Circular No. 945 - Rev., Supp. 1 (Third Amendment). Promulgated Sept. 11, 1957 by Treasury Department, Fiscal Service.

CERTIFICATE OF DEPOSIT
Standard Form 219

Identification of Accountable Officer Affected	
(1) Office Deposit Symbol: 0727	(2) For Consolidated Abstract of Treasury Regional Office at (city and state): Portland, Oregon

5-26-50 (Date sent)

1b-23-22-1-50 (Deposit No.)

Portland Bench

Deposited with Federal Reserve Bank of San Francisco, Portland, Oregon (Name and location of depositary)

(3) The Sum of $12,135.89

(4) Classification of Deposit

Account Symbol	Amount	Account Symbol	Amount
1.2810	$ 12,135.89		$

B-64-5

(6) Department or Agency and address whose accounts are credited, IF OTHER THAN depositing agency.

(5)

Dorothy F. Long, Authorized Collector
U. S. Bureau of Mines
1201 N. Division St.
Spokane 2, Washington

Depositor's title, Department or Agency and address. If deposit is made for another accounting entity, identify in (6).

(7) SPACE BELOW TO BE USED BY DEPOSITARY ONLY. I certify that the above amount has been received for credit in the account of the Treasurer of the United States on the date shown, subject to adjustment for uncollectible items included therein.

(Authorized signature)

(Date of credit in Treasurer's account)

Depositary will date, sign and forward to depositor.

E-645

For Certificate of Deposit No. 454, dated April 23, 1958, giving royalty payment of $10,786.90, see E-246.

E-645

For Certificate of Deposit No. 450, dated March 26, 1958, giving royalty payment of $8,767.22, see E-246.

E-645

For Certificate of Deposit No. 443, dated February 19, 1958, giving royalty payment of $8,955.29, see E-246.

425 New U.S. Courthouse

Portland, Oregon

LETTER OF TRANSMITTAL

DEPOSIT NO.
14-23-020-438

$7,943.85

For credit of 9020, Division of Disbursement, Portland, Oregon 1-22-58
(Name, title, and disbursing or [illegible] identification symbol of accountable officer) [illegible]te sent)

deposited with Federal Reserve Bank of San Francisco Portland Branch Portland, Oregon
(Name and location of depositary)

for accounts listed below. SCHEDULE NOS.

ACCOUNT SYMBOL	TITLE OF ACCOUNT TO BE CREDITED	AMOUNT
14X4401	E-645	$7,943.85

(Depositor will insert below his name, title, Department or Agency concerned, and his address)

Defense Minerals Exploration Administration
c/o U.S. Bureau of Mines
1201 N. Division Street
Spokane 2, Washington

TO ABOVE-NAMED BANK OR TO TREASURER U. S.:

Herewith you will receive the deposit described above. Please observe the distribution printed on each accompanying copy of Standard Form 201.

Dorothy F. Long
(Depositor)
Dorothy F. Long, Authorized Collector

DEPOSITARY WILL RETAIN THIS COPY

16—59686d-1 GPO

QUINTUPLICATE

STANDARD FORM 201 (Formerly Cert. of Deposit, Form 1)
Promulgated Oct. 1949 by Treasury Dept., Fiscal Service

E645 Calera Mining Company $7,943.85

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 24 1958

DATE	INITIALS	CODE
1/24/58	M.J.	AAS
		800

E-645

For Certificate of Deposit No. 432, dated December 19, 1957, giving royalty payment of $10,905.19, see E-493.

For Certificate of Deposit No. 428, dated November 20, 1957, giving royalty payment of $10,016.10, see E-152.

For Certificate of Deposit No. 423, dated October 25, 1957, giving royalty payment of $5,197.27, see E-152.

E-645

For Certificate of Deposit No. 420, dated October 2, 1957, giving royalty payment of $2,397.81, see E-9.

E-645

For Certificate of Deposit No. 416, dated August 23, 1957, giving royalty payment of $1,908.38, see E-152.

For Certificate of Deposit No. 413, dated July 25, 1957, giving royalty payment of $2,279.30, and $1,684.43, see E-41.

425 New U. S. Courthouse Portland, Oregon

LETTER OF TRANSMITTAL

DEPOSIT NO.
14-23-020-390

For credit of 420, Division of Disbursement, Portland, Oregon 3/22/57
(Name, title, and disbursing or other identification symbol of accountable officer) (Date sent)

deposited with Federal Reserve Bank of San Francisco, Portland Branch Portland, Oregon
(Name and location of depositary)

$27,761.27

for accounts listed below. SCHEDULE NOS.

ACCOUNT SYMBOL	TITLE OF ACCOUNT TO BE CREDITED	AMOUNT
14X4401	E-645	$27,761.27

(Depositor will insert below his name, title, Department or Agency concerned, and his address)

Defense Minerals Exploration Administration
c/o U. S. Bureau of Mines
1201 N. Division St.
Spokane 2, Washington

TO ABOVE-NAMED BANK OR TO TREASURER U. S.:

Herewith you will receive the deposit described above. Please observe the distribution printed on each accompanying copy of Standard Form 201.

(Depositor)
Dorothy F. Long, Authorized Collector

DEPOSITARY WILL RETAIN THIS COPY

16—59686d-1 GPO

QUINTUPLICATE

STANDARD FORM 201 (Formerly Cert. of Deposit, Form 1)
Promulgated Oct. 1949 by Treasury Dept., Fiscal Service

Check No. 1309 dated March 20, 1957
Amount - $27,761.27
From: Calera Mining Company
Contract E645, Calera Mining Company
Royalty receipt

E 645

Calera Mining Company

Mr. Weissenborn telephoned from Spokane on February 6, 1957, and spoke to Mr. Palbert and the undersigned about supporting detail required in connection with royalty due under terms of this contract.

It was decided that no request should be made on the operator at this time for any specific detailed information. Instead, we should wait until remittances of royalty have been received. If sufficient information does not accompany the remittances request can then be made or the information may be secured when a royalty audit is made.

C. E. Fisher
2/6/57

Final Inspection Report 1/14/57 estimates $15,000 royalty due

Office Copy
For 800

RECEIVED
DEC 20 1956
DMEA

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

December 19, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-3143 (Cobalt-Copper)
Calera Mining Company
Blackbird Mine
Lemhi County, Idaho
Contract No. Idm-E645

Dear Mr. Selfridge:

I am enclosing herewith three copies of Mr. Douglas' reply to the Field Team's letter of December 4th regarding the payment of royalties on the DMEA discovery of the Blackbird Mine.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: USBM (2)
USBM (AD)
Nickelson

RECEIVED
1956

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

Hee
Nick cc
al
USAM cc(w)
AD cc
DMEA
OPF cc

December 5, 1956

Mr. [illegible] Weissenborn
Executive Office [illegible] Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: [illegible] 3143
[illegible] No. [illegible]

Dear Mr. Weissenborn:

Your Mr. Don McLaren contacted us yesterday in connection with our basis of calculation of and repayments of the D.M.E.A. Loan.

Until a definite method of determination is set we have used the following procedures:

For the calculation of cobalt values:

The average grade of the ore drawn from the Blacktail stated in pounds is multiplied by the estimated recovery of cobalt for the month in the mill, and that result is multiplied by $1.25. The latter figure is our estimated value at the mine per pound of cobalt.

For the calculation of copper value:

The same procedure as above with the exception that the current price of copper is reduced by the marketing charge to get the net smelter value.

The sum of these values multiplied by the number of tons drawn from the Blacktail orebody and that result multiplied by the appropriate royalty rate gives the liability for the month.

As you know the Blacktail ore is not milled separately, so we feel that the average mill recoveries are the most appropriate.

We are awaiting instructions from our New York office on the mechanics of repayment. You no doubt will hear from them in due course.

Yours very truly,

E. B. Douglas, Manager

EBD:srp

cc: VHClarke

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Report of Review
Calaya Mining Company
Contract No. [illegible]
Docket No. DMEA-[illegible]

Dear Mr. Turner:

The recently submitted copies of your Report of Review covering the above-cited project are accepted and normal distribution is authorized.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

EDTalbert/wb
August 20, 1957

Copy to: Docket
Admr. Reading File
Mr. Chambers

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

The Calera Mining Company
Cobalt, Idaho

pertaining to Exploration Project Contract No. Idm-E645, Docket No. DMEA-3143, dated December 9, 1953, including Amendments Nos. 1 to 4, inclusive, and a Termination Agreement dated January 2, 1957, with an effective date of December 9, 1956, for the period of December 9, 1953 to December 9, 1956, covering a project for the exploration of cobalt and copper on property known as the Blackbird Mine, located in Lemhi County, State of Idaho.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Government representative who visited and examined the project, and a determination of the reasonableness and propriety of the costs.

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

(a) The accepted costs ($143,505.12) of all work incurred under a contract provision for payment by the Government on the basis of agreed unit costs of units of work actually performed were covered by an interim Audit Report and Audit Certificate, dated June 17, 1955, issued by C. A. Turner, DMEA Auditor, and

(b) the remaining portion ($122,014.71) of the costs incurred were under a contract provision for payment by the Government on the basis of agreed unit costs of units of work actually performed.

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

Total cost as billed by Contractor	$265,519.83
Exceptions	-0-
Accepted cost	$265,519.83

The contract calls for a 70 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of One hundred eighty-five thousand eight hundred sixty three and 88/100 Dollars

--$185,863.88--

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

C. A. Turner

August 15, 1957

C. A. Turner, Auditor

Schedule of Work Completed

Calera Mining Company | DMEA-3143 | Idm-8645

Agreed Unit Costs

Stage I

Trenching	864	Hrs.	@ $11.878	$10,262.59	
Surface Diamond Drilling	8576.5	ft.	@ 6.96	59,692.44	
Reaming and Cementing	1145	ft.	@ 2.50	2,862.50	
Assays	2346		@ 3.00	7,038.00	
Underground Diamond Drilling	612	ft.	@ 3.3822	2,069.91	
Total Stage I					$ 81,925.44

Stage II

Drifting and Crosscutting	3369	ft.	@ $35.535	$119,717.45	
Timber - Normal	2195.3	ft.	@ 7.00	15,367.10	
Timber - Heavy	750	ft.	@ 7.00	5,250.00	
Timber - Spiling	500	ft.	@ 20.00	10,000.00	
Timber - Framing	447	ft.	@ 5.48	2,449.56	
Timber - Rock Bolts	348		@ 3.54	1,231.92	
Underground Diamond Drilling	6671.5	ft.	@ 3.3822	22,564.36	
Assays	2338		@ 3.00	7,014.00	
Total Stage II					183,594.39
Total					$265,519.83

EXTRA COPY
DMEA
RECEIVED
DATE | CODE

C. A. Turner, Auditor

August 15, 1957

1201 N. Division Street
Spokane 2, Washington

August 28, 1957

8.00

Mrs. Dorothy F. Long, Certifying Officer
DMEA Field Team, Region I
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-3143 (cobalt-copper)
Calera Mining Company
Blackbird Mine
Lemhi County, Idaho
Contract No. Idm-E645

Dear Mrs. Long:

The project work under the referenced contract was performed to the satisfaction of the Government. The contract was terminated by mutual agreement effective December 9, 1956, before completion of the work. A final engineering and geological report has been received from the Operater and accepted by the Executive Officer.

The Government has no interest in supplies or equipment purchased for use on the project.

A final Field Team report will recommend Certification of Discovery.

A final Report of Review dated August 15, 1957 by DMEA Auditor C. A. Turner has been received.

As all contract requirements have been met, it is requested that final settlement of our account with the Operator be made.

Sincerely yours,

A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region I

cc: DMEA (2)
USGS (2)

EXTRA COPY DMEA RECEIVED JUL 10 1957		
DATE	INITIALS	CODE
		800

1261 N. Division St.
Spokane 2, Washington

July 9, 1957

Mr. C. A. Turner
DMEA Auditor, Region I
1261 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-3143 (cobalt-copper)
Salora Mining Company
Blackbird Mine
Lemhi County, Idaho
Contract No. Ida-2645

Dear Mr. Turner:

The project work under the referenced contract was performed to the satisfaction of the Government. The contract was terminated by mutual agreement, effective December 9, 1956, before completion of the work.

A final inspection report was submitted by D. D. Walker on January 14, 1957, together with a supplemental report on April 18, 1957.

The Operator's final engineering and geological report was received in this office on March 22, 1957 and is considered as having met the requirements of Article 7(b) of the contract.

No equipment, materials or supplies were purchased with Government participation; consequently, the Government has no equity in these items.

The Field Team's letter of December 5, 1956 to Washington stated that a discovery can be certified as a result of the DMEA work.

Work units completed within the terms of the contract are as follows:

Stage I	Authorized	Completed
Bulldozing	864 hrs.	864 hrs.
Surface diamond drilling	8,576.5 ft.	8,576.5 ft.
Running	1,145 ft.	1,145 ft.
Assays	3,100 units	2,344 units
Underground diamond drilling	664.38 ft.	612 ft.

Stage II	Authorized	Completed
Drift and crosscut	6,000 ft.	3,369 ft.
Assays	5,900 units	2,338 units
Normal timber	5,000 ft.	2,195.5 ft.
Heavy timber	790 ft.	790 ft.
Framing	1,150 sets	447 sets
Diamond drilling	10,500 ft.	6,671.5 ft.
Rock bolts	1/	348
Spiling	500 ft.	500 ft.

1/ See Amendment No. 2. Total footage included in normal timber.

It is now in order for you to issue your Report of Review.

By Field Team, Region I

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (3)
WRRB (2)
UMRM (AD)
Dunlent
Walker

Standard Form No. 1034—Revised
Form prescribed by
Comptroller General, U. S.
September 7, 1950
(Gen. Reg. No. 51, Supp. No. 11)

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

D. O. Vou. No. .....

Bu. Vou. No. 2035

U. S. .....
(Department, bureau, or establishment)

Voucher prepared at Spokane, Washington 9/5/57
(Give place and date)

THE UNITED STATES, Dr., Payee's Account No. Idm-E645

To Calera Mining Company
(Payee)

Cobalt Idaho
(Address) (City) (State)

PAID BY
RECEIVED SEP 9 1957 D.M.E.A.
(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary) Discount Terms	QUANTITY	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
	October 1956	Balance withheld under Voucher No. 1961, dated 4/2/57, adjusted to audit				499	98
		FINAL PAYMENT					
PAYMENT: Complete ☐ Partial ☐ Final ☐		Use continuation sheet(s) if necessary					
Shipped from	to	Weight	Government B/L No.		Total	499	98

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

(Sign original only)

Date ..... *Payee .....
(This certificate not required when a like certificate is made by payee on attached bill or bills)

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

(Payee must NOT use this space)
Differences .....
Account verified; correct for 499 98
(Signature or initials) L.L.

Contract No.	Date	Req. No.	Date	Invoice Rec'd.

Pursuant to authority vested in me, I certify that this account is correct and proper for payment.

† Approved for $ .....

By .....

Title .....

SIGN ORIGINAL ONLY

† .....
(Authorized Certifying Officer)

Title .....

Date .....

THE REVERSE OF THIS FORM MUST BE EXECUTED WHEN PURCHASES ARE MADE OR SERVICES SECURED WITHOUT WRITTEN AGREEMENT IN ANY FORM

ACCOUNTING CLASSIFICATION (For completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title	Limit'n. or Proj't. Amount	Appropriation Amount

Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT Symbol	COST ACCOUNT Amount	OBJECTIVE CLASSIFICATION Symbol	OBJECTIVE CLASSIFICATION Amount

Paid by { Check No. ..... dated ....., 19....., for $..... } on Treasurer of the United States in favor of payee named above.
{ Cash, $....., on ....., 19.....

Payee .....
(Sign original only)

Per .....

Title .....

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign on the line below "Approved for $.....", and over his official title.

16—22900-3

METHOD OF OR ABSENCE OF ADVERTISING

METHOD OF ADVERTISING

1. Advertising in newspapers Yes ☐ No ☐
2. (*a*) Advertising by circular letters sent to ..... dealers.
   (*b*) And by notices posted in public places Yes ☐ No ☐.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made below.)

ABSENCE OF ADVERTISING

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

.....

.....

.....

.....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, as amended.)

16—22900-2 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950—O-75806

1201 N. Division Street
Spokane 2, Washington

August 28, 1957

Mrs. Dorothy F. Long, Certifying Officer
DMEA Field Team, Region I
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-3143 (cobalt-copper)
Calera Mining Company
Blackbird Mine
Lemhi County, Idaho
Contract No. Idm-E645

Dear Mrs. Long:

The project work under the referenced contract was performed to the satisfaction of the Government. The contract was terminated by mutual agreement effective December 9, 1956, before completion of the work. A final engineering and geological report has been received from the Operator and accepted by the Executive Officer.

The Government has no interest in supplies or equipment purchased for use on the project.

A final Field Team report will recommend Certification of Discovery.

A final Report of Review dated August 15, 1957 by DMEA Auditor C. A. Turner has been received.

As all contract requirements have been met, it is requested that final settlement of our account with the Operator be made.

Sincerely yours,

A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region I

cc: DMEA (2)
USGS (2)
Contract Admin. & Audit Div. (2)
Docket

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1956 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $407,240.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracting Short Form: Spiling		10,000.00	10,000.00		10,000.00	10,000.00
Drilling: Heavy Timbering		5,250.00	5,250.00		5250.00	5250.00
Building: Trenching		10,262.59	10,262.59		10262.59	10262.59
Crosscutting: Framing		2,449.56	2,449.56		2449.56	2449.56
Drifting		119,717.45	119,717.45		119,717.45	119,717.45
Normal Timbering		15,367.10	15,367.10		15367.10	15367.10
(2) Labor and Supervision:						
Lab: Core Drilling Stage 11	1,860.21	20,704.15	22,564.36	1860.21	20704.15	22564.36
Sup: Core Drilling Stage 1		59,692.44	59,692.44		59692.44	59692.44
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber: Core Drilling US Stage 1		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Rails: Reaming - Stage 1		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts		1,231.92	1,231.92		1231.92	1231.92
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes: Stage 2	462.00	6,552.00	7,014.00	462.00	6552.00	7014.00
Liability Insurance						
Sampling & Analysis Stage 1		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	2,322.21	263,197.62	265,519.83	2322.21	263197.62	265519.83

RECEIVED APR 5 1957 D.M.E.A.

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

Date November 6, 1956 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 1125.55

Signature [signature]
(Authorized Certifying Officer)

Date 4/2/57 Vou. No. 1961
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /s/ David S. Walker Title Mining Engineer Date 12/3/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Executive Officer Date 3/25/57

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 56 Docket No. DMEA 3143 Contract No. Idm-K645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	--	--	119,717.45	3,369	35.535	6,000	35.535
Crosscutting	Ft.	--	--	15,367.10	2,195.3	7.00	5,000	7.00
Heavy Timbering	Ft.	--	--	5,250.00	750	7.00	750	7.00
Spiling	Ft.	--	--	10,000.00	500	20.00	500	20.00
Framing	Sets	--	--	2,449.56	447	5.48	1,150	5.48
Assay Cor Stage 11	Ea.	462.00	154	7,014.00	2,338	3.00	5,900	3.00
Core Drilling Stage 11	Ft.	1,860.21	550	22,564.36	6,671.5	3.3822	10,500	3.3822
UG DD Stage 1	Ft.	--	--	2,069.91	612	3.3822	664.38	3.3822
Rockbolts	Ea.	--	--	1,231.92	348	3.54	--	3.54
Trenching	Hrs.	--	--	10,262.59	864	11.878	864	11.878
Drilling Stage 1	Ft.	--	--	59,692.44	8,576.5	6.96	8,576.5	6.96
Assay Stage 1	Ea.	--	--	7,038.00	2,346	3.00	3,100	3.00
Reaming Stage 1	Ft.	--	--	2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		2,322.21		265,519.82				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date November 5, 1956 Operator Calera Mining Company

Per [signature] Title [signature]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

/s/ David A. Walker, Mining Engineer

RECEIVED APR 5 1957 D.M.E.A.

INSTRUCTIONS

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

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

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

GPO 872894

1201 N. Division St.
Spokane 2, Washington

April 2, 1957

Calera Mining Company
Cobalt, Idaho

Re: Docket No. DMEA 3143 (Cobalt and Copper)
Contract No. Ida-2645
Monthly operating report for October 1956

Gentlemen:

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

We are withholding an amount of $500, pending receipt of a final audit by a representative of the Contract Administration and Audit Division of Defense Minerals Exploration Administration. This is the customary procedure and is applicable to all contracts.

By Field Team, Region I, NW District

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: DMEA (2)
USGS (2)
Contract Admin. & Audit Div.
D.Walker
AD

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DMEA
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DATE | CODE

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

OFFICIAL FILE COPY D.M.E.A. RECEIVED APR 5 1957		
DATE	INITIALS	CODE

November 6, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. project No. 3143 for the month of October, 1956.

A long exploratory hole was drilled into the hanging wall approximately 75 feet back from the face of the drift. Several zones of ore grade and width were intersected from 9 to 94 feet. An additional narrow zone of ore grade was intersected from 236 to 239 feet. Mechanical difficulties hampered progress considerably. At 490 feet a bit was twisted off, and the hole was temporarily abandoned.

Another hole was started about 55 feet north of the long one and was drilled to 60 feet before drilling was again suspended because of the necessity of doing additional immediate drilling in the Blacktail zone.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:srp

Enclosures

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1
By L. K. Seigel
Date September, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-109 Mine Blackbird Level 7400

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
Sept 28		0-29						Bl very soft quartzite with biotite
	X7035	0-5	.13	tr.		5	48	banding 45°-40° to core.
	56	5-10	tr.	tr.		5	50	core hard from 0'-5' and 24'-29'
	57	10-14	.02	tr.		4	55	possible major fault between
	58	14-17	.03	tr.		3	70	three zones - with gouge
	59	17-22	.09	tr.		5	52	present at 4', 13', and 20'-23'
	90	22-24	.07	tr.		2	80	dike material (brown at 27')
	91	24-29	tr.	tr.		5	80	recovery poor.
Sept 29		29-100						Schistose quartzite (soft) 60° to
	92	29-34	.11	.09		5	100	core with limonite staining
	93	34-39	.15	.24		5	100	brown dike from 31'-36' with
	94	39-44	.06	.09		5	95	minor sulfides and pink carbonate
	95	44-49	.03	.09		5	94	about 15° to core - fault
	96	49-54	.07	.03		5	90	gouge 40'-49' with minor sulfides
	97	54-59	.03	.03		5	60	49'-59' core very bad struct-
	98	59-62	.11	.10		3	100	ure between 60°-90° - sandy quartz
	99	62-67	.07	.14		5	50	vein 59'-67' - core-
	X7100	67-70	.04	.10		3	60	heavily fractured to 70' with
	01	70-73	.03	.19		3	70	limonite in fractures - fault
	02	73-78	.10	.15		5	40	gouge 77'-79' with minor
	03	78-83	.01	.03		5	80	sulfides - sandy quartz
	04	83-88	.05	.14		5	80	veins 79'-83' with malachite
	05	88-92	.03	.05		4	70	staining 70'-78' - brown dike
	06	92-94	.11	.04		2	90	at 88' with gouge at 90' and
	07	94-100	.03	.11		6	33	brown dike material 90'-92'
								fault gouge 92'-93' - sandy
								quartz 89'-90'.
Sept 30		100-150						Quartzite with broad biotite schist
	08	100-103	.09	.14		5	40	banding 15°-30° to core to
	09	103-111	.07	.19		6	58	120' and 70°-90° to 150'.
	10	111-115	.13	.74		4	70	limonite staining throughout
	11	115-117	.09	1.35		2	60	run core crushed - minor
	12	117-120	.01	tr.		3	100	chalcopyrite replacement to
	13	120-125	.02	.17		5	64	117' comparatively massive
	14	125-130	.02	.13		5	60	115'-117' - fault gouge at 105'
	15	130-135	.01	.33		5	76	129', 141' and 149'-150' scattered
	16	135-140	.03	.14		5	80	garnets at 135'.
	17	140-145	tr.	tr.		5	75	
	18	145-150	.03	.03		5	64	

Hole No. U-74-109

W

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

Budget Bureau No. 42-R1036.5

RECEIVED
OCT 22 1956

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

Month of September, 1956 Docket No. DMEA 3143 Contract No. Idm-R645
Operator's Name Calera Mining Company Minerals Copper & Cobalt
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Drilling		10,000.00	10,000.00		10000.00	10000.00
Heavy Timbering		5,250.00	5,250.00		5250.00	5250.00
Trenching		10,262.59	10,262.59		10262.59	10262.59
Bulldozing						
Framing		2,449.56	2,449.56		2449.56	2449.56
Crosscutting						
Drifting		119,717.45	119,717.45		119717.45	119717.45
Normal Timbering		15,367.10	15,367.10		15367.10	15367.10
(2) Labor and Supervision:						
Core Drilling - Stage II	1521.99	19,182.16	20,704.15	1521.99	19182.16	20704.15
Core Drilling - Stage I		59,692.44	59,692.44		59692.44	59692.44
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Core Drilling NX Stage I		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Reaming - Stage I		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts		1,231.92	1,231.92		1231.92	1231.92
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes - Stage II	279.00	6,273.00	6,552.00	279.00	6273.00	6552.00
Liability Insurance						
Sampling & Analysis Stage I		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	1800.99	261,396.63	263,197.62	1800.99	261396.63	263197.62

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

Date October 3, 1956 *Payee Calera Mining Company

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 1260.69

Signature M. A. P.
(Authorized Certifying Officer)

Date 10/16/56 Vou. No. 1894
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ David D Walker Title Mining Eng. Date 10/15/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Exec. Officer Date 10/16/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1
By L. M. Seigel
Date October, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-112 Mine Blackbird Level 7400
Location 843 D. H.
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
Oct 31		0-40						Quartzite with garnets at
	7501	0-5	.09	.14		5	40	10' in biotite schist about
	02	5-9	.20	.35		4	90	45° to core - quite numerous
	03	9-14	.21	.01		5	90	from 19'-35' becoming widely
	04	14-19	.07	.17		5	86	scattered after - grains
	05	19-24	.02	.05		5	90	of cordierite (?) quite numerous
	06	24-29	tr.	.03		5	80	36'-45' diminishing through
	07	29-35	tr.	tr.		6	67	remainder of run - some
	08	35-40	tr.	tr.		5	60	malachite and limonite
	09	40-45	tr.	tr.		5	90	staining throughout - only
	10	45-51	tr.	tr.		6	100	visible mineralization was
	11	51-56	.01	tr.		5	90	1/8" cobaltite stringer 45°
	12	56-60	.06	.18		4	75	to core from 9'-14'.

Hole No. U-74-112

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1
By E. M. Seigel
Date October, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-111 Mine Blackbird Level 7600

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
Oct 3		0-79						Mostly quartzite with garnets
	X7156	0-5	.03	.15		5	50	in biotite schist 30°-45° to core
	57	5-9	tr.	tr.		4	75	to 29' 60° thereafter - garnets
	58	9-14	.61	.50		5	90	beginning at 5' widely
	59	14-19	.33	.25		5	100	scattered throughout run
	60	19-24	.04	.18		5	100	being numerous from 14'-24' and
	61	24-29	.88	.55		5	100	29'-34' fault gouge 7'-8' 14',
	62	29-34	1.06	.19		5	94	17'-18' chalcopyrite present from
	63	34-39	1.18	.47		5	100	9'-24'; with some cobaltite grains
	64	39-44	.35	.16		5	92	probable ore from 24'-44' with
	65	44-49	.05	.54		5	90	chalcopyrite replacing between
	66	49-54	.03	.03		5	60	30% and 40% of biotite cobaltite
	67	54-59	1.35	.70		5	80	stringers and grains through-
	68	59-64	.55	1.46		5	94	out - white quartz vein 24'-29'
	69	64-69	1.34	1.33		5	80	carbonate staining (green color)
	70	69-74	.02	tr.		5	82	throughout run - fault gouge
	71	74-79	.23	.11		5	56	45'-47' massive quartz
								outlines with cobaltite grains
								59'-64' diminishing through
								69' brown dike 70'-73' with
								fault gouge at 72' and 77'
								some pyrite from 74'-79' with
								malachite staining scattered
								throughout run with showing
								oxidant after dike.
Oct 4		79-109						Quartzite 60°-90° to core except in
	X7172	79-84	.06	tr.		5	80	presence of garnets in which
	73	84-89	.55	.13		4	100	15°-30° is predominate - fault
	74	89-94	.91	.12		6	80	gouge 80'-81', 90', 95', and 108' -
	75	94-99	.04	.10		5	90	109' carbonates in fractures
	76	99-104	.05	.07		5	95	throughout with malachite
	77	104-109	.11	.14		5	80	staining prevalent in area
								of garnets which are
								moderate in occurrence
								from 94'-109' - some
								cobaltite grains scattered
								through 84'-94' - brown
								dike 102'-104' with some
								chalcopyrite 99'-104'

Hole No. U-74-111

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 2
By J. M. Seigel
Date October, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-111 Mine Blackbird Level 7400

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
October 5		109-146						Quartzite 70°-90° to core, 70°
	X7178	109-114	tr.	tr.		5	82	from 131'-136' and 60° 141'-146'
	79	114-116	tr.	tr.		2	100	widely scattered garnets
	80	116-121	tr.	tr.		5	88	in biotite to 136' appearing
	81	121-126	tr.	tr.		5	90	again at 146' - fault gouge
	82	126-131	tr.	tr.		5	80	114' & 120'-121' carbonate
	83	131-136	tr.	tr.		5	84	staining (green color)
	84	136-141	tr.	tr.		5	82	throughout vein with
	85	141-146	tr.	tr.		5	100	malachite staining also
								throughout most of run
								minor chalcopyrite appear
								at 109'-114' and 141'-146'
Oct. 8		146-195						core is much harder here.
	X7219	146-151	tr.	tr.		5	92	Quartzite 60° to core to 156' 36°
	20	151-156	.03	.03		5	86	45° thereafter - widely
	21	156-161	.01	.01		5	80	scattered garnets through
	22	161-166	tr.	tr.		5	82	run O heavy concentration
	23	166-169	tr.	.04		3	90	from 180'-185' - gray dike
	24	169-175	tr.	tr.		6	80	154'-158' with much
	25	175-181	.06	tr.		6	80	carbonates - minor oxidation
	26	181-186	tr.	tr.		5	80	146'-151' fault gouge 152'-153'
	27	186-191	tr.	tr.		5	82	169', 175'-176', 181' and 186'
	28	191-195	tr.	tr.		4	80	heavy limonite staining
								(reddish brown) 170'-195'
Oct 9		195-210						BIT stuck 192' quartzite 60° to
	X7229	195-201	tr.	.03		6	70	core with scattered
	30	201-205	tr.	tr.		4	100	garnets bearing quite
	31	205-210	tr.	tr.		5	96	numerous 205'-210' core
								extremely oxidized with
								the exception of 202'-205'
								fault gouge at 206'.
Oct 10		210-243						Quartzite 60° to core with garnets
	32	210-215	.02	tr.		5	96	throughout bearing abundant
	33	215-220	tr.	tr.		5	94	215'-236' fault gouge 228' and
	34	220-225	.01	tr.		5	100	241' - cobaltite grains
	35	225-230	tr.	tr.		5	90	from 236'-239' in soft rock
	36	230-231		tr. tr.		1	90	(biotite schist) white
	37	231-236	tr.	tr.		5	94	quartz vein 239' - heavy
	38	236-239	.72	.01		3	90	limonite and malachite
	39	239-243	.02	tr.		4	85	staining throughout

Hole No. U-74-111

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 3
By L. N. Seigel
Date October, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-111 Mine Blackbird Level 740

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
Oct 11		243-272						Quartzite 70°-80° to core garnets
	X7240	243-244	.03	.01		1	90	scattered throughout heavy
	41	244-249	.02	.01		5	90	limonite staining fault gouge
	42	249-250	.02	tr.		1	100	254'-255' and 268'-270' - white
	43	250-255	.04	tr.		5	80	quartz vein at 270' - minor
	44	255-260	.23	tr.		5	100	sulfides 255'-260' with native
	45	260-265	tr.	tr.		5	96	copper 260'-265' - core broken
	46	265-270	.05	tr.		5	92	up after 265'.
	47	270-272	.01	.05		2	90	
Oct 16		272-278						Quartzite 60° to core garnets
	48	272-273	tr.	.03		1	80	absent - heavy limonite staining
	49	273-278	.05	.23		5	90	throughout with some green
								color staining (carbonate?)
								At 273'-278' - minor sulfides
								visible 273'-278' fault gouge
								273'-275' core badly crushed
								273'-275'.
Oct 18		278-299						Quartzite about 15° to core to 281'
	50	278-281	tr.	tr.		3	60	then 45° to core - scattered
	52	281-285	.03	.13		4	90	garnets in biotite schist
	53	285-289	.03	.03		4	80	extensive limonite coating
	54	289-294	tr.	tr.		5	82	throughout - gray mud 281'-286'
	55	294-299	.01	.20		5	90	with some carbonates possible
								coarse grained light greenish
								dike - mud again at 297'-299'
								gray dike (basic)
Oct 19		299-346						Schistose quartzite with some
	56	299-303	tr.	.01		4	80	scattered quartzite garnets
	57	303-308	tr.	tr.		5	84	in biotite schist 45° to core -
	58	308-314	.02	.01		6	90	gray dike material through
	59	314-317	tr.	.03		3	100	314' with some fault gouge
	60	317-320	tr.	tr.		3	90	gray dike at 320'-325' with
	61	320-325	.01	tr.		5	96	minor sulfides in heavily
	62	325-330	tr.	tr.		5	100	sulfided core 340'-346'
	63	330-335	tr.	.04		5	93	
	64	335-340	.02	.18		5	90	
	65	340-346	.04	.06		6	80	
Oct 22		346-371						Quartzose schist with numerous
	66	346-352	tr.	tr.		6	90	garnets in biotite schist 45°
	67	352-355	tr.	.05		3	100	to core - no garnets after 353'
	68	355-358	tr.	.12		3	100	limonite staining throughout

Hole No. U-74-111

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 4
By L. K. Seigel
Date October, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-111 Mine Blackbird Level 7400

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
Oct 22		346-371 (cont.)						considerably less than
	X7269	358-363	.01	.03		5	88	preceding run-white
	70	363-365	tr.	.02		2	100	quartz vein 370'-371'
	71	365-369	tr.	tr.		4	90	
	72	369-371	.02	.14		2	100	
Oct 23		371-389						White quartz vein to 374'-
	73	371-374	.04	.05		3	90	numerous garnets in biotite
	74	374-379	tr.	tr.		5	100	schist 45° to core - limonite
	75	379-384	tr.	.07		5	96	coating throughout
	76	384-389	tr.	tr.		5	90	
Oct 24		389-418						Quartzite with few garnets 45°
	77	389-396	.03	.04		7	90	to core + heavy limonite
	78	396-400	tr.	tr.		4	100	staining.
	79	400-407	tr.	tr.		7	80	
	80	407-413	tr.	tr.		6	85	
	81	413-418	tr.	tr.		5	100	
Oct 26		418-428						Quartzite scattered garnets
	82	418-422	tr.	tr.		4	95	in biotite schist 45° to
	83	422-425	.02	.03		3	100	core - white quartz vein
	84	425-428	.01	.01		3	100	422-425'.
Oct 29		428-467						
	85	428-433	tr.	tr.		5	100	Quartzite with widely scattered
	86	433-440	tr.	tr.		7	90	garnets 45° to core to 433
	87	440-443				3	100	70°-90° rest of run with
	88	443-446	tr.	.01		3	90	garnets ending at 456' -
	89	446-449	tr.	.01		3	100	white quartz vein 440'-443'
	90	449-456	.03	.10		7	100	with some sulfides 463'-467'
	91	456-460	tr.	tr.		4	95	in heavily oxidized core.
	92	460-463	tr.	.01		3	100	
	93	463-467	tr.	.04		4	90	
Oct 31		467-490						Quartzite 70°-90° to core light
	94	467-471	tr.	tr.		4	90	limonite and malachite staining
	95	471-477	tr.	.01		6	100	with chlorite in white quartz
	96	477-484	.03	tr.		7	90	470'-472'.
	97	484-490	tr.	tr.		6	95	

Hole No. U-74-111

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
OCT 22 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 195 6 Docket No. DMEA 3143 Contract No. 24-2645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	---	---	119,717.45	3369	35.535	6000	35.535
Normal Drift Timbering	Ft.	---	---	15,367.10	2195.3	7.00	5000	7.00
Heavy Timbering	Ft.	---	---	5,250.00	750	7.00	750	7.00
Spiling	Ft.	---	---	10,000.00	500	20.00	500	20.00
Framing	Sets	---	---	2,449.56	447	5.48	1150	5.48
Assaying Stage II	Ea.	279.00	93	6,552.00	2184	3.00	3900	3.00
Core Drilling Stage II	Ft.	1521.99	450	20,704.15	6121.5	3.3822	10500	3.3822
Underground Dev. Stage I	Ft.	---	---	2,069.91	612	3.3822	664.38	3.3822
Rockbolts	Ea.	---	---	1,231.92	348	3.54	---	3.54
Trenching	Hrs.	---	---	10,262.59	864	11.878	864	11.878
Drilling - Stage I	Ft.	---	---	59,482.44	8576.5	6.96	8576.5	6.96
Assays Stage I	Ea.	---	---	7,038.00	2346	3.00	3100	3.00
Reaming - Stage I	Ft.	---	---	2,862.50	1145	2.50	1145	2.50
TOTAL DISTRIBUTED COSTS		1800.99		263,197.62				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

REMARKS:

Date October 5, 1956 Operator Calera Mining Company

Per _____ Title _____

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

(Instructions on reverse)

(For Government use only)

151 David D Walker

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
OCT 22 1956

October 5, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Dear

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the map and assays pertinent to the D.M.E.A. Project No. 3143 for the month of September 1956.

Work in the 74/843 H. W. Drift North was suspended to allow diamond drilling of the area. The first hole, drilled to the northwest approximately 100 feet from the 74/787 crosscut, intersected no significant mineralization and was completed at 150 feet. A second hole drilled in the same direction 100 feet northwest of the first hole crossed a mineralized zone from 85-100 feet with an average grade of 0.65% Co and 0.11% Cu. A third hole in the opposite direction found no significant mineralization, although assays are incomplete.

A long hole (approximately 600 feet) to the northeast is planned to intersect the mineralized zone found in the second hole and to explore deeply into the hanging wall.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas by
E. B. Douglas, Manager G. B. Deacon

EBD:jm
enclosures

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1
By L. M. Seigel
Date September 1956

DIAMOND DRILLING RECORD

Hole No. U-74-110 Mine Blackbird Level 7400

RECEIVED OCT 22 1956

Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
Sept. 20	X7007	0-5	.06	.07		5	50	BXR biotite schist with few
								garnets - structure 30° to core
								minor sulfides
		5-19						BXG biotite schist with garnets
	8	5-9	.02	.18		4	75	more prevelent fault gouge
	9	9-12	.04	.69		3	70	8'-12' and 16'-17' monor chalcopyrite
	10	12-19	.08	.01		7	64	replacement 9'-12'.
		19-104						Biotite schist with garnets through
	17	19-24	.03	.08		5	96	out run structure 30°-45°
	18	24-29	.04	.37		5	90	fault gouge 27'-29' with
	19	29-34	.23	.98		5	70	minor chalcopyrite s 29'-38'.
	20	34-39	.09	.66		5	50	Limonite staining to this
	21	39-44	.03	tr		5	74	point-fault gouge 38'-39',
	22	44-49	.06	.13		5	30	47'-50', 54'-56' and 65'-66'-
	23	49.-54	.04	.08		5	40	while quartz vein at 68'
	24	54-59	.02	.06		5	42	more fault gouge at 77'
	25	59-64	.04	tr		5	40	84'-86' and 100'-104' structure
	26	64-66	.01	.11		2	100	70° from 76'-95'- 45o there
	27	66-71	.06	tr		5	50	after. diminshing garnets
	28	71-76	.13	.36		5	60	from 81' to 104'.
	29	76-81	.08	.19		5	60	
	30	81-86	tr	tr		5	60	
	31	86-91	tr	tr		5	70	
	32	91-93	tr	.03		2	80	
	33	93-98	.05	.08		5	80	
	34	98-104	.04	.09		6	40	
Sept 24		104-142						Quartzite (soft) 60° to core - fault
	X7042	104-109	.01	.03		5	56	gouge at 104',113'-115',118'-
	43	109-114	.03	.03		5	70	while quartz pebbles 110'-
	44	114-119	.02	.06		5	72	few garnets to 114'
	45	114-124	.06	.08		5	80	Schistose quartzite with many
	46	124-129	.03	.16		5	86	garnets 60° to core to 129'
	47	129-134	.05	.13		5	82	no garnets after 129'- minor
	48	134-139	.04	.07		5	84	chalcopyrite replacement 114-119'.
	49	139-142	tr	tr		3	80	125'-129'.
Sept 26		142-150						Quartzite 129'-150' 30° to core
	51	142-146	.02	tr		4	100	smoky quartz vein 139'-140' quite
	52	146-150	tr	.10		4	75	soft core ground up after
								129' fault gouge 144-145' and
								150.

Hole No. U-74-110

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1
By L. M. Seigel
Date September, 1956

DIAMOND DRILLING RECORD

Hole No. U-74-108 Mine Blackbird Level 7400

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co	% Cu	Oz. Au	Ft.	% C. R.	Geology and Remarks
9-26	X7053	0-5	.07	.19		5	80	BXR biotite schist many garnets
								30° to core - with some
								chalcopyrite replacement.
		5-51						BXC biotite schist 30° to core,
	X7054	5-8	.05	.48		3	90	few garnets from 8' to 16'
	X7055	8-11	.01	.14		3	100	becoming quite numerous
	X7056	11-16	tr.	.07		5	80	from 16'-46', chalcopyrite
	X7057	16-21	.02	.14		5	84	to 11' - fault gouge 20', 24' and
	X7058	21-26	.16	.41		5	80	30' core badly broken and
	X7059	26-31	tr.	.07		5	76	very soft 26'-31', possible
	X7060	31-36	.01	.10		5	78	major fault in this region
	X7061	36-41	.06	.82		5	80	sulfides present from 36'-41'.
	X7062	41-46	.01	.11		5	88	
	X7063	46-51	tr.	tr.		5	78	
		51-75						Quartzite 60° to core - few garnets
	X7064	51-56	.11	.23		5	82	malachite staining to end
	X7065	56-61	.03	.38		5	80	of run - fault gouge 60'-61'-
	X7066	61-64	tr.	tr.		3	100	63', 66'-67', and 69' chalco-
	X7067	64-69	.30	.14		5	90	pyrite replacement 69'-75'
	X7068	69-72	tr.	.02		3	80	with cobaltite grains 72'-75'
	X7069	72-75	.04	.25		3	100	extremely scattered.
		75-115						Schistose quartzite with average
	X7070	75-80	.01	.04		5	70	garnets 60°-90° to core
	X7071	80-85	.16	tr.		5	90	brown dike 75'-77' fault
	X7072	85-90	.83	tr.		5	86	gouge 77'-78' with minor
	X7073	90-95	.51	.15		5	80	sulfides in dike - little or
	X7074	95-100	.61	.17		5	78	no garnets from 80'-115'
	X7075	100-105	.02	.03		5	76	brown dike 89' & fault gouge
	X7076	105-110	.04	.08		5	80	91'-92' - sulfides with some
	X7077	110-115	tr.	.04		5	92	cobaltite grains 85'-100' - fault
								gouge 105', 110', and 115'.
9-27		115-150						Quartzose schist with thick biotite
	X7078	115-120	tr.	tr.		5	84	banding 70°-90° to core to 125'
	X7079	120-125	tr.	tr.		5	80	with malachite staining 45°
	X7080	125-130	.03	.03		5	90	to 140' and 30° to 150' - fault
	X7081	130-135	.01	tr.		5	100	gouge 126', 129'-130' - few
	X7082	135-140	tr.	tr.		5	98	garnets at 124' - absent 130' -
	X7083	140-145	tr.	tr.		5	90	135' - average garnets 135'-140'
	X7084	145-150	tr.	tr.		5	80	none after - brown dike 132'-137'
								fault gouge 133'-134' and 139.

Hole No.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED OCT - 3 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 195 6 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Copper & Cobalt
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts: Spiling		10,000.00	10,000.00		10000.00	10000.00
Heavy Timbering		5,250.00	5,250.00		5250.00	5250.00
Branching		10,262.59	10,262.59		10262.59	10262.59
Framing	21.92	2,427.64	2,449.56	21.92	2449.56	2449.56
Crosscutting						
Drifting	3,908.85	115,808.60	119,717.45	3908.85	115808.60	119717.45
Normal Timbering	105.00	15,262.10	15,367.10	105.00	15262.10	15367.10
(2) Labor and Supervision:						
Core Drilling Stage 2		19,182.16	19,182.16		19182.16	19182.16
Core Drilling Stage 1		59,692.44	59,692.44		59692.44	59692.44
~~Technical Services~~						
(3) Operating Mat'ls. and Supplies:						
Core Drilling U.G. Stage 1		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Reaming Stage 1		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts	509.76	722.16	1,231.92	509.76	722.16	1231.92
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
~~Payroll Taxes~~ Stage II	39.00	6,234.00	6,273.00	39.00	6234.00	6273.00
Liability Insurance						
Sampling & Analysis Stage I		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	4,584.53	256,812.10	261,396.63	4584.53	256812.10	261396.63

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

Date Sept. 7, 1956 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$3209 17

Signature [signature]
(Authorized Certifying Officer)

Date 10-2-56 Vou. No. 1880
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 151 David D Walker Title Mining Engr. Date 9-24-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Wing G Agnew Title Acting Exec. Date 10/2/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
OCT - 8 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1956 Docket No. DMEA 3143 Contract No. Idm-E 645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	Ft.	3,908.85	110	119,717.45	3,369	35.535	6,000	35.535
Normal Drift Tmbrg.	Ft.	105.00	15	15,367.10	2,195.3	7.00	5,000	7.00
Heavy Timbering	Ft.	--	--	5,250.00	750	7.00	750	7.00
Shafts Spiling	Ft.	--	--	10,000.00	500	20.00	500	20.00
Winzes Framing	Sets	21.92	4	2,449.56	447	5.48	1,150	5.48
Assay Stage 11	Ea.	39.00	13	6,273.00	2,091	3.00	5,900	3.00
Drilling Core Stage11	Ft.	--	--	19,182.16	5,671.5	3.3822	10,900	3.3822
Underground D.D.Stage1	Ft.	--	--	2,069.91	612	3.3822	664.38	3.3822
Stripping Rockbolts		509.76	144	1,231.92	348	3.54	--	3.54
Trenching	Hrs.	--	--	10,262.54	864	11.878	864	11.878
Drilling Stage 1 Core	Ft.	--	--	59,692.44	8,576.5	6.96	8,576.5	6.96
Assay Stage 1	Ea.	--	--	7,038.00	2,346	3.00	3,100	3.00
Reaming Stage 1	Ft.	--	--	2,862.50	1,145	2.50	1,145	2.50
Total Distributed Costs		4,584.53		261,396.63				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs								

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

Date September 7, 1956 Operator Calera Mining Company
Per [signature] Title [signature]

Remarks:

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

(Instructions on reverse)

(For Government use only)

/s/ David D Walker
Mining Engineer

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

OCT - 8 1956

September 5, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are map and assays pertinent to the D.M.E.A. Project No. 3143 for the month of August 1956.

During the month the 74/843 H. W. Drift North was advanced 110 feet. A total of 144 rock bolts were installed to stabalize the weak ground. At a point approximately 20 feet from the present face of this drift, badly fractured and sheared ground was encountered which required the driving of spiling. Four sets of spiled drift timber were stood.

The development of the Blacktail orebody was continued. This work consisted of constructing an access road and collaring a drift at the 7675 elevation, which was advanced 18 feet. Preparatory work for collaring a drift at the 7265 elevation was 70 per cent completed. Drifting was continued on the 7540 Level. A stope raise was collared and advanced 11 feet on the 7400 Level.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas

E. B. Douglas, Manager

EBD:jm
enclosures

ASSAY RECORD
CALERA MINING CO.

RECEIVED OCT - 8 1956

Chute Sect. _____ Level 740

August, 1956 Working 843 S. E.

Date	Sample Number	Location From	Location To	Kind	Wth.	% Co	% Cu	Oz. Au		REMARKS
8-2	10741A	726	A60	Chip	6	tr.	tr.			Face
8-5	10748A	728	A86	"	4	.12	.65			"
8-6	11145A	726	A93	"	5	tr.	tr.			"
8-7	11148A	"	A98	"	6½	.06	.15			"
8-9	12204A	"	A116	"	7	.06	.02			"
8-13	12211A	"	A125	"	7	.04	.08			"
8-15	12215A	"	A140	"	7	.06	.17			"
8-16	12219A	"	A144	"	6½	.07	tr.			"
8-17	12222A	"	A149	"	4	.09	.10			" L to R
	B	"	"	"	7	.06	.02			"
8-18	12225A	"	A154	"	3	.14	.08			" "
	B	"	"	"	7	.11	.02			" "
8-19	12227A	"	A166	"	6	.07	tr.			

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 10 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1956 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals copper & cobalt
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts: Bailing		10,000.00	10,000.00		10000.00	10000.00
Heavy Timbering		5,250.00	5,250.00		5250.00	5250.00
Trenching		10,262.59	10,262.59		10262.59	10262.59
Freezing	5.48	2,422.16	2,427.64	5.48	2422.16	2427.64
Drifting	4,264.20	111,544.40	115,808.60	4264.20	111544.40	115808.60
Normal Timbering	35.00	15,227.10	15,262.10	35.00	15227.10	15262.10
(2) Labor and Supervision:						
Coredrilling Stage 2		19,182.16	19,182.16		19182.16	19182.16
" Supervision " 1		59,692.44	59,692.44		59692.44	59692.44
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Coredrilling Stage 1&2		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Reaming Stage 1		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts	428.34	293.82	722.16	428.34	293.82	722.16
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes Stage 11	51.00	6,183.00	6,234.00	51.00	6183.00	6234.00
Liability Insurance						
Sampling & Analysis Stage 1		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	4,784.02	252,028.08	256,812.10	4784.02	252028.08	256812.10

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

Date August *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 3348 81

Signature [signature]
(Authorized Certifying Officer)

Date 9-7-56 Vou. No. 1862
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature (S) David D Walker Title Mining Eng. Date 8-29-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Wing G Agnew Title Acting Exec. Date 8-30-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
SEP 10 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1956 Docket No. DMEA 3143 Contract No. Idm-2645

Operator's Name Calera Mining Company Minerals cobalt & copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	4,264.20	120	115,808.60	3259	35.535	6000	35.535
Normal Drift Tmbrg.	Ft.	35.00	5	15,262.10	2180.3	7.00	5000	7.00
Heavy Timbering	Ft.	--	--	5,250.00	750	7.00	750	7.00
Shafts Spiling	Ft.	--	--	10,000.00	500.00	20.00	500	20.00
Winzes Framing	Sets	5.48	1	2,427.64	443	5.48	1150	5.48
Drilling Core Assay Stage 11	Ea.	51.00	17	6,234.00	2078	3.00	5900	3.00
Churn Stage 11	Ft.	--	--	19,182.16	5671.5	3.3822	10.500	3.3822
Underground Auger Stage 1	Ft.	--	--	2,069.91	612	3.3822	664.38	3.3822
Stripping Rockbolts		428.34	121	722.16	204	3.54	--	3.54
Trenching	Hrs.	--	--	10,262.59	864	11.878	864	11.878
Drilling Stage 1 Test Pits	Ft.	--	--	59,692.44	8576.5	6.96	8576.5	6.96
Assay Stage 1 Roads and Trails	Ea.	--	--	7,038.00	2346	3.00	3.000	3.00
Reaming Stage 1	Ft.	--	--	2,862.50	1145	2.50	1.145	2.50
TOTAL DISTRIBUTED COSTS		4,784.02		256,812.10				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date August 1956 Operator Calera Mining Company

By [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 David D Walker

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
SEP 10 1956

August 2, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the map and assays pertinent to D.M.E.A. Project No. 3143 for the month of July 1956.

During the month the 74/843 H. W. Drift North was advanced 120 feet. One set of drift timber and 121 rock bolts were installed to support the weak rock which was encountered.

The development of the Blacktail ore body, which is part of this D.M.E.A. project, was continued on Calera's account. The recent development consisted of a total of 356 feet of drift on the 7540 Level, a service raise connecting the 7400 and 7540 Levels, and the driving of three crosscuts - two on the 7400 Level and one on the 7540 Level. The installation of one stope chute on the 7400 Level was 75 per cent completed.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas

E. B. Douglas, Manager

EBD:jm
enclosures--

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
JUL 23 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June 1956 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Copper & Cobalt

Address Cobalt, Idaho

Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Spiling		10,000.00	10,000.00		10000.00	10000.00
Short Form Heavy Timbering		5,250.00	5,250.00		5250.00	5250.00
Driling Trenching		10,262.59	10,262.59		10262.59	10262.59
Bulldozing Framing	120.56	2,301.60	2,422.16	120.56	2301.60	2422.16
Crosscutting	4370.81	107,173.59	111,544.40	4370.81	107173.59	111544.40
Drifting Normal Timbering	798.00	14,429.10	15,227.10	798.00	14429.10	15227.10
(2) Labor and Supervision: Core Drilling Stage 2		19,182.16	19,182.16		19182.16	19182.16
Labor " " " " 1		59,692.44	59,692.44		59692.44	59692.44
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies: Core Drilling UC Stage1		2,069.91	2,069.91		2069.91	2069.91
Timber						
Explosives Reming Stage 1		2,862.50	2,862.50		2862.50	2862.50
Pipe						
Track Rock Bolts		293.82	293.82		293.82	293.82
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis Stage 11	84.00	6,099.00	6,183.00	84.00	6099.00	6183.00
Payroll Taxes						
Liability Insurance Sampling&Analysis Stage 1		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	5373.37	246,654.71	252,028.08	5373.37	246654.71	252028.08

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

Date July 7, 1956 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 3,761.36

Signature M.A.P.
(Authorized Certifying Officer)

Date 7-20-56 Vou. No. 1822

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 1st David D Walker Title Mining Eng Date 7-19-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Wm G Agnew Title Acting Exec Date 7-19-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
JUL 23 1956

Month of June 1956 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	4,370.81	123	111,544.40	3139	35.535	6000	35.535
~~Normal~~ Drift Timber-	Ft.	798.00	114	15,227.10	2175.3	7.00	5000	7.00
ing Heavy Timbering	Ft.	---	---	5,250.00	750	7.00	750	7.00
~~Shafts~~ Spiling	Ft.	---	---	10,000.00	500.00	20.00	500	20.00
~~Winze~~ Framing	Sets	120.56	22	2,422.16	442	5.48	1150	5.48
~~Drilling~~: Core Assay Stage	Ea.	84.00	28	6,183.00	2061	3.00	5900	3.00
Drilling: Core Stage 1	Ft.	---	---	19,182.16	5671.5	3.3822	10.500	3.3822
Underground D.D. Stage 1	Ft.	---	---	2,069.91	612	3.3822	644.38	3.3822
~~Stripping~~ Rock Bolts		---	---	293.82	83	3.54	---	3.54
Trenching	Hrs.	---	---	10,262.59	864	11.878	864	11.878
~~Drilling~~ Stage 1 Core	Ft.	---	---	59,692.44	8576.5	6.96	8576.5	6.96
~~Assay~~ and Stage 1	Ea.	---	---	7,038.00	2346	3.00	3,100	3.00
~~Reaming~~ - Stage 1	Ft.	---	---	2,862.50	1145	2.50	1.145	2.50
TOTAL DISTRIBUTED COSTS		5,373.37		252,028.08				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date July 7, 1956 Operator Calera Mining Company
By [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 David D Walker

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
JUL 23 1956

July 6, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of June, 1956.

During the month the 787 H.W. Crosscut was advanced 8 feet at which point it was named the 843 H.W. drift north and advanced 115 feet for a total of 123 feet. This heading encountered a moderately faulted and contorted Garnet Schist cut by some irregular Quartz zones and replaced by some Cobalt-Copper mineralization at one place on the turn to the north west. The general incompetency of the ground required the standing of 23 sets of timber.

No diamond drilling was done under the D.M.E.A. contract.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:jm
encl--

Form [illegible]54 (Rev.)
([illegible] 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
JUL 2 - 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1956 Docket No. DMEA 3143 Contract No. Ida-R645
Operator's Name Calera Mining Company Minerals Copper and Cobalt
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Contracts: Spiling		10,000.00	10,000.00			
Short Form Heavy Timbering		5,250.00	5,250.00			
Trenching		10,262.59	10,262.59			
Framing	27.60	2,274.20	2,301.60			
Drifting	1,137.12	106,036.47	107,173.59			
Normal Timbering	196.00	14,233.10	14,429.10			
(2) Labor and Supervision:						
core Drilling Stage2		19,182.16	19,182.16			
Core " " 1		59,692.44	59,692.44			
(3) Core Drilling U.G. Stage1		2,069.91	2,069.91			
Explosives						
Reaming Stage 1		2,862.50	2,862.50			
Track						
Rock Bolts		293.82	293.82			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Stage 11		6,099.00	6,099.00			
Liability Insurance						
Sampling & Analysis						
Stage 1		7,038.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	1,360.52	245,294.19	246,654.71	1360.52	245294.19	246654.71

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

Date June 6, 1956 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 952 36

Signature M.D.P.
(Authorized Certifying Officer)

Date 6-26-56 Vou. No. 1805
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 1st David D. Walker Title Mining Engr. Date 6-21-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st A. E. Weissenborn Title Exec Officer Date 6/25/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

F-104A
(1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1956 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	1137.12	32	107,173.59	3016	35.535	6000	35.535
Normal Timbering	Ft.	196.00	28	14,429.10	2061.3	7.00	5000	7.00
Heavy Timbering	Ft.	---	--	5,250.00	750	7.00	750	7.00
Spiling	Ft.	---	--	10,000.00	500.00	20.00	500	20.00
Framing	Sets	27.40	5	2,301.60	420	5.48	1150	6.48
Drilling Core Assy. Stage 11	Ea.	---	--	6,099.00	2033	3.00	5900	3.00
Drilling Churn Stage 11	Ft.	---	--	19,182.16	5671.5	3.3822	10800	3.3822
Underground Auger Stage 1	Ft.	---	--	2,069.91	612	3.3822	664.38	3.3822
Rock Bolts		---	--	293.82	83	3.54		3.54
Trenching	Hrs.	---	--	10,262.59	864	11.878	864	11.878
Drilling: Stage 1 Core	Ft.	---	--	59,692.44	8576.5	6.96	8576.5	6.96
Assy Stage 1	Ea.	---	--	7,038.00	2346	3.00	3100	3.00
Reaming Stage 1	Ft.	---	--	2,862.50	1145	2.50	1145	2.50
TOTAL DISTRIBUTED COSTS		1360.52		246,654.71				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date June 6, 1956 Operator Calera Mining Company

Per [signature] Title [signature]

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

REMARKS: 18 ft. of disallowed drifting amounting to $639.63 was subtracted from total drifting before computing this months costs.

(Instructions on reverse)

(For Government use only)

/s/ David D Walker

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
JUL 2 - 1956

June 4, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the monthly and progress reports pertinent to the D.M.E.A. project No. 3143 for the month of May, 1956.

No diamond drilling was done under the D.M.E.A. contract.

In the latter part of the month work was resumed in the 74/787 N. W. crosscut. This heading was advanced 32 feet in waste. Because of the small amount of advance no maps are included with this report.

We have corrected the records by deducting 18 feet of drift that was shown in our January, 1956 report, and was disallowed by the government officials.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas

E. B. Douglas, Manager

EBD/jm
encls--

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAY 31 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1956 Docket No. DMEA 3143 Contract No. IDM-E645
Operator's Name Calera Mining Company Minerals Copper & Cobalt
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Inspecting Contracts: Short Form		10,000.00	10,000.00		10000.00	10000.00
Heavy timbering		5,250.00	5,250.00		5250.00	5250.00
Bulldozing trenching		10,262.59	10,262.59		10262.59	10262.59
Framing		2,274.20	2,274.20		2274.20	2274.20
Drifting		106,676.10	106,676.10		106036.47	106036.47
Normal Timbering		14,233.10	14,233.10		14233.10	14233.10
(2) Labor and Supervision:						
Core drilling stage 2	591.89	18,590.27	19,182.16	591.89	18590.27	19182.16
Supervision		59,692.44	59,692.44		59692.44	59692.44
Technical Services						
(3) Operating Materials and Supplies:						
Core drilling Stage 1		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Raise Reaming State 1		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts		293.82	293.82		293.82	293.82
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Stage II	171.00	5,928.00	6,099.00	171.00	5928.00	6099.00
Liability Insurance						
Sampling & Analysis Stage 1		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	762.89	245,170.93	245,933.82	762.89	244531.30	245294.19

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

Date May 6, 1956 Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 534 02

Signature MOP
(Authorized Certifying Officer)

Date 5/23/56 Vou. No. 1780
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature (S) Alfred P. Service Title Mining Engr. Date 5/18/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Wing G. Agnew Title acting Exec. Officer Date May 21-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

RECEIVED
MAY 31 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1956 Docket No. DMEA 3143 Contract No. IDME 645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.			$ 106,676.10	3,002	35.535	6,000	35.535
Normal timbering	Ft.			14,233.10	2033.3	7.00	5,000	7.00
Heavy timbering	Ft.			5,250.00	750	7.00	750	7.00
Spiling	Ft.			10,000.00	500.00	20.00	500	20.00
Framing	Sets			2,274.20	415	5.48	1,150	5.48
Assay: Stage 2	Each	171.00	57	6,099.00	2,033	3.00	5,900	3.00
Drilling core stage2	Ft.	591.89	175	19,182.16	5671.5	3.3822	10,500	3.3822
Underground dd.stage	Ft.			2,069.91	612	3.3822	664.38	3.3822
Rock bolts				293.82	83	3.54		3.54
Trenching	Hrs.			10,262.59	864	11.878	864	11,878
Drilling core stg. 1	Ft.			59,692.44	8576.5	6.96	8576.5	6.96
Assays stage 1	each			7,038.00	2,346	3.00	3,100	3.00
Reaming stage 1	Ft.			2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		762.89		$ 245,933.82				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS								

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

Date May 6, 1956 Operator Calera Mining Company
Per [signature] Title [signature]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

/s/ Alfred R Service

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
MAY 31 1956

April 30, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of March, 1956.

No headings were advanced under the D.M.E.A. contract.

Diamond drilling amounted to 175 feet for the month.

The hole drilled northeast from the south end of the Blacktail zone to test the hanging wall was completed. No mineralization of significance was intersected in the hanging wall, and the Blacktail zone itself proved to be narrow and low grade at this point.

The second up-hole drilled at 78½° over the north end of the Blacktail zone was also completed. This hole intersected 14 feet of ore of very good grade and with some secondary copper enrichment.

Drilling on the 7400 Level has been suspended for the present to allow the advance of development headings.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:srp

Enclosures

Form [redacted]v.)

UNITED STATES
DEPART[redacted]ENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAY 8 - 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1956 Docket No. DMEA 3143 Contract No. Ida-8645
Operator's Name Calera Mining Company Minerals Copper & Cobalt
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Drilling		$ 10,000.00	$ 10,000.00		10000.00	10000.00
Secondary Timbering		5,250.00	5,250.00		5250.00	5250.00
Trenching		10,262.59	10,262.59		10262.59	10262.59
Framing		2,274.20	2,274.20		2274.20	2274.20
Drifting		106,676.10	106,676.10		106036.47	106036.47
Normal Timbering		14,233.10	14,233.10		14233.10	14233.10
(2) Diamond Drilling:						
Core Drilling Stage 2	2,367.54	16,222.73	18,590.27	2367.54	16222.73	18590.27
Supervision " " 1		59,692.44	59,692.44		59692.44	59692.44
Diamond Drilling						
Core Drilling U. S. Co. St. 1						
(3) Construction Materials:						
Timber		2,069.91	2,069.91		2069.91	2069.91
Entrance						
Pinchbeaming Stage 1		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts		293.82	293.82		293.82	293.82
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes Stage 11	657.00	5,271.00	5,928.00	657.00	5271.00	5928.00
Liability Insurance						
Sampling & Analysis Stage 1		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	3,024.54	242,146.39	245,170.93	3024.54	241506.76	244531.30

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

Date April 6, 1956 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$2117 18

Signature [signature]
(Authorized Certifying Officer)

Date 5/3/56 Vou. No. 1765
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ Alfred L. Service Title Mining Engr Date 4/30/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weisenborn Title Exec. Officer Date 4/30/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

FO[illegible]-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 8 - 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 195 6 Docket No. DMEA 3143 Contract No. Idm 2645
Operator's Name Calera Mining Company Minerals Copper & Cobalt
Address Cobalt, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	ft.			106,676.10	3002	35.535	6,000	35.535
Normal Timbering	ft.			14,233.10	2033.3	7.00	5,000	7.00
Stoping	ft.			5,250.00	750	7.00	750	7.00
Heavy Timbering	ft.			10,000.00	500.00	20.00	500	20.00
Chute Spiling	ft.			2,274.20	415	5.48	1,150	5.48
Wings Framing	sets			5,928.00	1976	3.00	5,900	3.00
719 Drilling: Core Assay St. II	ftss.	657.00	219	18,590.27	5496.5	3.3822	10,500	3.3822
Drilling: Core Stage II	ft.	2367.54	700	2,069.91	612	3.3822	664.38	3.3822
Underground D.D. St. 1	ft.			293.82	83	3.54		3.54
Stripping Rockbolts				10,262.59	864	11.878	864	11.878
Trenching	hrs.			59,692.44	8576.5	6.96	8,576.5	6.96
Drilling: Core Stage I	ft.			7,038.00	2346.	3.00	3,100	3.00
Drifting Stage I	ea.			2,862.50	1145	2.50	1,145	2.50
Roads and Trails	ft.							
Total Distributed Costs		3,024.54		245,170.93				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs								

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

Date April 5, 1956 Operator Calera Mining Company
Per [signature] Title [signature]

Remarks:

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

(Instructions on reverse)

(For Government use only)

151 Alfred R. Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

April 8, 1956

RECEIVED

MAY 8 - 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of March, 1956.

No headings were advanced under the D.M.E.A. contract.

Diamond drilling amounted to 700 feet for the month.

Drilling of the Horseshoe zone from the 74/787 crosscut was completed. A zone about 6 feet wide striking north 75° west was found 175 feet beyond the face of the crosscut. At best the zone is of moderate grade.

A hole was drilled southwest from the collar of the 74/787 crosscut to complete the drilling between the Brown Bear and Blacktail zones. Two mineralized zones were intersected about 50 feet apart. The first zone is too low grade to be of much consequence, but the second is of good grade and 8 feet wide. However, the rest of the drilling in this area indicated the mineralization to be rather narrow and discontinuous at this elevation.

A hole is now being drilled to test the hanging wall of the Blacktail zone on both sides of a north trending major fault. So far only mineralization of very low grade has been found.

A hole was drilled at plus 45° from the 7400 drift north above the 74/852 drift north and found the Blacktail zone to be 47 feet thick, of good grade, and dipping about 40° along this plane. A second hole at plus 78½° has so far intersected 14 feet of ore of good grade.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:srp

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
APR 26 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1956 Docket No. DMEA 3143 Contract No. Idm. - E645
Operator's Name Calera Mining Company Minerals Copper & Cobalt
Address Cobalt, Idaho
Contract Amount, 607,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Sailing		10,000.00	10,000.00		10000.00	10000.00
[redacted] Heavy Timber		5,250.00	5,250.00		5250.00	5250.00
[redacted] Trenching		10,262.59	10,262.59		10262.59	10262.59
[redacted] Framing	49.32	2,224.88	2,274.20	49.32	2224.88	2274.20
Drifting	1,563.54	105,112.56	106,676.10	1563.54	104472.93	106036.47
Normal Timbering	336.00	13,897.10	14,233.10	336.00	13897.10	14233.10
(2) [redacted]:						
Core [redacted] Drill St. 2	1,843.30	14,379.43	16,222.73	1843.30	14379.43	16222.73
[redacted] " " 1		59,692.44	59,692.44		59692.44	59692.44
[redacted] Services						
(3) [redacted]:						
Core Drilling U. C. St. 1		2,069.91	2,069.91		2069.91	2069.91
[redacted]						
[redacted] Ream St. 1		2,862.50	2,862.50		2862.50	2862.50
Track						
Rock Bolts	293.82		293.82	293.82		293.82
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
[redacted] Stage 2	540.00	4,731.00	5,271.00	540.00	4731.00	5271.00
Liability Insurance						
Sampling & Analysis Stage 1		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	4,625.98	237,520.41	242,146.39	4625.98	236880.78	241506.76

I certify that the above bill is correct and just and that payment therefor has not been received.
Date March 6, 1956 *Payee Calera Mining Company

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 3238 19

Signature Myrtle J Purdy
(Authorized Certifying Officer)

Date 4-20-56 Vou. No. 1757
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6645 in accordance with the terms of the contract.

Signature /S/ Alfred R. Service Title Mining Engr Date 3/30/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Wing G. Agnew Title Acting Exec Officer Date 4/20/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

RECEIVED
APR 26 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 6 Docket No. DMEA 3163 Contract No. 16. 6049
Operator's Name Calora Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
[illegible]	Co.	$1,563.38	44	100,676.10	2958	33.53	6,000	15.53
[illegible] Tunneling	Ft.	330.00	48	14,233.10	1963.5	7.00	5,000	7.00
Cross-cutting Tunneling	Ft.			5,250.00	750	7.00	750	7.00
[illegible] Mining	Ft.			10,000.00	500	20.00	500	20.00
[illegible] Shaft Sinking	Cu. Yd.	49.38	9	2,274.20	495	5.48	1,150	5.48
[illegible] Stope	Sq. Ft.	540.00	180	5,271.00	1577	3.00	5,900	3.00
Drilling Core	Ft.	1863.30	549	16,222.73	4231.5	3.3822	10,500	3.3822
Underground Charges	Ft.			2,069.91	612	3.3822	664.38	3.3822
[illegible] Automatics		291.82	83	293.82		3.54		3.54
Stripping	Cu. Yd.			20,262.59	164	11.878	165	11.878
Trenching	Ft.			39,692.04	8576.5	4.96	5,576.5	6.90
Test Pits	Ft.			7,038.00	2346	3.00	3,000	3.00
[illegible]	Ft.			2,862.50	1145	2.50	1,149	2.50
		4,025.38		242,166.37				

							Total Costs Authorized by Contract
Total Distributed Costs							
Operating Equipment Purchased							
Initial Rehabilitation and Repairs							
New Buildings, Improvements, etc.							
Total Costs							

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

March 6, 1956 Calora Mining Company

Date ..... Operator .....

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

Remarks: .....

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

(Instructions on reverse)

(For Government use only)

Is, Alfred R Service

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY
BLACKBIRD DIVISION
COBALT, IDAHO

RECEIVED
APR 26 1956

March 8, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project #3143 for the month of February, 1956.

The 74/787 H. W. Crosscut was advanced 44 feet in the early part of the month and stopped at the projection of the hanging wall mineralized zone for the purpose of diamond drilling. This heading continued to advance through a sheared, faulted and fractured garnet schist that required the driving of spiling. A total of nine sets of drift timber were stood.

From this heading a hole was drilled to 294 feet by the end of the month. Narrow zones of ore grade were intersected at 9½ feet, 175 feet and 181 feet. The last two zones would constitute 9½ feet of better than ore grade. The hole is being continued to approximately 300 feet, and another hole will be drilled to intersect this mineralization 100 feet to the northwest.

Drilling in the Blacktail zone was completed for the present. The long hole to prospect the hanging wall was completed at 502 feet with no further mineralization of significance found. Two hundred feet to the southeast another hole was drilled into the hanging wall for a distance of 226 feet. Two zones of ore grade and width were crossed.

Sincerely yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:srp

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
APR 26 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1956 Docket No. DMEA 3143 Contract No. Idm-3645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Term Spiling		10,000.00	10,000.00		10000.00	10000.00
Heavy Timbering	276.50	4,973.50	5,250.00	276.50	4973.50	5250.00
Trenching		10,262.59	10,262.59		10262.59	10262.59
Framing	54.80	2,170.08	2,224.88	54.80	2170.08	2224.88
Drifting	2,487.45	102,625.11	105,112.56	1847.82	102625.11	104472.93
Normal Timbering	371.00	13,526.10	13,897.10	371.00	13526.10	13897.10
(2) Labor and Supervision:						
Core Drilling Stage II	3,476.90	10,902.53	14,379.43	3476.90	10902.53	14379.43
Core Drilling Stage I		59,692.44	59,692.44		59692.44	59692.44
Technical Services						
(3) Operating Materials and Supplies:						
Core Drilling UG Stage I		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Pipe Reaming Stage I		2,862.50	2,862.50		2862.50	2862.50
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes Stage II	810.00	3,921.00	4,731.00	810.00	3921.00	4731.00
Liability Insurance						
Sampling and Analysis Stage I		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	7,476.65	230,043.76	237,520.41	6837.02	230043.76	236880.78

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

Date February 8 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 4785 91

Signature MAP
(Authorized Certifying Officer)

Date 4-20-56 Vou. No. 1757
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645- in accordance with the terms of the contract.

Signature 1S/ Alfred R. Service Title Mining Engr Date 2/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1S/ Wm G. Agnew Title Acting Exec Officer Date 4/20/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

RECEIVED
APR 2 6 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 6 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	Ft.	2,487.45	70	105,112.56	2958	35.535	6000	35.535
Crosscutting	Ft.	371.00	53	13,897.10	1985.3	7.00	5000	7.00
Raising	Ft.	276.50	39.5	5,250.00	750	7.00	750	7.00
Shafts	Ft.			10,000.00	500.00	20.00	500	20.00
Winzes	Sets	54.80	10	2,224.88	406	5.48	1150	5.48
Drilling: Core	Ea.	810.00	270	4,731.00	1577	3.00	5900	3.00
Drilling: Core Stage II	Ft.	3,476.90	1028	14,379.43	4251.5	3.3822	10500	3.3822
Drilling: Auger	Ft.			2,069.91	612	3.3822	6646.38	3.3822
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Test Pits	Ft.			59,692.44	8576.5	6.96	8576.5	6.96
Roads and Trails	Ea.			7,038.00	2346	3.00	3100	3.00
Reaming Stage I	Ft.			2,862.50	1145	2.50	1145	2.50
Normal Timbering								
Heavy Timbering								
Spiling								
Framing								
Assay Stage II								
Assay Stage I								
Underground Dr Stage I								
Total Distributed Costs		$ 7,476.65		$ 237,520.41				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$ 7,476.65		$ 237,520.41				

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

Date February 8 Operator Calera Mining Company
Per [signature] Title [signature]

Remarks:

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

(Instructions on reverse)

(For Government use only)

/s/ Alfred R Service

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

APR 26 1956

February 3, 1956

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month January, 1956.

Work on the D.M.E.A. Project was continued on a three shift basis for the month. The 74/787 H.W. Crosscut was advanced 52 feet. This heading continued to advance through a sheared and fractured zone that requires the driving of spiling.

The 74/852 Drift North was collared and advanced 18 feet. This is being driven to examine the ore body in the northwest area of the D.M.E.A. Project that was found by the underground diamond drilling.

Diamond drilling amounted to 1,028 feet for the month. Drilling to the north from the face of the 7400 drift north intersected 5½ feet of ore. Four holes on the south end of the newly explored part of the Blacktail zone indicate the ore zone in this area to be of good grade but rather irregular in shape. Hole U-74-80 was extended to 500 feet to test the hanging wall of the zone and intersected mineralization revealed in the surface trenches and missed by surface drilling. However, the ore intersected is rather narrow and low grade. Drilling of the footwall so far shows a similar type of mineralization.

Another hole was completed in the area between the Brown Bear and Blacktail ore zones and also located mineralization which appears to be discontinuous and of marginal grade.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas

E. B. Douglas, Manager

EBD:srp

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
APR 26 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1955 Docket No. DMEA 3143 Contract No. Idm-8645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contractor:						
Short Form:						
Drilling	740.00	9,260.00	10,000.00	740.00	9260.00	10000.00
Heavy Timbering	378.00	4,595.50	4,973.50	378.00	4595.50	4973.50
Trenching		10,262.59	10,262.59		10262.59	10262.59
Framing	109.60	2,060.48	2,170.08	109.60	2060.48	2170.08
Crosscutting						
Drifting	6,787.19	95,837.92	102,625.11	6787.19	95837.92	102625.11
Normal Timbering	700.00	12,826.10	13,526.10	700.00	12826.10	13526.10
(2) Labor and Supervision:						
Core Drilling Stage II Labor	3,238.46	7,664.07	10,902.53	3238.46	7664.07	10902.53
Core Drilling Stage I Supervision		59,692.44	59,692.44		59692.44	59692.44
Technical Services						
(3) Operating Materials and Supplies:						
Core Drilling UG Stage I Timber		2,069.91	2,069.91		2069.91	2069.91
Explosives						
Pipe Reaming Stage I		2,862.50	2,862.50		2862.50	2862.50
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes Stage II	756.00	3,165.00	3,921.00	756.00	3165.00	3921.00
Liability Insurance						
Sampling and Analysis Stage I		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	12,709.25	217,334.51	230,043.76	12709.25	217334.51	230043.76

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

Date January 6 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 8896 48

Signature [signature]
(Authorized Certifying Officer)

Date 4-20-56 Vou. No. 1757
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature (S) Alfred L Service Title Mining Eng Date Jan 19-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W Zoldok Title Mining Eng Date 1-18-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
APR 26 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	6,787.19	191	102,625.11	2,888	35.535	6,000	35.535
Crosscutting								
Normal Timbering	Ft.	700.00	100	13,526.10	1932.3	7.00	5,000	7.00
Raising								
Heavy Timbering	Ft.	378.00	54	4,973.50	710.5	7.00	750	7.00
Shaft								
Spiling	Ft.	740.00	37	10,000.00	500.0	20.00	500	20.00
Shaft								
Framing	Sets	109.60	20	2,170.08	396	5.48	1,150	5.48
Drifting								
Assay Stage II	Each	756.00	252	3,921.00	1,307	3.00	5,900	3.00
Drilling Core								
Drilling Core Stage II	Ft.	3,238.46	957½	10,902.53	3223.5	3.3822	10,500	3.3822
Underground								
DD Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Test Pits								
Drilling Core Stage I	Ft.			59,692.44	8,576.5	6.96	8,576.5	6.96
Roads and Trails								
Assay Stage I	Each			7,038.00	2,346	3.00	3,100	3.00
Reaming Stage I	Ft.			2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		12,709.25		230,043.76				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		12,709.25		230,043.76				

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

Date January 6 Operator Calera Mining Company

Per [signature] Title [signature]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

151 Alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

APR 26 1956

January 4, 1955

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of December, 1955.

The 74/787 Hanging Wall Crosscut continued to be worked on a three shift basis and was advanced 191 feet during the month. A total of 100 feet of the crosscut required timbering; 54 feet of which was weakened by north trending fault and required the driving of spiling.

Drilling of the northern hanging wall part of the Blacktail Zone has now outlined an orebody of good grade over 400 feet in length and an average of 31 feet wide. Two holes drilled to the northeast failed to locate ore east of the major fault which appears to bisect the Blacktail Zone. A third and much longer hole is planned in this area. Another hole is being started from the face to intersect the zone as far north as possible. Drilling is also being started to further examine a possible southeast extension of the small footwall zone, which was intersected in one hole out of two drilled to the southwest.

Drilling continued in the area between the Brown Bear and Blacktail zones. So far two holes have located a zone which is rather narrow and spotty in distribution but of ore grade.

Gold assays of the Blacktail zone show that although they are somewhat better in general than the Chicago and Brown Bear zones, the values are not of the importance as was first indicated.

Very truly yours,,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:srp

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED JAN 3

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ ~~Short Form~~ Spilling		9,260.00	9,260.00		9260.00	9260.00
~~Drift~~ Heavy Timbering	378.00	4,217.50	4,595.50	378.00	4217.50	4595.50
~~Bulkhead~~ Trenching		10,262.59	10,262.59		10262.59	10262.59
~~Crosscutting~~ Framing	158.92	1,901.56	2,060.48	158.92	1901.56	2060.48
Drifting	6,645.05	89,192.87	95,837.92	6645.05	89192.87	95837.92
Normal Timbering	1,057.00	11,769.10	12,826.10	1057.00	11769.10	12826.10
(2) ~~Labor and Supervision~~:						
Core Drilling Stage II	2,589.07	5,075.00	7,664.07	2589.07	5075.00	7664.07
Core Drilling Stage I		59,692.44	59,692.44		59692.44	59692.44
~~Technical Services~~						
(3) ~~Operating Materials and Supplies~~						
Core Drilling UG Stage I		2,069.91	2,069.91		2069.91	2069.91
~~Explosives~~						
Reaming Stage I		2,862.50	2,862.50		2862.50	2862.50
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
~~Payroll Taxes~~ Stage II	717.00	2,448.00	3,165.00	717.00	2448.00	3165.00
Liability Insurance						
Sampling and Analysis Stage I		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	11,545.04	205,789.47	217,334.51	11545.04	205789.47	217334.51

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

Date December 6 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 8081 53

Signature [signature]
(Authorized Certifying Officer)

Date 12-23-55 Vou. No. 1674
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ Alfred R Service Title Mining Engr Date 12-19-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 12-20-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

RECEIVED
JAN 3 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 195 5 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	6,645.05	187	95,837.92	2,697	35.535	6,000	35.535
Normal Timbering	Ft.	1,057.00	151	12,826.10	1,832.3	7.00	5,000	7.00
Heavy Timbering	Ft.	378.00	54	4,595.50	656.5	7.00	750	7.00
Spiling	Ft.			9,260.00	463	20.00	500	20.00
Framing	Sets	158.92	29	2,060.48	376	5.48	1,150	5.48
Assaying: Core Stage II	Ea.	717.00	239	3,165.00	1,055	3.00	5,900	3.00
Drilling: Core Stage II	Ft.	2,589.07	765½	7,664.07	2,266	3.3822	10,500	3.3822
Underground DD Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Drilling Core Stage I	Ft.			59,692.44	8,576.5	6.96	8,576.5	6.96
Assay Stage I	Ea.			7,038.00	2,346	3.00	3,100	3.00
Reaming Stage I	Ft.			2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		11,545.04		217,334.51				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		11,545.04		217,334.51				

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

Date December 6 Operator Calera Mining Company
Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ Alfred R Service

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

December 5, 1955

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-R645

Dear Mr. Weissenborn:

Enclosed are maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of November, 1955.

The 7400 Drift North was advanced 25 feet on a three shift basis. The drift encountered moderately weak caving ground caused by north trending faults and required the standing 6 sets of timber. This heading was stopped temporarily for diamond drilling.

The 74/787 Hanging Wall Crosscut was advanced 117 feet on a three shift basis. The drift encountered badly faulted and fractured schistose quartzite and garnet schist requiring heavy timbering for 54 feet. Beyond this distance the faulting was less severe and required only 32 feet of timbering.

Holes are being drilled northeast and southwest from the 7400 Drift North to locate the northern extension of the Blacktail zone, 552½ feet of drilling in this area have located two possible ore zones. The footwall zone in the left rib has been intersected in only one hole and is narrow but of good grade. The hanging wall zone has been intersected in two holes and is wide and of very good grade. Drilling is now being concentrated on this more promising hanging wall zone.

The hole drilled west along the 17,293 north coordinate line was abandoned at 272 feet because of drilling difficulties. Two small zones of ore grade were intersected but were not of sufficient width.

Two holes were drilled from the dead end footwall drift to locate the northern extension of the Brown Bear Zone. The southernmost hole intersected ore of good grade 3½ feet wide. The hole drilled from the face intersected no significant mineralization. A third hole is being started from the main haulage drift and drilled southwest to examine this same possible zone 100 feet farther to the north.

Yours very truly,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas

EBD:abd

Enclosures

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV 21 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Spiling		9,260.00	9,260.00		9260.00	9260.00
[redacted] Heavy Timber	77.00	4,140.50	4,217.50	77.00	4140.50	4217.50
[redacted] Trenching		10,262.59	10,262.59		10262.59	10262.59
[redacted] Framing	186.32	1,715.24	1,901.56	186.32	1715.24	1901.56
Drifting	9,701.06	79,491.81	89,192.87	9701.06	79491.81	89192.87
Normal Timbering	1,169.00	10,600.10	11,769.10	1169.00	10600.10	11769.10
(2) [redacted]:						
Core Drilling Stage II	764.38	4,310.62	5,075.00	764.38	4310.62	5075.00
Core Drilling Stage I		59,692.44	59,692.44		59692.44	59692.44
[redacted]						
(3) [redacted]						
Core Drilling UG Stage I		2,069.91	2,069.91		2069.91	2069.91
[redacted]						
[redacted] Reaming Stage I		2,862.50	2,862.50		2862.50	2862.50
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
[redacted] Stage II	258.00	2,190.00	2,448.00	258.00	2190.00	2448.00
Liability Insurance						
Sampling and Analysis Stage I		7,038.00	7,038.00		7038.00	7038.00
(8) Contingencies (specify):						
TOTALS	12,155.76	193,633.71	205,789.47	12155.76	193633.71	205789.47

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

Date November 6 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 8509.03

Signature [signature]
(Authorized Certifying Officer)

Date 11-16-55 Vou. No. 1646
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature /S/ Alfred P. Service Title Mining Engr Date Nov 14-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr Date Nov 14-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV 21 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	9,701.06	273	89,192.87	2,510	35.535	6,000	35.535
Normal Timbering	Ft.	1,169.00	167	11,769.10	1,681.3	7.00	5,000	7.00
Heavy Timbering	Ft.	77.00	11	4,217.50	602.5	7.00	750	7.00
Spiling	Ft.			9,260.00	463	20.00	500	20.00
Framing	Sets	186.32	34	1,901.56	347	5.48	1,150	5.48
Assay Stage II	Ea.	258.00	86	2,448.00	816	3.00	5,900	3.00
Drilling Core Stage II	Ft.	764.38	226	5,075.00	1,500.5	3.3822	10,500	3.3822
Underground D.D. Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Drilling Core Stage I	Ft.			59,692.44	8,576.5	6.96	8,576.5	6.96
Assay Stage II	Ea.			7,038.00	2,346	3.00	3,100	3.00
Reaming - Stage I	Ft.			2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		12,155.76		205,789.47				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		12,155.76		205,789.47				

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

Date November 6, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

NOV 21 1955

November 3, 1955

October

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-2645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of October, 1955.

The 7400 Drift North was advanced 273 feet on a three shift basis during this month. The drift encountered weak caving ground in three areas and a total of 167 feet of the drift required the standing of timber.

A hole is being drilled west along the 17,298 North coordinate beneath a surface trench showing a possible ore zone. The self potential survey also indicates a mineralized zone in this area. The first 226 feet of the hole shows numerous small basic dikes accompanied by faults of varying size. A rather sparsely mineralized zone was intersected from 207½ to 226 feet including a narrow high chalcopyrite zone 222 to 223 feet. Assays are not complete for the entire zone. If definite ore is not intersected, it is planned to drill this hole to approximately 300 feet.

Yours very truly,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:erp

Enclosures

cy to Lunsway
11-14-55

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
NOV - 7 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ ~~Short Form~~ Spiling Contracts	840.00	8,420.00	9,260.00			
~~Drilling~~ Heavy Timbering	294.00	3,846.50	4,140.50			
~~Bulldozing~~ Trenching		10,262.59	10,262.59			
~~Crosscutting~~ Framing	98.64	1,616.60	1,715.24			
Drifting	6,893.79	72,598.02	79,491.81			
Normal Timbering	672.00	9,928.10	10,600.10			
(2) ~~Labor and Supervision~~:						
Core Drilling Stage II		4,310.62	4,310.62			
Core ~~Band~~ Drilling Stage I		59,692.44	59,692.44			
~~Supervision~~						
~~Technical Services~~						
(3) ~~Operating Mat'ls and Supplies~~:						
Core Drilling UG Stage I		2,069.91	2,069.91			
~~Timber~~						
~~Explosives~~						
~~Pipe~~ Reaming-Stage I		2,862.50	2,862.50			
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
~~Payroll Taxes~~ Stage II	69.00	2,121.00	2,190.00			
~~Liability Insurance~~						
Sampling and Analysis Stage I		7,038.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	$8,867.43	$184,766.28	$193,633.71	8867.43	184766.28	193633.71

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

Date October 6 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 6207 20

Signature [signature]
(Authorized Certifying Officer)

Date 11/2/55 Vou. No. 1636
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 151 Alfred L Service Title Mining Eng Date 10/29/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Stephen W Zoldok Title Mining Engr Date 10/31/55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV - 7 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt and Copper

Address Cobalt, Idaho

OPERATION		Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting		Ft.	6,893.79	194	79,491.81	2,237	35.535	6000	35.535
Normal	Timbering	Ft.	672.00	96	10,600.10	1,514.3	7.00	5000	7.00
Heavy	Timbering	Ft.	294.00	42	4,140.50	591.5	7.00	750	7.00
Shafts	Spiling	Ft.	840.00	42	9,260.00	463	20.00	500	20.00
Winzes	Framing	Sets	98.64	18	1,715.24	313	5.48	1150	5.48
Assay	Stage II	Ea.	69.00	23	2,190.00	730	3.00	5900	3.00
Drilling Core	Stage II	Ft.			4,310.62	1,274.5	3.3822	10500	3.3822
Underground DD	Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Stripping									
Trenching		Hrs.			10,262.59	864	11.878	864	11.878
Drilling Core	Stage I	Ft.			59,692.44	8,576.5	6.96	8576.5	6.96
Assay	Stage I	Ea.			7,038.00	2,346	3.00	3100	3.00
Reaming -	Stage I	Ft.			2,862.50	1,145	2.50	1145	2.50
Total Distributed Costs			$8,867.43		$193,633.71				Total Costs Authorized by Contract
Operating Equipment Purchased									
Initial Rehabilitation and Repairs									
New Buildings, Improvements, etc.									
Total Costs			$8,867.43		$193,633.71				

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

Date October 6, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

Remarks:

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

(Instructions on reverse)

(For Government use only)

151 Alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
NOV - 7 1955

October 3, 1955

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-2643

Dear Mr. Weissenborn:

Enclosed is the map and assays pertinent to the D.M.E.A. Project No. 3143 for the month of September.

The work in the 7400 Drift North continued on a three shift basis with the advance amounting to 194 feet for the month.

In the first part of the month, the drift continued to advance in a heavy ground that required timber and the driving of spiling. However, a firmer argillaceous quartzite has been encountered and the drift is now advancing without timber, encountering moderately dipping North-South faults about 30 feet apart.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:srp

Enclosures

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

W

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
SEP 26 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Short Form Spiling	100.00	8,320.00	8,420.00			
Heavy Timber	819.00	3,027.50	3,846.50			
Trenching		10,262.59	10,262.59			
Framing	164.40	1,452.20	1,616.60			
Drifting	5,507.93	67,090.09	72,598.02			
Normal Timbering	1,078.00	8,850.10	9,928.10			
(2):						
Core Drilling - Stage II	749.16	3,561.46	4,310.62			
Core Drilling - Stage I		59,692.44	59,692.44			
(3)						
Core Drilling US Stage I		2,069.91	2,069.91			
Explosives						
Reaming - St. I		2,862.50	2,862.50			
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Stage II	309.00	1,812.00	2,121.00			
SAMPLING & Analysis Stage I		7,038.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	$8,727.49	$176,038.79	$184,766.28	8727.49	176038.79	184766.28

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

Date September 6 *Payee Calera Mining Company

By [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 6109 24

Signature [signature]
(Authorized Certifying Officer)

Date 9-21-55 Vou. No. 1610

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6645 in accordance with the terms of the contract.

Signature /S/ Alfred C. Service Title Mining Engr Date 9-20-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldoff Title Mining Engr Date 9-21-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
SEP 26 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1955 Docket No. DMEA 3143 Contract No. Idm-E-645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	5,507.93	155	72,598.02	2,043	35.535	6000	35.535
Normal Timbering	Ft.	1,078.00	154	9,928.10	1,418.3	7.00	5000	7.00
Heavy Timbering	Ft.	819.00	117	3,846.50	549.5	7.00	750	7.00
Spiling	Ft.	100.00	5	8,420.00	421.0	20.00	500	20.00
Framing	Sets	164.40	30	1,616.60	295	5.48	1150	5.48
Assay Stage II	Ea.	309.00	103	2,121.00	707	3.00	5900	3.00
Drilling Core Stage II	Ft.	749.16	221.5	4,310.62	1274.5	3.3822	10500	3.3822
Underground DD Stage I	Ft.	-	-	2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.	-	-	10,262.59	864	11.878	864	11.878
Drilling Core Stage I	Ea.	-	-	59,692.44	8576.5	6.96	8576.5	6.96
Assay Stage I	Ea.	-	-	7,038.00	2,346	3.00	3,100	3.00
Reaming - Stage I	Ft.	-	-	2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		$8,727.49		$184,766.28				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$8,727.49		$184,766.28				

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

Date September 6, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 Alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

SEP 26 1955

September 7, 1955

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143, for the Month of August, 1955.

The D.M.E.A. Project continued to be operated on a three-shift basis, with the total advance amounting to 155 feet. The 74/787 Hanging Wall Crosscut was advanced 147 feet in a badly fractured schistose quartzite and garnet schist. All of the crosscut required the standing of drift timber and 117 feet required heavy timbering.

As soon as the diamond drilling was completed in the 7400 Drift North, the miners were moved back into this drift and it was advanced 8 feet in very heavy ground that required the use of spiling.

Diamond Drilling in the 7400 Drift North intersected a mineralized zone along the drift from 150 feet to 600 feet SE of the present face. The zone is very irregular in shape and is off-set by numerous north-south faults. Two parts of the mineralized zone, each about 130 feet in length and from 2-to-16 feet wide, may be of minable grade and width.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:cp

Enclosures

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
AUG 29 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July 5 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
~~kkkkkkkk Spiling~~		~~8,320.00~~	~~8,320.00~~			
(1) Independent Contracts:						
Short Form kkkkk						
kkkkk Heavy Timber		3,027.50	3,027.50			
Drilling kkkkkkk Trenching		10,262.59	10,262.59			
Bulldozing kkkkkkkkkk Framing	54.80	1,397.40	1,452.20			
Crosscutting	10,127.48	56,962.61	67,090.09			
Normal Timbering	336.00	8,514.10	8,850.10			
(2) Labor Supervision:						
Core Drilling kkkk Stage II	2,707.45	854.01	3,561.46			
Core Drilling Stage I		59,692.44	59,692.44			
Supervision kkkkkkkkkkkkkk						
Technical Services kkkkkkkkkkkkkkkkkkkk						
(3) Operating Mat'ls and Supplies:						
Core Drilling Mat'ls St. I		2,069.91	2,069.91			
Lumber kkkkk						
Explosives kkkkkkkkk						
Reaming - Stage I kkkk		2,862.50	2,862.50			
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis kkkkkkkkkk Stage II	717.00	1,095.00	1,812.00			
Payroll Taxes kkkkkkkkkkkkk						
Liability Insurance Sampling & Analysis Stage I		7,038.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	13,942.73	162,096.06	176,038.79	13942.73	162096.06	176038.79

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

Date August 5, 1955 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 9759 91

Signature MOP
(Authorized Certifying Officer)

Date 8-24-55 Vou. No. 1590
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the ~~best~~ of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature /S/ Alfred R. Service Title Mining Engr. Date 8-22-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Goldoh Title Mining Engr. Date 8-22-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG 29 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	10,127.48	285	67,090.09	1,888	35.535	6000	35.535
Normal Timbering	Ft.	336.00	48	8,850.10	1,264.3	7.00	5000	7.00
Heavy Timbering	Ft.			3,027.50	432.5	7.00	750	7.00
Spiling	Ft.			8,320.00	416.0	20.00	500	20.00
Framing	Sets	54.80	10	1,452.20	265	5.48	1150	5.48
Assay Stage II	Ea.	717.00	239	1,812.00	604	3.00	5900	3.00
Drilling Stage II	Ft.	2,707.45	800½	3,561.46	1,053	3.3822	10500	3.3822
Underground DD Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Drilling Core Stage I	Ea.			59,692.44	8,576.5	6.96	8,576.5	6.96
Assay Stage I	Ea.			7,038.00	2,346	3.00	3,100	3.00
Reaming - Stage I	Ft.			2,862.50	1,145	2.50	1,145	2.50
TOTAL DISTRIBUTED COSTS		13,942.73		176,038.79				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		13,942.73		176,038.79				

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

Date August 1, 1955 Operator Calera Mining Company

Per [signature] Title [illegible]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ Alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

AUG 29 1955

August 3, 1955

Mr. A. L. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-2645

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.E.A. Project No. 3143, for the Month of July, 1955.

The 74/787 Hanging Wall Crosscut continued to be worked on a three-shift basis, and was advanced 285 foot in a moderately firm shistose quartzite. Normal drift timbering was stood in 48 feet of the drift.

Diamond Drilling continued in the 7400 Drift North and amounted to 800½ foot during the month. The ore that has been intersected was found to be very irregular in shape and offset by closely spaced north striking faults. It has been necessary to space the drill holes 25 foot apart in some places to follow the ore.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:sp

Enclosures

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG 11 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Spiling Short Form [redacted]	860.00	7,460.00	8,320.00			
[redacted] Heavy Timber	301.00	2,726.50	3,027.50			
[redacted] Trenching		10,262.59	10,262.59			
[redacted] Framing	82.20	1,315.20	1,397.40			
Drifting	2,487.45	54,475.16	56,962.61			
Normal Timber	469.00	8,045.10	8,514.10			
(2) Labor and Supervision:						
Core Drilling Stage II	328.07	525.94	854.01			
Core Drilling Stage 1		59,692.44	59,692.44			
[redacted]						
(3) [redacted] Core Timber Drilling						
[redacted] U.G. Stage 1		2,069.91	2,069.91			
[redacted] Reaming						
[redacted] Stage 1		2,862.50	2,862.50			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) [redacted]:						
[redacted]						
Sampling and Analysis						
[redacted] Stage II	81.00	1,014.00	1,095.00			
[redacted]						
Sampling Analysis Stage 1		7,038.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	4,608.72	157,487.34	162,096.06	4608.72	157487.34	162096.06

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

Date July 6, 1955 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 3226.10

Signature M.P.
(Authorized Certifying Officer)

Date 8-8-55 Vou. No. 1574
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 1st Alfred P. Service Title Mining Engr Date 7-29-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W. Goldoft Title Mining Engr Date 7-29-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1955 Docket No. DMEA 3143 Contract No. Ida-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	2,487.45	70	56,962.61	1603	35.535	6000	35.535
Normal Timbering	Ft.	469.00	67	8,514.10	1216.3	7.00	5000	7.00
Heavy Timbering	Ft.	301.00	43	3,027.50	432 .5	7.00	750	7.00
Spiling	Ft.	860.00	43	8,320.00	416.0	20.00	500	20.00
Framing	Sets.	82.20	15	1,397.40	255.0	5.48	1150	5.48
Assay St. II	Ea.	81.00	27	1,095.00	365.0	3.00	5900	3.00
Drilling: Core Stage II	Ft.	328.07	97	854.01	252.5	3.3822	10500	3.3822
Underground Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Drilling: Core Stage 1	Ea.			59,692.44	8576.5	6.96	8576.5	6.96
Assay Stage 1	Ea.			7,038.00	2346	3.00	3100	3.00
Roads and Trails								
Reaming - Stage 1	Ft.			2,862.50	1145	2.50	1145	2.50
TOTAL DISTRIBUTED COSTS		4,608.72		162,096.06				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4,608.72		162,096.06				

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

Date July 6, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Isl Alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

July 6, 1955

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A., Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm - 1645

Dear Mr. Weissenborn:

Enclosed are the reps and assays pertinent to the D.M.E.A. Project No. 3143 for the month of June, 1955.

The 7400 Drift North was advanced 45 feet and stopped for Diamond Drilling. This heading continued to advance in extremely heavy ground, and all the advance required the use of spiling.

The crosscut to explore the hanging wall mineralized zone was collared at a point approximately 1,560 feet back from the face of the 7400 Drift North. The crosscut was advanced 25 feet in ground that required normal timbering.

Diamond Drilling amounted to 97 feet in three holes collared near the face of the 7400 Drift North. An additional hole, U-74-33, was not charged to the D.M.E.A. account. No ore has been intersected.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:sm

Enclosures

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUN 24 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Spiling ~~Contract~~	1180.00	6280.00	7460.00			
~~Short Form~~ Heavy Timber	413.00	2313.50	2726.50			
~~Drilling~~						
~~Bulldozing~~ Trenching		10262.59	10262.59			
~~Crosscutting~~ Framing	71.24	1243.96	1315.20			
Drifting	2594.05	51881.11	54475.16			
Normal Timber	483.00	7562.10	8045.10			
(2) Labor and Supervision:						
Core ~~Labor~~ Drilling Stage II		525.94	525.94			
Core ~~Supervision~~ Drilling Stage I		59692.44	59692.44			
~~Technical Services~~						
(3) ~~Operating Mat'ls. and Supplies:~~						
Core ~~Timber~~ Drilling						
~~Explosives~~ U.G. Stage I		2069.91	2069.91			
~~Pipe~~ Reaming						
~~Track~~ Stage I		2862.50	2862.50			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) ~~Miscellaneous:~~						
~~Repaired Equipment~~						
Sampling and Analysis						
~~Payroll Taxes~~ Stage II	39.00	975.00	1014.00			
~~Liability Insurance~~						
Sampling & Analysis						
Stage I		7038.00	7038.00			
(8) Contingencies (specify):						
TOTALS	4780.29	152707.05	157487.34	4780.29	152707.05	157487.34

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

Date June 6, 1955 *Payee Calera Mining Company

Per [signature] Title Treasurer

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

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

(Instructions on reverse)

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

$ 2246 20

Signature [signature]
(Authorized Certifying Officer)

Date 6-20-55 Vou. No. 1528
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E6645 in accordance with the terms of the contract.

Signature /S/ Alfred P. Service Title Mining Eng. Date 6-13-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen H. Zoldoff Title Mining Eng. Date 6-16-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUN 24 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1955 Docket No. DMEA 3143 Contract No. Idm E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	2,594.05	73	54,475.16	1533	35.535	6000	35.535
Normal Timbering	Ft.	483.00	69	8,045.10	1149.3	7.00	5000	7.00
Heavy Timbering	Ft.	413.00	59	2,726.50	389.5	7.00	750	7.00
Spiling	Ft.	1,180.00	59	7,460.00	373.0	20.00	500	20.00
Framing	Sets	71.24	13	1,315.20	240.0	5.48	1150	5.48
Drilling: Assay Stage II	Ea.	39.00	13	1,014.00	338	3.00	5900	3.00
Core Stage II	Ft.	-	-	525.94	155.5	3.3822	10500	3.3822
U.G.D.D. StageI	Ft.	-	-	2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.	-	-	10,262.59	864	11.878	864	11.878
Drilling Core StageI	Ft.	-	-	59,692.44	8576.5	6.96	8576.5	6.96
Assay Stage I	Ea.	-	-	7,038.00	2346	3.00	3100	3.00
Reaming Stage I	Ft.	-	-	2,862.50	1145	2.50	1145	2.50
TOTAL DISTRIBUTED COSTS		4,780.29		157,487.34				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4,780.29		157,487.34				407340.00

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

REMARKS:

Date June 6, 1955 Operator Calera Mining Company

Per William T. Holman Title Treasurer

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

(Instructions on reverse)

(For Government use only)

/s/ Alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED

JUN 24 1955

June 3, 1955

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-8645

Dear Mr. Weissenborn:

Enclosed are the maps and assays showing the progress during the month of May for D.M.E.A. Project No. 3143.

The 7400 Drift North was advanced 73 feet on a three shift basis during the first part of the month. The miners went out on strike the 16th of May and stayed out the remainder of the month.

The heading was slowed down when it intersected a large north striking fault that dips steeply to the east. A series of NE striking faults that dip at a low angle to the west were also intersected. The bad ground made it necessary to spile 59 feet of the advance. No ore was intersected during the month.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. S. Douglas, Manager

ESD:abd

Enclosures

ASSAY RECORD

SIERRA MINING CO.

Chute Block

Level 7400

Working 7400 Drift North

DRILL #3143

MAY, 1955

Date	Sample Number	Location From	To	Kind	Width	% Cu	% Pb	Oz. Au	%	REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

Defense Minerals Administration
RECEIVED
MAY 17 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 195 5 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70% Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent Short Form~~ Spiling ~~Contracts~~:	340.00	5,940.00	6,280.00			
~~Drifting~~ Heavy Timber	119.00	2,194.50	2,313.50			
~~Bulldozing~~ Trenching		10,262.59	10,262.59			
~~Crosscutting~~ Framing	93.16	1,150.80	1,243.96			
Drifting	7,888.97	43,992.34	51,881.11			
Normal Timber	602.00	6,960.10	7,562.10			
(2) Labor and Supervision:						
Core ~~Labor~~ Drilling Stage 2		525.94	525.94			
Core ~~Supervision~~ Drilling Stage 1		59,692.44	59,692.44			
~~Technical Services~~						
(3) ~~Operating Materials and Supplies~~:						
Core ~~Timber~~ Drilling						
~~Explosives~~ U.G. Stage 1		2,069.91	2,069.91			
~~Pipe~~ Reaming						
~~Track~~ Stage 1		2,862.50	2,862.50			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) ~~Miscellaneous~~:						
~~Repairs to Equipment~~						
Sampling and Analysis						
~~Payroll Taxes~~ Stage 2	159.00	816.00	975.00			
~~Liability Insurance~~						
Sampling & Analysis						
Stage 1		7,038.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	9,201.93	143,505.12	152,707.05	9201.93	143505.12	152707.05

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 5, 1955 *Payee Calera Mining Company
Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 6441 35

Signature [signature]
(Authorized Certifying Officer)

Date 5-13-55 Vou. No. 15716
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6645 in accordance with the terms of the contract.

Signature (S) Stephen W Goldoft Title Mining Engr Date 5-12-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W Goldoft Title Mining Engr Date 5-13-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 17 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 195 5 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Normal Timbering	Ft.	7,888.87	222	51,881.11	1460.0	35.535	6000	35.535
Crosscuts								
Heavy Timbering	Ft.	602.00	86	7,562.10	1080.3	7.00	5000	7.00
Raising								
Shafts Spiling	Ft.	119.00	17	2,313.50	330.5	7.00	750	7.00
Winzes Framing	Sets	340.00	17	6,280.00	314.0	20.00	500	20.00
Drilling Assay StageII	Ea.	93.16	17	1,243.96	227.0	5.48	1150	5.48
Core Core StageII	Ft.	159.00	53	975.00	325	3.00	5900	3.00
Churn		-	-	525.94	155.5	3.3822	10500	3.3822
U.G. D.D. Stage I	Ft.	-	-	2,069.91	612	3.3822	664.38	3.3822
Auger								
Stripping								
Trenching	Hrs.	-	-	10,262.59	864	11.878	864	11.878
Drilling Core StageI	Ea.	-	-	59,692.44	8576.5	6.96	8576.5	6.96
Assay Stage I	Ea.	-	-	7,038.00	2346	3.00	3100	3.00
Roads and Trails								
Reaming Stage I	Ft.	-	-	2,862.50	1145	2.50	1145	2.50
TOTAL DISTRIBUTED COSTS		9,201.93		152,707.05				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		9,201.93		152,707.05				

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

Date May 5, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 Stephen W Zoldok

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

May 5, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 17 1955

Mr. A. B. Holmesborn
Inspection Station - Region 1
Bureau of Field Tests
South 157 Howard Street
Spokane 8, Washington

Re: Project No. Defaldo 3143
Contract No. [illegible]

Dear Mr. Holmesborn:

Enclosed are the maps and assays pertinent to the Bellefonte Project No. 3143 for the month of April, 1955.

The 7400 Drift North was driven 222 feet on a three-shift basis during this period. Ground conditions remained good until the closing week of the period, when a fault was encountered. There were 65 feet of altered ground during April and approximately four of gelled ground. The heading was left in the fault zone at the month closed.

A series of north trending faults and one mineralized zone of one foot was encountered. None of the faulting proved serious until the end of the month.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:op

Enclosures

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

INTERIM AUDIT CERTIFICATE

RECEIVED
JUN 1955

I have examined the records and transactions of the:

Calera Mining Company
Cobalt, Idaho

pertaining to Exploration Project Contract No. Idm-3645, Docket No. DMEA-3143, dated December 9, 1953, including Amendment No. 1, covering a project for the exploration of cobalt and copper on property known as the Blackbird Mine, located in Lemhi County, State of Idaho, for the period of December 9, 1953, to March 31, 1955, inclusive.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

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

Total cost as billed by contractor	$143,505.12
Less: Salvage proceeds	None
Net claimed cost	143,505.12
Exceptions (see Audit Report)	None
Total Accepted Cost	$143,505.12

The contract calls for a 70 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of One hundred thousand four hundred fifty-three and 58/100 Dollars,

$100,453.58

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

C. A. Turner, Auditor

June 17, 1955

INTERIM AUDIT REPORT

RECEIVED
JUN 1955

I. INTRODUCTION

During the period of May 10, 1955, to May 14, 1955, inclusive, an interim audit (covering operations for the period of December 9, 1953, to March 31, 1955,) was made of the records and transactions pertaining to Exploration Project Contract No. Idm-8545, Docket No. DMEA-3143, dated December 9, 1953, including Amendment No. 1 with the:

Calera Mining Company
Cobalt, Idaho

covering a project for the exploration of cobalt and copper on property known as the Blackbird Mine, located in Lemhi County, State of Idaho.

The original accounting records under this contract are maintained under the direction of H. R. Douglas, general manager, are in the custody of G. B. Deacon, chief accountant, and Joe Stansfield, accountant, and are located in the mine office near the mine, which is approximately 9 miles from Cobalt, Idaho.

Garvin Young, mine superintendent, Bill O'Neal, mine foreman, and Don McPherson, thief warehousemen, were also consulted as required during the course of the audit. All employees consulted were most cooperative at all times.

A. L. Service, mining engineer, Bureau of Mines, Region I, N. W. District, as representative of the DMEA Field Team accompanied the auditor and assisted in the necessary analysis of payrolls and operating materials and supplies. Mr. Service was also available for consultation as needed.

The actual on-site audit was preceded by considerable pre-audit analysis and audit preparatory work in Spokane, Washington, office of the DMEA. A considerable portion of the summarizing of the audit findings was completed subsequent to the actual on-site audit.

II. GENERAL INFORMATION ON RECORDS

The Company maintains a complete and comprehensive set of records to cover the various departmentalized operations of the mine, mill, and the exploration project, consisting of general ledger, cash books, and voucher distribution records, all of which are properly supported by the necessary items and records of original entry, from which the monthly cost and statistical statements are prepared of each department, for the Company's management and department heads.

The entire mining operation prior to January 1, 1955, was considered by the Company to be exploration and development work. On January 1,

1955, the mine was put on a production basis with the costs charged to mining operations and the exploration project contract as applicable.

A subsidiary ledger has been maintained in which the actual costs of the exploration project contract have been recorded. Analysis of these costs follows in Appendix A attached to this report wherein a comparison of the Operator's actual costs of units of work performed is compared with the Unit Costs claimed by the Operator on the Operator's Monthly Report and Voucher, Form MF-104.

The Company's records are audited annually by Smith, Davis, and Wills, certified public accountants, New York, New York.

III. SCOPE OF AUDIT AND FINDINGS

The first stage of this audit was limited to ascertaining the accuracy, propriety, and validity of the costs shown in the "Totals to Date" column of the Operator's Monthly Report and Voucher, Form MF-104, for the month of March, 1955.

All of the costs claimed by the Operator cover work performed on the basis of agreed estimated costs of units of work actually performed. The basic portion of this audit report refers only to the unit costs claimed.

Comments and findings with reference to the Operator's actual costs incurred on the work performed on the basis of agreed estimated cost of units of work actually performed will be presented in Appendix A attached to this report.

(1) Agreed Unit Costs

The Operator's claim under the contract provision for contribution by the Government on the basis of agreed estimated cost of units of work performed consisted of:

Stage I					
Trenching	864 Hours	@	$11.876	$10,262.59	
Diamond Drilling					
Surface	8576.5 Feet	@	6.96	59,692.44	
Underground	612.0 Feet	@	3.3802	2,069.91	
Reaming and Cementing	1145 Feet	@	2.50	2,862.50	
Assays	2346 Assays	@	3.00	7,038.00	
Total Stage I					$81,925.44

Stage II					
Drifting	1238 Feet	@	$35.535	$43,992.34	
Timbering					
Normal	994.3 Feet	@	7.00	6,960.10	
Heavy	313.5 Feet	@	7.00	2,194.50	
Spiling	297.0 Feet	@	20.00	5,940.00	
Framing	210 Sets	@	5.48	1,150.80	
Diamond Drilling					
Underground	155.5 Feet	@	3.3822	525.94	
Assays	272 Assays	@	3.00	816.00	
Total Stage II					$61,579.68
Total Accepted Costs					**$143,505.12**

The "Allowable Maximum" of 864 Hours of Trenching was not exceeded.

The following categories of cost were not applicable to this contract:

(2) Labor and Supervision
(3) Operating Materials and Supplies
(4) Operating Equipment
(5) Initial Rehabilitation and Repairs
(6) New Buildings, Improvements, etc.
(7) Miscellaneous
(8) Contingencies

Observations

The Calera Mining Company's Blackbird mine is one of the several mines located in the United States, Canada, and Mexico which are owned and operated by the Howe Sound Company, 730 Fifth Avenue, New York, New York.

The Calera Mining Company's Blackbird mine was prior to January 1, 1955, considered to be in a state of exploration and development. Mining and milling operations since January 1, 1955, are considered to be on a production basis. Mill concentrates are being shipped via trucks to Salt Lake City, Utah, for final refining.

IV. CONCLUSIONS

The audit disclosed that all costs charged to this project, as itemized in section III of this report, are reasonable and proper under the terms of the contract.

The adjustments between "Items of Cost" as shown on March 31, 1955, Form MF-104, the disallowances, and the accepted costs as disclosed by this audit are summarized as follows:

	Totals March 31, 1955 MF-104	Corrected Distribution	Disallowed by Audit	Accepted Cost Stage I	Accepted Cost Stage II
(1) Independent Contracts:	$	$	$	$	$
Trenching	10,262.59	-	-	10,262.59	
Diamond Drilling					
Surface	59,692.44	-	-	59,692.44	
Underground	2,069.91	-	-	2,069.91	
Reaming and Cementing	2,862.50	-	-	2,862.50	
Assays	7,038.00	-	-	7,038.00	
Drifting	43,992.34	-	-		43,992.34
Timbering					
Normal	6,960.10	-	-		6,960.10
Heavy	2,194.50	-	-		2,194.50
Spiling	5,940.00	-	-		5,940.00
Framing	1,150.80	-	-		1,150.80
Diamond Drilling					
Underground	525.94	-	-		525.94
Assays	816.00	-	-		816.00
(2) Labor and Supervision	-	-	-	-	-
(3) Operating Matls. & Supplies	-	-	-	-	-
(4) Operating Equipment	-	-	-	-	-
(5) Initial Rehab. & Repairs	-	-	-	-	-
(6) New Bldgs., Improvements, etc.	-	-	-	-	-
(7) Miscellaneous	-	-	-	-	-
(8) Contingencies	-	-	-	-	-
Totals	$ 143,505.12	$ -	$ -	$ 81,925.44	$ 61,579.68

The contract designates one "Allowable Maximum" of trenching not in excess of 864 hours, which was not exceeded.

The exploration work specified in the contract is designated in units of the various kinds of work to be completed. A summary of the units of work authorized by the contract, units of work completed, and units of work remaining to be completed follows:

	Units Specified in Contract			Units Completed			Units Remaining		
Stage I									
Trenching	864* Hours	@ $ 11.878	$ 10,262.59	864* Hours	@ $ 11.878	$ 10,262.59	-	$ -	$ -
Diamond Drilling									
Surface	8,576.5 Feet	@ 6.96	59,692.44	8,576.5 Feet	@ 6.96	59,692.44	-	-	-
Underground	664.38 Feet	@ 3.3822	2,247.06	612.0 Feet	@ 3.3822	2,069.91	52.38 Feet	@ 3.3822	177.15
Reaming and Cementing	1,145.0 Feet	@ 2.50	2,862.50	1,145.0 Feet	@ 2.50	2,862.50	-	-	-
Assays	3,100 Assays	@ 3.00	9,300.00	2,346 Assays	@ 3.00	7,038.00	754 Assays	@ 3.00	2,262.00
Stage II									
Drifting & Crosscutting	6,000.0 Feet	@ 35.535	213,210.00	1,238.0 Feet	@ 35.535	43,992.34	4,762.0 Feet	@ 35.535	169,217.66
Timbering									
Normal	5,000.0 Feet	@ 7.00	35,000.00	994.3 Feet	@ 7.00	6,960.10	4,005.7 Feet	@ 7.00	28,039.90
Heavy	750.0 Feet	@ 7.00	5,250.00	313.5 Feet	@ 7.00	2,194.50	436.5 Feet	@ 7.00	3,055.50
Spiling	500.0 Feet	@ 20.00	10,000.00	297.0 Feet	@ 20.00	5,940.00	203.0 Feet	@ 20.00	4,060.00
Framing	1,150 Sets	@ 5.48	6,302.00	210 Sets	@ 5.48	1,150.80	940 Sets	@ 5.48	5,151.20
Diamond Drilling									
Underground	10,500 Feet	@ 3.3822	35,513.00	155.5 Feet	@ 3.3822	525.94	10,344.5 Feet	@ 3.3822	34,987.06
Assays	5,900 Assays	@ 3.00	17,700.00	272 Assays	@ 3.00	816.00	5,628 Assays	@ 3.00	16,884.00
Totals			$ 407,339.59			$ 143,505.12			$ 263,834.47

*Allowable Maximum

At the conclusion of the audit on May 14, 1955, the findings were discussed with G. B. Deacon, chief accountant, and Joe Stansfield, accountant. E. B. Douglas, general manager, was at this time temporarily away from the mine.

The final summarization of facts was discussed with A. H. Weissenborn, Executive Officer, DMEA Field Team, Region I, N. W. District, on June 17, 1955.

C. A. Turner, Auditor

June 17, 1955

RECEIVED
JUN 1 1955

APPENDIX A

Operator's Costs of Units of Work Completed

Exploration Project Contract No. Idm-1043, Docket No. DMEA-3143, provides that the Government will contribute to the costs of the work specified in the contract on the basis of agreed unit costs as they accrue in lieu of actual costs, for a period of 1 year from the date of the contract, and thereafter unless and until the Government, at its option, notifies the Operator that the Government will contribute to the incompleted portions of any remaining work to be done on the basis of actual costs as set forth in the contract.

This audit of actual costs of units of work completed was made to enable the Government to exercise its option to convert to actual costs if it is determined to be to the Government's advantage to do so.

Prior to the date of the on-site audit the Operator submitted to the DMEA Field Team, Region I, N. W. District, a statement of the actual costs to March 31, 1955, of the exploration project work.

An audit and analysis of the costs pertaining to the Operator's actual costs of units of work completed was made. This audit consisted of: (1) analysis of the costs of work performed by independent contractors; (2) analysis of costs claimed as labor, supervisory, and technical services including rates of pay per shift, per foot, and bonuses; (3) a partial analysis of costs representing materials and supplies and miscellaneous stores, and certain prorations based on actual at the face drilling hours; (4) verification of payroll taxes and liability insurance based on the labor distributions; (5) verification by test checks on prorating factors based on at the face drilling hours; and (6) a verification of the total of the exploration project costs.

The Operator's records do not provide an adequate breakdown of labor and other costs between normal timbering, heavy timbering, spiling and framing.

(1) Independent Contracts:

The Nichols Thompson Drilling Company of Boise, Idaho, performed drilling on the exploration project as well as the Operator's other mining activities.

The drilling costs were verified by: (1) examination of the drilling contract between the Operator and the Nichols Thompson Drilling Company; (2) examination of invoices and drill logs submitted by the drilling company; and (3) examination of voucher checks rendered in payment of the drilling.

Drilling performance and footages were verified by the DMEA Engineer, A. L. Service, in charge of the project.

Independent contract costs applicable to diamond drilling were found to be as follows:

Nichols Thompson Drilling Company:

			$	$
Surface drilling	8,576.5 Feet	@	5.53	47,396.15
Underground drilling	767.5 Feet	@	3.30	2,[illegible]96.25
Casings left in hole	555.0 Feet	@	.70	388.60
Reaming and cementing	1,145.0 Feet	@	2.50	2,861.25
Total	9,[illegible].0 Feet	@	5.71	$[illegible]

(See attached Schedule No. 1.)

(2) Labor and Supervision:

Labor is recorded by a daily time card made out by the employee and approved by the shift boss. The time card includes date and shift worked, hours worked and contract work completed, rates of pay and the level or location in which the work was performed. The approved time card goes to the timekeeper who accumulates the employees' earnings for the period. Costs are recorded in the cost ledger after the cards have been processed by the distribution clerk and distributions journalized into the voucher record.

Payrolls are for the periods of 1st to 15th and 16th to end of month. Paydays are the 8th and 23rd of the month.

An audit and analysis was made of payroll charges against the exploration project for the months of May 1954, October 1954, and February 1955. This included checking the daily time cards, distribution record, and voucher distributions. Rates used were examined and found to be in agreement with those listed in the union contract. Computations and distributions were test checked to the extent of 50 percent for the months of May and October 1954 and February 1955. Payroll charges for the balance of the period under review were checked only as to totals and distribution charges made to the exploration project.

Labor as charged to the exploration project during the period of May and October 1954 and February 1955 was paid at the following shift rates:

Rates Per Shift		February 1, 1954 to June 30, 1954	July 1, 1954 to March 31, 1955
		$	$
Surface Mine Labor		13.04	13.44
Mucker		13.44	13.84
Timberman		15.04	15.44
Timberman-Helper		13.84	14.24
Trackman		14.24	14.64
Trackman-Helper		13.84	14.24
Compressorman		13.84	14.24
Miner-Stope		14.24	14.64
Powderman		14.24	14.64
Nipper		13.84	14.24
Pumpman		14.64	15.04
Hoistman, Single Drum		14.64	15.04
Hoistman, Double Drum		16.24	16.64
Cager		14.64	15.04
Locomotive Operator		14.64	15.04
Shift Boss	Per Month	466.00 - 475.00	475.00 - 490.00
	Per Month	520.00 - 535.00	535.00 - 550.00

These rates with the exception of Shift Boss were in conformity with the contract between the Operator and the International Union of Mine, Mill and Smelter Workers Local No. 911. This contract also provides shift premiums, vacations with pay, health and welfare plan, and paid holidays.

Bonuses are paid miners who work on a footage basis and work accomplished basis in lieu of daily shift basis.

Contract Rates of Pay:

	Without Timber	Timbered
Drill Out	$ 2.40	$ 3.15
Load & Blast	.60	.60
Muck Out	3.50	4.75
Cost per foot	$ 6.50	$ 8.50
Stand Rail per foot	.25	.25
Ties each	.30	.30
Water Line per foot	.05	.05
Air Line per foot	.10	.10
Stand Ditch Post	-	3.60
Stand 2nd Post	-	3.60
Lagging per foot		.15
Place Caps	-	1.50
Bridge each		3.00
Vent Pipe per foot	.10	.10

Contract rates of pay are not a part of the Union Agreement.

These contract rates of pay have not been changed since they were established several years ago when a miner was paid the daily rate of $12.31 per shift.

Bonus calculations are made by deducting from the miner's total contract earnings the amount he would have earned if paid at the rate of $12.31 per day instead of the current wage rate per day.

In bad ground miners are paid pay (at the current rate) plus $10.00 per shift bonus.

Labor charges applicable to the exploration project were found to be as follows:

	$
Diamond Drilling	190.34
Trenching	4,493.43
Drifting	31,168.68
Timbering	13,285.16
Assaying	1,178.20
Total	$ 50,315.81

See attached Schedules Nos. 1 to 5, inc.

Timbering costs include the costs applicable to normal timbering, heavy timbering, framing, and spiling.

Supervision:

The Operator charged to his exploration project costs, the time devoted to the project by the engineers and geologists as follows:

	$
Engineers	2,182.58
Geologists	5,699.03
Total	$ 7,881.61

Only the actual time spent on the project was charged to the project costs; however, in the actual cost section of the contract an allowable maximum of $500.00 per month is specified for supervision. A deletion of $841.61 is made to bring the actual project costs in line with the costs allowed in the event that the contract is converted to an actual cost basis.

Supervision costs were prorated to the various operations on the basis of labor charges with the exceptions of diamond drilling which was charged at the rate of $0.125 per foot and assaying which was not charged any supervision.

The allocation of supervision expense to the Operator's Actual Costs of Units was discussed with DMEA Engineers, who after taking into

consideration the operation as a whole and the various other operations affected suggested an arbitrary charge of $0.125 per foot to drilling and no charge to assaying. While the engineers feel that this charge is low it is known that the Operator is spending more than the Allowable Maximum of $500.00 per month for supervision.

Supervision was distributed as follows:

	Labor	Percent	Distribution of Supervision
Trenching	$ 4,493.43	9.180	$ 935.36
Drifting	11,168.68	63.678	3,713.70
Timbering	13,285.16	27.142	1,582.92
	$ 28,947.27	100.000	5,832.00
Diamond Drilling	190.34		
9,344 Feet @ 12½¢/ft.			1,168.00
Assaying	1,178.20		-
No Charge			
Total	$ 30,315.81		$ 7,000.00

See attached Schedules Nos. 1 to 5, inc.

(3) Operating Materials and Supplies:

A stores account and warehouse facilities are maintained by the Operator to supply the mining and milling operations as well as the exploration project with materials and supplies as needed. Purchases are all charged to the stores account with the few exceptions of items charged direct to the operations.

A complete set of store card records is maintained by Don Mc Pherson, chief warehousemen, upon which a record is made of dates, purchases, issues and the department issued to for consumption.

Supplies and materials are issued to the Operator's mining and milling operations and the exploration project at the actual cost to the Operator. The expense of maintaining the warehouse and the warehouse labor as well as the salary of Mr. McPherson, chief warehousemen, is not considered by the Operator as an additional cost of the supplies but an overhead item of expense. Warehouse expense is charged to Mining Operations one-third, Milling Operations two-thirds, Exploration Project none.

Supplies are all charged directly to the department in which they are used with the following exceptions: (1) Drill supplies, (2) Steel and Bits, (3) Air, and (4) Air and Water lines. Supplies consumed in these four exceptions are prorated on the basis of actual at the face drilling hours.

Audit of the materials and supplies consisted of checking the entries in the cost ledger back to the books and records of original entry which included the journal and stores requisitions, and occasional recomputations of extensions. Stores cards covering large items such as track and timber were examined for a three months period to determine the methods used to record supplies purchased and supplies consumed in the various mining, milling and exploration project activities.

Cost ledger balances were compared with the monthly operating statement, which was prepared for the use of the management and the department heads.

Supplies were charged to the exploration project at the same price used on the Operator's other operations without any marking.

Operating materials and supplies were found to be as follows:

Diamond Drilling:		
Drill supplies		$ 81.37
Trenching:		
Cat supplies, fuel oil and lubricants		3,709.89
Drifting:		
Explosives	2,673.77	
Truck	1,983.56	
Ventilation pipe and supplies	1,179.29	
Air and water lines	3,064.53	
Power feeder	1,345.90	
Air supplies	709.83	
Drill steel and bits	826.11	
Drill supplies	609.89	
Muking supplies	1,063.26	
Battery Maintenance	338.08	
Miscellaneous	89.51	
		13,892.91
Timbering:		
Timber and supplies		8,083.90
Assaying		648.47
Total		$ 26,[illegible]

See attached Schedules Nos. 1 to 5, inc.

(4) Operating Equipment:

Rental:

This category of cost not applicable to this contract.

Purchases:

This category of cost not applicable to this contract.

Depreciation:

The actual cost section of the contract specifies equipment to be depreciated and the rates of depreciation to be used in case the contract is converted to an actual cost basis in lieu of a unit cost basis. These rates of depreciation were used to determine the Operator's actual costs for the period under review.

To be furnished by Operator:

		Value
1	5-Ton Plymouth Locomotive	$7,[illegible].05
2	Mines 128 Mucking Machines	5,674.40
15	C. S. Cars - 30 cubic feet Rocker Dump Cars	3,660.00
2	Mancha 1½-ton locomotives	6,690.96
4	Batteries	5,[illegible].00
2	Charging panels	1,[illegible]1.96
2	A.M.C. car transfers	900.00
1	Buffalo Forge Blower, 15 H.P.	375.00
1	Clarage Blower, 7½ H.P.	275.00
	Starting Equipment for blowers	175.00
2	Timber trucks	266.78
4	Jackleg type pusher drills @ $505.00/ea.	2,020.00
4	Line collars @ $17.54/ea.	70.16
1	Mh8 Stopar	670.00
1	Water pump	153.00
1	Track jack and 1 rail bender	90.00
	Total	$ 35,[illegible]

An allowance of $595.00 per month, which is an allowable maximum, is specified in the contract. Depreciation for the period of February 1, 1954, to March 31, 1955, is:

14 Months @ $595.00 $8,330.00

Depreciation is allocated to the various exploration project activities on the basis of labor used on each activity as follows:

	Labor	Percent	Depreciation
	$		$
Diamond Drilling	190.34	.3871	32.24
Trenching	4,493.43	9.1445	761.74
Drifting	31,[illegible].68	63.4314	5,283.84
Timbering	13,[illegible].16	27.0370	2,252.18
Total	$49,[illegible].41	100.0000	$8,330.00
Assaying	1,[illegible].80		None
Total	$50,[illegible]		$8,330.00

See attached Schedules Nos. 1 to 5, inc.

The assaying laboratory is located in the mill and was not charged any depreciation.

(5) Initial Rehabilitation and Repairs:

This category of cost not applicable to this contract.

(6) New Buildings, Improvements, etc.:

This category of cost not applicable to this contract.

(7) Miscellaneous:

Payroll Taxes:

Payroll taxes were allocated to the exploration project payroll in the same ratio as the exploration project payroll was to the Operator's entire payroll, as follows:

	Payroll	Percent
Exploration Project Payroll	$ 57,315.81	3.3511
Balance of Payroll	1,653,007.44	96.6489
Total Payroll Jan. 1, 1954, to Mar. 31, 1955	$1,710,323.25	100.000

Payroll tax rates were found to be as follows:

	Percent
F.I.C.A.	2.0
Idaho Unemployment Insurance	2.1
Federal Unemployment Insurance	.3
Total	4.4

Examination of the Operator's reports:
State of Idaho - Employer's Contribution Report
Identification No. 82-0184968
Federal Excise Tax Return Form 940
Federal - Employer's Quarterly Tax Return
indicated, that taxes amounting to $60,986.11 had been paid for the period of Jan. 1, 1954, to March 31, 1955, of which 3.3511 percent or $2,041.70 was applicable to the DMM payroll.

Payroll taxes were distributed to the various exploration project activities on the basis of the exploration labor cost as follows:

	Labor	Supervision	Total Labor	Percent	Payroll Taxes
Diamond Drilling	$ 190.34	$ 1,168.00	$ 1,358.34	2.3699	$ 48.38
Trenching	4,493.43	535.38	5,028.81	8.7738	179.14
Drifting	31,168.68	3,713.70	34,882.38	60.8601	1,242.58
Timbering	13,285.16	1,582.92	14,868.08	25.9406	529.63
Assaying	1,178.20	-	1,178.20	2.0556	41.97
Total	$50,315.81	$7,000.00	$57,315.81	100.0000	$2,041.70

See attached Schedules Nos. 1 to 5, inc.

Liability Insurance:

Liability insurance was made up of premiums paid on the payroll with rates as follows:

	Percent
Industrial Insurance	
Year of 1954	6.0000
Year of 1955	4.5500
Group Life Insurance	0.1294
Hospital	0.7440
Health and Welfare	0.6544

Premiums are computed on the exploration project payroll as follows:

Industrial Insurance:				
1954 Labor	$39,781.39	@ 6%	$2,386.88	
1955 Labor	17,534.42	@ 4.55%	797.82	$3,184.70
Group Life Insurance:				
	57,315.81	@ 0.1294%		74.17
Hospital and Medical Care:				
	57,315.81	@ 0.7440%		426.43
Health and Welfare:				
	57,315.81	@ 0.6544%		374.97
Total		7.0278%		$4,060.37

Premiums were allocated to the various phases of the exploration project on the basis of the combined labor and supervision charges as follows:

	Total Labor	Percent	Liability Insurance
Diamond Drilling	$ 1,358.34	2.3699	$ 96.23
Trenching	5,028.81	8.7738	356.25
Drifting	34,882.38	60.8601	2,471.15
Timbering	14,868.08	25.9406	1,053.28
Assaying	1,178.20	2.0556	83.46
Total	$57,315.81	100.0000	$ 4,060.37

See attached Schedules Nos. 1 to 5, inc.

The Operator had not included liability insurance costs in the exploration project costs. These costs were computed to determine the Operator's actual unit costs.

Industrial Insurance was carried by the Western Pacific Insurance Company, Policy No. WS 11476, for the year of 1954 and by the Liberty National Insurance Company, Policy No. C 21986, for the year of 1955, whose rates are as follows:

	1954	1955
Underground Mining	$6.00	$4.55
Surface	1.50	1.62
Milling	1.50	.98
Clerical	-	.84

The Union agreement Article 15 provides for a Health and Welfare Plan, which provides hospitalization, medical care, surgical, weekly lost time benefits, life insurance and accidental death benefits for employees and their dependents. A joint Union-Company Committee is administering the plan.

The Company is insured by the Aetna Insurance Company, Policy No. 3143. The premium is based on an average age of the crew and is $15.00 per $1,000.00 insurance. An employee must have worked six months to obtain $500.00 protection which may be increased $200.00 for each six months service until the maximum is reached.

Assaying:

The Company laboratory made assay determinations for the Operator's milling operation, mining operation and the exploration project. Labor and supply costs were prorated by the Operator on the basis of the total number of determinations of all kinds made. Costs based on the above facts were found to be as follows:

Labor	2,618 assays	@ $ 0.45	$ 1,178.20
Supplies		0.25	648.47
Payroll Taxes		0.02	41.97
Industrial Insurance		0.03	83.46
Total	2,618 assays	$ 0.75	$ 1,952.10

Incl in cat. (2), (3) + (7)

(See Schedule No. 5.)

The laboratory crew consists of two research chemists and four to six assayers and helpers. During the years of 1954 and 1955 to March 31st the following determinations were made:

	1954 Year	1955 March 31
DMEA	3,704*	270*
Mining	27,161	6,918
Diamond Drilling	3,108	1,343
Mill	43,021	13,637
Total	76,994	22,168

* Operator claimed on his Form MF-184 for the period 2,618 assays.

The Company for the period under review used an average price per assay based on the total number of determinations made regardless of how simple or complex the assay might have been.

DMEA samples being tested for several metals were of the more complex nature and benefited by this method of cost proration.

Schedule No. 1

Diamond Drilling - Cost Per Unit

	Feet		Cost per Foot	Amount
Contract				
Nichols & Thompson Drilling Co.				
Surface	8,576.5	@	$ 5.53	$ 47,396.15
Underground	767.5	@	3.50	2,686.25
Casings left in Hole	555.0	@	.70	388.60
Reaming and Cementing	1,145.0	@	2.50	2,861.25
	9,344.0*		5.71	53,332.25 ✓
Labor and Supervision				
Labor	9,344.0	@	$ .02	$ 190.34 ✓
Supervision		@	.125	1,168.00 ✓
Operating Materials & Supplies				
Drill Supplies		@	.008	81.37 ✓
Depreciation		@	.003	32.24 ✓
Miscellaneous				
Payroll Taxes		@	.005	48.38 ✓
Industrial Insurance		@	.010	96.23 ✓
Operator's Drilling Cost	9,344.0	@	$5.88	$54,948.81

* * * *

Units Completed

Drilling - Surface	8,576.5	@	$6.96	$59,692.44
Drilling - Underground	767.5	@	3.3822	2,595.85
Reaming and Cementing	1,145.0	@	2.50	2,862.50
Contract Unit Value	9,344.0	@	$6.972	$65,150.79

* Footage of Hole

Schedule No. 2

Trenching - Cost Per Unit

	Hours		Cost per Hour	Amount
Labor and Supervision			$	$
Labor	864	@	5.20	4,493.43
Supervision			.62	535.38
Operating Materials and Supplies Cat Supplies - Fuel, Oil, Grease etc.			4.29	3,709.89
Operating Equipment Depreciation			.89	761.74
Miscellaneous				
Payroll Taxes			.21	179.14
Liability Insurance			.42	356.25
Operator's Trenching Cost	864	@	$ 11.62	$ 10,035.83

* * * *

Units Completed

Trenching	864	@	$ 11.878	$ 10,262.59
Contract Unit Value	864	@	$ 11.878	$ 10,262.59

* * * *

Trenching Lineal Feet 10,700

Schedule No. 3

Drifting - Costs per Unit

	Feet		Cost per Foot	Amount
			$	$
Labor and Supervision				
Labor	1,238	@	25.18	31,168.68 ✓
Supervision			3.00	3,713.70 ✓
Operating Materials and Supplies				
Explosives			2.16	2,678.77 ✓
Track			1.60	1,983.56 ✓
Ventilation Pipe and Supplies			.95	1,179.29 ✓
Air and water Lines			2.48	3,064.53 ✓
Power Feeders			1.09	1,346.50 ✓
Air Supplies			.58	709.23 ✓
Drill Steel and Bits			.67	826.11 ✓
Rock Drill Supplies			.49	609.09 ✓
Mucking Supplies			.86	1,068.24 ✓
Battery Maintenance			.27	338.08 ✓
Miscellaneous			.07	89.51 ✓
Total Supplies	1,238	@	11.22	13,892.91
Operating Equipment				
Depreciation	1,238	@	4.27	5,283.84 ✓
Miscellaneous				
Payroll Taxes			1.00	1,242.58 ✓
Liability Insurance			2.00	2,471.15 ✓
Total Miscellaneous	1,238	@	3.00	3,713.73
			$	$
Operator's Drifting Cost	1,238	@	46.67	57,772.86

* * * *

Units Completed				
			$	$
Drifting 7400 Level	1,238	@	35.535	43,992.34
Contract Unit Value	1,238	@	35.535	43,992.34

* * * *

Schedule No. 4

Timbering Cost per Unit

	Feet		Cost per Foot	Amount
Labor and Supervision			$	$
Labor	994.3	@	13.36	13,285.16 ✓
Supervision		@	1.59	1,582.92 ✓
Operating Materials and Supplies				
Timbering Supplies		@	8.10	8,053.99 ✓
Operating Equipment				
Depreciation		@	2.27	2,252.18 ✓
Miscellaneous				
Payroll Taxes		@	.53	529.63 ✓
Liability Insurance		@	1.06	1,053.86 ✓
			$	$
Operator's Timbering Cost	994.3	@	26.91	26,757.07

* * *

Units Completed

Timbering			$	$
Normal	994.3	@	7.00	6,960.10
Heavy	313.5	@	7.00	2,194.50
Spiling	297.0	@	20.00	5,940.00
Framing	210 sets	@	5.48 ea	1,150.80
			$	$
Contract Unit Value	994.3	@	16.34	16,245.40

* * *

Schedule No. 5

Assaying Cost per Unit

	Assays		Cost per Assay	Amount
Labor and Supervision			$	$
Labor	2,618	@	.45	1,178.20
Operating Materials and Supplies				
Assaying Supplies			.25	648.47
Miscellaneous				
Payroll Taxes			.02	41.97
Industrial Insurance			.03	83.46
			$	$
Operator's Assaying Cost	2,618	@	.75	1,952.10

* * *

Units Completed

			$	$
Assays Stage I	2,346	@	3.00	7,038.00
Stage II	272	@	3.00	816.00
			$	$
Contract Unit Values	2,618	@	3.00	7,854.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
August 25, 1955

RECEIVED
AUG 29 1955

Mr. E. D. Talbert, Acting Chief
Contract Administration and Audit Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Calera Mining Company
Contract No. Idm-E645
Docket No. DMEA-3143

Dear Mr. Talbert:

Reference is made to your letter of August 22, 1955 in which you have requested a breakdown of the difference of $9,507.97 between the Operator's cost statement and the costs allowed by the interim audit.

Adjustments were made as follows:

Adjustments Caused by Audit			
Diamond Drilling			
Labor	$190.34		
Supplies	81.37	$271.71	
Less - adjustment on invoice covering contract drilling		70.26	$ 201.45
Depreciation			8,330.00
Payroll taxes			183.39
Workmen's compensation			1,634.74
			$10,349.58
Less - Disallowance supervision			841.61
Total			$ 9,507.97
Operator's Cost Statement			141,958.70
Interim Audit Totals			$151,466.67

See schedule attached.

Accounting labor, as well as holiday pay and vacation pay, are included in the labor costs of drifting, timbering, and trenching. Miscellaneous labor was prorated on the basis of direct labor as follows:

Accounting	$1,996.44
Holiday pay	479.14
Vacation pay	621.11
Total	$3,096.69

	Direct Labor	Percent	Distribution	Total Labor
Drifting	$29,196.76	63.678%	$1,971.92	$31,168.68
Timbering	12,444.66	27.142	840.50	13,285.16
Trenching	4,209.16	9.180	284.27	4,493.43
	$45,850.58	100.000%	$3,096.69	$48,947.27
Drilling				190.34
Assaying				1,178.20
Total Labor Schedules, 1 to 5 inclusive				$50,315.81

At the time this distribution was made it was decided to charge all of the miscellaneous labor to drifting, timbering and trenching.

I am sorry to have caused you this inconvenience and do hope that the above explanations will clear the situation for you.

Yours very truly,

C. A. Turner

C. A. Turner, Auditor

CALERA MINING COMPANY Contract No. Idm-E645 Docket No. DMEA 3143
Schedule of Interim Audit Adjustments
Period of December 9, 1953 to March 31, 1955

RECEIVED AUG 29 1955

	Operator's Cost Statement	Audit Adjustments						Total	Corrected Distribution
		Labor	Supervision	Supplies & Contract	Depreciation	Payroll Taxes	Workmen's Compensation		
Drifting					$5,283.84			$ 5,283.84	$ 57,772.86
Rock Breaking	$ 38,044.85							38,044.85	
Waste Disposal	5,044.82							5,044.82	
Timbering	20,498.56				2,252.18			22,750.74	26,757.07
Trenching	7,919.05				761.74			8,680.79	10,035.83
Diamond Drilling		$190.34			32.24			222.58	54,948.81
Stage 1	53,266.11							53,266.11	
Stage 2	136.40							136.40	
Supplies				$81.37				81.37	
Contract				(70.26)				(70.26)	
Sampling and Assaying									1,952.10
Stage 1	1,582.39							1,582.39	
State 2	244.28							244.28	
Supervision			($841.61)					(841.61)	
Geology	5,659.03							5,659.03	
Engineering	2,182.58							2,182.58	
Miscellaneous Labor									
Accounting	1,996.44							1,996.44	
Holiday	479.14							479.14	
Vacation Pay	621.11							621.11	
Payroll Taxes						$183.39		183.39	
Old Age Pension	877.14							877.14	
Unemployment Insurance	981.17							981.17	
Workmen's Compensation	2,425.63						$1,634.74	4,060.37	
Total	$141,958.70	$190.34	($841.61)	$11.11	$8,330.00	$183.39	$1,634.74	$151,466.67	$151,466.67

RECEIVED
AUG 2 0 1955

SIERRA MINING COMPANY Contract No. Icm-8645 Docket No. [illegible] 3143
Schedule of Interim Audit Adjustments
Period of December 9, 1953 to March 31, 1955

	Operator's Cost Statement	Audit Adjustments: Labor	Supervision	Supplies & Contract	Depreciation	Payroll Taxes	Workmen's Compensation	Total	Corrected Distribution
Drifting					$5,283.84			$ 5,283.84	$ 57,772.86
Rock Breaking	$ 38,044.85							38,044.85	
Waste Disposal	5,044.82							5,044.82	
Timbering	20,498.56				2,252.18			22,750.74	26,757.07
Trenching	7,919.05				761.74			8,680.79	10,035.83
Diamond Drilling		$190.34			32.24			222.58	54,928.81
Stage 1	53,266.11							53,266.11	
Stage 2	136.40							136.40	
Supplies				$81.37				81.37	
Contract				(70.26)				(70.26)	
Sampling and Assaying									1,952.10
Stage 1	1,582.39							1,582.39	
State 2	244.28							244.28	
Supervision			($841.61)					(841.61)	
Geology	5,659.03							5,659.03	
Engineering	2,182.58							2,182.58	
Miscellaneous Labor									
Accounting	1,996.44							1,996.44	
Holiday	479.14							479.14	
Vacation Pay	621.11							621.11	
Payroll Taxes						$183.39		183.39	
Old Age Pension	877.14							877.14	
Unemployment Insurance	981.17							981.17	
Workmen's Compensation	2,425.63						$1,634.74	4,060.37	
Total	$141,958.70	$190.34	($841.61)	$11.11	$8,330.00	$183.39	$1,634.74	$151,466.67	$151,466.67

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

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

AUG 22 1955

AIR MAIL

Re: Calera Mining Company
Contract No. Idm-E645
Docket No. DMEA-3143

Dear Mr. Turner:

Reference is made to your Interim Audit Report dated June 17, 1955, covering the referenced project contract.

Further use and study of this report has indicated the need of an explanation on one important point. A summary of the actual costs shown in the Appendix A to the report and the several schedules attached thereto aggregates $151,466.67; however the Operator's statement of actual costs (referred to in the third paragraph of the Appendix A) indicates $141,958.70 as the total.

Your report does not include a reconciliation and I have been unable to pin-point this $9,507.97 difference. Probably part of the amount is the depreciation of $8,330.00, but partially offsetting that amount is your disallowance of $841.61 for supervision plus the accounting costs of $1,996.44 indicated by the Operator. Furthermore it is not understood why your costs do not include the accounting costs.

Please furnish such reconciliation and explanation as may be indicated.

Incidentally I have noted two typographical errors in the report. Please correct the available field copies. In the penultimate paragraph on page 3 of the Report the reference to "section I" should be "section III" and on page VI of the Appendix A the total for materials and supplies should be $26,386.54 rather than $25,386.54.

Sincerely yours,

(Signed) E. D. Talbert

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

EDTalbert/wb
August 22, 1955

Copy to: Docket
Admr. Reading File
Mr. Chambers

XXXXXXXXXXXXXXXXXX
1201 N. Division Street
Spokane 2, Washington

July 19, 1955

Mr. E. D. Talbert, Acting Chief
Contract Administration and Audit Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Calera Mining Co.
Contract Idm-[illegible]45
Docket No. DMEA 3143

Dear Mr. Talbert:

Reference is made to your letter of July 12, 1955 in which you have asked for additional information on the drifting and timbering costs of $25.18 and $13.36 per foot, respectively, which were shown in my Interim Audit Report dated June 17, 1955.

During the on-site audit an analysis was made of the labor charges for the months of May 1954, October 1954, and February 1955. The information on the daily time card submitted by the employee was traced through the various accumulation records and payrolls to the final journal entry to the cost ledger. During the examination it was noted that the time cards were O.K.'D by the shift boss and that the rates were in agreement with the wage schedules.

A work sheet showing the total number of shifts worked and the total amount earned was not made on this audit like the work sheet prepared on the Bunker-Hill job because I was able to check each item step by step to the final cost ledger on the Operator's own records.

The drifting and timbering costs are high due to the extremely bad ground in the drift. This is borne out by the fact that 1238 feet of drift required 994.3 feet of timber. The timbering is made up of 383.8 feet of normal timbering, 313.5 feet of heavy timbering, and 297.0 feet of spiling.

The U. S. Bureau of Mines engineers were consulted regarding the high costs of drifting and timbering and they agree that the bad ground is a real factor.

Repair items (labor and supplies) were not set up on the Operator's records as repairs, but were charged to the various operations applicable. This would also have the tendency to increase the drifting and timbering costs.

Comment should have been made in the audit report regarding the repair items, but it was overlooked.

I have just returned from the Polaris job at Wallace, Idaho, and this report should be coming along soon.

Yours very truly,

C. A. Turner, Auditor

Original to Mr. Sedgwick on 7/21/55

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

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

JUL 12 1955

AIR MAIL

Re: Calera Mining Company
Contract Idm-E645
Docket No. DMEA-3143

Dear Mr. Turner:

Reference is made to your Interim Audit Report dated June 17, 1955, covering the referenced project contract.

On pages XIV and XV of Appendix A to this Audit Report, the drifting and timbering labor costs are indicated as averaging $25.18 and $13.36 per foot, respectively. Since these amounts appear to be relatively high the desirability of a further analysis of these costs is indicated.

It is noted that on page II of the Appendix you state, "An audit and analysis was made of payroll charges against the exploration project for the months of May 1954, October 1954, and February 1955", and on page III you list the types of labor and both the shift and bonus rates of pay applicable to this contract.

Your work sheets covering three months' detailed analysis probably contain sufficient information to show the types of labor and the number of hours or shifts employed in drifting and timbering during these months. If this is so, it is requested that you have photostats of the applicable work sheets made and forwarded to this office. Also, other information which may be of assistance in determining the reasons for these high labor costs per foot will be appreciated.

It is noted that your schedules of costs on pages XIV and XV of the Appendix A do not include any costs, either parts or labor, specifically indicated as repairs to equipment. Inasmuch as repairs undoubtedly were required, an explanation is requested.

Sincerely yours,

(Signed) E. D. Talbert

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

EDTalbert/wb
July 12, 1955

Copy to: Docket
Admr. Reading File
Mr. Selfridge
Mr. Martin
Mr. Chambers

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

JUN 27 1955

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Calera Mining Company
Contract Ida-2645
Docket No. DMEA-3143

Dear Mr. Turner:

Receipt is acknowledged of your Interim Audit Certificate and Report covering the above-cited Exploration Project Contract.

The Report is accepted and may be distributed in the usual manner.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

WBorovies/wb
June 27, 1955

Copy to: Docket
Admr. Reading File
Mr. Chambers

XXXXXXXXXXXXXXXXXX
1201 W. Division St.
Spokane 2, Washington
April 26, 1955

Mr. Jay L. Chambers, Chief
Contract Administration and Audit Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Chambers:

I hope to get on the Calera job soon.

Yours very truly,

C. A. Turner, Auditor

xxxxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

April 25, 1955

Mr. E. B. Douglas, Manager
Calera Mining Company
Blackbird Division
Cobalt, Idaho

Re: Docket No. DMEA-3143 (cobalt-copper)
Blackbird Mine
Lemhi County, Idaho
Contract No. Idm-[illegible]5

Dear Ed:

I have your letter of April 15 forwarding the costs on the Blackbird project. Mr. Charles Turner, our auditor, tells me that he will plan to be in Cobalt on the 2d or 3d of May; however, since it would be very desirable to have your accountant there at the same time, this date can be changed if Mr. Beacon will not be able to be there at that time.

Because of the slow mail service between here and Cobalt perhaps it would be well if you would wire me whether or not this date is satisfactory.

Sincerely,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

cc: DMEA (2)
USBM (2)
J. L. Chambers w/cy incoming
C. A. Turner (3)

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

April 15, 1955

	ACTION	NOTED	DATE
wl			
Luck			
nick			
Turner	cc		
ZS Bn	cc (2)		
OMK	cc (2)		
FILE			

Mr. A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)
United States Department of the Interior
So. 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3143 (cobalt-copper)
Blackbird Mine
Lemhi County, Idaho
Contract Idm-E645

Dear Mr. Weissenborn:

This is in reply to your letter of April 8 in which you request a summary of the cost of work performed under the above-mentioned contract. In accordance with your request, we are enclosing two copies of our cost summary of work completed to March 31, 1955. This summary covers our costs, with the following reservations:

1. Assaying is charged to the contract at the average cost per determination for all determinations made at the assay office. This is much less than actual cost of making cobalt determinations;

2. No charge has been made to the contract for the use of miners' lamps;

3. On March 31, 1955, underground diamond drilling was just started. The established rate is $3.3832 per foot. The lowest contract rate available is $4.00 per foot. On 10,500 feet to be drilled, this will accrue an extra cost to the Company of at least $6,500.00

Mr. Haddon, who has been our Chief Accountant, has resigned and is being replaced by Mr. George Deacon. Mr. Deacon is being transferred from our Brittania property and is arranging the necessary immigration papers. As he may be called away from the property because of this situation, I will appreciate your advising me, in advance, of Mr. Turner's visit so that if at all possible, arrangements can be made to have Mr. Deacon here at that time.

Yours very truly,

CALERA MINING COMPANY
Blackbird Division

E. B. Douglas, Manager

EBD:pc

RECEIVED
APR 20 1955
U. S. G. S.
SPOKANE, WASH.

CALERA MINING COMPANY - BLACKBIRD DIVISION
D.M.E.A. PROJECT DOCKET NO. DMEA - 3143
SINCE INCEPTION TO MARCH 31, 1955

	Expense
7400 Drift	
Rock Breaking	
Miners & Muckers	$ 11,949.39
Bonus	5,219.64
Explosives	2,678.77
Nipping and Hoisting	2,339.79
Drill Expense	761.36
Steel and Bits	1,147.37
Air	1,162.67
Air and Water Lines	4,541.98
Supervision	4,676.60
Ventilation	1,268.03
Mucking Supplies	1,068.24
Other Labor & Supplies	1,831.01
	$ 38,044.85 ✓
Waste Disposal	$ 5,044.82 ✓
Timbering	
Labor	$ 7,227.06
Supplies	8,053.90
Framing	5,217.60
	$ 20,498.56 ✓
TOTAL DRIFT	$ 63,588.23
Advanced Feet - DMEA - 1238 feet	
Trenching - 864 Hours	
Labor	$ 4,088.49
Machines	3,830.56
	$ 7,919.05 ✓
Diamond Drilling Feet - 9344	
Stage 1	$ 53,266.11
Stage 2	136.40
Sampling & Assaying (1)	1,582.39
Sampling & Assaying (2)	244.28
	$ 55,229.18 ✓
Geology	$ 5,659.03 ✓
Engineering	2,182.58 ✓
Accounting	1,996.44 ✓
	$ 9,838.05
Other Costs	
Old Age Pension	$ 877.14
Unemployment Insurance	981.17
Workmen's Compensation	2,425.63
Holiday - Statutory	479.14
Vacation Pay	621.11
	$ 5,384.19 ✓
TOTAL COST	$141,958.70

C
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Y

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

MAR 2 4 1955

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Re: Idm-E645, Docket DMEA-3143
Calera Mining Company

Dear Mr. Turner:

Reference is made to my letter of November 22, 1954, in regard to an audit of the above-cited project.

It appears to this office that the Calera Mining Company contract might well be audited at this time. Will you please discuss the matter with Mr. Weissenborn, and unless you or he have reason to put some other project ahead of this one for audit, I would like to see it appear on your April program.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
March 24, 1955

Copy to: Docket
Admr. Reading File
Mr. Chambers

Noted

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~XXXXXXXXXXXXXXXXXXXX~~
1201 N. Division Street
Spokane 2, Washington

Defense Minerals Administration
RECEIVED
NOV 24 1954

November 22, 1954

Mr. Jay L. Chambers, Chief
Contract Administration and Audit Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Idm-E645, Docket DMEA 3143
Calera Mining Company

Dear Mr. Chambers:

I have discussed the audit of the Calera Mining Company, Idm-E645, with Mr. Weissenborn, the Executive Officer, and he feels that an audit made at a later date, after the drift is in the ore body, would give a better picture than an audit made at this time.

I will, therefore, await your instructions before scheduling the audit.

Yours very truly,

C. A. Turner, Auditor

NOV 17 1954

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane, Washington

Dear Mr. Turner:

I have received a letter from E. D. Talbert under date of November 10, 1954, in which he calls my attention to a previous letter sent to you advising that an audit of Contract No. F645, Calera Mining Company, should be made as soon after December 9, 1954, as possible.

I have discussed the audit of this contract with the Division concerned and with the Deputy Administrator and both are of the opinion that the contract should not be audited at this time but should await further underground work, unless Mr. Weissenborn for some reason not known to us decides that an audit should be made.

The progress now being made at the mine indicates that better information might be obtained from an audit in February. Please discuss the matter with Mr. Weissenborn and let me know his reaction.

Sincerely yours,

Jay L. Chambers, Chief
Contract Administration
and Audit Division

JLChambers/wb
November 16, 1954

Copy to: Docket DMEA-3143
Admr. Reading File
Mr. Chambers

AUG 24 1954

Mr. Charles A. Turner
DMEA Auditor
1201 North Division Street
Spokane 2, Washington

Dear Mr. Turner:

While discussing your audit program with Mr. Tulbert during our recent Denver meeting, you requested advice as to the contracts in Region II which required interim audits at specified times for "renegotiation" purposes.

The four contracts involved are as follows:

[illegible] Taylor-[illegible]

Amended contract dated February 1, [illegible], provides for contribution by the Government on the basis of agreed unit costs "for a period of one year from the date of this Amended Contract, and thereafter unless and until the Government, at its option, notifies the Operator that from the time fixed by the notice the Government will contribute to the incompleted portions of any of these work requirements on the basis of actual costs as set forth in Article 6(a) of the contract form".

Therefore, it will be necessary to perform an audit of the Operator's actual costs on February 1, 1955, and to expedite the preparation and submission of the audit report in order that any benefit by conversion to an actual cost basis may be promptly secured by the Government.

[illegible] Dunker Hill & Sullivan

Contract dated February 25, 1950, provides for contribution by the Government to the costs of exploration work (as distinguished from rehabilitation and preparatory work) on the basis of agreed unit costs "until two years from the date of this contract or until the drift on the 3,200 foot level has reached the point of departure of the crosscut referred to in Item VI of said exploration work, whichever occurs first, and thereafter unless and until the Government at its option, notifies the Operator that from the time fixed by the notice the Government will contribute to any incompleted work, in whatever category, only on the basis of actual costs".

Accordingly, it will be necessary for you to keep currently advised as to the progress of the drifting on the 3,200 foot level and to schedule an audit when the drifting reaches the point referred to above or, at the latest, on February 25, 1955. This audit report also must be expedited.

F-541, DMA-2079, Valeria

Short Form (Unit Cost) contract dated June 3, 1953, provides that upon the expiration of a first period (18 months from the first day of the calendar month next succeeding the date of commencement of the work) "the Operator shall provide the Government with a detailed computation of the actual unit cost of drifting and crosscutting (treated as one operation) performed under this contract during said period. The Government may audit said computations to the extent it sees fit, and shall have access to the Operator's books and records for this purpose. If the actual unit cost of drifting and crosscutting for the first period is less than $51.00 per foot, the actual cost for drifting and crosscutting shall be and become the agreed unit cost for drifting and crosscutting for the second period".

Since it appears that work started on this contract on October 16, 1953, the first period would expire on May 1, 1955. An audit should be scheduled promptly upon receipt from the Operator of the detailed computation required by the Contract.

F-645, DMA-3143, Calera

Contract dated December 9, 1953, provides for the Government to contribute on the basis of agreed unit costs "for a period of one year from the date of this contract, and thereafter--unless and until the Government, at its option, notifies the Operator that the Government will contribute to the incompleted portions of any of the work on the basis of actual costs as set forth in Article 6(a) of the contract".

Accordingly, an audit should be scheduled for performance shortly after December 9, 1954, and the audit report, of course, should be expedited.

It is suggested that you appropriately "flag" these contracts so that the dates, on which audits will be required, will not be overlooked. I think you also will find it beneficial to currently maintain pre-audit work sheets for these projects.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

HDTalbert/ama
August 24, 1954

Copy to: Mails and Files
Admr. Reading File
Mr. Chambers
Contract Idm-E9, Taylor-Knapp
Contract Idm-E493, Dunker Hill & Sullivan
Contract Idm-E541, Polaris
Contract Idm-E645, Calera

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

Budget Bureau No. 42-R1036.5

RECEIVED
APR 22 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March 195 5 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Spiling	220.00	5,720.00	5,940.00			
Short Form						
Heavy Timber	77.00	2,117.50	2,194.50			
Trenching		10,262.59	10,262.59			
Framing	60.28	1,090.52	1,150.80			
Drifting	10,447.29	33,545.05	43,992.34			
Normal Timber	455.00	6,505.10	6,960.10			
(2) Labor and Supervision:						
Core Drilling Stage 2	194.48	331.46	525.94			
Core Drilling Stage1		59,692.44	59,692.44			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Core Drilling						
U.G Stage1		2,069.91	2,069.91			
Reaming		2,862.50	2,862.50			
Stage 1						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes Stage 2	183.00	633.00	816.00			
Liability Insurance						
Sampling & Analysis Stage 1	264.00	6,774.00	7,038.00			
(8) Contingencies (specify):						
TOTALS	11901.05	131604.07	143,505.12	11901.05	131604.07	143505.12

I certify that the above bill is correct and just and that payment therefor has not been received.
Date April, 1955 Payee Calera Mining Company
Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 8330 74

Signature [signature]
(Authorized Certifying Officer)

Date 4-15-55 Vou. No. 1480
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature (S) Alfred P. Service Title Mining Eng Date 4-14-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen N. Zoldok Title Mining Engr Date 4-15-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A (April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 22 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month 195 5 Docket No. DMEA 3143 Contract No. idm-E645
Operator Calera Mining Company Minerals Cobalt & Copper
Salmon, Idaho

	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
		10447.29	294	43,992.34	1238	35.535	6000	35.535
	Ft.	455.00	65	6,960.10	994.3	7.00	5000	7.00
	Ft.	77.00	11	2,194.50	313.5	7.00	750	7.00
	Ft.	220.00	11	5,940.00	297.0	20.00	500	20.00
	Sets.	60.28	11	1,150.80	210	5.48	1150	5.48
	Ea.	183.00	61	816.00	272	3.00	5900	3.00
Drilling Stage II	Ft.	194.48	57½	525.94	155½	3.3822	10500	3.3822
Auger Drilling Stage I	Ft.			2,069.91	612	3.3822	664.38	3.3822
Trenching								
Drilling Core Stage I	Hrs.			10,262.59	864	11.878	864	11.878
Assay Stage I	Ea.			59,692.44	8576½	6.96	8576.5	6.96
Roads and Trails	Ea.	264.00	88	7,038.00	2346	3.00	3100	3.00
Reaming Stage I	Ft.			2,862.50	1145	2.50	1145	2.50
Total Distributed Costs		11901.05		143,505.12				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		11901.05		143,505.12				

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

Date April 4, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

Remarks:

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

(Instructions on reverse)

4-14-55 (For Government use only)

151 alfred R Service

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 22 1955

April 4, 1955

Mr. A. L. Weissenborn
Executive Office - Region 1
D.M.A. Field Term
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.A. 3143
Contract No. idr-1045

Dear Mr. Weissenborn:

Enclosed are the maps and assays pertinent to the D.M.A. Project No. 3143 for the month of March, 1955.

The 7400 Drift North was driven 294 feet on a three shift basis. Only 65 feet of this advance required timber. There were 11 sets of drift timber installed, and 11 feet of ground was spiled.

Ground conditions in this heading improved greatly during the month. Two small ore zones were encountered, one of which was of exceptional grade. A diamond drill hole was drilled to investigate this high grade zone.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:mbd

Enclosures

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

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

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

Month of February, 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

Defense Minerals Administration RECEIVED APR 22 1955

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent Short Form~~ Spilling	1,560.00	4,160.00	5,720.00			
~~Heavy~~ Timber	546.00	1,571.50	2,117.50			
Trenching	-	10,262.59	10,262.59			
Framing	153.44	937.08	1,090.52			
Drifting	4619.55	28,925.50	33,545.05			
Normal Timber	931.00	5,574.10	6,505.10			
(2) ~~Independent Supervision~~:						
Core Drilling Stage II	-	331.46	331.46			
Core Drilling Stage I	-	59,692.44	59,692.44			
~~Technical Services~~						
(3) ~~Operating Materials Supplies~~:						
Core ~~Fuel~~ Drilling -						
~~Explosives~~ U.G. Stage I	2,069.91	-	2,069.91			
~~Fuel~~ Reaming -						
~~Fuel~~ Stage I	-	2,862.50	2,862.50			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) ~~Miscellaneous~~:						
~~Repairs to Equipment~~						
Sampling and Analysis -						
~~Payroll Taxes~~ Stage 2	111.00	522.00	633.00			
~~Liability Insurance~~						
Sampling & Analysis - Stage I	192.00	6,582.00	6,774.00			
(8) Contingencies (specify):						
TOTALS	10182.90	121,421.17	131,604.07	10182.90	121421.17	131604.07

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

Date March 3, 1955 Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 7128 03

Signature MQP
(Authorized Certifying Officer)

Date 4-15-55 Vou. No. 1480
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 1st Alfred L. Service Title Mining Engr Date 4-11-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W. Zoldok Title Mining Engr Date 4-12-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting Normal	Ft.	4,619.55	130	33,545.05	944	35.535	6000	35.535
Cross Cutting Timbering	Ft.	931.00	133	6,505.10	929.3	7.00	5000	7.00
Raising Heavy Timbering	Ft.	546.00	78	2,117.50	302.5	7.00	750	7.00
Shafts Spiling	Ft.	1,660.00	78	5,720.00	286.	20.00	500	20.00
Winzes Framing	Sets	153.44	28	1,090.52	199.	5.48	1150	5.48
Assay Stage II	Ea.	111.00	37	633.00	211	3.00	5900	3.00
Drilling Core Drilling Core Stage II	Ft.	-	-	331.46	98	3.3822	10500	3.3822
Underground D.D. Auger Stage I	Ft.	2,069.91	612	2,069.91	612	3.3822	664.38	3.3822
Stripping								
Trenching	Hrs.	-	-	10,262.59	864	11.878	864	11.878
Drilling Core Stage I	Ft.	-	-	59,692.44	8576½	6.96	8576.5	6.96
Tenrrs. Assay Stage I	Ea.	192.00	64	6,774.00	2258	3.00	3100	3.00
Roads and Trails								
Reaming Stage I	Ft.	-	-	2,862.50	1145	2.50	1145	2.50
TOTAL DISTRIBUTED COSTS		10,182.90		$131,604.07				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,182.90		$131,604.07				

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

Date March 3, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

4-11-55
/s/ alfred R Service

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 22 1955

March 3, 1954

Mr. A. E. Weissenborn
Executive Office - Region 1
D.M.E.A. Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. 1dr-E645

Dear Mr. Weissenborn:

We enclose herewith, the maps and assays covering the underground advance of the D.M.E.A. Project No. 3143 for the month of February, 1955.

The work of driving the 7400 Drift North, was continued on a three shift basis. Total advance in this heading amounted to 130 feet. Badly sheared and fractured ground continued to be a hindrance on the driving of the drift; 78 feet of the drift required the driving of spiling. During the month, a total of 28 sets of drift timber were used in the drift.

Two Diamond Drill holes were completed into the hanging wall of the Chicago Zone. Hole U-71-206 was drilled to a depth of 232 feet and intersected the mineralized zone that was exposed in the 500 surface trench. The zone was about 13 feet wide and consisted of Quartz and Pyrite mineralization, with minor Chalcopyrite and a trace of Cobalt. Hole U-71-205 was drilled to a depth of 455 feet and intersected only minor mineralization. Seventy-five feet at this hole was not charged to this contract.

Very truly yours,
Calera Mining Company
Blackbird Division

E. B. Douglas, Manager

Enclosures

Form MF-10[illegible] (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1955 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Spiling	1,500.00	2,660.00	4,160.00			
Heavy [redacted] Timber	525.00	1,046.50	1,571.50			
[redacted] Trenching		10,262.59	10,262.59			
[redacted] Framing	104.12	832.96	937.08			
Drifting	3,304.76	25,620.74	28,925.50			
Normal Timber	672.00	4,902.10	5,574.10			
(2) [redacted]:						
Core [redacted] Drilling-Stage 2		331.46	331.46			
Core [redacted] Drilling [redacted] Stage 1		59,692.44	59,692.44			
(3) [redacted]:						
[redacted] Reaming [redacted] Stage 1		2,862.50	2,862.50			
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis [redacted] Stage 2	60.00	462.00	522.00			
[redacted]						
Sampling & Analysis Stage 1		6,582.00	6,582.00			
(8) Contingencies (specify):						
TOTALS	6,165.88	115,255.29	121,421.17	6,165.88	115,255.29	121,421.17

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

Date February 3rd 1955 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 4316 12

Signature [signature]
(Authorized Certifying Officer)

Date 2/16/55 Vou. No. 1436
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature /S/ Alfred R. Service Title Mining Eng. Date 2/11/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Eng. Date 2/11/55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1955 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	3,304.76	93	28,925.50	814	35.535	6,000	35.535
Timbering	Ft.	672.00	96	5,574.10	796.3	7.00	5,000	7.00
Timbering	Ft.	525.00	75	1,571.50	224.5	7.00	750	7.00
Spiling	Ft.	1,500.00	75	4,160.00	208.0	20.00	500	20.00
Framing	Sets	104.12	19	937.08	171	5.48	1,150	5.48
Stage II	Ea.	60.00	20	522.00	174	3.00	5,900	3.00
Core-Stage II	Ft.			331.46	98	3.3822	10,500	3.3822
Auger								
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Core-Stage I	Ft.			59,692.44	8,576½	6.96	8,700	6.96
Stage I	Ea.			6,582.00	2,194	3.00	3,100	3.00
Reaming - Stage I	Ft.			2,862.50	1,145	2.50	1,700	2.50
TOTAL DISTRIBUTED COSTS		6,165.88		121,421.17				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		6,165.88		121,421.17				

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

Date February 3rd, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

February 3, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

Mr. A. F. Weissenborn
Executive Office - Region 2
D.M.E.A. Field Team
South 157 Howard Street
Spokane, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idm-E645

Dear Mr. Wiessenborn:

We enclose herewith, the maps and assays covering the underground advance of the D.M.E.A. Project No. 3143, for the Month of January, 1955.

The work of driving the 7400 Drift North was resumed on a three-shift basis in the early part of the month. This heading was advanced, 93-feet. Standing of drift timber was continued and 75-feet of the drift required the driving of spiling. A total of 19 sets of drift timber were stored.

The last round blasted contained visible fine grained cobaltite.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

Enclosures

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1954 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Spiling Contracts:	980.00	1,680.00	2,660.00			
Heavy Timber	343.00	703.50	1,046.50			
Trenching		10,262.59	10,262.59			
Framing	60.28	772.68	832.96			
Drifting	1,883.36	23,737.38	25,620.74			
Normal Timber	343.00	4,559.10	4,902.10			
(2) Core Drilling Stage 2		331.46	331.46			
Core Drilling Stage 1		59,692.44	59,692.44			
(3) Reaming Stage 1		2,862.50	2,862.50			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis - Stage 11	21.00	441.00	462.00			
Sampling & Analysis - Stage 1		6,582.00	6,582.00			
(8) Contingencies (specify):						
TOTALS	3,630.64	111,624.65	115,255.29	3630.64	111624.65	115255.29

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

Date January 4, 1955 Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 2541.45

Signature [signature]
(Authorized Certifying Officer)

Date 1-19-55 Vou. No. 1404
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature /s/ Alfred L Service Title Mining Engr Date 1-18-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr Date 1-18-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 6 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1954 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	1,883.36	53	25,620.74	721	35.535	6,000	35.535
Timbering	Ft.	343.00	49	4,902.10	700.3	7.00	5,000	7.00
Timbering	Ft.	343.00	49	1,046.50	149.5	7.00	750	7.00
Spiling	Ft.	980.00	49	2,660.00	133	20.00	500	20.00
Framing	Ft.	60.28	11	832.96	152	5.48	1,150	5.48
Stage II	Ea.	21.00	7	462.00	154	3.00	5,900	3.00
Drilling Core Stage II	Ft.			331.46	98	3.3822	10,500	3.3822
Auger								
Stripping								
Trenching	Hrs.			10,262.59	864	11.878	864	11.878
Drilling Core Stage 1	Ft.			59,692.44	8,576½	6.96	8,700	6.96
Assay - Stage 1	Ea.			6,582.00	2,194	3.00	3,100	3.00
Reaming - Stage 1	Ft.			2,862.50	1,145	2.50	1,700	2.50
TOTAL DISTRIBUTED COSTS		3,630.64		115,255.29				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3,630.64		115,255.29				

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

Date January 4, 1955 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

January 3, 1951

Mr. H. A. Kiesserborn
Executive Office - Region 4
D.M.E.A. Field Team
South 157 Howard Street
Spokane, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. Idr-2645

Dear Mr. Kiesserborn:

We enclose herewith, the maps and assays covering the adverse of the D.M.E.A. Project No. 3143, for the month of December, 1950.

During the month, work was carried on only in Stage II of the project and consisted of the driving and the sampling of the Main Drift North. This heading continued to advance through a badly fractured schistose quartzite that required the driving of spiling on both sides and the back of the drift. In order to give close supervision to the operations, this work was carried on only by a day-shift crew. A total of eleven sets of spiled drift timber were placed.

Traces of Cobalt and Copper mineralization were found by the assaying of the seven samples that were taken.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. R. Bergles, Manager

Enclosures

Form MMP 104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1954 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho
Contract Amount, $ 407340.00 Government Participation: 70 % Amount, $285138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
Heavy ~~Independent~~ Spiling	700.00	980.00	1680.00			
Core ~~Short Term~~ Timber	357.00	346.50	703.50			
Core Drilling Stage 11		331.46	331.46			
~~Bulldozing~~ Trenching		10262.59	10262.59			
Normal ~~Crosscutting~~ Timber	1400.00	3159.10	4559.10			
Drifting	6964.86	16772.52	23737.38			
Framing	219.20	553.48	772.68			
(2) ~~Labor and Supervision~~:						
Core ~~Labor~~ Drilling-Stage 1	6208.32	53484.12	59692.44			
Reaming ~~Supervision~~ Stage 1	277.50	2585.00	2862.50			
~~Technical Services~~						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
~~Payroll Taxes~~ Stage 11	96.00	345.00	441.00			
Liability Insurance						
Sampling & Analysis Stage 1	528.00	6054.00	6582.00			
(8) Contingencies (specify):						
TOTALS	16750.88	94873.77	111624.65	16750.88	94873.77	111624.65

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Dec. 3/54 *Payee Calera Mining Company
Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 11725 62

Signature [signature]
(Authorized Certifying Officer)

Date 12/16/54 Vou. No. 1375
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ Verdo J. Johnson Title Mining Engr. Date 12/14/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr. Date 12/14/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 3 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1954 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	6964.86	196	23737.38	668	35.535	6000	35.535
Normal Timbering	Ft.	1400.00	200	4559.10	651.3	7.00	5000	7.00
Heavy Timbering	Ft.	357.00	51	703.50	100.5	7.00	750	7.00
Spiling		700.00	35	1680.00	84.	20.00	500	20.00
Framing		219.20	40	772.68	141.	5.48	1150	5.48
Assay stage 11		96.00	32	441.00	147.	3.00	5900	3.00
Drilling Core stage 11	Ft.			331.46	98	3.3822	10500	3.3822
Auger								
Stripping								
Trenching	Hrs.			10262.59	864	11.878	864	11.878
Drilling Core stage 1	Ft.	6208.32	892	59692.44	8.576½	6.96	8700	6.96
Assay stage 1	Ea.	528.00	176	6582.00	2194	3.00	3100	3.00
Roads and Trails								
Reaming Stage 1	Ft.	277.50	111	2862.50	1145	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		16750.88		111624.65				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		16750.88		111624.65				

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

Date December 3, 1954 Operator Calera Mining Company

Per [signature] Title [signature]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1954

December 3, 195[illegible]

[illegible]

Dear [illegible]:

We [illegible] the [illegible] and diamond drill [illegible] covering the [illegible] of the D.M.E.A. Project No. [illegible] for the month of November, 1954.

The [illegible] of driving the [illegible] continued to be [illegible] three shifts [illegible]. Total [illegible] in the heading [illegible] heavy ground necessitated the driving of spilling [illegible] feet of the drift [illegible]

A total of 24 [illegible] operations.

Surface Diamond Drilling was conducted during the first part of the month. Hole S-48 and S-49 were drilled in the Garnet Schist to intersect a zone that contained cobaltite at the surface. No ore was intersected in the holes.

Very truly yours,
Calera Mining Company
Blackbird Division

[illegible], Manager

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

Defense Minerals Administration
RECEIVED
NOV 22 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1954 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt Idaho
Contract Amount, $ 407,340.00 Government Participation: 70% Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:						
Heavy Short Form Spiling		980.00	980.00			
Core Drilling Timber		346.50	346.50			
Stage 11		331.46	331.46			
Bulldozing Trenching		10,262.59	10,262.59			
Normal Crosscutting Timber	1,085.00	2,074.10	3,159.10			
Drifting	5,436.85	11,335.67	16,772.52			
Framing	158.92	394.56	553.48			
(2) Labor and Supervision:						
Core Labor Drilling Stage 1	7,579.44	45,904.68	53,484.12			
Supervision Reaming						
Technical Services Stage 1	795.00	1,790.00	2,585.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Property Taxes Stage 11	93.00	252.00	345.00			
Liability Insurance						
Sampling & Analysis Stage 1	1,689.00	4,365.00	6,054.00			
(8) Contingencies (specify):						
TOTALS	16,837.21	78,036.56	94,873.77	16,837.21	78,036.56	94,873.77

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

Date Nov. 4, 1954 Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 11786 05

Signature [signature]
(Authorized Certifying Officer)

Date 11/18/54 Vou. No. 1357
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ Verdo J. Johnson Title Mining Eng. Date Nov 15/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldak Title Mining Eng. Date Nov 15/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 22 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 4 Docket No. DMEA 3143 Contract No. Idm-E645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	5,436.85	153	16,772.52	472	35.535	6000	35.535
~~Crosscutting~~ Normal Timbering	Ft.	1,085.00	155	3,159.10	451.43	7.00	5000	7.00
~~Raising~~ Heavy Timbering	Ft.			346.50	49.5	7.00	750	7.00
~~Sinking~~ Spiling	Ft.			980.00	49.0	20.00	500	20.00
~~Wings~~ Framing	Sets	158.92	29	553.48	101	5.48	1150	5.48
~~Drifting Core~~ Assay Stage 11	Ea.	93.00	31	345.00	115	3.00	5900	3.00
~~Cross~~ Drilling Core Stage 11	Ft.			331.46	98	3.3822	10500	3.3822
~~Auger~~								
~~Stripping~~								
Trenching	Hrs			10,262.59	864	11.878		11.878
~~Test Pits~~ Assay Stage 1	Ft.	7,579.44	1089	53,484.12	7684½	6.96	8700	6.96
~~Roads and Trails~~		1,689.00	563	6,054.00	2018	3.00	3100	3.00
Reaming Stage 1		795.00	318	2,585.00	1034	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		16,837.21		94,873.77				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		16,837.21		94,873.77				

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

Date Nov. 4, 1954 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 22 1954

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

RECEIVED
OCT 13 1954
BOISE, IDAHO

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
RECEIVED
OCT 29 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt, & Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70% Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contracts: Spiling		980.00	980.00			
~~Subcontr~~ Heavy Timber		346.50	346.50			
Core Drilling Stage 11		331.46	331.46			
~~Exploring~~ Trenching	350.40	9,912.19	10,262.59	350.40		
Normal ~~Exploring~~ Timbering	777.00	1,297.10	2,074.10	777.00		
Drifting	4,122.06	7,213.61	11,335.67	4,122.06		
Framing	115.08	279.48	394.56	115.08		
(2) ~~Labor and Supervision~~						
Core ~~Labor~~ Drilling, stage 1	9,256.80	36,647.88	45,904.68	9,256.80		
~~Supervision~~ Reaming ~~Technical Services~~ stage 1	335.00	1,455.00	1,790.00	335.00		
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
~~Expense Equipment~~						
Sampling and Analysis ~~Payroll Taxes~~ Stage 11	75.00	177.00	252.00	75.00		
~~Liability Insurance~~						
Sampling & Analysis Stage 1	729.00	3,636.00	4,365.00	729.00		
(8) Contingencies (specify):						
TOTALS	15,760.34	62,276.22	78,036.56	15,760.34	62,276.22	78,036.56

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

Date Oct. 5, 1954 *Payee Calera Mining Company

By [signature] Title [illegible]

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

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

(Instructions on reverse)

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

$ 11032 24

Signature MJP
(Authorized Certifying Officer)

Date 10/22/54 Vou. No. 1322
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 1st Verdo J. Johnson Title Mining Engr. Date 10/19/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W Zoldok Title Mining Engr. Date 10/19/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form [illegible]A
(Ap[illegible]

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 29 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Norman Timbering	Ft.	4,122.06	116	11,335.67	319	35.535	6000	35.535
Caving	Ft.	777.00	111	2,074.10	296.3	7.00	5000	7.00
Heavy Timbering	Ft.			346.50	49.5	7.00	750	7.00
Spiling	Ft.			980.00	49.0	20.00	500	20.00
Framing	Sets	115.08	21	394.56	72.	5.48	1150	5.48
Assay Stage II								
Core	Ea.	75.00	25	252.00	84	3.00	5900	3.00
Drilling Core Stage 1	Ft.			331.46	98	3.3822	10,500	3.3822
Auger								
Stripping								
Trenching	Hrs.	350.40	29½	10,262.59	864	11.878	864	11.878
Drilling Core, stage 1	Ft.	9256.80	13.30	45,904.68	6,595½	6.96	8,700	6.96
Assay Stage 1	Ea.	729.00	243	4,365.00	1,455	3.00	3,100	3.00
Reaming Stage 1	Ft.	335.00	134	1,790.00	716	2.50	1,700	2.50
TOTAL DISTRIBUTED COSTS		15,760.34		78,036.56				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		15,760.34		78,036.56				

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

Date October 5, 1954 Operator Calera Mining Company
Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

RECEIVED
BUREAU OF MINES
OCT 13 1954

October 2, 1954.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 29 1954

Mr. A. E. [illegible]
Executive [illegible] - Region 2
Defense Field Team
South 157 Howard
Spokane 4, Washington

Re: Project No. DMI-Idaho 3143
Contract No. [illegible]

Dear Mr. Wolcombers:

We enclose herewith the maps and diamond drill logs covering the activities of the Blackbird Project No. 3143 for the month of September, 1954.

Trenching continued during the month on the hanging wall zone. Work was done on 8 trenches, exposing approximately 1200 feet of bedrock. Several pods of mineralization were found.

Work on the 7400 Drift North was continued with the advance amounting to 116 feet for the month. The standing of drift timber continued and 21 sets were stood. The direction of the 7400 Drift North has been changed to a 12[illegible]W bearing.

Diamond drilling was completed in the tunnel behind north of the Drum Hear zone. Only three of the seven holes drilled in this area intersected mineralization of ore grade. Drilling is now in progress on the Indian Creek claim east of the Chicago zone.

Very truly yours,

CALERA MINING COMPANY,
BLACKBIRD DIVISION

[illegible]
[illegible], Manager

[illegible]
[illegible]

Form MF-104 (Rev.)
(April 195[illegible])

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

Defense Minerals Administration
RECEIVED
SEP 27 1954

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

Month of August, 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Spiling	420.00	560.00	980.00	420.00		
~~Heavy~~ Heavy Timber	147.00	199.50	346.50	147.00		
Core Drilling-Stage II	-	331.46	331.46			
~~Drilling~~ Trenching	1,164.04	8,748.15	9,912.19	1164.04		
Normal Timber ~~Crosscutting~~	630.00	667.10	1,297.10	630.00		
Drifting	3,482.43	3,731.18	7,213.61	3482.43		
Framing	98.64	180.84	279.48	98.64		
(2) ~~Labor and Supervision~~						
Core Drilling-Stage I	8,247.60	28,400.28	36,647.88	8247.60		
~~Supervision~~ Reaming						
~~Technical Services~~ Stage I	340.00	1,115.00	1,455.00	340.00		
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
~~Repairs to Equipment~~						
Sampling and Analysis						
~~Payroll Taxes~~ Stage II	36.00	141.00	177.00	36.00		
~~Liability Insurance~~						
Sampling & Analysis Stage I	618.00	3,018.00	3,636.00	618.00		
(8) Contingencies (specify):						
TOTALS	15,183.71	47,092.51	62,276.22	15183.71	47092.51	62276.22

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

Date August 4, 1954 Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$10628 60

Signature [signature]
(Authorized Certifying Officer)

Date 9/23/54 Vou. No. 1290
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature /s/ Verda J. Johnson Title Mining Engr Date 9/14/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Goldich Title Mining Engr Date 9/15/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 27 1954

Month of August 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	3,482.43	98	7,213.61	203	35.535	6000	35.535
Normal Timbering	Ft.	630.00	90	1,297.10	185.3	7.00	5000	7.00
Heavy Timbering	Ft.	147.00	21	346.50	49.5	7.00	750	7.00
Spiling	Ft.	420.00	21	980.00	49.0	20.00	500	20.00
Framing	Sets	98.64	18	279.48	51.0	5.48	1150	5.48
Assay Stage II	Ea.	36.00	12	177.00	59.	3.00	5900	3.00
Drilling Core Stage II	Ft.	-	-	331.46	98	3.3822	10500	3.3822
Auger								
Stripping								
Trenching	Hrs.	1,164.04	98	9,912.19	834½	11.878	864	11.878
Drilling Core Stage I	Ft.	8,247.60	1185	36,647.88	5265½	6.96	8700	6.96
Assay Stage I	Ea.	618.00	206	3,636.00	1212	3.00	3100	3.00
Reaming Stage I	Ft.	340.00	136	1,455.00	582	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		15,183.71		62,276.22				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		15,183.71		62,276.22				

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

Date August 4, 1954 Operator Calera Mining Company

By [signature] Title [signature]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

September 2, 1954

Mr. A. S. Weissenborn
Executive Office - Region 2
D.M.E.A. Field Team
South 157 Howard
Spokane 4, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. 4dm-E543

Dear Mr. Weissenborn:

We enclose herewith the daily and diamond drill logs covering the activities of the D.M.E.A. Project No. 3143 for the month of August, 1954.

At the first of the month, trenching was started on the Indian Quarts area and continued in this area most of the month crossing approximately 2,100 feet of bed rock. Several small zones of oxidization were found by this operation.

Diamond drilling was done in three surface holes, namely S-40, S-41, S-42. The S-42 incompleted. Several zones of mineralization were intersected by this diamond drilling. Total diamond drilling for the month amounted to 1,155 feet.

The driving of the 7400 Drift was resumed and this heading was advanced 93 feet on the D.M.E.A. account. In an effort to find fresh ground this drift was turned on a N.30°E. bearing at a point 125 feet from the old face. A 20 scale geological map of this work is enclosed.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Vaughan, Manager

EBV:ed
Encl: Map

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

Defense Minerals Administration
RECEIVED
SEP 27 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1954 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70% Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Contracts: Spiling	-	560.00	560.00			
Heavy Timber	-	199.50	199.50			
Drilling - Core - Stage II	-	331.46	331.46			
Trenching	795.83	7,952.32	8,748.15	795.83		
Normal Timber	-	667.10	667.10			
Drifting	-	3,731.18	3,731.18			
Framing	-	180.84	180.84			
(2) Labor:						
Core Drilling-Stage I	7,419.36	20,980.92	28,400.28	7419.36		
Reaming	393.75	721.25	1,115.00	393.75		
Stage I						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling & Analysis Stage II	-	141.00	141.00			
Payroll Taxes						
Sampling & Analysis Stage I	1,086.00	1,932.00	3,018.00	1086.00		
(8) Contingencies (specify):						
TOTALS	9,694.94	37,397.57	47,092.51	9694.94	37397.57	47092.51

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

Date Aug. 3, 1954 *Payee Calera Mining Company

Per [signature] Title [signature]

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

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

(Instructions on reverse)

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

$ 6786 46

Signature [signature]
(Authorized Certifying Officer)

Date 9/23/54 Vou. No. 1290
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 645 in accordance with the terms of the contract.

Signature /s/ Verdo Z. Johnson Title Mining Engr Date 9/14/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Zoldok Title Mining Engr Date 9/15/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 27 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 4 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	-	-	3,731.18	105	35.535	6000	35.535
Normal Timbering	Ft.	-	-	667.10	95.3	7.00	5000	7.00
Heavy Timbering	Ft.	-	-	199.50	28.5	7.00	750	7.00
Spiling	Ft.	-	-	560.00	28.0	20.00	500	20.00
Framing	Sets	-	-	180.84	33.0	5.48	1150	5.48
Assay Stage II	Ea.	-	-	141.00	47	3.00	5900	3.00
Drilling Core Stage II	Ft.	-	-	331.46	98	3.3822	10500	3.3822
Auger								
Stripping								
Trenching	Hrs.	795.83	67	8,748.15	736½	11.878	864	11.878
Drilling Core-Stage I	Ft.	7,419.36	1066	28,400.28	4080½	6.960	8700	6.960
Assay Stage I	Ea.	1,086.00	362	3,018.00	1006	3.00	3100	3.00
Reaming - Stage I	Ft.	393.75	157½	1,115.00	446	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		9,694.94		47,092.51				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		9,694.94		47,092.51				

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

Date August 3, 1954 Operator Calera Mining Company
Per [signature] Title [signature]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

August 6, 1954

Mr. A. E. Weissenborn
Executive Office - Region 2
D.M.E.A. Field Team
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. D.M.E.A. 3143
Contract No. 16m-3645

Dear Mr. Weissenborn:

We enclose herewith the reports covering the activities of the D.M.E.A. Project No. 3143 for the month of July, 1954.

Trenching continued intermittently during the month. A trench approximately 1,100 feet long east of the Chicago zone was nearly completed.

Surface diamond drilling continued in the garnet schist. The holes drilled in this area have all intersected a highly siliceous zone that contains low-grade cobalt and copper mineralization. The zone strikes about N30W and dips about 55° to the NE.

The 7400 Drift North was started at the end of the month on a line N30W from the 17,2[illegible] coordinate. There was no advance north of the D.M.E.A. boundary.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:mg
Enclosure

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70% Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Indirect~~ Spiling		560.00	560.00		560.00	560.00
~~Short Form~~ Heavy Timber		199.50	199.50		199.50	199.50
Drilling-Core-Stage II		331.46	331.46		331.46	331.46
~~Bulkhead~~ Trenching	1,033.38	6,918.94	7,952.32	1033.38	6918.94	7952.32
Normal ~~Lagging~~ Timber		667.10	667.10		667.10	667.10
Drifting		3,731.18	3,731.18		3731.18	3731.18
Framing		180.84	180.84		180.84	180.84
(2) ~~Labor and Supervision~~:						
Core ~~Inter~~ Drilling-Stage I	9,319.44	11,661.48	20,980.92	9319.44	11661.48	20980.92
~~Supervision~~ Reaming	295.00	426.25	721.25	295.00	426.25	721.25
~~Technical Services~~ Stage I						
(3) ~~Operating Materials and Supplies~~:						
~~Timber~~						
~~Explosives~~						
~~Pipe~~						
~~Track~~						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
~~Repairs to Equipment~~						
Sampling and Analysis		141.00	141.00		141.00	141.00
~~Power~~ Stage II						
~~Miscellaneous~~						
Sampling & Analysis	1,032.00	900.00	1,932.00	1032.00	900.00	1932.00
Stage I						
(8) Contingencies (specify):						
TOTALS	$11,679.82	$25,717.75	$37,397.57	11679.82	25717.75	37397.57

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

Date July 7, 1954 *Payee Calera Mining Company

Per [signature] Title Vice Pres.

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

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

(Instructions on reverse)

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

$ 8175 87

Signature [signature]
(Authorized Certifying Officer)

Date 7/20/54 Vou. No. 1217
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature 151 Verdo Z Johnson Title Mining Engr Date 7/14/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Stephen W Zaldok Title Mining Engr Date 7/14/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1954 Docket No. DMEA 3143 Contract No. idm-E645

Operator's Name Calera Mining Company Minerals Cobalt and Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.			$ 3,731.18	105	$35.535	6000	$35.535
Normal Timbering	Ft.			667.10	95.3	7.00	5000	7.00
Heavy Timbering	Ft.			199.50	28.5	7.00	750	7.00
Spiling	Ft.			560.00	28.0	20.00	500	20.00
Framing	Sets			180.84	33.0	5.48	1150	5.48
Assay Stage II	Ea.			141.00	47	3.00	5900	3.00
Drilling Core Stage II	Ft.			331.46	98	3.3822	10500	3.3822
Auger								
Stripping								
Trenching	Hrs.	1,033.38	87	7,952.32	669 ½	11.878	864	11.878
Drilling Core Stage I	Ft.	9,319.44	1339	20,980.92	3014 ½	6.960	8700	6.960
Assay Stage I	Ea.	1,032.00	344	1,932.00	644	3.00	3100	3.00
Reaming Stage I	Ft.	295.00	118	721.25	288 ½	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		$11,679.82		$37,397.57				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$11,679.82		$37,397.57				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 7, 1954 Operator Calera Mining Company

Per [signature] Title [signature]

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc.". The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

July 7, 1954

Mr. A. E. Weissenborn
Executive Office - Region 2
D. M. E. A. Field Team
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 3143
Contract No. idm-E645

Dear Mr. Weissenborn:

We enclose herewith the reports covering the activities of the D.M.E.A. Project No. 3143 for the month of June, 1954.

Trenching was continued with the D-7 bulldozer for a total of 87 hours of bulldozer operation. The 763 Trench was opened up and approximately 350 feet of bedrock was exposed. The overburden in the western part of this trench was found to be approximately 20 feet deep.

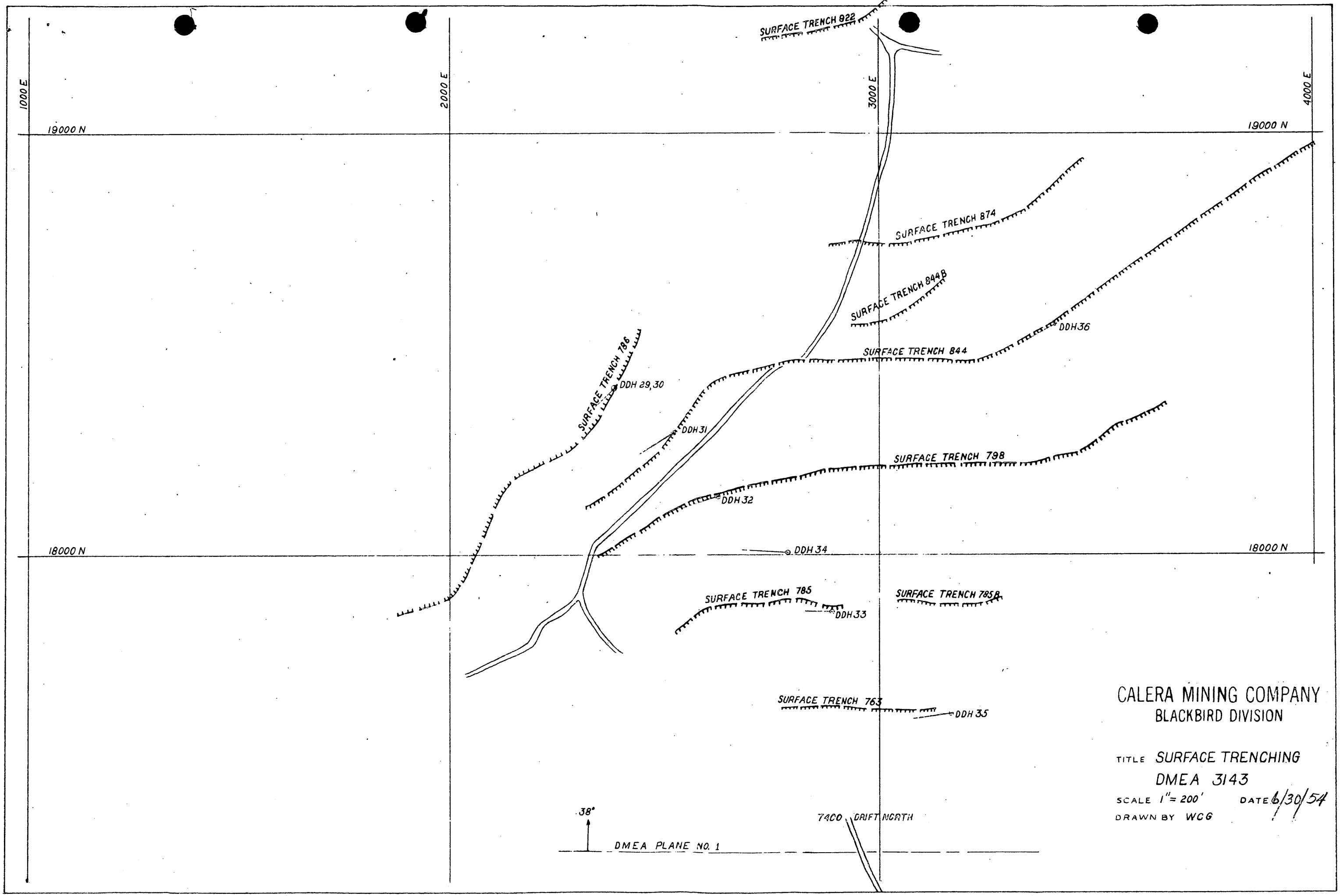
Surface diamond drilling was completed for the present in the area northeast of the Brown Bear Ore Zone and was started in the garnet schist approximately a thousand feet east of the previous drilling. The first hole in the garnet schist intersected low grade cobalt mineralization.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:abd
Enclosures


1000 E
2000 E
3000 E
4000 E
19000 N
18000 N
SURFACE TRENCH 822
SURFACE TRENCH 874
SURFACE TRENCH 844B
SURFACE TRENCH 844
DDH36
SURFACE TRENCH 786
DDH 29,30
DDH31
SURFACE TRENCH 798
DDH32
DDH34
SURFACE TRENCH 785
DDH33
SURFACE TRENCH 785B
SURFACE TRENCH 763
DDH35
38°
DMEA PLANE NO. 1
7400 DRIFT NORTH
CALERA MINING COMPANY
BLACKBIRD DIVISION
TITLE SURFACE TRENCHING
DMEA 3143
SCALE 1" = 200'
DATE 6/30/54
DRAWN BY WCG

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 1
By R.E. CRIBBS
Date MAY, 1954

Hole No. 5-32 Mine Level SURFACE
Location 795 TEENLH
Bearing S 71½ W Dip -47° Length 322½
Latitude of Collar 18,137 N Departure of Collar 2,629 E Elevation 7833½

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/24/54		0-10				10	5	NX SCHISTOSE QUARTZITE WITH NARROW SCHIST ZONES 70° TO CORE
		10-12				2	25	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE
		12-22						SCHISTOSE QUARTZITE WITH NARROW
		12-17				5	20	SCHIST ZONES ABOUT 70° TO CORE. LAST HALF
		17-22				5	6	OF CORE 17-22 IS LIMONITE GOSSAN.
		22-26½				4½	29	FINE GRAINED AND SOMEWHAT BLEACHED
								SCHISTOSE QUARTZITE AND SCHIST ABOUT 60°
								TO CORE. ABOUT 25% QUARTZ-LIMONITE
								MINERALIZATION. POSSIBLE FAULT 25-26½'.
		26½-31				4½	13	SCHISTOSE QUARTZITE ABOUT 60° TO CORE.
								FIRST PART OF CORE HAS SOME QUARTZ-
								LIMONITE MINERALIZATION.
		31-41½						SCHISTOSE QUARTZITE AND SCHIST ABOUT
		31-35½				4½	44	55° TO CORE. MOST OF CORE IS HIGHLY
		35½-39½				4	33	FRACTURED. A ½" FIELD OF YELLOW ALTERED
		39½-41½				2	100	ROCK AT 33'.
		41½-46				4½	71	SCHISTOSE QUARTZITE WITH MANY NARROW
								SCHIST ZONES UP TO ½" WIDE AND ABOUT 50°
								TO CORE. STRINGERS OF QUARTZ-LIMONITE
								MINERALIZATION 42½-44.
		46-53½				7½	35	SCHISTOSE QUARTZITE WITH QUARTZ-
								LIMONITE STRINGERS THROUGHOUT CORE.
								SOME OF CORE HIGHLY FRACTURED.
		53½-58½				5	40	FRACTURED SCHISTOSE QUARTZITE WITH
								SOME NARROW LIMONITE MINERALIZATION HEALING
								OLD FRACTURES.
	X383	58½-64½	Tr.	Tr.		6	33	HIGHLY FRACTURED SCHISTOSE QUARTZITE
								WITH MINOR QUARTZ-LIMONITE MINERALIZATION.
	X384	64½-66	.45	.08		1½	100	SCHISTOSE QUARTZITE WITH GOOD QUARTZ-
								COBALTITE - ~~[illegible]~~ MINERALIZATION
								AND YELLOW ARSENIC? STAINS.
	X385	66-69½	.07	Tr.		3½	97	SCHISTOSE QUARTZITE ABOUT 80° TO
								CORE. HIGHLY FRACTURED AT 66½'.
		69½-79½						SCHISTOSE QUARTZITE WITH SOME NARROW
	X386	69½-70½	.50	.07		1	100	SCHIST ZONES UP TO 1" WIDE AND ABOUT 80° TO
	X387	70½-73½	.16	.22		3	"	CORE. QUARTZ-PYRITE MINERALIZATION 69½-70½'.
	X388	73½-75	.09	.02		1½	"	SOME LIMONITE MINERALIZATION 73½-74½'.
	X389	75-79½	.09	.15		4½	"	SOME IRREGULAR QUARTZ STRINGERS WITH
								MINOR LIMONITE 76-78'.

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 2

DIAMOND DRILLING RECORD

By

Date

Hole No. S-32 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT.	% C.R.	Geology and Remarks
5/24/54		79½-85½						SOMEWHAT BRECCIATED AND CONTORTED
	x390	79½-82½	.30	.13		3	93	SCHISTOSE QUARTZITE WITH MINOR
	x391	82½-85½	.06	Tr		3	100	IRREGULAR QUARTZ-CHALCOCITE?-PYRITE?
								VEINLETS.
		85½-93½						CONTORTED AND SOMEWHAT BRECCIATED
	x392	85½-91½	.06	.47		6	88	SCHISTOSE QUARTZITE AND SCHIST MOSTLY AT
	x393	91½-93½	.07	.05		2	100	LOW ANGLE TO CORE. MINOR IRREGULAR
								QUARTZ-CHALCOCITE? STRINGERS. A 1" PYRITE-QUARTZ STRINGER AT HIGH ANGLE TO CORE AT 86'. QUARTZ-SULFIDE MINERALIZATION 89-90' NEARLY PARALLEL TO CORE.
		93½-103½						SCHISTOSE QUARTZITE WITH NARROW
	x394	93½-96	.06	.09		2½	76	CONTORTED SCHIST ZONES MOSTLY 20-30°
	x395	96-100	.07	.02		4	100	TO CORE. QUARTZ-LIMONITE GOSSAN ABOUT
	x396	100-103½	Tr	.04		3½	94	2" WIDE AT 93½ AND 96'. A 1" QUARTZ-SULFIDE VEIN AT 94½ AND A FEW NARROW QUARTZ-BIOTITE-SULFIDE STRINGERS MOSTLY AT HIGH ANGLE TO CORE 95½-101'. ROCK HIGHLY FRACTURED 95½-96', 99-100' AND 103-103½' WITH SHEARING PRESENT 99-100'.
5/25		103½-105				1½	100	SCHISTOSE QUARTZITE WITH NARROW SCHIST ZONES NEARLY PARALLEL WITH CORE. A ⅛" PYRITE VEIN 20° TO CORE AT 104'.
		105-106½'				1½	"	FRACTURED SCHIST WITH PYRITE-CHALCOCITE? STRINGERS AND SOME LIMONITE FRAGMENTS. CORE IS FRACTURED AND IS PROBABLY FAULT ZONE.
		106½-109½				3	"	SCHISTOSE QUARTZITE MOSTLY 35° TO CORE BUT PARALLEL AT 109½'. A NARROW SULFIDE STRINGER AT 107'.
		109½-123						ALTERNATING ZONES OF SCHISTOSE QUARTZITE
		109½-112				2½	"	AND SCHIST UP TO A FOOT WIDE AND VARYING
		112-116				4	"	FROM PARALLEL TO 45° TO CORE. QUARTZ
		116-123				7	"	MINERALIZATION WITH LIMONITE AND MINOR CHALCOCITE? 110-112½, 116-116½, 118-119. A TWO INCH VUGGY PYRITE VEIN AT 114'. A 1" ZONE OF GREENISH SCHISTOSE QUARTZITE 30° TO CORE AT 113½.
5/27		123-132½				9½	"	CONTORTED ZONES OF SCHIST UP TO ½" WIDE IN QUARTZITE AND VARYING FROM 45° TO CORE AT 123 TO PARALLEL AT 123½, 30° AFTER 124½, AND 50° AFTER 13. SOME QUARTZ-LIMONITE MINERALIZATION IN STRINGERS AND OLD FRACTURES 126-132'. MODERATELY FRACTURED BLACK SCHIST 132-132½'.

Hole No. S-32

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 3
By
Date

DIAMOND DRILLING RECORD

Hole No. 5-32 Mine Level
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/29/54		132½-134				1½	67	SOME QUARTZ-LIMONITE MINERALIZATION IN QUARTZITE AND SCHIST.
		134-137				3	100	NARROW SCHIST ZONES IN QUARTZITE 30-50° TO CORE. MODERATELY FRACTURED SCHIST 136-137'.
		137-141						MODERATELY FRACTURED SCHISTOSE QUARTZITE AND SCHIST WITH QUARTZOSE SCHIST 138½-141.
		137-139				2	100	
		139-141				2	90	
5/31/54	X430	141-143	Tr	Tr		2	60	MODERATELY FRACTURED QUARTZOSE SCHIST AND QUARTZITE
	X431	143-147	.01	Tr		4	38	SCHISTOSE QUARTZITE
	X432	147-153½	Tr	.02		6½	85	SCHISTOSE QUARTZITE WITH A FEW NARROW SCHIST ZONES. ABOUT 80° TO CORE. ABOUT HALF OF CORE IS HIGHLY FRACTURED
	X433	153½-156	.01	Tr		2½	88	SCHISTOSE QUARTZITE AND SCHIST ABOUT 70° TO CORE. SOFT CRUMBLY SCHIST 155-156'.
	X434	156-158	.01	.06		2	90	FRACTURED SCHISTOSE QUARTZITE. MINOR IRON STAINS ON FRACTURES
	X435	158-162	.03	.23		4	68	FRACTURED AND SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE WITH NARROW SCHIST ZONES ABOUT 60° TO CORE. MINOR IRON STAINS.
	X436	162-166	.04	.63		4	98	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE AND SCHIST WITH LIMONITE STAINS ALONG FRACTURES. MINOR QUARTZ-CHALCOPYRITE-CHALCOCITE ? STRINGERS.
		166-171½						SCHISTOSE QUARTZITE WITH SOME SCHIST ZONES ABOUT 80° TO CORE. FRACTURED QUARTZOSE SCHIST 167-168½. MINOR QUARTZ-CHALCOPYRITE STRINGERS. 1" SCHIST ZONE LARGELY REPLACED BY CHALCOCITE AT 169½.
	X437	166-168½	.04	.47		2½	80	
	X438	168½-171½	.04	.71		3	100	
	X439	171½-176½	.04	.13		5	66	ALTERNATING ZONES OF SCHIST AND QUARTZITE ABOUT 70° TO CORE. HIGHLY FRACTURED 171½-173½, 174½-176½. GREEN MINERAL AT 174'.
	X440	176½-178	.07	.27		1½	80	ALTERNATING ZONES OF SCHISTOSE QUARTZITE AND SCHIST. ABOUT 60° TO CORE.
	X441	178-180	.02	.15		2	80	SCHISTOSE QUARTZITE WITH QUARTZ-CHALCOPYRITE-CHALCOCITE-AZURITE? MINERALIZATION.
	X442	180-181½	.06	.50		1½	73	FRACTURED SCHIST AND SCHISTOSE QUARTZITE
	X443	181½-185½	.01	.05		4	100	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE WITH A FEW NARROW SCHIST ZONES ABOUT 55° TO CORE. MINOR QUARTZ-CHALCOCITE MINERALIZATION. MODERATELY FRACTURED 184½-185½.

Hole No. 5-32

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 4

DIAMOND DRILLING RECORD

By

Date

Hole No. S-32 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/31/54	X444	185½-193	.15	.18		7½	63	Contorted narrow schist zones in somewhat brecciated schistose quartzite. Highly fractured and contains quartz stringers. Below 187½.
	X445	193-195½	.11	.14		2½	80	Contorted schist zones in somewhat brecciated schistose quartzite. Some quartz-chalcopyrite-pyrite mineralization throughout core. Core sheared and moderately fractured.
		195½-206½						Quartz-chalcopyrite-cobaltite-pyrite?
	X446	195½-197	.21	.70		1½	100	mineralization replacing about 50% of
	X447	197-201½	1.62	2.00		4½	100	schistose quartzite and schist. Quartzite
	X448	201½-206½	.51	2.13		5	48	almost entirely replaced 197-201½. Highly fractured 200-201½. Soft fractured schist 205½-206½.
	X449	206½-209½	.10	2.60		3	17	Schistose quartzite at high angle to core with some quartz-chalcopyrite mineralization.
6/11/54		209½-219						AX Quartzose schist sheared nearly
	X601	209½-214	.02	.02		4½	20	parallel to core 209½-214 and about 35° to
	X602	214-219	.08	.68		5	18	core 214-219. Last 2" of core is soft black schist with minor sulfides.
	X603	219-224	.08	2.97		5	10	Fragments of schist and quartzite with quartz-pyrite-muscovite? mineralization. Coarse chlorite perpendicular to quartz stringer at 219½.
	X604	224-227½	.03	.28		3½	29	Fragments of schistose quartzite with very minor quartz stringers. Last 2" of core is soft black schist.
	X605	227½-231	.04	.19		3½	31	Narrow contorted schist zones about 20° to core in brecciated quartzite. Last 2" core highly fractured schist.
	X606	231-234	.08	.78		3	60	Pyrite and minor quartz stringers in fractured quartzose schist. Last 6" of core is soft black schist.
	X607	234-237½	.07	.42		3½	31	Quartz mineralization in fractured schistose quartzite. Last half core soft black schist.
	X608	237½-240½	.04	.30		3	70	Alternating zones of contorted schist and quartzite with minor quartz-pyrite-limonite mineralization. Part of core is highly fractured.

Hole No. S-32

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Hole No. 5-32 Mine

Location

Bearing Dip

Latitude of Collar Departure of Collar

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FS	% C.R.	
6/11/54		240½-252						
	x 609	240½-244	.04	.64		3½	57	
	x 610	244-247	.01	.27		3	60	
	x 611	247-252	Tr	.13		5	24	
		252-257½						
	x 612	252-254½	.01	.36		2½	32	
	x 613	254½-257½	.01	.16		3	50	
	x 614	257½-262½	.15	.78		5	40	
		262½-280						
	x 615	262½-267½	.12	.76		5	52	
	x 616	267½-271	.04	.04		3½	80	
	x 617	271-273	.05	.13		2	35	
	x 618	273-276	.02	.15		3	27	
	x 619	276-280	.03	.12		4	23	
	x 620	280-284	.07	.12		4	23	
	x 621	284-287	.10	.41		3	40	
		287-302						
	x 622	287-291	.05	.05		4	45	
		291-295				4	38	
		295-299				4	5	
		299-302				3	7	
		302-309						
		302-305½				3½	57	
		305½-309				3½	46	
		309-322½						
		309-312½				3½	60	
		312½-316				3½	46	
		316-320				4	15	
		320-322½				2½	20	

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 6
By
Date
Level

Hole No. 5-32 Mine
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/4/54	X306	6-10	Tr	Tr		4	Sludge	
	X307	10-17	Tr	Tr		7		
	X308	17-22	Tr	.02		5		
	X309	22-26½	Tr	.02		4½		
	X310	26½-31	Tr	Tr		4½		Cased to 31
	X311	31-35½	Tr	.02		4½		
	X312	35½-39½	.01	Tr		4		
	X313	39½-44½	Tr	.05		5		
	X314	44½-50	Tr	Tr		5½		
	X315	50-58½	Tr	.02		8½		
	X316	58½-64½	Tr	Tr		8		
	X317	64½-69½	.15	.03		5		
	X318	69½-73½	.33	.04		4		
	X319	73½-79½	.13	.08		6		No water 77-78
	X320	79½-85½	.23	.23		6		
	X321	85½-91½	.08	.82		6		
	X322	91½-96	.11	1.03		4½		
	X323	96-100	.06	.10		4		
	X324	100-105	.05	.33		5		
	X325	105-110	.06	.36		5		
	X326	110-116	.03	.52		6		
	X327	116-123	.04	.36		7		
	X328	123-132½	.01	.07		9½		
	X329	132½-137	.01	.09		4½		
	X330	137-141	.01	.08		4		
	X331	141-142	.02	.09		3		
5/20	X332	166-171½	.04	.77		5½		No sludge
	X333	171½-176½	.04	.35		5		
	X334	176½-181½	.09	.64		5		
	X335	181½-185½	.04	.34		4		
	X336	185½-193	.16	.23		7½		
	X337	193-201½	.69	1.03		8½		
	X338	201½-206½	.75	3.95		5		
	X339	206½-209½	.15	.42		3		Cased to 209½
	X340	209½-214	.04	.29		4½		
	X341	214-219	.14	2.06		5		
5/21	X360	219-224	.09	2.40		5		
	X361	224-227½	.05	.71		3½		
	X362	227½-234	.07	1.35		6½		
	X363	234-240½	.10	1.14		6½		
	X364	240½-247	.03	1.00		6½		

Hole No. 5-32

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 7

DIAMOND DRILLING RECORD

By

Date

Hole No. S-32 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/21	X365	247-252	.05	.57		5	Sec Oxs	
	X366	252-257½	.03	1.08		5½	"	
	X367	257½-262½	.04	.79		5	"	
	X368	262½-267½	.07	.83		5	-	
	X369	267½-272½	.06	.45		5	"	
	X370	272½-280	.19	1.52		7½	"	
	X371	280-284	.32	1.46		4	"	
	X372	284-287	.12	.54		3	"	
	X373	287-291	.07	.23		4	"	
	X374	291-295	.04	.23		4	-	
	X375	295-299	.02	.12		4	-	
5/24	X376	299-302	.02	.08		3	"	
	X377	302-305½	.04	.10		3½	"	
	X378	305½-309	.01	.06		3½	"	
	X379	309-312½	.01	.02		3½	"	
	X380	312½-316	.01	.06		3½	"	
	X381	316-320	.02	.04		4	-	
	X382	320-322½	.04	.17		2½	"	

Hole No. S-32

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1

DIAMOND DRILLING RECORD

By R. E. CRIBBS

Date JUNE, 1954

Hole No. 5-33 Mine Level SURFACE

Location 785 TRENCH

Bearing N89W Dip -45° Length 330

Latitude of Collar 17,865 N ~~17,848 N~~ Departure of Collar 2,892 E ~~2,850 E~~ Elevation 7766½

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
6/8/54		0-5				5	2	NX QUARTZOSE SCHIST
		5-8				3	3	QUARTZITE
		8-28						SCHISTOSE QUARTZITE WITH SCHIST ZONES
		8-10½				2½	20	UP TO AN INCH WIDE AND ABOUT 60°
		10½-13				2½	68	TO THE CORE. MINOR LIMONITE STAINS ALONG
		13-14½				1½	47	FRACTURES. A ¼" QUARTZ VEIN WITH MINOR LIMONITE
		14½-18				3½	94	40° TO CORE AND HIGH ANGLE TO STRUCTURE
		18-23				5	78	AT 17½'. RATHER FINE GRAINED SCHISTOSE
		23-28				5	56	QUARTZITE 22-25'. SMALL FAULT AT 25'.
6/13		28-33½				5½	85	BX SCHISTOSE QUARTZITE WITH NARROW
								SCHIST ZONES ABOUT 70° TO CORE. MUCH OF
								CORE MODERATELY BRECCIATED AND HEALED
								WITH LIMONITE. FAULTED 30½-32½.
		33½-48½						HIGHLY SHEARED SOFT SCHIST
		33½-38½				5	44	ALTERNATING WITH FRACTURED SCHISTOSE QUARTZITE
		38½-43½				5	24	MINOR QUARTZ-BIOTITE STRINGERS AND MINOR
		43½-48½				5	30	LIMONITE HEALING OLD FRACTURES.
		48½-54				5½	20	SCHISTOSE QUARTZITE 80° TO CORE. FIRST
								2" OF CORE IS BRECCIA HEALED WITH LIMONITE,
								LAST 2" IS FAULT.
		54-58				4	60	FRACTURED FINE GRAINED INTERCALATED
								SCHIST AND QUARTZITE. LAST HALF OF
								CORE IS HIGHLY FRACTURED AND SHEARED.
		58-63				5	80	FRACTURED SCHISTOSE QUARTZITE WITH
								SOME NARROW SCHIST ZONES AT HIGH
								ANGLE TO CORE. QUARTZ-LIMONITE MINERALIZATION
								60-60½' AND MINOR LIMONITE THROUGHOUT CORE
		63-65½				2½	40	HIGHLY FRACTURED AND SHEARED SCHIST.
		65½-68				2½	72	HIGHLY FRACTURED AND SHEARED SCHIST
								WITH SOME QUARTZ-CARBONATE MINERALIZATION
								LAST ½ CORE IS SCHISTOSE QUARTZITE WITH SEVERAL
								QUARTZ STRINGERS.
		68-73½				5½	91	HIGHLY SHEARED SOFT QUARTZOSE SCHIST.
								SCHISTOSE QUARTZITE 68-68½ AND 73-73½'.
		73½-89½						SCHISTOSE QUARTZITE 45-60° TO CORE.
		73½-77½				4	100	SCHIST 77-79½, 82½-83, AND 84½-85½. SCHIST
		77½-81½				4	"	IS NEARLY PARALLEL WITH CORE 77-79½' AND
	X-557	81½-85½	TR	.02		4	85	IS SHEARED AT 79' AND 85-85½'. MINOR
		85½-89½				4	33	QUARTZ STRINGERS.
		89½-93				3½	0	NO CORE

Hole No. 5-33

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 2

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-33 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C.R.	Geology and Remarks
6/13/54		93-95				2	45	MODERATELY FRACTURED SCHISTOSE QUARTZITE
		95-99				4	63	QUARTZOSE SCHIST. LAST FOOT OF CORE IS FRACTURED AND MODERATELY SHEARED.
		99-100				1	30	FRAGMENTS OF SCHIST AND QUARTZITE WITH A SMALL QUARTZ STRINGER.
		100-108				8	0	NO CORE
		108-116						AX FRACTURED SCHIST AND SCHISTOSE QUARTZITE: SCHIST IS SHEARED AT LOW ANGLE TO CORE 108-114'. POSSIBLE DIKE OR SCHIST 114½-115½. A 1" QUARTZ-BIOTITE VEIN AT 108½, AND MINOR QUARTZ STRINGERS IN CORE.
		108-114				6	43	
		114-116				2	70	
		116-122				6	27	FRACTURED SCHISTOSE QUARTZITE AND SCHIST. FIRST PART OF CORE HIGHLY SILICIFIED, AND LAST PART MODERATELY SHEARED.
		122-126½				4½	29	FRACTURED SCHISTOSE QUARTZITE AND SCHIST WITH MINOR QUARTZ STRINGERS. LAST 3" OF CORE IS LIMONITE-QUARTZ GOSSAN.
		126½-133½						FRACTURED AND MODERATELY SHEARED QUARTZOSE SCHIST. MINOR LIMONITE MINERALIZATION
		126½-130½				4	13	
		130½-133½				3	47	SCHISTOSE QUARTZITE AT HIGH ANGLE TO CORE AFTER 132½.
		133½-136½				3	53	SCHISTOSE QUARTZITE ABOUT 80° TO CORE ALTERNATING WITH SOME SHEARED SCHIST. ONE INCH OF DIKE AT END OF RUN.
		136½-138½				2	20	HIGHLY SHEARED ROCK WITH SOME FRAGMENTS OF BROWN SCHISTOSE DIKE. DIKE HAS LARGE PROPORTION OF SMALL CARBONATE XLS.
6/14/54	X568	138½-143	.06	.83		4½	9	DIKE SIMILAR TO ABOVE.
	X569	143-145	.12	.63		2	70	SAME AS ABOVE
	X570	145-146½	.11	.32		1½	80	HIGHLY SILICIFIED QUARTZOSE SCHIST
	X571	146½-148½	1.45	.45		2	70	A 1" BROWN DIKE AT 146½. 146½-147 IS QUARTZ-COBALTITE-PYRITE-CHALCOPYRITE VEIN. LAST PART OF CORE IS SCHIST WITH SMALL QUARTZ-CHALCOPYRITE STRINGERS 80° TO CORE. SHEARED AND FRACTURED 148-148½.
		148½-152½						HIGHLY FRACTURED QUARTZOSE SCHIST, ALTERNATING WITH SOME SCHISTOSE QUARTZITE
	X572	148½-150½	.14	.83		2	55	
	X573	150½-152½	.05	.13		2	35	150½-152½.
	X574	152½-157½	.02	.42		5	78	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE WITH SOME SMALL IRREGULAR QUARTZ-BIOTITE-CHALCOPYRITE STRINGERS. HIGHLY FRACTURED FROM 155-157½.

Hole No. 5-33

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 3

DIAMOND DRILLING RECORD

By

Date

Hole No. S-33 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	%	% C. R.	Geology and Remarks
[illegible]	X 792	159½-161½	.01	.23		4	90	Fractured quartzite. Fine [illegible] [illegible] breccia quartzite 159½-161½. Limonite [illegible] 159½ and 161½, and chalcopyrite 161-161½.
		161½-167						Fractured schistose quartzite with a few narrow schist zones dip at 60° to core. Very minor quartz stringers. Some minor copper and chalcopyrite in fractures 161½-167.
	X 793	161½-163½	.04	1.24		4	53	
	X 794	163½-167	.02	.68		1½	60	
	X 795	167-169½	.10	.34		2½	56	Schistose quartzite with quartz-biotite mineralization and minor chalcopyrite. Fractures schist 70° to core to 167½. Most of zone is [illegible].
	X 796	169½-172	.02	.05		3½	63	Fractured schistose quartzite dip 60° to core. Some [illegible] zone. Minor schist and quartzite. Continuous stringers chalcopyrite. Spots limonite. Quartz mineralization. Stringers [illegible].
		172-182						Moderately fractured schistose quartzite 50-90° to core. Minor quartz chalcopyrite mineralization. [illegible] and quartz-biotite mineralization for 182'.
	X 797	172-174	.04	.42		1	50	
	X 798	174-182	.01	.09		8	34	
	X 799	182-185	.14	.16		3	23	Fractured quartz-biotite mineralization. Minor sulfides.
[illegible]	X 800	185-189	.02	.08		4	85	Narrow bands of schist ½ to ½" wide in slightly brecciated schistose quartzite. Dip 50° to core. Minor quartz biotite-chalcopyrite stringers.
	X 801	189-195	.03	.11		6	72	Moderately fractured. Alternating bands of contorted schist and slightly brecciated schistose quartzite, 30-60° to core. Minor quartz biotite stringers.
	X 802	195-200½	.04	.59		5½	15	Fractured schist and slightly sheared with quartz chalcopyrite mineralization.
	—	200½-204½				4		Fragments of quartzite with minor quartz chalcopyrite mineralization. No core.
		204½-206½				2	0	
	X 803	206½-208½	.03	.17		3	60	Fractured schistose quartzite. Dip 5° of core to minor chalcopyrite min.

Hole No. S-33

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 4

DIAMOND DRILLING RECORD

By

Date

Hole No. S-33 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From – To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C. R.	Geology and Remarks
8/18/64		209½-219½						Moderately fractured, highly brecciated schistose quartzite with minor carbonate. Some bands 30-60° to core. Minor quartz veins, chlorite, magnetite and pyrite. 209½-211½ Many inclusions of the quartzite. Rocks into minor amount dark 218½-219½ with 50% sericitized schist. Core 4" or more is mainly schistose.
	X 804	209½-211½	.06	.13		2½	.65	
	X 805	211½-215	.04	.52		3½	.00	
	X 806	215-219½	.04	.01		4½	.100	
	X 802	219½-224	.10	.22		4½	.40	Most rock of core is schistose, some dark with carbonate schist. Lots of quartz. Schistose quartzite.
	X 808	224-226	.04	.11		2	.35	Moderately fractured schistose quartzite. 1½" is coarse carbonate. Ucm.
		226-229				3		Nearly unfractured schist, moderately dark quartz.
	X 810	229-233	.02	.19		4	.60	Fractured schistose quartzite. Some quartz and carbonate veins. Mineralization 1½-3%.
	X 812	233-235	.06	.12		2	.40	Core is broken schist core 1½-2½". Fractured schistose quartzite 234-235'. Most only fractured schistose quartzite with some quartz veins. Some dark schist. Broken core.
		235-237						
	X 814	237-239	.06	.05		2½	.50	Fractured schistose quartzite. Rock 237 quartz carbonate. Mineralization 1½, and minor quartz veins. Schistose brecciated schistose quartzite.
	X 815	239-241	.03	.05		2½	.50	
	X 816	241-243	.01	.02		3	.30	
		243½-246½						
	X 817	246½-250½	.03	.13		4	.68	Quartzite mostly 70-90° to core. Fairly fractured quartz chlorite minerals. Terminated 246½-266½.
	X 818	250½-255½	.03	.15		5	.30	
		255½-260½	.14	.11		5	.56	
	X 818	260½-266½	.21	.10		6	.13	
	X 819	266½-271½	.10	.29		5	.54	Slightly brecciated schistose quartzite mostly at 45° angle to core. Some fractures quartz-carbonate mineralization. Minor amount 266½-268½.
		271½-275				3½	.93	Brecciated and highly fractured schistose quartzite. Minor quartz-chalcopyrite mineralization. Band schist 271½-272½ and 274½-275 [illegible]

Hole No. S-33

DIAMOND DRILLING RECORD

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. [illegible]
By
Date
Level

Hole No. [illegible] Mine
Location
Bearing Dip
Latitude of Collar Departure of Collar
Length
Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.		% C. R.	Geology and Remarks
[illegible]		[illegible]				[illegible]	46	[illegible]
		[illegible]						[illegible]
		[illegible]				3	40	[illegible]
		[illegible]				3	60	[illegible]
		[illegible]						[illegible]
		[illegible]					76	[illegible]
		[illegible]				3	80	[illegible]
		[illegible]						[illegible]
		[illegible]				[illegible]	43	[illegible]
		[illegible]				5	34	[illegible]
		[illegible]				[illegible]	76	[illegible]
		[illegible]				[illegible]	43	[illegible]
		[illegible]						[illegible]
		[illegible]					47	[illegible]
		[illegible]				[illegible]	56	[illegible]
		[illegible]				5	92	[illegible]
		[illegible]				[illegible]	39	[illegible]
		[illegible]						[illegible]
		[illegible]				6	73	[illegible]

Hole No. 533

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 6
By
Date
Level
Length
Elevation

Hole No. 5-33 Mine
Location
Bearing ~~N89W~~ Dip ~~-45~~
Latitude of Collar: Departure of Collar:

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/25/54	X397	14-23	.01	.02		8	Sa-0.6	
	X398	23-28	Tr	.02		5	"	CSG TO 30'
5/26	X407	28-33½	.01	Tr		5½	"	
	X408	33½-38½	.01	.04		5	"	
	X409	38½-43½	Tr	.02		5	"	
	X410	43½-48½	Tr	.04		5	"	
	X411	48½-54	Tr	.04		5½	"	
	X412	54-58	Tr	.05		4	"	
	X413	58-63	Tr	.04		5	"	
	X414	63-68	Tr	.04		5	"	
	X415	68-73½	.02	.08		5½	"	
	X416	73½-77½	.02	.05		4	"	
	X417	77½-81½	.02	.07		4	"	
	—	81½-85½	—	—		4	"	
	X418	85½-93	Tr	.07		7½	"	
	X419	93-99	.01	.05		6	"	
	X420	99-103	Tr	.07		4	"	
	X421	103-108	.01	.15		5	"	CASED TO 108'
5/27	X422	108-114	.01	.16		6	"	
	X423	114-122	.02	.06		8	"	
	X424	122-126½	.01	.08		4½	"	
	X425	126½-133½	Tr	.05		7	"	
	X426	133½-138½	.01	.11		5	"	
	X427	138½-143	.08	.88		4½	"	
	X428	143-148½	.26	1.22		5½	"	
	X429	148½-152½	.32	1.67		4	"	CASED TO 150'
5/28	X470	152½-157½	.05	.28		5	"	
	X471	157½-161½	.06	8.20		4	"	HIGH SAMPLE SAMPLES
	X472	161½-165½	.06	1.23		4	"	
	X473	165½-169½	.08	1.42		4	"	
	X474	169½-174	.04	.44		4½	"	
	X475	174-182	.06	1.06		8	"	
	X476	182-185	.13	1.11		3	"	
	X477	185-189	.08	1.17		4	"	
	X478	189-195	.07	.63		6	"	
	X479	195-200½	.12	6.59		5½	"	
	X480	200½-206	.11	5.36		5½	"	~~CASED TO 201~~
	X481	206-211½	.08	2.79		5½	"	
	X482	211½-215	.12	2.35		3½	"	
	X483	215-219½	.08	1.64		4½	"	
	X484	219½-224	.06	.42		4½	"	

Hole No. 5-33

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 7

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-33 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/29/54	X485	224-229	.16	1.00		5	Sludge	
	X486	229-233	.08	.26		4	"	
	X487	233-237	.08	.08		4	"	Water Cave Material
5/31/54	X488	237-241	.10	.42		4	"	Casing 238
	X489	241-246½	.03	.05		5½	"	
	X490	246½-250½	.09	.19		4	"	
	X491	250½-255½	.05	.13		5	"	
	X492	255½-260½	.09	.09		5	"	
	X493	260½-266½	.20	.10		6	"	
	X494	266½-271½	.08	.13		5	"	
	X495	271½-279	.06	.14		7½	"	
	X496	279-285	.02	.05		6	"	
	X497	285-290	.05	.09		5	"	
	X498	290-296½	.02	.01		6½	"	
	X499	296½-301½	.02	.02		4	"	
	X500	301½-308½	.07	.25		7	"	
	X450	308½-311	.05	.12		2½	"	
6/1	X501	311-318½	.03	.08		7½	"	
	X502	318½-324	.04	.07		5½	"	
	X503	324-330	.05	.10		6	"	

Hole No. 5-33

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 1
By R. E. CRIBBS
Date JUNE, 1954
Level SURFACE

Hole No S-35 Mine
Location 763 TRENCH
Bearing S 87½° W Dip -58½° Length 440
Latitude of Collar 17,625½ N Departure of Collar 3,165½ E Elevation 7,682½

Date	Sample No.	Depth From -- To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
6/22/57		0-21						NX SCHISTOSE QUARTZITE 60-80° TO
		0-11				11	2	CORE. LAST 2" OF CORE COLORED BROWN BY
		11-16				5	10	LIMONITE.
		16-21				5	20	
		21-26				5	0	No CORE
		26-41						QUARTZITE WITH NARROW BANDS OF
		26-31				5	24	SCHIST UP TO 1" WIDE AND ABOUT 70° TO CORE.
		31-36				5	38	
		36-41				5	30	
		41-45				4	60	ALTERNATING BANDS OF SCHIST AND
		45-50				5	48	QUARTZITE ABOUT 60° TO CORE.
		50-63½						SLIGHTLY CONTORTED SCHISTOSE QUARTZITE.
		50-54				4	45	BX ALTERNATING BANDS UP TO SEVERAL
		54-56				2	100	INCHES WIDE OF SCHISTOSE QUARTZITE
		56-58				2	75	AND SCHIST. ABOUT HALF OF CORE IS
		58-63½				5½	44	HIGHLY FRACTURED.
		63½-67½				4	83	FRACTURED ALTERNATING BANDS OF SCHIST
		67½-71½				4	55	AND SCHISTOSE QUARTZITE. ABOUT 50° TO CORE.
								QUARTZITE WITH NARROW CONTORTED
								BANDS OF SCHIST 50° TO CORE. VERY MINOR
								LIMONITE IN FRACTURES. HIGHLY FRACTURED 69½-71½.
		71½-76½				5	68	FRACTURED QUARTZOSE SCHIST 50° TO CORE.
		76½-82				5½	42	FRACTURED NARROW AND CONTORTED ALTERNATING
								BANDS OF SCHISTOSE QUARTZITE AND SCHIST.
								MINOR QUARTZ STRINGERS.
		82-85½				3½	80	FIRST HALF OF CORE IS CONTORTED
								SCHISTOSE QUARTZITE WITH MINOR LIMONITE IN
								FRACTURES AND QUARTZ STRINGERS. LAST HALF
								IS VERY SOFT SHEARED BLACK SCHIST.
		85½-89				3½	100	HIGHLY CONTORTED SCHISTOSE QUARTZITE AND
								NARROW SCHIST BANDS. QUARTZOSE SCHIST
								86-87½. FRACTURED 85-88½.
	X659	89-94½	.02	.06		5½	40	MODERATELY FRACTURED ALTERNATING BANDS
								OF SCHIST AND QUARTZITE ABOUT 60° TO CORE.
								SHEARED SCHIST AND POSSIBLE FAULT 90-92'. VERY
	X660	94½-99	.01	.02		4½	78	MINOR LIMONITE IN FRACTURES.
								MODERATELY FRACTURED SCHISTOSE QUARTZITE
								WITH A FEW NARROW SCHIST ZONES ABOUT 55° TO
								CORE. MINOR SHEARING AT 95½ AND HIGHLY
								FRACTURED 98-99'.

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 2

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-35 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
6/22/54	X661	99-102½	.01	Tr		3½	83	MODERATELY FRACTURED ALTERNATING BANDS UP TO SEVERAL INCHES WIDE OF QUARTZITE AND SCHIST. ABOUT 60° TO CORE
	X662	102½-104	Tr	.02		1½	100	MODERATELY FRACTURED QUARTZITE WITH A FEW NARROW CONTORTED BANDS OF SCHIST. MINOR NARROW QUARTZ STRINGERS.
	X663	104-109	.01	.02		5	50	FIRST HALF OF CORE IS SCHISTOSE QUARTZITE. LAST HALF IS FINELY LAMINATED QUARTZOSE SCHIST ABOUT 75° TO CORE. MINOR QUARTZ STRINGERS. CORE IS PRETTY FRACTURED.
		109-120						SCHISTOSE QUARTZITE WITH NARROW SCHIST
	X664	109-114	Tr	.04		5	90	BANDS UP TO 1" WIDE AND 45-60° TO CORE
	X665	114-120	.02	.06		6	75	FROM 112-113 QUARTZITE IS BRECCIATED AND NEARLY PARALLEL WITH CORE. HIGHLY FRACTURED 112½-113, 118½-119. MINOR QUARTZ STRINGERS 118-119.
	X666	120-121	.08	.32		1	80	BRECCIATED SCHISTOSE QUARTZITE HEALED WITH LIMONITE.
	X667	121-126	Tr	Tr		5	72	ALTERNATING BANDS OF SCHISTOSE QUARTZITE AND SCHIST UP TO SEVERAL INCHES WIDE. ~~[illegible]~~
	X668	126-128	Tr	.03		2	100	QUARTZOSE SCHIST 50-60° TO CORE. VERY MINOR QUARTZ-LIMONITE STRINGERS.
		128-135½						SOMEWHAT BRECCIATED SCHISTOSE
	X669	128-132½	Tr	.02		4½	100	QUARTZITE WITH SOME NARROW SCHIST ZONES
	X670	132½-135½	Tr	.06		3	57	NEARLY PARALLEL WITH CORE. MINOR SHEARING PARALLEL WITH CORE. MINOR IRREGULAR QUARTZ-LIMONITE STRINGERS. FRACTURED 135-135½.
		135½-143						SCHISTOSE QUARTZITE WITH NARROW SCHIST
	X671	135½-138	Tr	.03		2½	68	BANDS UP TO 1" WIDE AND ABOUT 70° TO CORE.
		138-143				5	66	MINOR QUARTZ STRINGERS AND VERY MINOR LIMONITE IN FRACTURES.
		143-153						ALTERNATING BANDS OF QUARTZOSE SCHIST
		143-148				5	58	AND SCHISTOSE QUARTZITE UP TO SEVERAL
		148-153				5	60	INCHES WIDE AND VARYING FROM 70° TO CORE AT 143' TO 50° AT 153'.
		153-156½				3½	80	FRACTURED SCHISTOSE QUARTZITE WITH NARROW SCHIST BANDS ABOUT 80° TO CORE. MINOR LIMONITE IN FRACTURES AND VERY MINOR QUARTZ STRINGERS.

Hole No. 5-35

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 3

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-35 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
6/22/54		156½-177						HIGHLY FRACTURED QUARTZITE AND SCHIST.
		156½-164				7½	15	MINOR LIMONITE. STRUCTURE 70° TO CORE
		164-168				4	43	AT 172½'.
		168-172				4	13	
		172-174				2	30	
		174-177				3	23	
		177-180				3	53	HIGHLY FRACTURED SCHIST AND
								QUARTZITE.
		180-183				3	50	HIGHLY FRACTURED AND SHEARED
								SCHIST-QUARTZITE BRECCIA. PROBABLE FAULT.
	X 672	183-188	Tr	.01		5	72	FRACTURED QUARTZOSE SCHIST AND SCHISTOSE
								QUARTZITE ABOUT 80° TO CORE.
		188-195						FRACTURED QUARTZITE AND SCHIST, PART
	X 673	188-191	Tr	.01		3	23	OF SCHIST IS SHEARED 188-191. VERY
	X 674	191-195	.01	.01		4	25	MINOR LIMONITE.
		195-205						FRACTURED SCHISTOSE QUARTZITE AND SCHIST
	X 675	195-200	Tr	Tr		5	60	WITH MINOR LIMONITE IN FRACTURES. A FEW
	X 676	200-205	.08	.07		5	58	SMALL QUARTZ STRINGERS AFTER 198'.
								QUARTZ-CHALCOPYRITE-COBALTITE? STRINGERS
								202-205. MINOR SHEARING AT 204'.
		205-211						FRACTURED AND FAULTED QUARTZOSE
	X 677	205-209	.05	.15		4	55	SCHIST AND QUARTZITE. SOME LIMONITE
	X 678	209-211	.01	.03		2	75	MINERALIZATION 207-211.
		211-224½						ALTERNATING BANDS OF QUARTZOSE SCHIST
		~~[illegible]~~						AND SCHISTOSE QUARTZITE UP TO SEVERAL
	X 679	211-215	.02	.01		4	98	INCHES WIDE BAR ABOUT 80° TO CORE. VERY
		215-219				4	83	MINOR LIMONITE IN FRACTURES. MODERATELY
		219-222				3	100	FRACTURED 221-224½.
		222-224½				2½	68	
		224½-230				5½	85	ALTERNATING BANDS OF SOMEWHAT
								BRECCIATED SCHISTOSE QUARTZITE AND SCHIST 60-80° TO CORE. CORE FRACTURED 228-230.
								LIMONITE IN FRACTURES 228-230.
		230-243						ALTERNATING ~~ZONES~~ BANDS UP TO SEVERAL INCHES
		230-232				2	100	WIDE OF SLIGHTLY CONTORTED SCHIST AND
		232-235				3	97	SCHISTOSE QUARTZITE 50-80° TO CORE. STRUCTURE
	X 688	235-240	Tr	Tr		5	90	PARALLEL TO CORE AT 234½'. MINOR VERY NARROW
	X 689	240-243	.06	.70		3	97	QUARTZ STRINGERS. QUARTZ-CHALCOCITE?-PYRITE
								COBALTITE?-CHALCOPYRITE STRINGERS 240-242.
								SLIGHTLY SHEARED AT HIGH ANGLE TO CORE
								242-243'.

Hole No. 5-35

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 4

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-35 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C.R.	Geology and Remarks
6/22/54	X690	243-246	.06	.50		3	33	SHEARED QUARTZOSE SCHIST WITH MINOR QUARTZ-SULFIDE MINERALIZATION.
	X691	246-249	.21	1.79		3	33	HIGHLY FRACTURED SCHIST AND SCHISTOSE QUARTZITE. ONE INCH OF LIMONITE-PYRITE CHALCOCITE MINERALIZATION AT 249'.
	X692	249-250	.54	2.01		1	100	QUARTZ-COBALTITE-CHALCOCITE VEIN
	X693	250-253	Tr	.03		3	73	FRACTURED, MODERATELY BRECCIATED SCHISTOSE QUARTZITE WITH MINOR LIMONITE IN FRACTURES.
	X694	253-257½	.01	.02		4½	58	MODERATELY FRACTURED CONTORTED NARROW BANDS OF SCHIST IN SCHISTOSE QUARTZITE ABOUT 40° TO CORE. SHEARING PARALLEL WITH BANDS.
	X695	257½-259½	.01	.03		2	55	FRACTURED AND CONTORTED SCHISTOSE QUARTZITE AT LOW ANGLE TO CORE. SOME SMALL QUARTZ-SULFIDE STRINGERS.
	X696	259½-263	.07	.20		3½	74	QUARTZOSE SCHIST AND SLIGHTLY BRECCIATED SCHISTOSE QUARTZITE SHEARED AT LOW ANGLE TO CORE. SOME QUARTZ-PYRITE-CHALCOPYRITE MINERALIZATION.
	X697	263-265½	Tr	Tr		2½	92	FROM 263-264 QUARTZOSE SCHIST AT LOW ANGLE TO CORE. FROM 264-265½ SCHISTOSE QUARTZITE ABOUT 40° TO CORE. FRACTURED AFTER 264½.
	X698	265½-272	Tr	Tr		6½	89	ALTERNATING CONTORTED BANDS UP TO SEVERAL INCHES WIDE OF SCHISTOSE QUARTZITE AND SCHIST 40-70° TO CORE. MINOR SHEARING PARALLEL WITH CORE 265½-266. MODERATELY FRACTURED 267½-268.
		272-284						
	X699	272-275½	Tr	Tr		3½	89	DX. SCHISTOSE QUARTZITE WITH NARROW CONTORTED SCHIST BANDS UP TO SEVERAL INCHES WIDE AND MOSTLY ABOUT 70° TO CORE. MODERATELY FRACTURED 274½-275½ AND 281-282.
	X700	275½-281½	Tr	Tr		6	83	
	X701	281½-284	Tr	Tr		2½	48	
		284-292						
	X702	284-286½	.01	.04		2½	28	FRACTURED SCHISTOSE QUARTZITE AND SCHIST. MINOR LIMONITE IN FRACTURES 286-288'.
	X703	286½-292	.01	.14		5½	18	

Hole No. 5-35

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 5
By
Date
Level

Hole No. 5-35 Mine
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C.R.	Geology and Remarks
6/23/54		292-315½						ALTERNATING [illegible]
		292-297				5	46	INCHES WIDE OF [illegible]
		297-301½				4½	64	SCHIST AND SCHISTOSE [illegible]
		301½-307½				6	27	MOSTLY ABOUT 80° TO CORE [illegible]
		307½-312				4½	38	295-297, 305-307½, 311-313½
		312-313½				1½	87	
		313½-315½				2	75	
		315½-324						FRACTURED SCHISTOSE [illegible]
		315½-320½				5	14	
	X704	320½-324	.02	.02		3½	23	
	X705	324-329	.01	.02		5	34	FRACTURED SCHISTOSE [illegible]
								MINOR QUARTZ STRINGERS [illegible]
								GRAINS IN SCHIST.
	X706	329-334	.07	.02		5	32	FRACTURED SCHISTOSE [illegible]
								AND WITH FINE CARBONATE [illegible]
	X707	334-338	.12	.04		4	15	FRAGMENTS OF SCHISTOSE [illegible]
								SOME QUARTZ-CHALCOPYRITE [illegible]
								MINERALIZATION VUGGY AND [illegible]
								AT 336'.
	X708	338-340	.39	Tr		2	20	SCHISTOSE QUARTZITE [illegible]
								VUGGY QUARTZ MINERALIZATION [illegible]
		340-343				3	0	NO CORE.
	X709	343-349	.27	.23		6	37	HIGHLY FRACTURED SCHISTOSE [illegible]
								WITH SOME QUARTZ-SULFIDE [illegible]
	X710	349-353	.09	.07		4	10	FRACTURED SCHISTOSE [illegible]
	X711	353-355	.18	.79		2	65	FRACTURED SCHISTOSE QUARTZITE [illegible]
								IRREGULAR QUARTZ-PYRITE-CHALCO[illegible]
		355-369						MODERATELY CONTORTED [illegible]
	X725	355-359	.17	.11		4	90	IN SCHISTOSE QUARTZITE MOSTLY [illegible]
	X726	359-364	.03	Tr		5	34	TO CORE. PARALLEL TO CORE AT [illegible]
	X727	364-369	.07	.04		5	40	NARROW QUARTZ-BIOTITE STRINGERS [illegible]
								CARBONATE-CHALCOPYRITE MINERALIZATION [illegible]
								SHEARING AT 364' AND HIGHLY FRACTURED [illegible]
		369-376½						SCHIST AND SCHISTOSE QUARTZITE [illegible]
	X728	369-373	.66	1.53		4	80	REPLACED BY QUARTZ-CHALCOPYRITE [illegible]
	X729	373-376½	.05	1.10		3½	100	BIOTITE-PYRITE MINERALIZATION AND [illegible]
								IN THE SCHIST. BROWN SCHISTOSE [illegible]
								372-373½ HAS CARBONATE STREAKS [illegible]
								PARTLY REPLACED BY QUARTZ-CHALCO[illegible]
								MINERALIZATION.

Hole No. [illegible]

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 6

DIAMOND DRILLING RECORD

By

Date

Hole No. S-35 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au	Ft	% C.R.	Geology and Remarks
6/6/54		326½-381						SCHISTOSE QUARTZITE WITH NARROW CONTORTED SCHIST BAND. ABOUT 70° TO CORE. ABOUT 20% QUARTZ-PYRITE-CHALCOPYRITE MINERALIZATION. VERY HIGHLY FRACTURED 326½-372
	X732	381-386	.03	.07		5	92	MODERATELY BRECCIATED SCHISTOSE QUARTZITE WITH NARROW CONTORTED SCHIST BANDS 30-80° TO CORE. IRREGULAR QUARTZ-PYRITE-COBALTITE-CHALCOPYRITE MINERALIZATION MOSTLY 381-382. NARROW CARBONATE STRINGERS 60° TO CORE.
	X733	386-398	Tr	.02		12	13	HIGHLY FRACTURED SCHISTOSE QUARTZITE AND SCHIST. SEAMS 396-397. STRUCTURE AT HIGH ANGLE TO CORE 397-398.
	X734	398-403	.06	.05		5	42	MODERATELY FRACTURED BROWN SCHISTOSE DIKE WITH SOME SMALL CARBONATE XLS. SCHISTOSE QUARTZITE 401½-403 AND ALSO IN DIKE.
	X735	403-405	Tr	Tr		2	80	FROM 403-404 SCHISTOSE QUARTZITE. FROM 404-405 QUARTZOSE SCHIST. STRUCTURE ABOUT 80° TO CORE. MINOR QUARTZ STRINGERS
		405-409				4	5	FRAGMENTS OF SCHISTOSE QUARTZITE.
	X736	409-416	Tr	Tr		7	13	SCHISTOSE QUARTZITE AND SCHIST MOSTLY AT HIGH ANGLE TO CORE.
		416-420				4	0	NO CORE
	X737	420-426	.05	.21		6	27	BROWN SCHISTOSE DIKE. SMALL CAVITIES MAY HAVE BEEN CARBONATE XLS. FIRST HALF OF CORE IS VERY HIGHLY FRACTURED AND CONTAINS MINOR QUARTZITE.
	X738	426-428½	.05	.14		2½	76	SCHISTOSE QUARTZITE WITH VERY MINOR NARROW QUARTZ-BIOTITE-CHALCOPYRITE STRINGERS.
		428½-440						VERY HIGHLY FRACTURED SCHISTOSE QUARTZITE. MINOR QUARTZ-CHALCOPYRITE MINERALIZATION 428½-433.
	X739	428½-433	.02	.12		4½	16	
	X740	433-440	.09	.24		7	19	

Hole No. S-35

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 7

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-35 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C. R.	Geology and Remarks
6/13/64	—	0-50	—	—		50	Sludge	Drilled 0-50'
	X 623	50-55	Tr	Tr		5		
	X 624	55-58	.01	Tr		3		
	X 625	58-63½	Tr	Tr		5½		
	X 626	63½-67½	Tr	Tr		4		
	X 627	67½-71½	.01	Tr		4		
	X 628	71½-76½	.01	.02		5		
	X 629	76½-82	Tr	Tr		5½		
	X 630	82-89	.05	.10		7		
	X 631	89-94½	.07	.07		5½		
	X 632	94½-102½	.12	.10		8		
	X 633	102½-109	.05	.08		6½		
	X 634	109-115	.11	.14		6		
	X 635	115-121	.06	.13		6		
	X 636	121-126	.10	.19		5		
	X 637	126-131	.06	.18		5		
6/14	X 558	131-138	.08	.12		7		
	X 559	138-143	.02	.08		5		
	X 560	143-148	.02	.02		5		
	X 561	148-153	.03	.05		5		
	X 562	153-164	.01	.04		11		
	X 563	164-168	.05	.09		4		
	X 564	168-172	.01	.03		4		
	X 565	172-177	Tr	.02		5		
	X 566	177-183	.01	.04		6		
	X 567	183-188	.01	.04		5		
6/15	X 575	188-195	.08	.22		7		
	X 576	195-200	.02	.02		5		
	X 577	200-205	.15	.24		5		
	X 578	205-209	.13	.17		4		
	X 579	209-215	.04	.08		6		
	X 580	215-219	.04	.08		4		
	X 581	219-223	.04	.10		4		
	X 582	223-230	.03	.05		7		
	X 583	230-236	.02	.13		6		
	X 584	236-243	.05	.37		7		
	X 585	243-249	.08	.35		6		
6/16	X 586	249-253	.24	2.15		4		
	X 587	253-259½	.12	.40		6½		
	X 588	259½-263	.11	.33		3½		
	X 589	263-268½	.07	.17		5½		

Hole No. 5-35

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 8

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-35 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.		% C.R.	Geology and Remarks
6/16/54	X590	268½-275½	.13	.21		7	SAMPLE	GASSED TO 272
	X591	275½-286½	.03	.04		11		
	X592	286½-292	.05	.13		5½		
6/18	X593	292-297	.04	.06		5		
	X594	297-301½	.02	.02		4½		
	X595	301½-307½	.02	.04		6		
	X596	307½-312	.03	.07		4½		
	X597	312-320½	.02	.01		8½		
	X598	320½-324	.03	.05		3½		
	X599	324-329	.40	.21		5		
	X600	329-334	.06	.04		5		
	X638	334-338	.10	.10		4		
	X639	338-343	.10	.07		5		
	X640	343-349	.33	.33		6		
	X641	349-355	.18	.18		6		
	X642	355-359	.18	.14		4		
	X643	359-364	.01	.03		5		
	X644	364-369	.02	.04		5		
	X645	369-373	.45	1.18		4		
	X646	373-378	.13	.38		5		
	X647	378-386	.08	.18		8		
	X648	386-391	.06	.09		5		
	X649	391-396	.07	.12		5		
	X650	396-401	.08	.08		5		
	X651	401-405	.07	.07		4		
	X652	405-411	.07	.04		6		
	X653	411-416	.04	.07		5		
6/22	X654	416-420	.11	.32		4		
	X655	420-426	.10	.26		6		
	X656	426-428½	.09	.30		2½		
	X657	428½-433	.09	.23		4½		
	X658	433-440	.06	.15		7		

MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho
Contract Amount, $407,340.00 Government Participation: 70 % Amount, $285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contractor Short Form ~~Service~~ Spilling		560.00	560.00			
Heavy Timber		199.50	199.50			
Drilling-Core-Stage II		331.46	331.46			
~~Building~~ Trenching	2,672.55	4,246.39	6,918.94	2672.55		
~~Normal~~ Timber		667.10	667.10			
~~Loading~~						
Drifting		3,731.18	3,731.18			
Framing		180.84	180.84			
(2) ~~Independent Contractor~~						
~~Core~~ Drilling Stage I	8,745.24	2,916.24	11,661.48	8745.24		
~~Hoisting~~						
~~Building~~ Stage I	391.25	35.00	426.25	391.25		
~~Independent~~						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis Stage II		141.00	141.00			
Payroll Taxes						
Liability Insurance						
Sampling & Analysis Stage I	687.00	213.00	900.00	687.00		
(8) Contingencies (specify):						
TOTALS	$12,496.04	$13,221.71	$25,717.75	12496.04	13221.71	25717.75

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 7, 1954 Payee Calera Mining Company

Per [signature] Title Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 8747 23

Signature [signature]
(Authorized Certifying Officer)

Date 6/23/54 Vou. No. 1194
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 6/17/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 6/17/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1954 Docket No. DMEA 3143 Contract No. idm-2645

Operator's Name Calera Mining Company Minerals Cobalt & Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.			$ 3,731.18	105	$34.535	6000	$35.535
Crosscutting normal Timbering	Ft.			667.10	95.3	7.00	5000	7.00
Raising heavy timbering	Ft.			199.50	28.5	7.00	750	7.00
Shafts spiling	Ft.			560.00	28.0	20.00	500	20.00
Winzes framing	Sets			180.84	33.0	5.48	1150	5.48
Drifting Stage II	Each			141.00	47	3.00	5900	3.00
Diamond Drilling Core Stage II	Ft.			331.46	98	3.3822	10500	3.3822
Churn								
Auger								
Stripping	Hrs.	2,672.55	225	6,918.94	582½	11.878	864	11.878
Trenching Core Stage I	Ft.	8,745.24	1,256½	11,661.48	1675½	6.960	8700	6.960
Timbering Stage I	Each	687.00	229	900.00	300	3.00	3100	3.00
Roads and Trans.								
Reaming Stage I	Ft.	391.25	156½	426.25	170½	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		$12,496.04		$25,717.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$12,496.04		$25,717.75				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 7, 1954 Operator Calera Mining Company

Per [signature] Title Vice President

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

June 3, 1954

Mr. A. E. Weissenborn
Executive Officer - Region 2
D. M. E. A. Field Team
South 137 Howard Street
Spokane 6, Washington

Re: Docket No. DMEA 3143
Contract No. AEC-E645

Dear Mr. Weissenborn:

We enclose herewith the reports covering the activities of the D.M.E.A. Project No. 3143 for the month of May, 1954.

Trenching was continued with the D-7 bulldozer, for a total of 225 hours of bulldozer operation. New bedrock exposed by this work during the month amounted to 2,500 feet. The average depth of overburden removed amounted to nine feet.

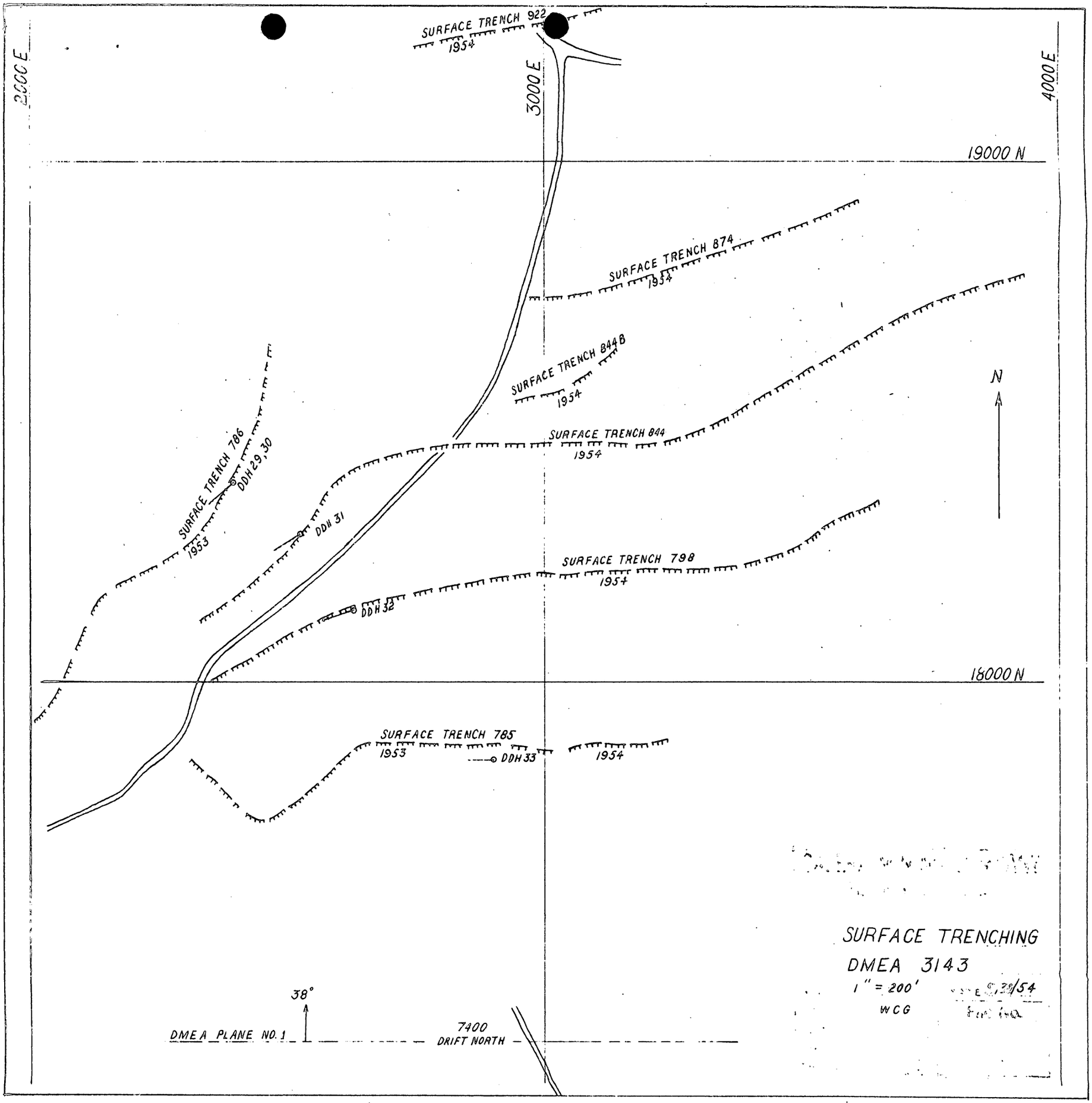
Diamond drilling was continued in the area northeast of the Prom Rim Ore Zone. Ore has been intersected in three of the core holes that were drilled during the month. The mineralized zone is trending approximately N45°W and appears to consist of small ore pods plunging NW. The logs of the core holes 4-30 and 5-31 are included herein.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Vaughan, Manager

EBVmrs
Enclosures


SURFACE TRENCH 922
1954
2000 E
3000 E
4000 E
19000 N
SURFACE TRENCH 874
1954
SURFACE TRENCH 844B
1954
SURFACE TRENCH 844
1954
SURFACE TRENCH 786
DDH 29, 30
1953
DDH 31
SURFACE TRENCH 798
1954
DDH 32
18000 N
SURFACE TRENCH 785
1953
DDH 33
1954
N
SURFACE TRENCHING
DMEA 3143
1" = 200'
WCG
38°
DMEA PLANE NO. 1
7400
DRIFT NORTH

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 1
By R.E. CRIBBS
Date APRIL, 1954

Hole No. 5-30 Mine Level SURFACE
Location 786 TRENCH
Bearing S45½W Dip -60½° Length 362
Latitude of Collar 18,395 N Departure of Collar 2,390 E Elevation 7820½

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C.R.	Geology and Remarks
MAY 3, 1954		0-8½						NX SCHISTOSE QUARTZITE WITH
		0-6				6	10	YELLOW STAINS AND QUARTZ-LIMONITE
		6-8½				2½	16	STRINGERS 60° TO CORE. MINERALIZATION
								IS IRREGULAR AFTER 6'
		8½-12				3½	6	FRAGMENTS OF QUARTZITE, SCHIST, AND GOSSAN
		12-14½				2½	20	QUARTZOSE SCHIST WITH SOME GOSSAN
								AND YELLOW STAINING.
		14½-17				2½	0	NO CORE
		17-26						SCHISTOSE QUARTZITE ABOUT 45° TO
		17-20				3	17	CORE WITH VERY MINOR GOSSAN.
		20-22½				2½	12	
		22½-26				3½	3	
		26-30				4	0	NO CORE.
		30-34½				4½	29	BX SOMEWHAT BRECCIATED QTZT
		34½-38				3½	54	QUARTZITE WITH NARROW SCHIST
								ZONES ABOUT 30° TO CORE. VERY MINOR
								QUARTZ-LIMONITE STRINGERS ALONG STRUCTURE.
		38-44				6	83	QUARTZOSE SCHIST AND SCHISTOSE
								QUARTZITE ABOUT 25° TO CORE. VERY MINOR
								IRREGULAR QUARTZ STRINGERS
		44-52½						ALTERNATE BANDS OF SCHISTOSE
		44-49				5	86	QUARTZITE AND QUARTZOSE SCHIST FROM
		49-52½				3½	34	A FRACTION OF AN INCH TO SEVERAL INCHES
								WIDE AND VARYING FROM 45° TO CORE 44-49
								TO 30° TO CORE 49-52½. FINE GRAINED 46½-47½
		52½-55				2½	60	QUARTZITE WITH SEVERAL NARROW SCHIST
								ZONES ABOUT 30° TO CORE
		55-58½				3½	49	ALTERNATE ZONES OF SCHIST AND
								QUARTZITE ABOUT 30° TO CORE
		58½-62				3½	23	QUARTZITE WITH NARROW SCHIST ZONES
								ABOUT 30° TO CORE. MINOR NARROW
								GOSSAN STRINGERS.
		62-64				2	20	SCHISTOSE QUARTZITE
		64-70				6	0	NO CORE
		70-76						SCHISTOSE QUARTZITE ABOUT 45°
		70-74				4	75	TO CORE.
		74-76				2	10	
		76-85½				9½	0	NO CORE
		85½-91						ALTERNATING ZONES OF SCHIST AND
		85½-86½				1	30	QUARTZITE ABOUT 60° TO CORE.
		86½-91				4½	7	

Hole No. 5-30

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 2
By R. E. CRIBBS
Date
Level

Hole No. 5-30 Mine
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C. R.	Geology and Remarks
5/3/53		91-105						SCHISTOSE QUARTZITE. STRUCTURE 60° TO CORE 100-102, AND 45° TO CORE 102-105'. A ½" QUARTZ VEIN 30° TO CORE AT 103'.
		91-95				4	5%	
		95-100				5	6	
		100-102				2	60	
		102-105				3	43	
		105-108				3	70	ALTERNATING ZONES OF QUARTZITE AND SCHIST 60-70° TO CORE.
		108-110				2	93	SCHISTOSE QUARTZITE ABOUT 70° TO CORE
		110-114						ALTERNATING ZONES OF QUARTZITE AND QUARTZOSE SCHIST. UP TO AN INCH WIDE AND ABOUT 60° TO CORE.
		110-112				2	93	
		112-114				2	100	
		114-117½						SEVERAL NARROW SCHIST ZONES IN QUARTZITE, ABOUT 60° TO CORE. SOME GROUND UP SCHIST AND POSSIBLE FAULT ZONE 116-117½'.
		114-116				2	95	
		116-117½				1½	73	
		117½-127						ALTERNATING NARROW ZONES OF SCHIST AND QUARTZITE ABOUT 40° TO CORE. MINOR LIMONITE + YELLOW STAINS.
		117½-123½				6	5	
		123½-127				3½	14	
5/4/53	X178	127-129	.02	.03		2	80	FRACTURED SCHISTOSE QUARTZITE WITH SOME NARROW SCHIST ZONES 70° TO CORE.
	X179	129-133	.11	.05		4	45	FRACTURED SCHISTOSE QUARTZITE AND SCHIST 60-70° TO CORE. 4" OF GROUND UP SCHIST AT 129'.
		133-141						SCHIST AND SCHISTOSE QUARTZITE VARYING FROM 60° TO CORE 133-137' TO NEARLY PARALLEL TO CORE 137-141'. PART OF CORE HIGHLY FRACTURED.
	X180	133-137	Tr	Tr		4	43	
	X181	137-141	.01	Tr.		4	28	
	X182	141-145	.02	.69		4	53	SCHISTOSE QUARTZITE AND SCHIST ABOUT 45° TO CORE. GROUND UP SOFT SCHIST 141-141½' AND MUCH OF CORE IS HIGHLY FRACTURED. BROWN SCHISTOSE DIKE FROM 143-144' IS SHEARED 45-60° TO CORE.
	X183	145-148	.02	.09		3	47	HIGHLY FRACTURED SCHIST AND QUARTZITE WITH SOME QUARTZ-CHALCOPYRITE STRINGERS
	X184	148-155	.06	.24		7	26	FRACTURED SCHISTOSE QUARTZITE WITH MINOR QUARTZ-CHALCOPYRITE MINERALIZATION. GROUND UP SOFT SCHIST 148-149.
	X185	155-161	.03	.07		6	17	HIGHLY FRACTURED SCHIST AND SCHISTOSE QUARTZITE
		161-165				4	0	NO CORE

Hole No. 5-30

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 3
By
Date

Hole No. 5-30 Mine Level
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft.	% C. R.	Geology and Remarks
5/4/54	X186	165-168	.11	.06		3	47	SCHIST AND SCHISTOSE QUARTZITE ABOUT 60° TO CORE. MOST OF CORE IS HIGHLY FRACTURED.
	X187	168-172½	.07	.12		4½	40	SCHISTOSE QUARTZITE ABOUT 80° TO CORE, CORE HIGHLY FRACTURED 168-170. CARBONATE (?) SPOTS IN SCHIST AT 172'
	X188	172½-175	.08	.31		2½	48	SCHISTOSE QUARTZITE WITH NARROW QUARTZ-SULFIDE STRINGERS ABOUT 60° TO CORE.
5/7/54	X213	175-184	3.92	4.94		9	18	AX SCHISTOSE QUARTZITE REPLACED ALMOST ENTIRELY BY QUARTZ-CHALCOPYRITE-COBALTITE-PYRITE MINERALIZATION.
		184-195						
	X214	184-186	.26	.14		2	40	SCHISTOSE QUARTZITE WITH VERY MINOR QUARTZ-CHALCOPYRITE STRINGERS 45-80° TO CORE.
	X215	186-195	.16	.17		9	9	
	X216	195-196½	.43	.51		1½	60	QUARTZOSE SCHIST ABOUT 70° TO CORE WITH FRAGMENTS OF GOOD QUARTZ-COBALTITE MINERALIZATION.
	X217	196½-199	.06	.05		2½	32	SCHISTOSE QUARTZITE ABOUT 70° TO CORE.
	X218	199-205	4.55	2.30		6	25	SCHISTOSE QUARTZITE WITH FRAGMENTS OF GOOD QUARTZ-COBALTITE-CHALCOPYRITE MINERALIZATION.
	X219	205-208	4.61	1.80		3	27	QUARTZ-COBALTITE MINERALIZATION IN SCHIST.
		208-215						SCHISTOSE QUARTZITE.
	X220	208-213	.45	.10		5	12	
	X221	213-215	.06	.05		2	35	
	X222	215-220	.27	Tr		5	36	SCHISTOSE QUARTZITE VARYING FROM HIGH ANGLE TO CORE AT 215' TO 30° AT 220'.
		220-230						SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE. NARROW SCHIST ZONES 60° TO CORE AFTER 226'.
	X223	220-222	Tr	.03		2	55	
	X224	222-226	.03	.02		4	8	
	X225	226-230	.01	Tr		4	28	
	X226	230-235	.01	.02		5	34	HIGHLY FRACTURED SCHISTOSE QUARTZITE. MINOR GOUGE ALONG MANY OF FRACTURES. PROBABLE FAULT ZONE.
	X227	235-240	.03	.09		5	14	FRAGMENTS OF SCHISTOSE QUARTZITE
	X228	240-243	.02	Tr		3	43	ALTERNATING ZONES UP TO SEVERAL INCHES WIDE OF SCHISTOSE QUARTZITE AND SCHIST ABOUT 60° TO CORE.

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 4

DIAMOND DRILLING RECORD

By

Date

Hole No. S-30 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C. R.	Geology and Remarks
5/9/54	X229	243-247	.07	.02		4	30	SCHISTOSE QUARTZITE WITH A FEW NARROW SCHIST ZONES 60° TO CORE.
	X230	247-251½	.05	.06		4½	20	ALTERNATING ZONES OF SCHIST AND SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE UP TO SEVERAL INCHES WIDE.
	X231	251½-256	.18	.02		4½	22	FRAGMENTS OF SCHIST AND SCHISTOSE QUARTZITE.
		256-272						FRAGMENTS OF HIGHLY FRACTURED
	X232	256-259	.75	.11		3	67	SCHIST AND SCHISTOSE QUARTZITE. MINOR
	X233	259-264	.14	Tr		5	14	GOUGE ALONG SOME FRACTURES.
	X234	264-269	.12	.10		5	14	
	X235	269-272	.02	.19		3	40	
	X451	272-275½	.02	.78		3½	51	FROM 272-273 FINE GRAINED INTERCALATED QUARTZITE AND SCHIST ABOUT 80° TO CORE. SOMEWHAT BLEACHED AND SHEARED. A ¼" QUARTZ-CHALCOPYRITE-SULFIDE VEINLET ABOUT 20° TO CORE. FRAGMENTS OF SCHIST AND QUARTZITE 273-275½.
	452	275½-280½	Tr	Tr		5	18	ALTERNATING ZONES OF SCHIST AND SCHISTOSE QUARTZITE ABOUT 80° TO CORE. MUCH OF CORE HIGHLY FRACTURED.
		280½-287						SCHISTOSE QUARTZITE WITH SOME NARROW
	453	280½-285	.01	.07		4½	36	SCHIST ZONES ABOUT 75° TO CORE. MUCH OF
	454	285-287	Tr	.02		2	90	CORE CONSIDERABLY FRACTURED. GREEN
	455	287-291½	.02	Tr.		4½	60	COPPER MINERAL ALONG FRACTURE AT 283'. ALTERNATING ZONES OF SCHIST AND QUARTZITE UP TO SEVERAL INCHES WIDE AND 70-90° TO CORE
		291½-301						SCHISTOSE QUARTZITE AND SCHIST.
	456	291½-296	.07	.53		4½	40	MODERATELY FRACTURED 291½-296 AND SCHIST
	457	296-301	.20	.04		5	38	IS SHEARED NEARLY PARALLEL WITH CORE 296-301'. VERY MINOR CUPRITE AND GREEN COPPER MINERAL 291½-296.
		301-309½						SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE.
	458	301-306	.06	.19		5	24	HIGHLY FRACTURED 301-306.
	459	306-309½	.10	Tr		3½	29	
	460	309½-314½	.03	.05		5	60	ALTERNATING ZONES UP TO SEVERAL INCHES WIDE OF QUARTZITE AND SCHIST ABOUT 40° TO CORE. SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE 311-314½.

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 5

DIAMOND DRILLING RECORD

By

Date

Hole No. S-30 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/7/54	X461	314½-319½	.01	.13		5	54	FROM 314½-317½ ALTERNATING ZONES OF SCHIST AND QUARTZITE 60-80° TO CORE. FROM 317½-319½ HIGHLY BRECCIATED QUARTZITE IN SCHIST NEARLY PARALLEL WITH CORE. VERY MINOR QUARTZ SULFIDE MINERALIZATION.
	X462	319½-325	.05	.02		5½	16	SCHISTOSE QUARTZITE WITH NARROW ZONES OF SCHIST. ABOUT 20° TO CORE. A 1" DIKE WITH SOME CHALCOPYRITE MINERALIZATION AT 325'.
	X463	325-329	.03	.26		4	60	BROWN SCHISTOSE DIKE WITH MINOR CHALCOPYRITE 325-327½. SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE 327½-329.
	X464	329-334	.12	.03		5	44	BROWN SCHISTOSE DIKE WITH SMALL CARBONATE SPOTS.
	X465	334-339	Tr	Tr		5	74	ALTERNATING ZONES OF SCHISTOSE QUARTZITE AND SCHIST ABOUT 60° TO CORE. ABOUT ⅛" DIAMETER GREENISH CARBONATE? SPOTS AT 334'. BROWN SCHISTOSE DIKE WITH SIMILAR SPOTS 334-335.
		339-362						SCHISTOSE QUARTZITE WITH A FEW ZONES OF QUARTZOSE SCHIST 60-80° TO CORE.
	X466	339-345	Tr	Tr		6	45	
	X467	345-350	.01	Tr		5	94	
	X468	350-356	Tr	Tr		6	52	
	X469	356-362	.01	Tr		6	28	

Hole No. S-30

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 6

DIAMOND DRILLING RECORD

By

Date

Hole No. S-30 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT.	% C.R.	Geology and Remarks
4/30/54	X 97	6-11	.01	.08		5	SLUDGE	
	X 98	11-16	.05	.13		5		
	X 99	16-21	.02	.10		5		
	X 100	21-26	Tr.	.04		5		No WATER 22½-24
	X 126	26-30	Tr.	.08		4		
	X 127	30-38	Tr	.04		8		No WATER 34½-38
	X 128	38-44	.01	.13		6		No WATER 38-40
		44-49	—	—				No SLUDGE
	X 129	49-52½	Tr	.03		3½		
	X 130	52½-57½	Tr	Tr		5		
	X 131	57½-62½	Tr	.02		5		
	X 132	62½-70	Tr	.06		7½		
	X 133	70-76	Tr.	.02		6		
	X 134	76-82½	Tr.	.02		6½		
	X 135	82½-91	Tr	Tr		8½		
	X 136	91-96	Tr	.05		5		
	X 137	96-100	Tr	.02		4		
	X 138	100-102	.01	.08		2		
5/2/54	X 139	102-107	Tr	.03		5		
	X 140	107-112	.01	.03		5		
	X 141	112-117½	.01	.03		5½		
	X 142	117½-123½	.01	.02		6		
	X 143	123½-129	Tr	.03		5½		
	X 144	129-133	.08	.10		4		
	X 145	133-138	.03	.21		5		
	X 146	138-143	.03	.36		5		
	X 147	143-148	.03	.33		5		
	X 148	148-155	.17	.69		7		
	X 149	155-161	.08	.20		6		
	X 150	161-165	.14	.46		4		
	X 151	165-168	.15	.55		3		
	X 152	168-173	.18	.60		5		
	X 153	173-175	.13	.33		2		
	X 154	175-184	1.68	5.42		9		
	X 155	184-189	.83	3.86		5		
	X 156	189-194	.36	1.97		5		
5/3/54	X 157	194-199	.57	2.30		5		
	X 158	199-204	.97	3.34		5		
	X 159	204-208	2.16	4.10		4		
	X 160	208-214	.93	2.75		6		
	X 161	214-219	.98	3.34		5		

Hole No. S-30

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 7

DIAMOND DRILLING RECORD

By

Date

Hole No. S-30 Mine

Level

Location

Bearing Dip

Length

Latitude of Collar Departure of Collar

Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT.	% C.R.	Geology and Remarks
5/3/54	X 162	219-226	.32	.92		7	SLOUGH	
	X 163	226-231	.32	.92		5	"	
	X 164	231-236	.27	.70		5	"	
5/4/54	X165	236-240	.36	.43		4	"	
	X166	240-245	.53	.37		5	"	
	X167	245-250	.31	.78		5	"	
	X168	250-255	.33	.30		5	"	
	X169	255-260	.20	.31		5	"	
	X170	260-265	.27	.24		5	"	
	X171	265-270	.19	.59		5	"	
	X172	270-275	.10	.50		5	"	
	X173	275-280	.05	.15		5	"	
	X174	280-285	.03	.41		5	"	
	X175	285-290	.04	.50		5	"	
	X176	290-295	.06	.14		5	"	
	X177	295-300	.11	.32		5	"	
5/5/54	X201	300-306	.14	.42		6	"	
	X202	306-309½	.06	.28		3½	"	
	X203	309½-314½	.11	.47		5	"	
	X204	314½-319½	.08	.68		5	"	
	X205	319½-325	.11	.64		5½	"	
	X206	325-329	.06	.49		4	"	
	X207	329-334	.08	.45		5	"	
	X208	334-339	.09	.45		5	"	
	X209	339-345	.07	.32		6	"	
	X210	345-350	.07	.33		5	"	
	X211	350-356	.10	.43		6	"	
	X212	356-362	.10	.33		6	"	

Hole No. S-30

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 1

DIAMOND DRILLING RECORD

By R.E. CRIBBS

Date MAY, 1954

Hole No. 531 Mine

Level SURFACE

Location 844 TRENCH

Bearing S57½W Dip -44½° Length 410

Latitude of Collar 18,289 N Departure of Collar 2,523 E Elevation 3857½

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/11/54		0-7				7	9	NX. FIRST HALF CORE BROWN WEATHERED DIKE, LAST PART SCHISTOSE QUARTZITE 40° TO CORE.
		7-12				5	16	FIRST HALF CORE IS SCHISTOSE QUARTZITE LAST PART IS QUARTZOSE SCHIST ABOUT 20° TO CORE
		12-18						ALTERNATING ZONES OF QUARTZITE
		12-13½				1½	40	AND SCHIST UP TO ONE INCH WIDE AND
		13½-18				4½	9	70-80° TO CORE.
		18-23				5	26	QUARTZOSE SCHIST AT HIGH ANGLE TO CORE CHANGING TO BRECCIATED SCHISTOSE QUARTZITE NEARLY PARALLEL TO CORE. MANY SMALL IRREGULAR QUARTZ STRINGERS, MOSTLY AT HIGH ANGLE TO CORE.
		23-28				5	38	SCHISTOSE QUARTZITE MORE PARALLEL WITH CORE. FIRST AND LAST PART OF CORE CONTAIN CONSIDERABLE QUARTZ AND VUGGY LIMONITE.
		28-29½				1½	40	SCHISTOSE QUARTZITE NEARLY PARALLEL TO CORE.
		29½-42½						BX SCHISTOSE QUARTZITE.
		29½-33				3½	20	STRUCTURE ABOUT 50° TO CORE
		33-37				4	15	AFTER 33'.
		37-42½				5½	13	
		42½-48				5½	22	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE WITH CONSIDERABLE LIMONITE-CLAY? MINERALIZATION NEARLY PARALLEL WITH CORE AND TINY RUST COLORED STRINGERS AT HIGH ANGLE TO CORE.
		48-58						SCHISTOSE QUARTZITE 60-80° TO
		48-53				5	38	CORE. BLACK SCHIST 52½-53'. SMALL
		53-58				5	22	QUARTZ-LIMONITE STRINGERS AT HIGH ANGLE TO CORE FROM 48 TO 53½'.
		58-62						FRACTURED SCHISTOSE QUARTZITE. ROCK IS MORE
		58-59				1	70	SCHISTOSE WITH SOME LIMONITE AFTER 59½'.
		59-62				3	64	
		62-63½				1½	80	SCHISTOSE QUARTZITE WITH NARROW ALTERNATING BANDS OF QUARTZITE AND SCHIST 50° TO CORE. LAST HALF OF CORE IS HIGHLY FRACTURED WITH QUARTZ-LIMONITE MINERALIZATION

Hole No. 531

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 2

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-31 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/11/54		63½ - 68½						SCHISTOSE QUARTZITE ABOUT 60° TO
		63½-66				2½	92	CORE WITH SEVERAL SCHIST ZONES UP TO
		66-68½				2½	96	½" WIDE. STRINGERS OF QUARTZ AND
								VUGGY LIMONITE 66-67'.
		68½-71				2½	24	MODERATELY FRACTURED SCHISTOSE
								QUARTZITE.
		71-73				2	95	SCHISTOSE QUARTZITE ABOUT 60° TO CORE
								WITH SEVERAL SCHIST ZONES UP TO ½" WIDE.
								FRACTURED AND POSSIBLE FAULTS AT 72, 72½.
		73-78						FRAGMENTS OF SCHIST AND SCHISTOSE
		73-76½				3½	49	QUARTZITE. SOME SHEARING AND
		76½-78				1½	60	POSSIBLE FAULT ZONE.
		78-83						SCHISTOSE QUARTZITE WITH A FEW
		78-80½				2½	96	SCHIST ZONES UP TO 1" WIDE AND 40-60°
		80½-83				2½	64	TO CORE. FRACTURED 80-80½. SEVERAL
								IRREGULAR QUARTZ STRINGERS AT 81'.
		83-88						ALTERNATING ZONES OF SCHISTOSE
		83-85				2	100	QUARTZITE AND QUARTZOSE SCHIST VARYING
		85-87				2	80	FROM 30° TO CORE AT 83' TO 70° AFTER 85'.
								FRACTURED 83-83½ AND 86-87'.
		87-91				4	63	FRACTURED SCHISTOSE QUARTZITE AND
								SCHIST. MOSTLY AT A LOW ANGLE TO CORE.
		91-97						ALTERNATING ZONES OF SCHISTOSE
		91-94				3	100	QUARTZITE AND SCHIST UP TO SEVERAL
		94-97				3	90	INCHES WIDE AND 30-50° TO CORE. FINE
								GRAINED 93-95½.
		97-99				2	100	FRACTURED QUARTZITE AND SCHIST.
								MINOR IRON STAINS ALONG FRACTURES.
		99-119						ALTERNATING ZONES OF SOMEWHAT
		99-104				5	90	BRECCIATED QUARTZITE AND SCHIST UP TO
		104-107				3	100	SEVERAL INCHES THICK. SCHIST IS ABOUT 40°
		107-111				4	83	TO CORE 99-111' AND IS CONTORTED AND ABOUT
		111-115				4	95	25-40° TO CORE 111-119'. FRACTURES IRON
		115-119				4	93	STAINED 107½-111. HIGHLY FRACTURED 110-111.
								MINOR IRREGULAR QUARTZ STRINGERS 111-119.
		119-128½						ALTERNATING ZONES OF QUARTZITE AND
		119-122½				3½	80	SCHIST UP TO ½" WIDE AND 30-60° TO CORE.
		122½-125½				3	63	SOMEWHAT BRECCIATED QUARTZITE 119-119½.
		125½-128½				3	70	FRACTURED AT 120, 122-125½, AND 126½-128.
								IRON STAINS ON FRACTURES 126½-127.

Hole No. 5-31

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 3

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-31 Mine

Level

Location

Bearing Dip

Length

Latitude of Collar Departure of Collar

Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/19/54		128½-130½				2	90	FRACTURED QUARTZITE AND SCHIST WITH IRON STAINS ON SOME FRACTURES
		130½-137½						QUARTZITE WITH ZONES OF SCHIST
		130½-135½				5	40	UP TO 1" WIDE AND FROM 5-30° TO
		135½-137½				2	85	CORE. MUCH OF CORE IS MODERATELY
								FRACTURED WITH SOME IRON STAINS.
		137½-140				2½	76	FRACTURED CONTORTED QUARTZOSE SCHIST.
		140-152½						SOMEWHAT BRECCIATED QUARTZITE
		140-144½				4½	93	WITH ZONES OF CONTORTED SCHIST UP TO
		144½-148½				4	100	½" WIDE AND VARYING FROM ABOUT
		148½-152½				4	100	45° TO CORE AT 140½ TO NEARLY PARALLEL
								AT 142 AND 45° AFTER 145'. MINOR
								QUARTZ-LIMONITE STRINGERS AT 149½'.
		152½-155½						MODERATELY FRACTURED SCHIST AND
		152½-154				1½	100	QUARTZITE
		154-155½				1½	20	
		155½-174						ALTERNATING ZONES OF QUARTZITE
		155½-159½				4	98	AND SCHIST UP TO ½' WIDE AND ABOUT
		159½-165				5½	55	40-60° TO CORE. MINOR IRREGULAR
		165-169				4	100	QUARTZ STRINGERS. MINOR QUARTZ-
		169-174				5	94	LIMONITE MINERALIZATION 165½-166½ AND 172-173½.
		174-180						SCHISTOSE QUARTZITE WITH IRON
		174-176				2	95	STAINS ALONG SOME FRACTURES.
		176-180				4	80	HIGHLY FRACTURED 180-181 WITH SOME
								QUARTZ-LIMONITE MINERALIZATION.
		180-183				3	80	BROWNISH STAINED SCHISTOSE QUARTZITE
								WITH SMALL QUARTZ-LIMONITE STRINGERS.
								MOSTLY QUARTZ-LIMONITE MATERIAL 182½-183.
		183-185½				2½	80	QUARTZ-LIMONITE GOSSAN 183-184.
								SAME IN QUARTZITE AND SCHIST 184-185.
								FRACTURED SCHISTOSE QUARTZITE 185-185½.
		185½-199½						SCHISTOSE QUARTZITE, SOMEWHAT
		185½-190				4½	100	BROWNISH STAINED IN PLACES AND 60-70°
		190-194½				4½	51	TO CORE. HIGHLY FRACTURED AT 188,
		194½-199½				5	92	194, AND 197½-198½. LIMONITE STRINGERS
								HEALING OLD FRACTURES 190-192' AND 194½-196'.

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 4
By
Date

Hole No. 5-31 Mine
Location
Bearing Dip
Latitude of Collar Departure of Collar

Level
Length
Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/20/54	X342	199½-205	Tr	.02		5½	78	FINE GRAINED SCHISTOSE QUARTZITE WITH NARROW SCHIST ZONES ABOUT 60° TO CORE. LIMONITE FILLS FRACTURES 202½-204. CORE HIGHLY FRACTURED 203-205'.
	X343	205-209	.24	1.16		4	43	QUARTZITE AND SCHIST WITH LIMONITE FILLING OLD FRACTURES. BROWN SCHISTOSE DIKE 207½-208½. FAULT GOUGE 206-207½. GREEN COPPER MINERALS ALONG FRACTURES 208½-209
		209-216½						SCHISTOSE QUARTZITE ABOUT 70° TO CORE. QUARTZ-PYRITE MINERALIZATION WITH MINOR CHALCOPYRITE 211-211½. MODERATELY FRACTURED 214½-216½.
	X344	209-211	.01	.09		2	85	
	X345	211-211½	.05	1.77		½	100	
	X346	211½-214½	Tr	.02		3	87	
	X347	214½-216½	.01	.05		2	80	
	X348	216½-219½	.04	.15		3	73	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE HEALED WITH LIMONITE, CHALCOCITE AND A GREEN COPPER MINERAL - MOSTLY FROM 217-218'. BROWN SCHISTOSE DIKE 219-219½. HIGHLY FRACTURED 218-219½.
	X349	219½-220½	Tr	.23		1	100	SCHISTOSE QUARTZITE WITH MINOR GREEN COPPER STAIN.
	X350	220½-224½	.01	.07		4	58	QUARTZITE WITH A FEW NARROW SCHIST ZONES 30-45° TO CORE.
		224½-252						QUARTZITE WITH ZONES OF SCHIST UP TO AN INCH WIDE AND ~~ABOUT~~ 55-80° TO CORE. MINOR LIMONITE ALONG FRACTURES AT 235'. SOME CHALCOPYRITE-CHALCOCITE MINERALIZATION AT 243'.
	X351	224½-229	Tr.	Tr.		4½	100	
	X352	229-238	Tr	.02		9	91	
	X353	238-241½	.01	.04		3½	40	
	X354	241½-247	.01	.04		5½	78	
	X355	247-249½	Tr	.01		2½	96	
	X356	249½-252	.08	.90		2½	48	
	X357	252-261	Tr.	Tr.		9	92	QUARTZITE WITH CONTORTED BANDS OF SCHIST UP TO AN INCH WIDE. 20° TO CORE AT 252, 80° AT 253½, PARALLEL 256-256½ AND 60-70° AFTER 256½'.
	X358	261-269½	.02	.03		8½	91	SOMEWHAT BRECCIATED SCHISTOSE QUARTZITE. WITH A FEW ENRICHED QUARTZ-SULFIDE STRINGERS A 262' AND 269'. FINE GRAINED FINELY LAMINATED QUARTZITE AND SCHIST 264-265½.
	X359	269½-272½	Tr	Tr		3	57	MODERATELY FRACTURED SCHISTOSE QUARTZITE,

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 5
By
Date
Level

Hole No. 5-31 Mine
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/21/54		272½-282½						SCHISTOSE QUARTZITE 60-80° TO CORE,
		272½-276½				4	73	SOMEWHAT BRECCIATED IN PLACES.
		276½-278½				2	100	
		278½-280				1½	47	
		280-282½				2½	88	
		282½-285½				3	100	SCHISTOSE QUARTZITE WITH A FEW NARROW ZONES OF SCHIST 50-60° TO CORE. HIGHLY FRACTURED 284½-285.
		285½-288½				3	70	SCHISTOSE QUARTZITE.
		288½-297½						SCHISTOSE QUARTZITE WITH SOME SCHIST
		288½-291½				3	100	ZONE UP TO AN INCH WIDE 55° TO CORE
		291½-297½				6	93	BETWEEN 288½ AND 294 AND 60-80° TO CORE
		297½-301				3½	94	AFTER 294'. SOMEWHAT BRECCIATED 296½-296½. SCHISTOSE QUARTZITE. SEVERAL ½"
		301-311						SCHIST ZONES 80° TO CORE 297½-298.
		301-308				7	96	ALTERNATING ZONES UP TO ½" WIDE OF SCHIST AND QUARTZITE 45-60° TO CORE.
		308-311				3	100	
		311-318				7	67	NARROW SCHIST ZONES IN QUARTZITE ABOUT 80° TO CORE 311-313½. BROWN SCHISTOSE DIKE WITH SPOTS OF CARBONATE UP TO ¼" DIAMETER 313½-315½. SCHISTOSE QUARTZITE 315½-318. THE ½' NEXT TO DIKE HAS ¼" WHITE SPOTS WITH GREEN CENTERS.
		318-324				6	37	SCHISTOSE QUARTZITE VARIES FROM ABOUT 45° TO CORE AT 318 TO ABOUT 90° AT 324'.
		324-329				5	92	QUARTZITE WITH NARROW SCHIST ZONES ABOUT 90° TO CORE.
		329-332½				3½	57	QUARTZITE WITH ZONES OF SCHIST ABOUT 45° TO CORE. QUARTZ MINERALIZATION AND ROCK MODERATELY FRACTURED 331½-332½.
		332½-339						ALTERNATING ZONES OF SCHIST AND QUARTZITE
		332½-336				3½	69	ABOUT 80° TO CORE. MODERATELY FRACTURED
		336-339				3	83	337-339.
		339-346				7	30	QUARTZITE WITH A FEW SCHIST ZONES 45° TO CORE. FRACTURED SCHIST 344½-345. MINOR QUARTZ STRINGERS 339-340.
		346-349				3	87	QUARTZITE WITH CONTORTED SCHIST ZONES 60-80° TO CORE. MINOR QUARTZ STRINGERS

Hole No. 5-31

CALERA MINING COMPANY
BLACKBIRD DIVISION

DIAMOND DRILLING RECORD

Sheet No. 6
By
Date
Level

Hole No. 5-31 Mine
Location
Bearing Dip Length
Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C.R.	Geology and Remarks
5/21/54		349-351½				2½	52	CONTORTED SCHIST AND QUARTZITE WITH IRREGULAR QUARTZ STRINGERS. HIGHLY FRACTURED 349½-351½.
		351½-352½				1	90	SCHISTOSE QUARTZITE AT HIGH ANGLE TO CORE. A ½" BLACK DIKE? WITH SMALL CARBONATE XLS AT 351½'.
		352½-355						SCHISTOSE QUARTZITE WITH SEVERAL SCHIST ZONES AT HIGH ANGLE TO CORE EXCEPT NEARLY PARALLEL WITH CORE AT 354½. MINOR IRREGULAR QUARTZ STRINGERS. QUARTZITE IS BRECCIATED AND PART OF CORE HIGHLY FRACTURED 354-357.
		352½-354				1½	80	
		354-355				1	100	
		355-357				2	65	QUARTZITE WITH 1" SCHIST ZONES ABOUT 60° TO CORE. HIGHLY FRACTURED AND SOMEWHAT SHEARED 356-357.
		357-363						SCHISTOSE QUARTZITE MODERATELY FRACTURED. MINOR NARROW QUARTZ STRINGERS.
		357-360				3	17	
		360-363				3	10	
		363-366				3	33	FRAGMENTS OF QUARTZITE AND SCHIST. SHEARING EVIDENT 364-366'.
	X399	366-371	.01	.04		5	40	SCHIST AND SOMEWHAT BRECCIATED QUARTZITE. A 1" SCHISTOSE BLACK DIKE? WITH SMALL CARBONATE XLS. AT 366'. NATIVE COPPER AT 370'. HIGHLY FRACTURED 368-371'.
		371-381½						A ½" BLACK SCHISTOSE DIKE? WITH SMALL CARBONATE XLS AT 371. HIGHLY FRACTURED AND SHEARED SCHIST 371-372'. BROWN SCHISTOSE DIKE 372-372½'. FROM 372½-381½ ARE ALTERNATING ZONES OF QUARTZITE AND SCHIST UP TO AN INCH WIDE AND 80° TO CORE. TWO INCHES OF FINELY LAMINATED FINE GRAINED ROCK AT 375'. IRREGULAR NARROW QUARTZ-BIOTITE STRINGERS WITH MINOR CHALCOPYRITE. BIOTITE IS MORE PREVALENT IN SCHIST ZONES.
	X400	371-376	.03	.38		5	76	
	X401	376-381½	.48	.21		5½	49	
		381½-391						QUARTZITE WITH SCHIST ZONES UP TO 3" WIDE ABOUT 80° TO CORE. VERY MINOR QUARTZ STRINGERS. FINELY LAMINATED 388½-389'.
	X402	381½-386	Tr	Tr		4½	78	
	X403	386-391	Tr	Tr		5	94	
		391-410						QUARTZITE WITH NARROW SCHIST ZONES MOSTLY AT HIGH ANGLE TO CORE. MINOR SMALL IRREGULAR QUARTZ STRINGERS.
	X404	391-393½	.05	.04		2½	76	
	X405	393½-400	Tr	Tr		6½	49	
	X406	400-410	Tr	Tr		10	51	

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 7

DIAMOND DRILLING RECORD

By R. CRIBBS

Date MAY, 1954

Hole No. 5-31 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	Ft	% C.R.	Geology and Remarks
5/2/54	X 236	7-12	.04	.40		5	Sweat	
	X 237	12-18	.02	.10		6	"	
	X 238	18-23	.05	.26		5	"	
	X 239	23-28	.05	.33		5	"	
	X 240	28-33	.01	.04		5	"	
	X 241	33-37½	.01	Tr		4½	"	
5/10/54	X 189	37½-42½	.01	.04		5	"	
	X 190	42½-48	Tr	.02		5½	"	
	X 191	48-53	.01	.03		5	"	
	X 192	53-58	Tr	Tr		5	"	
	X 193	58-62	Tr	.02		4	"	
	X 194	62-66	Tr	.01		4	"	
	X 195	66-71	Tr	.04		5	"	
	X 196	71-76½	Tr	.02		5½	"	
	X 197	76½-80½	Tr	.02		4	"	
	X 198	80½-85	Tr	.09		4½	"	
	X 199	85-91	Tr	.08		6	"	
	X 200	91-97	Tr	.04		6	"	
	X 242	97-104	Tr	.19		7	"	
	X 243	104-107	Tr	.03		3	"	
	X 244	107-111	Tr	.02		4	"	
5/11-/54	X 245	111-115	.03	.08		4	"	
	X 246	115-119	.01	.13		4	"	
	X 247	119-125½	.02	.32		6½	"	
	X 248	125½-130½	Tr	.19		5	"	
	X 249	130½-135½	.02	.61		5	"	
	X 250	135½-140	Tr	.25		4½	"	
	X 251	140-144½	.02	.13		4½	"	
	X 252	144½-148½	.04	.29		4	"	
	X 253	148½-152½	.02	.11		4	"	
	X 254	152½-155½	.02	.17		3	"	
	X 255	155½-159½	.04	.12		4	"	
	X 256	159½-165	.02	.07		5½	"	
	X 257	165-169	.02	.09		4	"	
	X 258	169-174	.03	.14		5	"	
	X 259	174-180	.01	.09		6	"	
	X 260	180-183	.02	.10		3	"	
	X 261	183-190	.01	.22		7	"	
5/13/54	X 262	190-194½	.05	.26		4½	"	
	X 263	194½-199½	.02	.04		5	"	
	X 264	199½-205	.02	.13		5½	"	

CALERA MINING COMPANY
BLACKBIRD DIVISION

Sheet No. 8

DIAMOND DRILLING RECORD

By

Date

Hole No. 5-31 Mine Level

Location

Bearing Dip Length

Latitude of Collar Departure of Collar Elevation

Date	Sample No.	Depth From — To	Assay Value % Co.	% Cu.	Oz. Au.	FT	% C. R.	Geology and Remarks
5/13/54	X265	205-209	.05	.63		4	SLUDGE	
	X266	209-214½	.03	.52		5½	"	
	X267	214½-216½	.04	.32		2	"	
	X268	216½-220½	.03	1.92		4	"	
	X269	220½-224½	.02	.61		4	"	
	X270	224½-229	.03	.31		4½	"	
	X271	229-238	.04	.19		9	"	
5/14/54	X272	238-241½	.04	.61		3½	"	
	X273	241½-247	.03	.38		5½	"	
	X274	247-252	.06	.78		5	"	
	X275	252-261	.02	.10		9	"	
	X276	261-266	.05	.36		5	"	
	X277	266-269½	.07	1.88		3½	"	
	X278	269½-272½	.03	.16		3	"	
	X279	272½-276½	.03	.17		4	"	
	X280	276½-280	.04	.15		3½	"	
	X281	280-285½	.03	.32		5½	"	
	X282	285½-288½	.02	.14		3	"	
	X283	288½-291½	.02	.13		3	"	
	X284	291½-297½	.03	.13		6	"	
	X285	297½-301	.02	.33		3½	"	
5/15/54	X286	301-308	.03	.56		7	"	
	X287	308-318	.01	.14		10	"	
	X288	318-324	.01	.19		6	"	
	X289	324-329	.04	.28		5	"	
	X290	329-332½	.03	.09		3½	"	
	X291	332½-339	.02	.22		6½	"	
	X292	339-346	.03	.30		7	"	
	X293	346-349	.02	.17		3	"	
	X294	349-355	.01	.14		6	"	
	X295	355-363	.01	.17		8	"	
	X296	363-366	.02	.44		3	"	
	X297	366-371	.01	.56		5	"	
5/16/54	X298	371-376	.04	1.24		5	"	
	X299	376-381½	.25	2.77		5½	"	
	X300	381½-386	.08	1.03		4½	"	
	X301	386-391	.03	.71		5	"	
	X302	391-393½	.05	.64		2½	"	
	X303	393½-400	.03	.38		6½	"	
	X304	400-404½	.04	.37		4½	"	
	X305	404½-410	.02	.51		5½	"	

Hole No 5-31

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 20 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1954 Docket No. DMEA 3143 Contract No. idm-E645
Operator's Name Calera Mining Company Minerals Cobalt and Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70% Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Spiling		560.00	560.00			
Heavy Timber		199.50	199.50			
Drilling-Core Stage II		331.46	331.46			
Trenching	3,147.67	1,098.72	4,246.39			
Normal Timber		667.10	667.10			
Drifting		3,731.18	3,731.18			
Framing		180.84	180.84			
(2) Stage I						
Core Drilling	2,916.24		2,916.24			
Stage I Reaming	35.00		35.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis Stage II		141.00	141.00			
Payroll Taxes						
Liability Insurance						
Stage I Sampling & Analysis	213.00		213.00			
(8) Contingencies (specify):						
TOTALS	$6,311.91	$6,909.80	$13,221.71	6311.91	6909.80	13221.71

I certify that the above bill is correct and just and that payment therefor has not been received.

Date May 4, 1954 Payee Calera Mining Company

Per [signature] Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4418.34

Signature [signature]
(Authorized Certifying Officer)

Date 5/24/54 Vou. No. 1155
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E6645 in accordance with the terms of the contract.

Signature /S/ Verdo Z Johnson Title Mining Engr Date 5/13/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 5/13/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

Form MF-104A (April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Defense Minerals Administration
MAY 20 1954

Month April 195 4 Docket No. DMEA 3143 Contract No. idm-E645

Operator's Name Calera Mining Company Minerals Cobalt and Copper

Address Cobalt, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.			$ 3,731.18	105	$35.535	6000	$35.535
Crosscutting								
~~Raising~~ normal timbering	Ft.			667.10	95.3	7.00	5000	7.00
~~Shafts~~ heavy timbering	Ft.			199.50	28.5	7.00	750	7.00
~~Winzes~~ spiling	Ft.			560.00	28.0	20.00	500	20.00
~~Drilling, Core~~ Framing	Sets			180.84	33.0	5.48	1150	5.48
Assay ~~Diamond~~ Stage II	Each			141.00	47	3.00	5900	3.00
Drilling ~~Auger~~ Core Stage II	Ft.			331.46	98	3.3822	10500	3.3822
Stripping								
~~Trenching~~	Hrs.	$3,147.67	265	4,246.39	357½	11.878	864	11.878
Drilling ~~Test Pits~~ Core Stage I	Ft.	2,916.24	419	2,916.24	419	6.96	8700	6.96
Assay ~~Hoisting~~ Stage I	Each	213.00	71	213.00	71	3.00	3100	3.00
Reaming - Stage I	Ft.	35.00	14	35.00	14	2.50	1700	2.50
TOTAL DISTRIBUTED COSTS		$6,311.91		$13,221.71				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$6,311.91		$13,221.71				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 4, 1954 Operator Calera Mining Company

Per [signature] Title Vice President

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc.". The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

May 4, 1954

Received
20

Mr. A. E. Weissenborn
Executive Office - Region 2
D.M.E.A. Field Team
South 157 Howard Street
Spokane 4, Washington

Dear Mr. Weissenborn:

Re: Docket No. D.M.E.A. 3143
Contract No. 4dm-8643

We enclose herewith the reports covering the activities of D.M.E.A. project No. 3143 for the month of April, 1954.

Work with the D-7 bulldozer was continued and operated on a two-shift basis for a greater part of the month. Total time for the bulldozer operation amounted to 265 hours for April.

Bulldozer work was continued in the 798 Trench, making a total of over 1300 feet of bedrock exposed in this trench. Average depth of overburden was a little over 10 feet.

Bulldozer work was started in the 844 Trench and the 874 Trench. Overburden at the western end of the 844 Trench reached a depth of over 12 feet, whereas, the overburden along the 874 Trench averages approximately 9 feet in depth. A total of 1,120 feet of bedrock was exposed by the opening of these two trenches. Observation of the newly exposed bedrock revealed only minor mineralization.

Surface core drilling was started by drilling the first hole, S-29, at a minus 45° in the 796 Trench which was dug in 1953. The results of the balanced sludge and core assays from the first hole drilled were 39 feet of 1.19% cobalt and 3.38% copper. In an effort to determine the extent and dip of the mineralized zone, another core hole, S-30, is being drilled on the same vertical plane at minus 60° dip.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. E. Douglas, Manager

EED:sbd
Encls.

Form [redacted] (Rev.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1954 Docket No. DMEA 3143 Contract No. IDM-E 6454
Operator's Name Calera Mining Company Minerals Cobalt-Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70 % Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contracts ~~Short-Form~~ Spiling	220.00	340.00	560.00			
Heavy Timber	--	199.50	199.50			
Drilling Core Stage II	331.46	--	331.46			
~~Bulldozing~~ Trenching	1,098.72	--	1,098.72			
~~Cleaning~~ Normal Timbering	77.00	590.10	667.10			
Drifting	390.89	3,340.29	3,731.18			
Framing	32.88	147.96	180.84			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis Stage II	78.00	63.00	141.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,228.95	4,680.85	6,909.80	2228.95	4680.85	6909.80

I certify that the above bill is correct and just and that payment therefor has not been received.

Date April 6, 1954 *Payee Calera Mining Company

Per [signature] Title Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1560.27

Signature [signature]
(Authorized Certifying Officer)

Date 4/13/54 Vou. No. 1140
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Eo 645 in accordance with the terms of the contract.

Signature /s/ Verdo Z Johnson Title Mining Engr Date 4/20/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr Date 4/21/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

[redacted]-104A
[redacted]52)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 195 4 Docket No. DMEA 3143 Contract No. IDM - E 645
Operator's Name Calera Mining Company Minerals Cobalt - Copper
Address Cobalt, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	Ft.	390.89	11	3,731.18	105	35.535	6,000	$ 35.535
Crosscutting								
~~Raising~~ Normal Timbering	Ft.	77.00	11	667.10	95.3	7.00	5,000	7.00
~~Shafts~~ Heavy Timbering	Ft.	--	--	199.50	28.5	7.00	750	7.00
~~Winzes~~ Spiling	Ft.	220.00	11	560.00	28.0	20.00	500	20.00
~~Drilling: Core~~ Framing	Sets	32.88	6	180.84	33.0	5.48	1,150	5.48
Assay ~~Churn~~ Stage II	Each	78.00	26	141.00	47	3.00	5,900	3.00
Drilling ~~Auger~~ Stage II (CORE)	Ft.	331.46	98	331.46	98	3.3822	10,500	3.3822
~~Stripping~~								
Trenching	Hrs.	1,098.72	92.5	1,098.72	92.5	11.878	864	11.878
~~Test Pits~~								
Roads and Trails								
Total Distributed Costs		2,228.95		6,909.80				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$2,228.95		$ 6,909.80				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date April 6, 1954 Operator Calera Mining Company

Per [signature] Title Vice President

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

Department of the Interior
Defense Minerals Administration
RECEIVED
APR 29 1954

April 6, 1954

Mr. A. E. Weissenborn
Executive Officer, Region II
D.M.E.A. Field Team
South 157 Howard
Spokane 4, Washington

Dear Mr. Weissenborn:

Re: Docket No. D.M.E.A. 3143
Contract No. IDM - E 643

During the month of March, the 7400 Drift was advanced 11 feet. Since the zone of faulting continued to be present in the heading, advancing of the drift was most difficult and necessitated the driving of spiling with each set of timber that was stood.

It was decided in the early part of the month to stop driving the drift and diamond drill at the face of the 7400 Drift North. One hole was drilled on the line of the drift in search of firmer rock. This was not charged to the D.M.E.A. account. A 70 foot hole drilled eastward from the drift and a 28 foot hole drilled westward from the drift did not intersect ore. A week poor coring ground was encountered in all three of the diamond drill holes.

On March 9, surface trenching was started on the 798 trench. As of April 1, approximately 600 feet of bed rock has been exposed. The average depth of overburden was found to be approximately 10 feet, and the maximum depth of overburden was found to be 20 feet. The trench intersected a favorable appearing mineralized zone containing many small pods of gossan. This exposed gossan is approximately 800 feet north of the 7400 Drift North face. The bulldozing operation for the month amounted to 92½ hours of work.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:mc

Form MF-102 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1954 Docket No. DMEA 3143 Contract No. Idm-E645
Operator's Name Calera Mining Company Minerals Cobalt-Copper
Address Cobalt, Idaho
Contract Amount, $ 407,340.00 Government Participation: 70% Amount, $ 285,138.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Loading Contracts: Short Form				340.00		340.00
Drilling Normal timbering				590.10		590.10
Bulldozing Heavy "				199.50		199.50
Crosscutting						
Drifting	4,680.85	-	4,680.85	3340.29		3340.29
Training				147.96		147.96
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis				63.00		63.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	4,680.85		4,680.85	4680.85	—	4680.85

I certify that the above bill is correct and just and that payment therefor has not been received.

Date March 3, 1954 Payee Calera Mining Company

Per [signature] Title Vice President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3276.60

Signature [signature]
(Authorized Certifying Officer)

Date 3/17/54 Vou. No. 1116
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E645 in accordance with the terms of the contract.

Signature /S/ Verdo Z Johnson Title Mining Engr Date 3/16/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 3/16/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

5 cy (a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

5 cy (b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

5 cy (c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the DMEA ~~Executive Officer~~ of the Region not later than the 15th of the month following. 1201 N. Division St., Spokane, Wn.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF 104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1954 Docket No. DMEA 3143 Contract No. 1da-3645
Operator's Name Calera Mining Company Minerals Cobalt & Copper
Address Cobalt, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	Ft.	3,340.29	94	3,340.29	94	35.535	6000	205.535
Crosscutting								
~~Raising~~ Normal Timbering	Ft.	590.10	84.3	590.10	84.3	7.00	5000	7.00
~~Chute~~ Heavy Timbering	Ft.	199.50	28.5	199.50	28.5	7.00	750	7.00
Winzes Spiling	Ft.	340.00	17.0	340.00	17.0	20.00	500	20.00
~~Drilling Core~~ Framing	Sets	147.96	27.	147.96	27.	5.48	1150	5.48
Assay ~~Chute~~ Stage II	Ea.	63.00	21	63.00	21	3.00	5900	3.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		4,680.85		4,680.85				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		4,680.85		4,680.85				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date March 9, 1954 Operator Calera Mining Company

Per [signature] Title Vice President

Remarks:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO

March 4, 1954

Mr. A. E. Weissenborn
Executive Officer, Region II
D.M.E.A. Field Team
South 157 Howard
Spokane 4, Washington

Dear Mr. Weissenborn:

Re: Docket No. D.M.E.A. 3143
Contract No. IDM - E 645

During the month of February, the 7400 Drift North was advanced 94 feet in waste. At approximately 15 feet past the D.M.E.A. boundary, a large north striking fault was encountered, and west of this fault very bad ground was found that consisted of sheared and faulted schistose quartzite and altered dike material. Standing of drift timber was started at 10 feet past the D.M.E.A. line. To date, 27 sets have been stood, consisting of 38.3 feet of normal drift timbering, and 17.0 feet of spiling, making a total of 84.3 feet of drift timbered during the month.

The work was started in this heading on a two-shift basis; then on February 8, three shifts were started and continued throughout the month.

Very truly yours,

CALERA MINING COMPANY
BLACKBIRD DIVISION

E. B. Douglas, Manager

EBD:ac

NOV 28 1958

Calera Mining Company
Cobalt, Idaho

Re: Docket No. DMEA-3143 (Cobalt and Copper)
Blackbird Mine
Lemhi County, Idaho
Contract No. Ida-3645

Gentlemen:

Thank you for your royalty payment of $4,315.58 which was received during November. This repays in full the Government's participation of $185,863.88 in your exploration contract for cobalt and copper.

As a result of this repayment the Government retains no lien or claim against the property or on any future production.

Congratulations on the successful exploration. It has been a pleasure to participate with you in this undertaking.

Sincerely yours,

FRANK E. JOHNSON

ACTING Director

AMAlley/ama
November 26, 1958

Copy to: Docket
Director's Reading File
Director
Mr. Johnson
Mr. Martin
Mr. Chambers
Mr. Kiilsgaard
Mr. H. W. Davis
Mr. A. D. McMahon
Field Team, Region I (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Calera Mining Company
Cobalt, Idaho

Pursuant to the provisions of Exploration Project Contract No. Ida-E645, executed December 9, 1953, (Docket No. DMEA 1143) as amended, hereinafter called the "Contract", between Calera Mining Company, a corporation, and the United States of America, hereinafter called the "Government"; to establish and fix the Government's royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration.

The nature of said discovery or development is described broadly or indicated as follows:

Bulldozer trenching, surface and underground diamond core drilling, and drifting and crosscutting on the 7400 level of the Blackbird mine have indicated the presence of cobalt-copper ores, occurring in veins and lenses in fractured and sheared zones traversing quartzites and schists.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
Acting Administrator, Defense Minerals
Exploration Administration

Dated: September 16, 1957

SPHOLT:fec 8-29-57
cc to: Docket
Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. H. W. Davis, USBM
C.A. Fredell, GSA

Messrs. T. H. Kiilsgaard, USGS
Finance Office
Audit Div.
Code 110

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

[redacted] Mining Company
[redacted], Idaho

Re: Project No. [redacted] - Cobalt and Copper
Blackbird Mine
[redacted] County, Idaho
Contract No. [redacted]

Gentlemen:

Enclosed is a certification of discovery or development which covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, out of the certification all minerals mined or produced from December 9, 1953, to December 9, 1956, are subject to the Government's percentage royalty as set forth in the contract until the sum of $187,063.08 is paid.

You should continue to make royalty payments, as in the past, to Mr. A. T. Weisenborn, Executive Officer, DMEA Field Team, Region I, Room 357 Denver Block, Spokane 8, Washington. The payments should be accompanied, as has been customary, by suitable evidence showing price, quantity and grade of the product sold, with deductions certified to be correct by you.

You are requested to notify Mr. Weisenborn of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify Mr. Weisenborn at [redacted] month intervals that no production has been made, when this is the case.

Sincerely yours,

[redacted]:fec 9-13-57
re to: Code 100
110
300
Admr. R. File
FT. REG. I
Messrs. F. T. Lamb, USGS
[redacted]

[redacted]
ACTING Administrator

T. H. Killsgaard, USGS
H. W. Davis, USBM
Oper. Comm.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

SEP 16 1957

Mr. Lawrence A. Fredell, Acting Director
Technical Services Division
Defense Materials Service
General Services Administration
7th and D streets, S. W.
Washington 25, D. C.

Re: Project No. DMEA 3143, Cobalt-copper
Calumet Mining Company
Standard mine
Lemhi County, Idaho
Contract No. DMEA-[illegible]

Dear Mr. Fredell:

Enclosed is a copy of a certification of discovery, or development toward under the subject contract.

Contract No. DMEA-[illegible] for the exploration of the Standard mine cobalt-copper deposits was executed December 9, 1953. Expenditures up to $1,407,320.00 were authorized by the contract as amended, of which the Government's share at 70 percent was $985,124.00. Cost of the work completed was $1[illegible],513.83, of which the Government's share was $1[illegible],[illegible].

The object of the exploration program was to test the possible cobalt and copper occurrences in veins and lenses along zones of fracturing and shearing in quartzites and argillites. The program employed bulldozer trenching, surface and underground diamond drilling, drifting and crosscutting, to explore the mineralized zones.

The contract, as amended, provided for 564 hours of bulldozer trenching, 8,276.5 feet of surface diamond drilling, 11,214.35 feet of underground diamond drilling, and 6,000 feet of drifting and crosscutting.

Work completed consisted 564 hours of bulldozer trenching, 8,276.5 feet of surface diamond drilling, 7,283.5 feet of underground diamond drilling, and 3,369.0 feet of drifting.

A preliminary approximation of reserves of cobalt-copper ore discovered by project work is more than 700,000 tons of ore, averaging 0.60 percent cobalt and 2.23 percent copper.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosure

Contract Date 8-29-57
or Sub Number
Date 100
800
110

or for Admin. No. File
Cobalt
Pt. No. 1
Reports
Data, etc.
Copies

Government's Copy

TERMINATION AGREEMENT

It is agreed this 2nd day of January, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Calera Mining Company, hereinafter called the "Operator," parties to Exploration Project Contract No. Idm-E646 (Docket No. DMEA-3143), dated December 9, 1953, as amended, that:

1. Effective 12:01 a.m. December 9, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the agreed unit costs of work performed prior to December 9, 1956.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. The Operator hereby releases and agrees to save the Government harmless from all claims or demands by the operator under or arising out of said Contract, except as otherwise provided in this termination agreement.

5. All rights of the Government provided for in the Contract with respect to certification of discovery or development, percentage royalty and liens for its payment, records, audits, and recovery of any overpayment, are preserved.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By O. Mitchenay
Administrator, Defense Minerals
Exploration Administration

CALERA MINING COMPANY

By [signature]

Title Vice President

OFFICIAL FILE COPY
DMEA
RECEIVED APR 1 1957

DATE	INITIALS	CODE
		800

Government's Copy

RECEIVED
APR 23 1956

AMENDMENT NO. 4
to
EXPLORATION PROJECT CONTRACT Idm-E645
Dated December 9, 1953
DOCKET NO. DMEA-3143
between
THE UNITED STATES OF AMERICA
and
CALERA MINING COMPANY

It is agreed this 12th day of March, 1956, that the Contract is further amended as follows:

1. In Amendment No. 2, delete the second paragraph in Footnote 1/, and substitute the following:

"If it is necessary to replace a rock bolted section with normal timbering, only the difference between the allowable cost per foot of rock bolting and the allowable cost of $7.00 per foot of normal timbering and/or rock bolting shall be an allowable cost."

2. In Article 3 of the contract form, the period for completion of the work is further extended from "24 months" to "36 months."

3. In Article 10 of the contract form, that part of the second sentence beginning with the word "Provided" is deleted.

4. In Annex II to the Contract, the period for royalty payments is extended to thirteen (13) years from the date of the Contract; that is, to December 9, 1966.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, nor the agreed unit cost of any item of work.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. W. Mitchenson
Administrator, Defense
Minerals Exploration
Administration

CALERA MINING COMPANY

By

400

MAR 14 1956

Mr. Vinton H. Clarke, Vice President
Calera Mining Company
730 Fifth Avenue
New York 19, New York

Re: Docket No. DMEA-1143,
Cobalt-Copper
Blackbird Mine
Lemhi County, Idaho
Contract No. Ida-2645

Dear Mr. Clarke:

Reference is made to your letter of March 1, 1956, and, insofar as it concerned the subject project, to our conference here in Washington on March 8, that was also attended by Messrs. Malmed and Roper from your company and Messrs. Johnson, Selfridge, and Martin from the DMEA staff.

This letter will confirm that we are sending to Mr. Weissenborn, for your approval, a proposed Amendment No. 4, which differs from the proposed Amendment No. 4 that you returned to Mr. Weissenborn with your letter of February 9 in that the new proposed Amendment No. 4 does not substitute Annex III for Annex II. Item 4 thereof, however, extends the period for royalty payments in Annex II by one year; that is, the new Item 4, like the former Item 4, changes the period for royalty payments from 12 years to 13 years from the date of the contract.

With respect to the manner of computing royalty payable to the Government, you were advised that computation of royalty under the subject contract would depend in the case of your copper concentrates on the information provided by your smelter settlement sheets.

In the case of your cobalt concentrates, for the preliminary ship[illegible] we are agreeable to using the same value which you estimate as gross revenue to mining operations for income tax purposes. Such preliminary payments shall be subject to adjustment when the Internal Revenue Service shall have approved or adjusted your same estimated gross value.

Sincerely yours,

E. O. Millenbach

Administrator

MMMartin/ls
3/13/56

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
H. W. Davis, USBM
Code 800

P Y

Code 800

CALERA MINING COMPANY
730 Fifth Ave.

New York 19, N. Y.

E 645

March 1st, 1956

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Washington 25, D. C.

Dear Mr. Mittendorf:

Mr. A. E. Weissenborn has advised me that you will require a letter stating our reasons for objecting to wording in the proposed Amendment No. 4 to our Exploration Contract.

Will you please refer to the Memorandum of Understanding between Mr. E. B. Douglas and Mr. Weissenborn, under date of February 6th, 1956. As is stated therein, our objections are based on the fact that Annex III, which is a part of proposed Amendment No. 4, alters drastically the meaning of Article 9 of the original contract. May I illustrate this by using the following example of future royalty payments on production:

Assume grade of 0.71% Co(1), 1.31% Cu(1)
Mill recoveries 75% Co, 90% Cu

Terms of Original Contract:

Recovered Cobalt(2) per ton at mill 10.66# @ $1.35	-	$14.39
Recovered Copper (3) per ton at mill 23.58# @ .33	-	7.78
Net smelter returns		$22.17
Royalty @ 5% max.	=	1.11/ton
Royalty per month @ 26,000 tons/mo.		$28,900.00

Terms of Annex III of Proposed Amendment No. 4:

Annex III does not allow for cobalt concentrate transportation, refining costs, depreciation and metal marketing.

Recovered cobalt per ton at refinery 10.66#x.90x2.60	=	$24.94
Recovered copper per ton at mill 23.58#x.33	=	7.78
Gross returns		$32.72

/alty @ 5% max. = $ 1.64
oyalty per month @ 26,000 tons $42,640.00

(1) Per ore reserve grade
(2) Cobalt concentrates shipped to Calera Refinery, Garfield, Utah
(3) Copper concentrates to A.S.& R. Smelter, Garfield, Utah

The above comparative figures are estimates, of course, and will change with varying metal prices, recoveries, and refinery and smelting costs, but are indicative of the magnitude of royalties which may be involved with full production from the areas now being explored. A royalty increase of over 47% is indicated under the provisions of the proposed Amendment, in addition to the fact that the term of contract has been increased one (1) year, to a total of thirteen (13) years.

Actually there is little likelihood that we will not have paid off the full loan from production long before the thirteen-year period has elapsed. However, payment of royalties of the magnitude above-indicated over a short time period would be extremely burdensome in our high cost operation. We, therefore, request that the terms of Article 9 of the original contract be retained in Amendment No. 4.

Yours sincerely,

/s/ VINTON H. CLARKE
Vice-President

VHC:RF

ccs: Weissenborn
Douglas

GOVERNMENT COPY

AMENDMENT NO. 3

RECEIVED
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It is agreed this 19th day of August 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and

Calera Mining Company

(Docket No. DMEA 3143, cobalt-copper)

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E 645 of December 9 1953 between the parties hereto be modified and amended as described in Exhibit "F" attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be December 9 1953.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region ~~II~~ I, NW District, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum."

Executed in sextuplicate the day and year first above written.

CALERA MINING COMPANY
(Operator)

By E. B. [illegible]

THE UNITED STATES OF AMERICA

By: Wing G. Agnew, Acting Exec. Officer
~~Acting Executive Officer~~
DMEA Field Team, Region ~~II~~ I
Northwest District

RECEIVED
AUG 29 1955
U. S. G. S.
SPOKANE, WASH

RECEIVED
SEP - 2 1955

CALERA MINING COMPANY
Exploration Project Contract Idm-E645
Docket No. DMEA-3143 (cobalt-copper)

AMENDMENT NO. 3

Exhibit "F"

Changes and Modifications

In Exhibit "A" of the contract under Description of the Work, Stage II, Underground Work,

add

"800 feet of diamond drilling may be done at approximately 25-foot intervals in those areas where the vein is extensively faulted and close drilling may be required to indicate the continuity of the vein. Such drilling is to be done only with the approval of the Government."

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Exploration Project Contract Idm-E645
Calera Mining Company
Docket No. DMEA 3143 (cobalt-copper)

Justification for Amendment No. 3

Underground diamond drilling at 100-foot intervals may not pick up faulted vein segments if the offsetting faults cut the vein at small angles. Mineralized vein segments may be lost if drilling at 100-foot intervals is adhered to.

The cobalt ore also occurs in pods having a short strike length. It is in the interest of the Government to drill at shorter, even 25-foot, intervals if the presence of an ore body is indicated by the results of prior drill holes.

Verne C. Fryklund, Jr.

Verne C. Fryklund, Jr.

GOVERNMENT COPY

RECEIVED
SEP - 6 1955

AMENDMENT NO. 2

It is agreed this 16th day of August 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Calera Mining Company

(Docket No. DMEA-3143, cobalt-copper)

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E 645 of December 9 1953 between the parties hereto be modified and amended as described in Exhibit "F" attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be December 9 1953.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region ~~XX~~ I, Northwest District, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum."

Executed in sextuplicate the day and year first above written.

CALERA MINING COMPANY
(Operator)

By [signature]

THE UNITED STATES OF AMERICA

By: Wing C. Agnew, Acting Exec. Officer
~~Acting Exec. Officer~~
DMEA Field Team, Region ~~XX~~ I
Northwest District

RECEIVED
AUG 31 1955
U. S. G. S.
SPOKANE, WASH.

CALERA MINING COMPANY
Exploration Project Contract Idm-E645
Docket No. DMEA-3143 (cobalt-copper)

AMENDMENT NO. 2

Exhibit "F"

Changes and modifications

1. In Exhibit "A" of the contract under Description of the Work, Stage II, before next to the last paragraph:

add - "Rock bolts, not less than 6 feet in length may be used in lieu of normal timbering if the conditions warrant."

2. Under Agreed Unit Costs

delete	- "Normal timbering 5,000 feet at $7.00/ft."	$35,000.00
substitute	- "Normal timbering and/or rock bolting 1/ 5,000 ft. at $7.00/ft."	$35,000.00

add - "Footnote 1/"

1/ "Rock bolting shall be paid for at the rate of $3.54 for a bolt with plate and $4.04 for a bolt with a headboard placed, but payment for rock bolting shall not exceed $7.00 per linear foot of drift and crosscut rock bolted.

"If it is necessary to replace rock bolted sections with timber, only the difference between the actual cost per foot of rock bolting and the maximum cost of $7.00 per foot of ~~at~~ timber shall be paid."

agreed unit cost?

Exploration Project Contract Idm-E645
Calera Mining Company
Docket No. DMEA-3143 (cobalt-copper)

Justification for Amendment No. 2

The operator feels that in certain areas where conditions warrant their use, that rock bolting in lieu of timbering will aid him in advancing his exploration heading. He will be able to advance his headings concurrently with rock bolting, which cannot be done with timbering.

The Government will benefit, if rock bolting is used, by an increased rate of advance. This amendment will not increase the unit costs allowed in the contract.

A. L. Service

GOVERNMENT COPY

AMENDMENT NO. 1

It is agreed this 8th day of February 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and

Calera Mining Company

(Docket No. DMEA-3143, cobalt-copper)

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E 645 of December 9 1953 between the parties hereto be modified and amended as described in Exhibit "F" attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be December 9 1953.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region ~~XX~~ I, Northwest District, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum."

Executed in sextuplicate the day and year first above written.

CALERA MINING COMPANY
(Operator)

By E. B. Hanson

THE UNITED STATES OF AMERICA

By A. E. Weissenborn
A. E. Weissenborn, Exec. Officer
DMEA Field Team, Region ~~XX~~ I, NW Dist.

CALERA MINING COMPANY
Exploration Project Contract Idm-E645
Docket No. DMEA-3143 (cobalt-copper)

AMENDMENT NO. 1

Exhibit "F"

Changes and modifications:

1. In Exhibit "A" of the contract under Description of the Work, Stage I, Surface Diamond Drilling,

delete - "Surface Diamond Drilling"

substitute - "Surface and Underground Diamond Drilling"

delete - "approximately 8,700 feet of diamond drilling"

substitute - "8,576.5 feet of surface diamond drilling"

delete - "an estimated 1,700 feet" (of reaming and cementing)

substitute - "1,145 feet" (of reaming and cementing)

add paragraph- "Drill two underground drill holes totaling 664.38 feet.

"Hole 1 will be collared in the face of an intermediate drift off the 7100 level at approximate coordinates 15,190N, 4,687E at plus 20 degrees inclination, bearing N. 63° E.; the Government will not participate in the cost of the first 75 feet of Hole 1, which lies southwest of the DMEA boundary, as stated in Annex I of the contract.

"Hole 2 will be drilled from the face of an intermediate drift at approximate coordinates 15,077N, 4,975E at plus 20 degrees inclination, bearing N. 27° E.

"Sampling procedures, etc., shall be the same as those described above."

2. Under Estimated Costs of the Project, Agreed Unit Costs, Stage I,

delete	-	Surface Diamond Drilling - 8,700 feet @ $6.96/ft.	$60,552.00
substitute	-	Surface Diamond Drilling - 8,576.5 feet @ $6.96/ft.	59,692.44
delete	-	1,700 feet of reaming and cementing @ $2.50/ft.	4,250.00
substitute	-	1,145 feet of reaming and cementing @ $2.50/ft.	2,862.50
add	-	Underground Diamond Drilling - 664.38 feet @ $3.3822/ft.	2,247.06

Exploration Project Contract Idm-E645
Calera Mining Company
Docket No. DMEA-3143 (cobalt-copper)

Justification for Amendment No. 1

The diamond drilling outlined in this amendment will be used to explore for a vein which was found on the surface by trenching. The projection of this vein is within 200 to 300 feet from workings off the 7100 level. This vein can be explored at depth from these workings at less cost and with better results than from the surface locations. This amendment does not increase the costs allowed in the contract.

DMEA Form 14

Contract No. Idm-E 645

Docket No. 3043

DEPARTMENT OF THE INTERIOR

Terminated contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Obligation Document

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
December 9, 1953	I	Idaho	Cobalt-Copper

Name and Address of Operator: Galera Mining Company
730 Fifth Avenue
New York 19, New York

	Reserve	Obligation
Prior Amount	0	205,138.00
Increase	0	0
Decrease	0	99,274.12
Revised Amount	0	105,863.88

Remarks:

ALLEN S. DAKAN

(Name)

Allen S. Dakan, Chief
Operations Control and
Statistics Division

(Title)

Date Delivered to Bureau of Mines, Washington 8/28/57

16418

Docket No. DMEA 3163

Commodity Cobalt-Copper

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration, under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 645

Date of Contract or Amendment: December 9, 1953

Name and Address of Operator: Golden Mining Company
730 Fifth Avenue
New York 19, New York

Amount of Government participation $285,138.00

Percent of Government participation 70 %

Region: XI State: Idaho

(Name)
Jay B. Chambers, Chief
Contract Administration and
Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington. December 9, 1953

13908

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET NO. DM[redacted] 3143

COMMODITY Cobalt-Copper

Government's Copy

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Idm-E645

EXPLORATION PROJECT CONTRACT [1]

IT IS AGREED this 9th day of December, 195 3, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Calera Mining Company, a corporation duly organized and existing under and by virtue of the laws of the State of New Jersey, Cobalt, Idaho

hereinafter called the "Operator," as follows: ~~and as set forth in Annexes I, II and III attached~~ hereto and made a part hereof

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Idaho, County of Lemhi, described as ~~follows~~ [3] set forth in Annex I and on Map No. 2

the Operator represents and undertakes: [4]

(*a*) That the Operator is the owner, in possession and entitled to possession, ~~[illegible]~~ and there are no encumbrances

(*b*) ~~[illegible]~~.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 70 days from the date of this contract shall commence work on a project of exploration for [5] Cobalt-Copper

in or upon the described land; and shall bring the project to completion within a period of 24 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following: and also the costs referred to in Article 13.

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related ~~initial~~ allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A." All of these items are allowable maximums.

(7) *Miscellaneous.*—Repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance and payroll taxes.

(8) *Contingencies.*—Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A," as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and [illegible]
[2] State name, address, and nature of [illegible]
[3] [illegible]

(*b*) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay 70 percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $285,138.00, which is 70 percent of $407,340.00, the agreed, estimated total cost of the project in which the Government will participate; *Provided,* that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations. See Annex II, substituted for Article 9.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 *years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator. *Number "10" is replaced by "12"

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* To the extent that costs are set forth in Exhibit "A" as "agreed unit costs," they are in lieu of the actual costs that would otherwise be allowable costs of the project as provided in Article 6(a) of the contract form. (and see Annex III)

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

CALERA MINING COMPANY
(Operator)

By [signature]
Vice President

By [signature]
Administrator, Defense
Minerals Exploration
Administration

, certify that I am the secretary
, who signed
of said corporation;

EXPLORATION PROJECT CONTRACT
CALERA MINING COMPANY
DOCKET NO. DMEA-3143

ANNEX I

With respect to the land referred to in Article 2 of the contract form, the Calera Mining Company owns the following 17 patented and 12 unpatented mining claims, which are recorded in the Court House at Salmon, Lemhi County, Idaho.

Patented Mining Claims	Patent No.
Anna	1592
Blacktail	1592
Blacktail No. 2	1592
Brown Bear	1592
Buckeye	1592
Catherine	1592
Dandy	1592
Dandy No. 2	1592
Idaho	1592
Iowa	1592
Lemhi	1592
St. Louis	1592
McKinley	1980
Indian Quartz	2009
Anaconda*	2557
Copper Gold	2557
Panther*	2557

*Only those portions of the Anaconda and Panther claims which overlap the Copper Gold claim are included in this agreement.

Unpatented Mining Claims	Book No.	Page No.
Jaycee	1	607
Chelan	2	64
Chelan No. 1	2	63
Chelan No. 2	2	251
Chelan No. 3	2	252
Chelan No. 7	2	263
Chelan No.15	2	283

Unpatented Mining Claims	Book No.	Page No.
Chelan No. 4	3	519-520
Chelan No. 5	3	520
Old Gold	3	2
Chelan No. 57	4	25
Chelan No. 85	4	221
Jaycee Amended	4	222
Old Gold Amended	4	229

Should the Operator obtain an interest in the Queen claim set forth on Map No. 2, it shall be included in the claims listed in Article 2.

All minerals mined or produced from presently developed ore bodies, with their extensions to depth, occurring below planes Nos. 1, 2, 3, and 4, hereinafter described (the traces of which on the 7100 and 7400 Levels are shown on Maps 2, 3, and 4) are exempt from the royalty payment provisions of Article 9; all other minerals mined or produced from the claims set forth in this Annex I are subject to these royalty payment provisions.

Plane #1. Strikes E-W, dips 38° N.; intersects the 7400-foot level at coordinate 17290 N. (coordinates are shown on the attached maps) and the 7100-foot level at coordinate 17670 N.; is bounded on the west by vertical planes through the southwest side of the Blacktail No. 2; is bounded on the east by its intersection with plane #2 at coordinates 17290 N., 3340 E. on the 7400-foot level, and coordinates 17670 N., 3360 E. on the 7100-foot level.

Plane #2. Strikes S. 30° E. dips 55° NE; goes from its intersection with plane #1, at coordinates 17290 N., 3340 E. on the 7400-foot level, and 17670 N., 3360 E. on the 7100-foot level, S. 30° E, to its intersection with plane #3, at coordinates 14910 N., 4720 E. on the 7400-foot level, and 15100 N., 4850 E. on the 7100-foot level.

Plane #3. Strikes S. 77° E., dips 55° NE; goes from its intersection with plane #2 at coordinates 14910 N., 4720 E. on the 7400-foot level, and 15100 N., 4850 E. on the 7100-foot level, S. 77° E, to the intersection with plane #4, at coordinates 14640 N., 5900 E, on the 7400-foot level, and 14860 N., 5890 E. on the 7100-foot level.

Plane #4. Strikes S. 25° E., dips 75° NE; goes from its intersection with plane #3, at coordinates 14640 N., 5900 E. on the 7400-foot level, and 14860 N., 5890 E. on the 7100-foot level, S. 25° E. to its intersection with a vertical plane through the east side of the Idaho claim, and the north side of the Monitor claim and the west side of the Little Queen claim.

ANNEX II

The following provisions are in lieu of Article 9 :

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten *years (or other period fixed by this contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

(a) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

*Wherever the number "10" appears, it is replaced by the number "12".

ANNEX III */

Materials and Supplies. For the purpose of determining the Government's interest in materials or supplies remaining upon any termination of the work, they shall be considered in groups or categories (such as pipe, or explosives, or rails, or drill steel), and if the original cost of the remaining unexpended portion of any such group or category exceeded $50, the Government shall have an interest therein as provided in Article 11 of the contract form.

Equities in Equipment. Unless expressly permitted by provisions in Exhibit "A", the operator shall not procure equipment or any other item under a rental-purchase agreement, an installment-purchase agreement, any agreement which creates or builds up an equity or interest in the thing procured which can be converted to legal title only by further payment or some other consideration, or any agreement other than for straight rental or cash purchase and delivery.

Preservation of Property. Until the final disposal of any equipment or other property in which the Government has an interest or equity, the operator shall preserve and protect same for the mutual best interests of the parties, any reasonable and necessary cost thereof to be treated as an allowable cost of the exploration work to which the Government will contribute.

*/ The provisions in this annex apply only to materials and supplies, equipment, and property to the cost of which the Government has contributed on an actual cost basis; they have no application to costs contributed to on a unit-cost basis.

The Operator's obligation to bring the project to completion continues only as long as the units of work provided for in the contract are sufficient to accomplish the work required, and as long as the accumulated costs of the work, whether unit costs or actual costs, do not exceed the total estimated.

EXPLORATION PROJECT CONTRACT
CALERA MINING COMPANY
DOCKET NO. DMEA-3143

EXHIBIT "A"

Description of the Work

The following maps are attached to the contract:

Map No. 1. Index map showing location of the Blackbird Mining District in Lemhi County, Idaho.

Map No. 2. Claim map of the claims owned by the Calera Mining Company and the Northfield Mines, outlining claims included in the exploration area and traces of cut-off planes or boundary lines (Annex I) separating the present production area from the exploration area.

Map No. 3. Underground workings of the Calera Mining Company in plan and longitudinal section, indicating proposed underground exploration work and traces of cutoff planes or boundary lines (Annex I) separating the present production area from the exploration area.

Map No. 4. General surface map showing location of proposed trenching and surface diamond drill holes and traces of cutoff planes or boundary lines on the 7100 and 7400 Levels separating the present production area from the exploration area.

Nine section maps (A-A') (B-B') (C-C') (D-D') (E-E') (F-F') (G-G') (H-H') (I-I'), showing inclination and depth of proposed diamond drill holes.

This project will be divided into the following two stages:

Stage I

In this stage as indicated on Map No. 4, the work will consist of:

Trenching:

Surface trenching with a D-7 bulldozer, or equivalent, to uncover outcrops not in excess of 864 hours. This work will be done under proper supervision and with necessary surveying and mapping, and will consist of 12 trenches having a total length of approximately 9,000 feet. The trenches shall be sampled in the mineralized area and it is estimated that approximately 700 samples will be necessary.

Surface Diamond Drilling:

This work will consist of approximately 8,700 feet of diamond drilling in 20 holes of AX size, to be performed under proper supervision and with necessary surveying, mapping, and logging. Sludge samples shall be taken at approximately 5-foot intervals, and the number of core samples necessary shall be determined by the results obtained from the sludge samples. Representative portions of the residue of the cores, after obtaining core samples, shall be preserved for Government inspection in core boxes or sample sacks. It is estimated that 1,700 sludge samples will be necessary and approximately 700 core samples will be needed, and there will be an estimated 1,700 feet of reaming and cementing.

Stage II

In this stage, as indicated on Maps Nos. 3 and 4, the work will consist of:

Underground Work

On the 7,400 level at coordinates 17290 N, 3025 E, on the Brown Bear claim, a drift 5 feet by 7 feet in the clear shall be driven 500 feet north, and then approximately 1,500 feet N. 35° W. This work may be done concurrently with that in Stage I, or prior thereto.

If and when the surface trenching and diamond drilling has advanced sufficiently and if mineralization is indicated, then the Operator with the approval of the Government shall (1) start a crosscut, 5 feet by 7 feet in the clear, at 15020 N, 4760 E. on the 7,100 level, approximately 1,200 feet in length on a course N 47° E., and then, at a point to be selected by the Operator with the approval of the Government, a drift 5 feet by 7 feet in the clear shall be driven approximately 800 feet northerly along the mineralized zone, and (2) shall drive a crosscut 5 feet by 7 feet in the clear from 17790 N, 3025 E. on the 7,400 level approximately 800 feet, and then drift northerly 5 feet by 7 feet in the clear approximately 1,200 feet.

All drifts and crosscuts shall be sampled at approximately 5-foot intervals, with one or two samples to each section as justified. Approximately 2,400 samples should be taken.

Drifts and crosscuts shall be timbered where necessary. It is estimated that 5,000 feet of the 6,000 feet of drifting and crosscutting will require timbering. In addition it is estimated that this ground

will also require, out of the 5,000 feet, 750 feet of heavy timbering and 500 feet of spiling.

When the drifts and crosscuts have advanced sufficiently to allow for setups, then approximately 10,500 feet of underground diamond drilling under proper supervision and with the necessary surveying, mapping, and logging, shall be done on both sides of the drifts and crosscuts, where justified. These holes shall be at approximately 100-foot intervals and the location, course, and inclination shall be selected by the Operator with the approval of the Government. The depth will be dependent on the mineralization indicated by the preceding work. These drill holes shall be completely sampled and approximately 3,500 samples should be taken. Representative portions of the residue of the cores, after obtaining the core samples, shall be preserved for Government inspection in core boxes or sample sacks.

Estimated Costs of the Project

Agreed Unit Costs

The Government will contribute to the costs of the work listed below on the basis of the agreed unit costs specified therefor, as they accrue, in lieu of actual costs, for a period of one year from the date of this contract, and thereafter these unit costs will continue unless and until the Government, at its option, notifies the Operator that the Government will contribute to the incompleted portions of any of the work on the basis of actual costs as set forth in Article 6(a) of the contract form, but the schedules there referred to are waived except as set forth below under the heading "Estimated Actual Costs of Work that may remain incompleted if and when the Government exercises its option to convert to actual costs."

That work to which the Government will contribute on the basis of agreed unit costs may be performed by independent contractors without reference to the provisions relating to independent contracts and contractors in Articles 4(a) and (b) and 6(a)(1) of the contract form.

Stage I

Trenching - 864 hours @ $11.878/hr. (rounded to)	$10,263.00
Surface Diamond Drilling - 8,700 feet @ $6.960/ft.	60,552.00

1,700 feet of reaming and cementing @ $2.50/ft.	$ 4,250.00	
Assaying		
3,100 assays @ $3.00/each (Cobalt and Copper)	9,300.00	
Stage II		
Drifting and Crosscutting		
6,000 feet @ $35.535/ft.	213,210.00	
Timbering		
Normal timbering 5,000 feet @ $7.00/ft.	35,000.00	
Heavy timbering 750 feet (of the 5,000 feet) @ $7.00/ft.,additional	5,250.00	
Spiling 500 feet (of the 5,000 feet) @ $20.00/ft.,additional	10,000.00	
Framing 1,150 sets of timber @ $5.48/set, complete with blocking, lagging,and wedges	6,302.00	
Underground Diamond Drilling		
10,500 feet @ $3.3822/ft.	35,513.00	
Assaying		
5,900 assays @ $3.00/each (Cobalt and Copper)	17,700.00	
Total Agreed Unit Costs		$407,340.00
Government Participation @ 70%		$285,138.00

Estimated Actual Costs of Work that may remain Incompleted, if and when the Government Exercises its Option to Convert to Actual Costs

(1) Independent Contracts

All or any element of the remaining work may be performed by independent contractor upon amendment of Exhibit "A" as provided for in Articles 4 and 6 of the Contract form, the Government's approval of any such independent contract being required.

(2) Labor, Supervision, Consultants

Labor

Schedule and Estimate of cost waived

Supervision

(Includes Superintendent, foreman)
$500.00 per month

Consultants

None

(3) Operating Materials and Supplies

Schedule and estimate of cost waived

(4) Operating Equipment

To be purchased

None

To be rented

None

To be furnished by Operator

	Value
1 - 5-ton Plymouth Locomotive	$7,287.05
2 - Eimco 12B Mucking Machines	5,674.40

		Value	
15 -	C. S. Cars - 30 cubic foot Rocker Dump Cars	$3,660.00	
2 -	Mancha 1½-ton locomotives	6,690.96	
4 -	Batteries for above locomotives	5,566.80	
2 -	Charging panels	1,821.96	
2 -	A.M.D. car transfers	900.00	
1 -	Buffalo Forge Blower, 15 H.P., or equivalent	375.00	
1 -	Clarage Blower, 7½ H.P., or equivalent	275.00	
	Starting equipment for blowers	175.00	
2 -	Timber trucks	236.78	
4 -	Jackleg type pusher drills @ $505.00/ea.	2,020.00	
4 -	Line oilers @ $17.54/ea.	70.16	
1 -	R48 Stoper	670.00	
1 -	Water pump	153.02	
1 -	Track jack and 1 rail bender	90.00	
	Total		$35,666.13

The Operator will maintain and keep the above equipment in good repair and shall receive for its use while full operations under the contract are in progress a depreciation allowance of $595.00 per month.*

(5) Rehabilitation and Repairs

None

(6) New Buildings, Improvements, Installations

None

(7) Miscellaneous

Schedule and estimate of cost waived.

(8) Contingencies $5,000.00

Total Estimated Costs	1/ $407,340.00*
Government Participation at 70%	$285,138.00*

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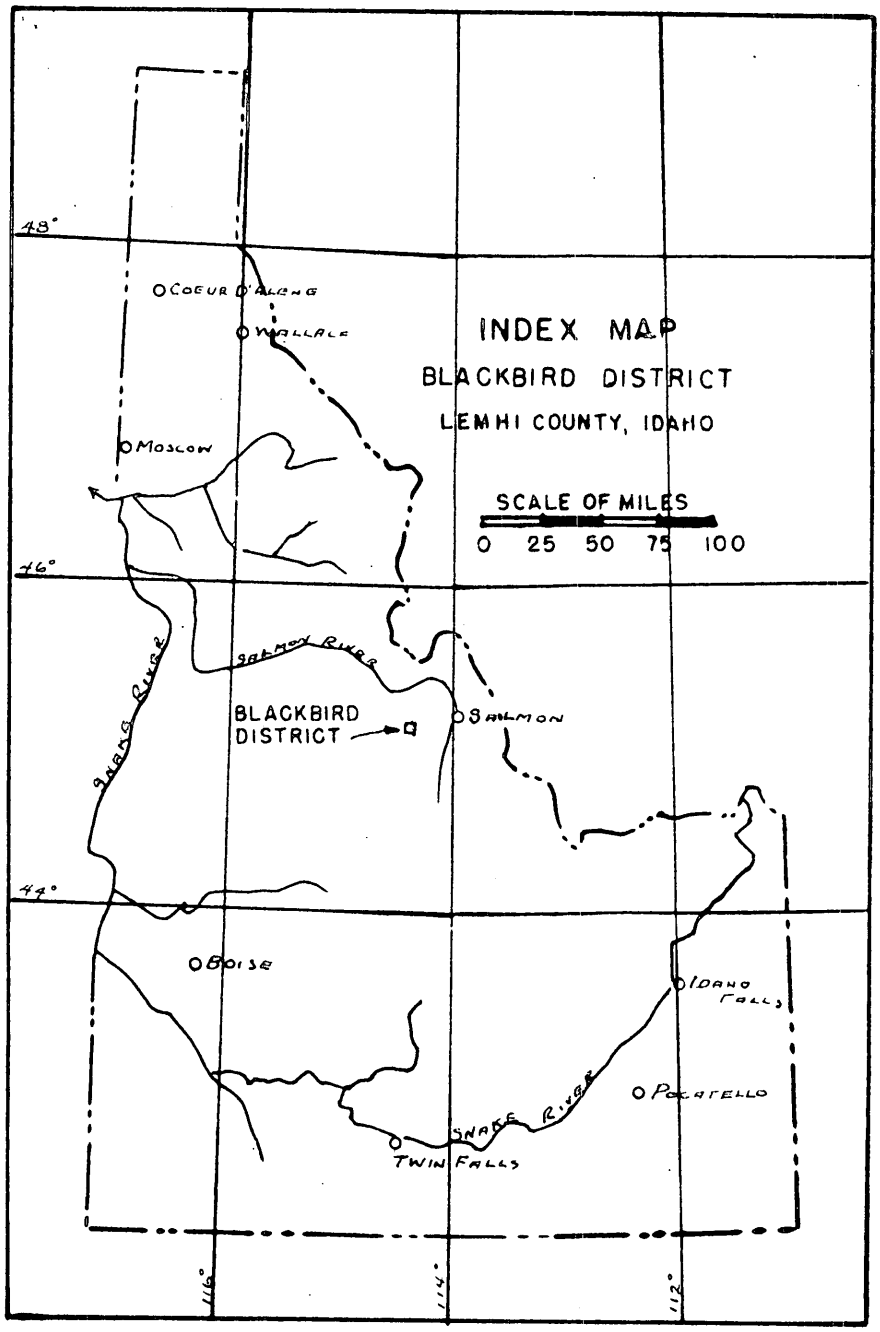
* Indicates allowable maximum.

1/ This sum will be apportioned between agreed unit costs and actual costs as they are determined; any excess over this total shall be for the sole cost of the Operator.

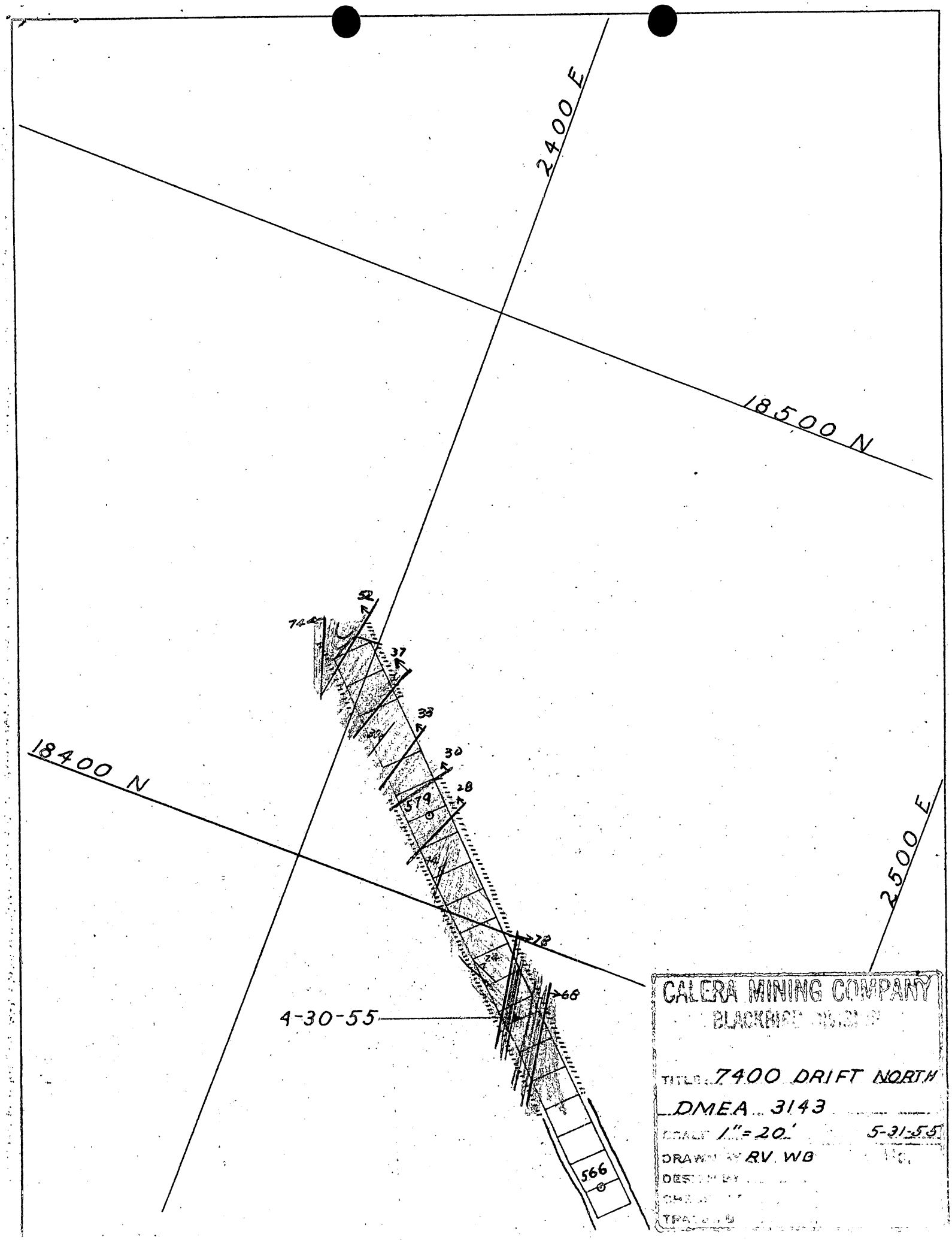


MAP No. 1 DMEA-3143

CALERA MINING COMPANY

BLACKBIRD DIVISION

COBALT, IDAHO


2400 E
18500 N
18400 N
2500 E
74
32
37
33
30
28
579
28
68
4-30-55
566
CALERA MINING COMPANY
BLACKBIRD MINES
TITLE 7400 DRIFT NORTH
DMEA 3143
SCALE 1" = 20'
5-31-55
DRAWN BY R.V. WB
DESIGNED BY
CHECKED BY
TRACED BY

RECEIVED
OCT - 8 1956

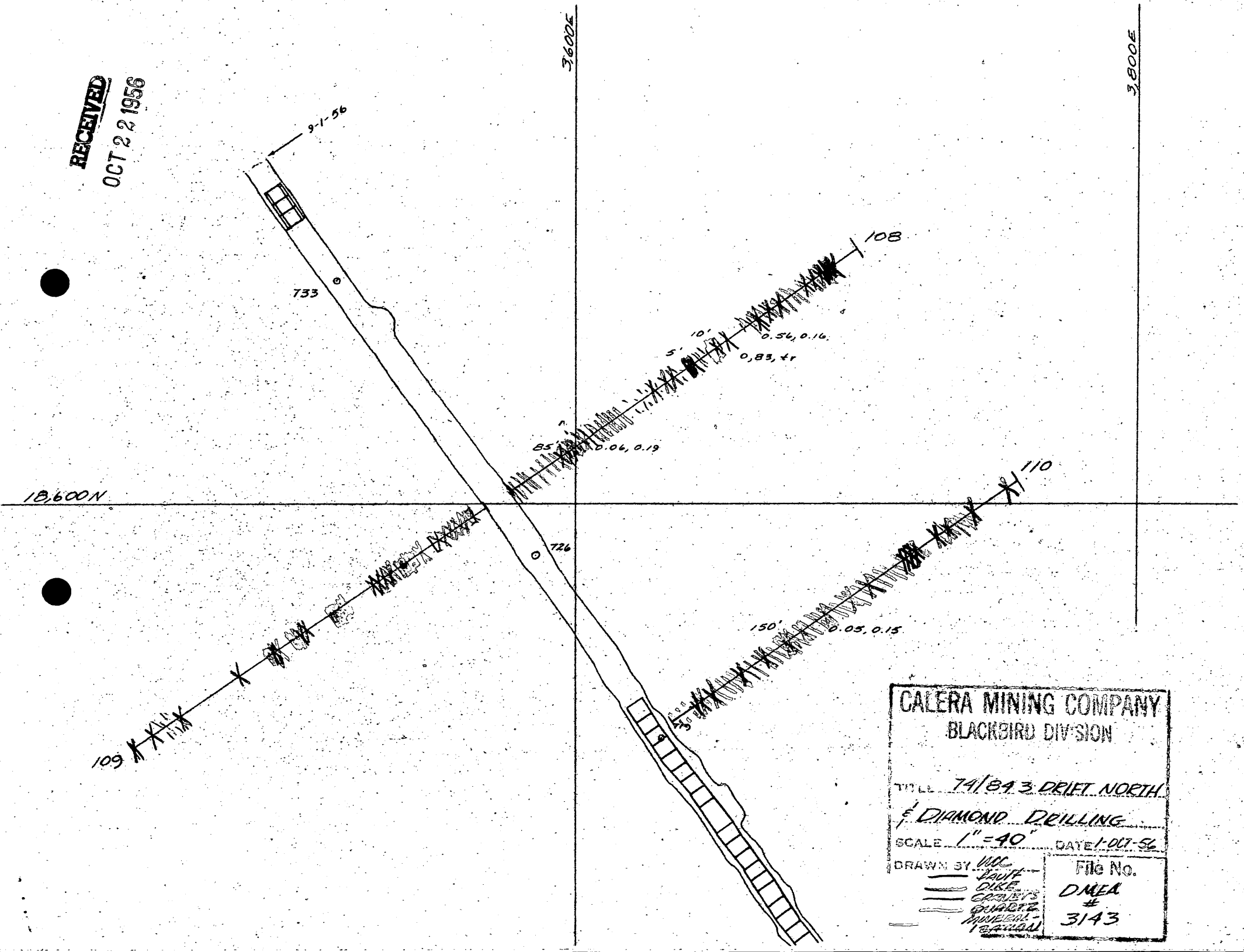
8-1-56

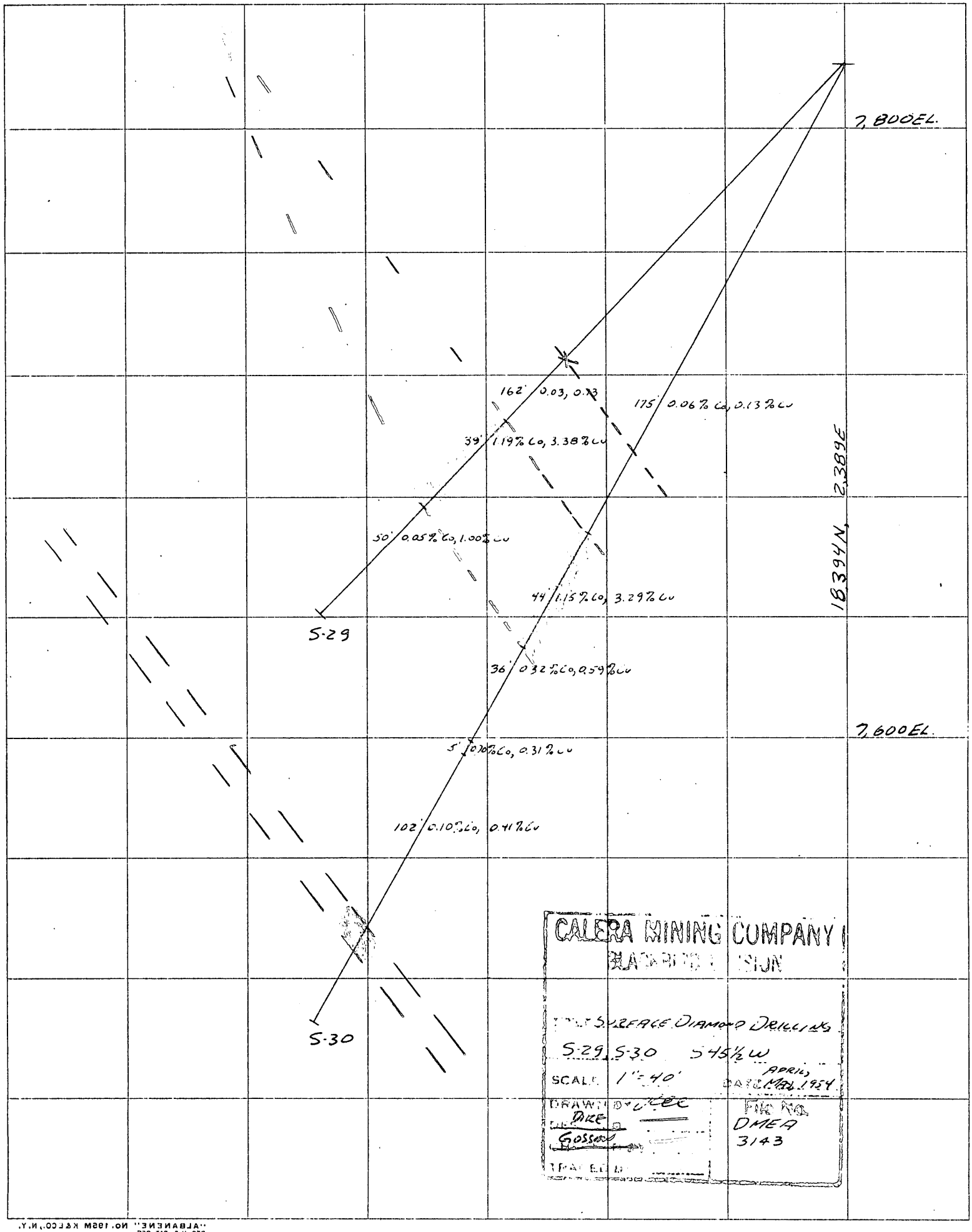
CALERA MINING COMPANY
BLACKBIRD DIVISION

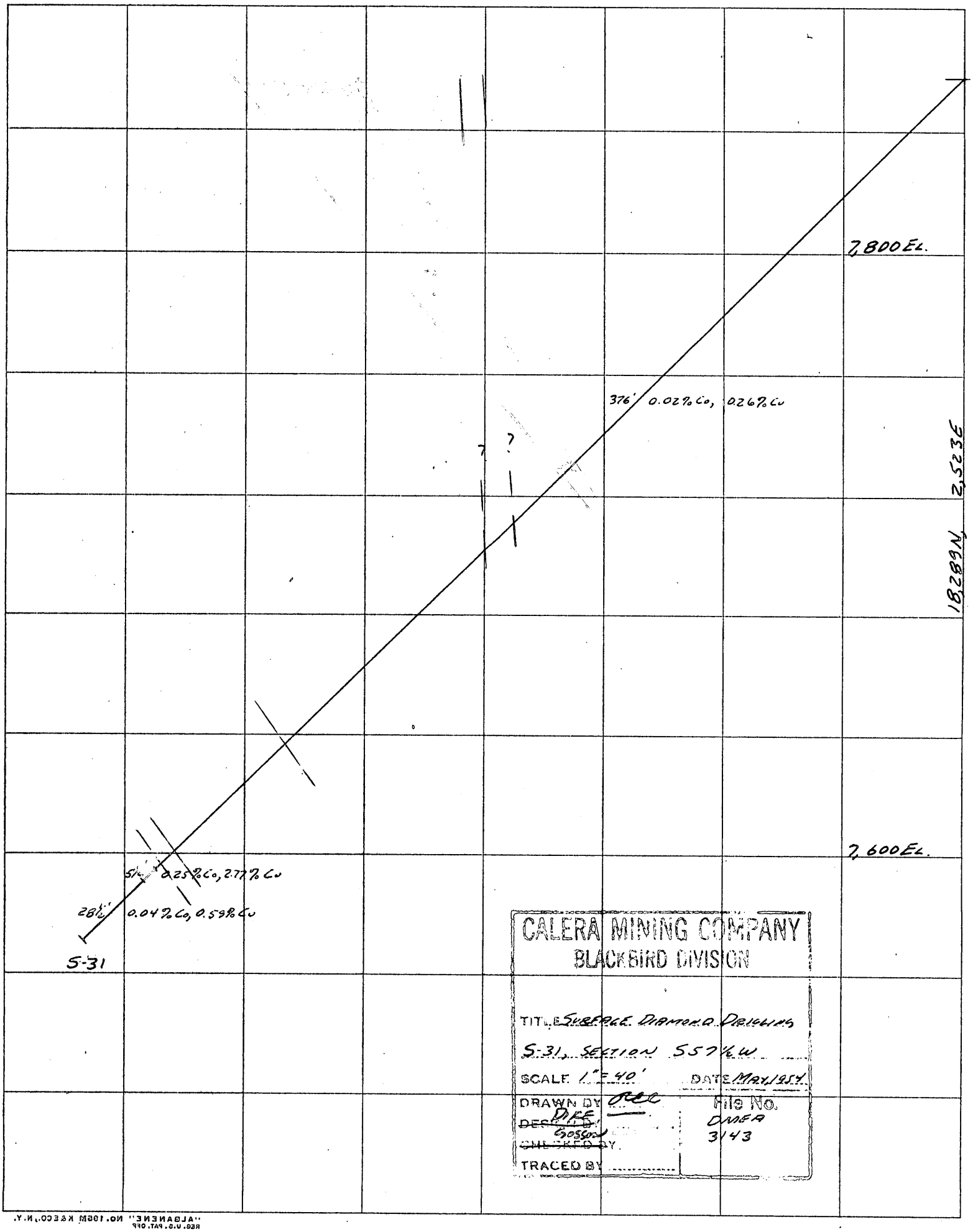
TITLE 741893 M.W. D.N.
DMEA 3143
SCALE 1" = 30'
DRAWN BY RK
DATE DRAWN
CHECKED BY
APPROVED BY

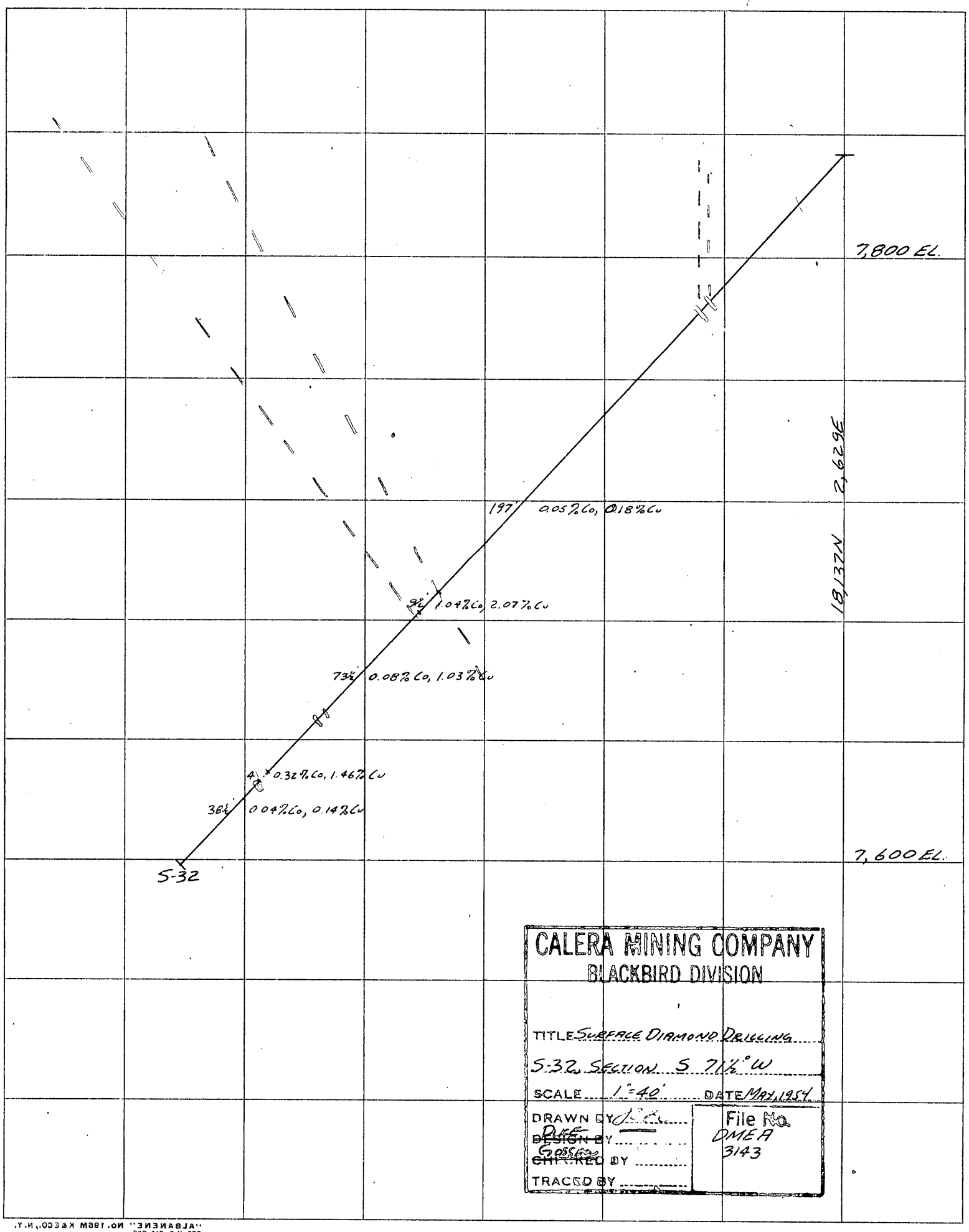
File No.
DMEA
3143

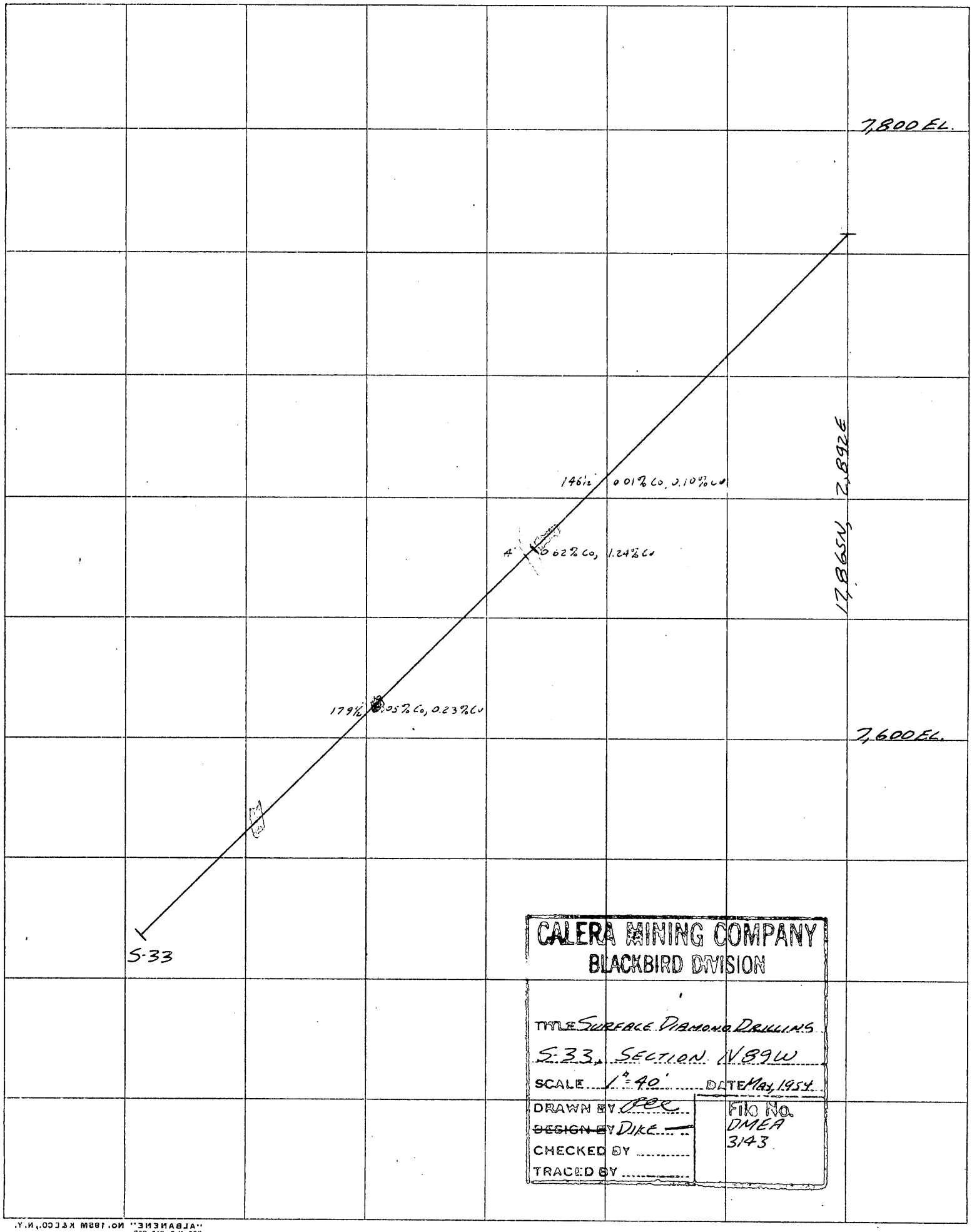
RECEIVED
OCT 22 1956

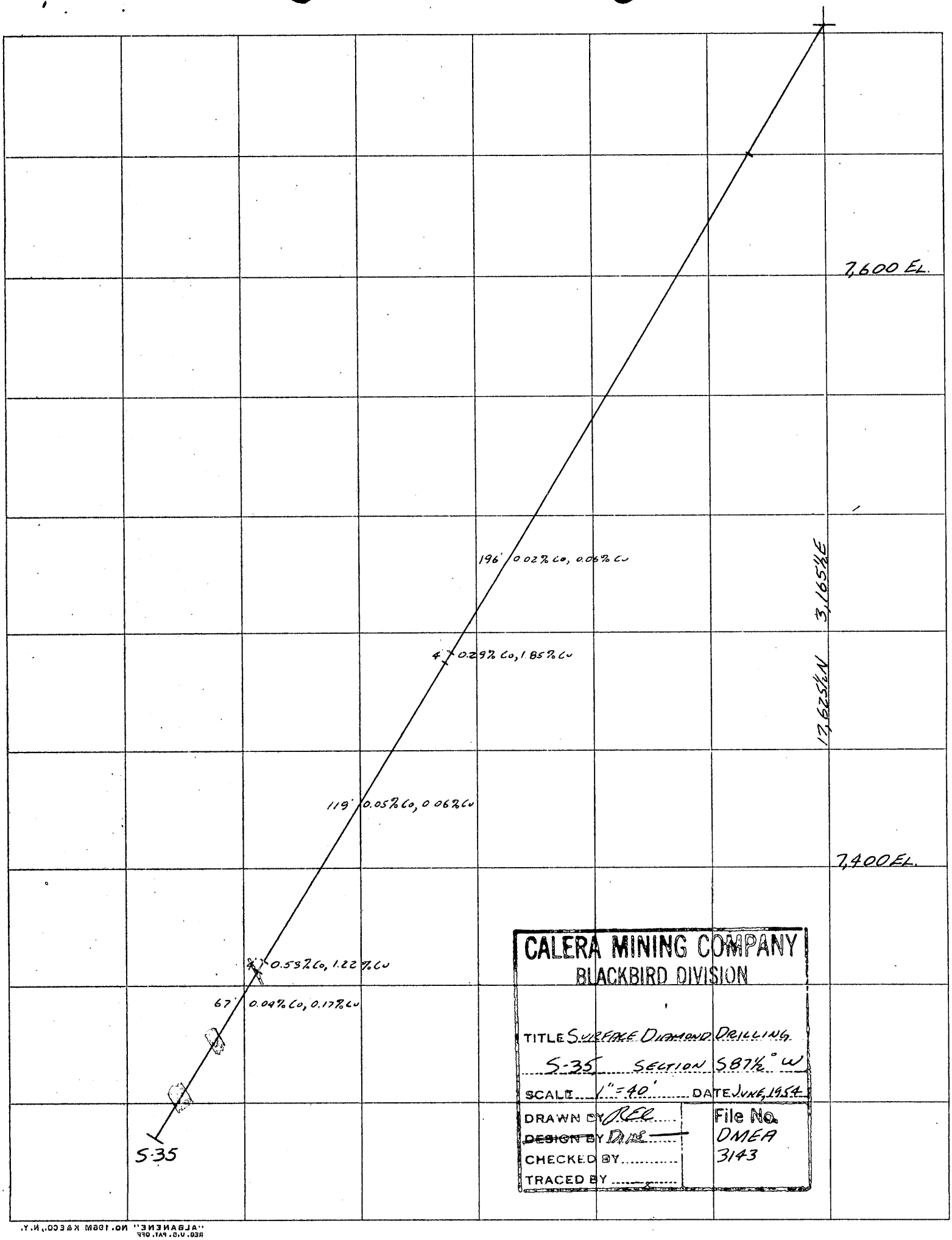


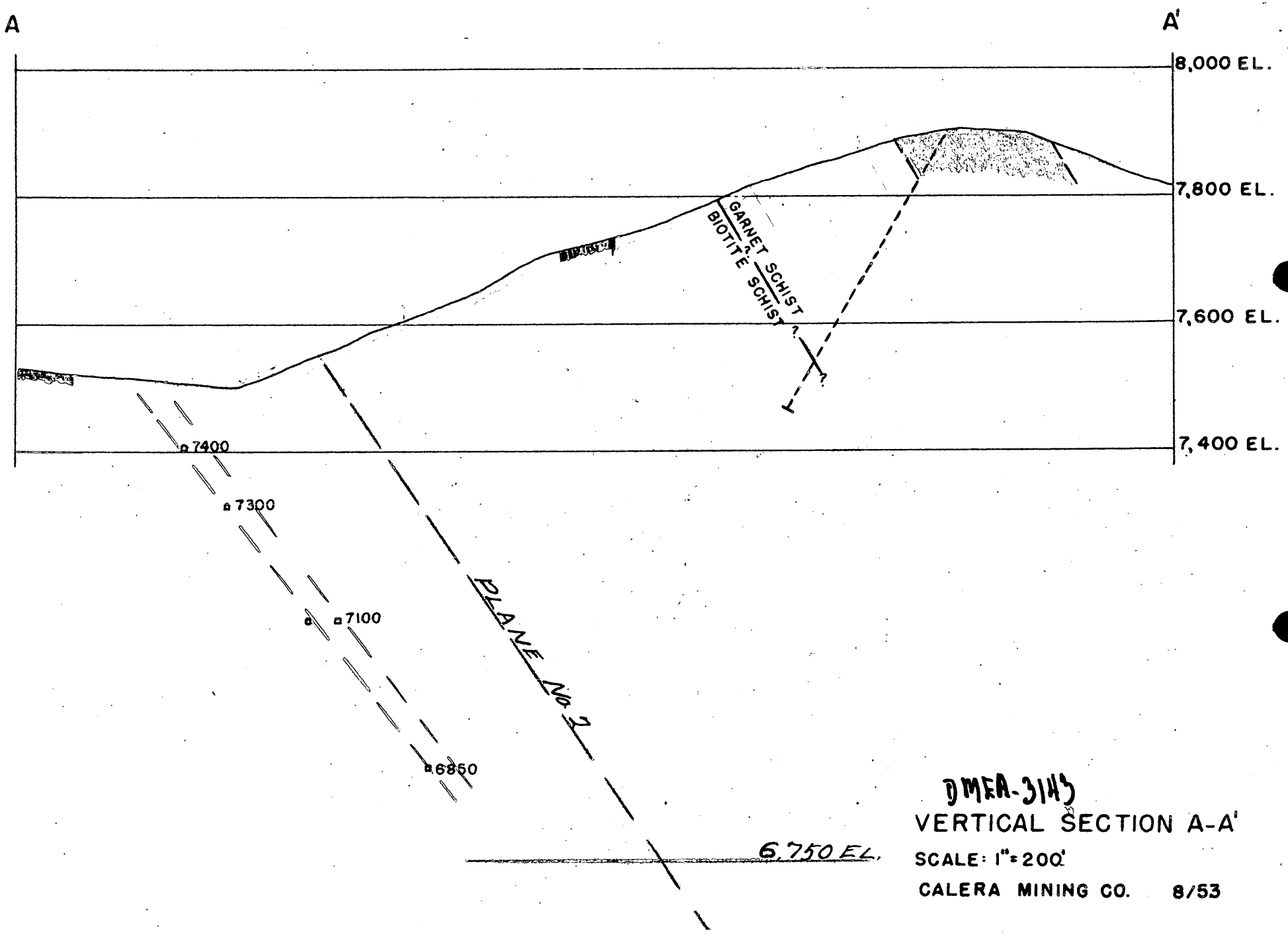

7,800EL.
162' 0.03, 0.73
175' 0.06% Co, 0.13% Cu
39' 1.19% Co, 3.38% Cu
2,389E
18,394N.
50' 0.05% Co, 1.00% Cu
44' 1.15% Co, 3.29% Cu
S-29
36' 0.32% Co, 0.59% Cu
7,600EL.
5' 0.10% Co, 0.31% Cu
102' 0.10% Co, 0.41% Cu
S-30
CALERA MINING COMPANY
SURFACE DIAMOND DRILLING
S-29, S-30 S 45½ W
SCALE 1" = 40'
DATE April, 1954
DRAWN BY
DIRE
GOSSOW
FILE NO.
DMEA
3143


7,800 EL.
376' 0.02% Co, 0.26% Cu
?
2,523 E
18,289 N
7,600 EL.
51½' 0.25% Co, 2.77% Cu
28½' 0.04% Co, 0.59% Cu
S-31
CALERA MINING COMPANY
BLACKBIRD DIVISION
TITLE SURFACE DIAMOND DRILLING
S-31, SECTION 557½W
SCALE 1" = 40'
DATE MAY, 1954
DRAWN BY
DRF
GOSSON
TRACED BY
File No.
DMFA
3143


7,800 EL.
2,629E
18,137N
197' 0.05%Co, 0.18%Cu
94' 1.04%Co, 2.07%Cu
73½' 0.08%Co, 1.03%Cu
4' 0.32%Co, 1.46%Cu
36½' 0.04%Co, 0.14%Cu
S-32
7,600 EL.
CALERA MINING COMPANY
BLACKBIRD DIVISION
TITLE Surface Diamond Drilling
S-32 Section S 71½° W
SCALE 1"=40'
DATE May, 1954
DRAWN BY
DESIGN BY
CHECKED BY
TRACED BY
File No.
DMEA
3143


7,800 EL.
146½' 0.01% Co, 0.10% Cu
4' 0.02% Co, 1.24% Cu
179½' 0.05% Co, 0.23% Cu
7,600 EL.
17,865N, 2,892E
S-33
CALERA MINING COMPANY
BLACKBIRD DIVISION
TITLE SURFACE DIAMOND DRILLING
S-33, SECTION N89W
SCALE 1" = 40' DATE May, 1954
DRAWN BY OEC
~~DESIGN BY~~ DIKE
CHECKED BY
TRACED BY
File No. DMEA 3143


7,600 EL.
196' 0.02% Co, 0.06% Cu
3,165'½E
4' 0.29% Co, 1.85% Cu
17,625'½N
119' 0.05% Co, 0.06% Cu
7,400 EL.
4' 0.53% Co, 1.22% Cu
67' 0.04% Co, 0.17% Cu
S-35
CALERA MINING COMPANY
BLACKBIRD DIVISION
TITLE SURFACE DIAMOND DRILLING
S-35 SECTION S87½° W
SCALE 1" = 40' DATE JUNE, 1954
DRAWN BY RER
~~DESIGN BY~~ DMEA
CHECKED BY
TRACED BY
File No.
DMEA
3143

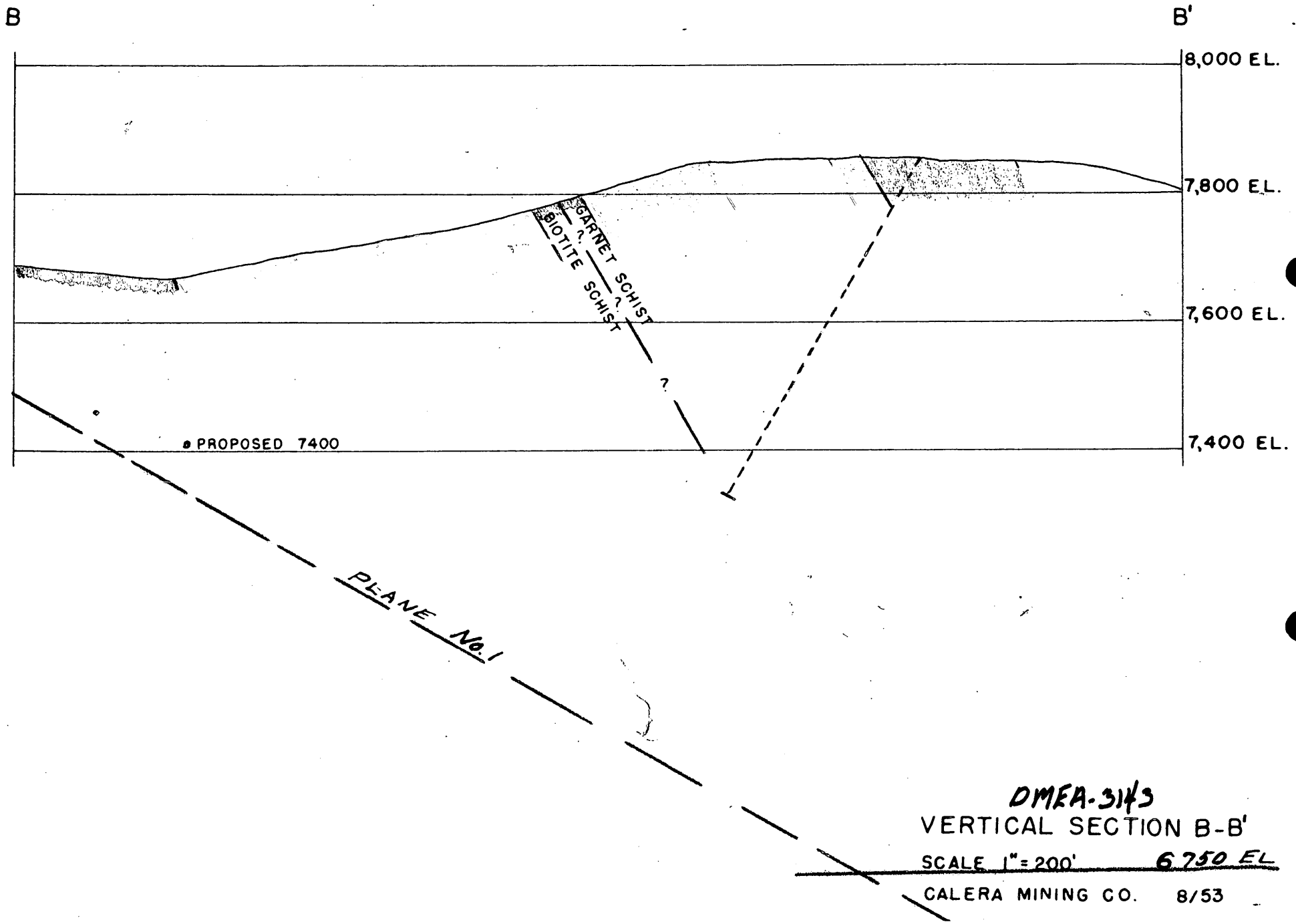


DMEA-3143

VERTICAL SECTION A-A'

SCALE: 1" = 200'

CALERA MINING CO. 8/53

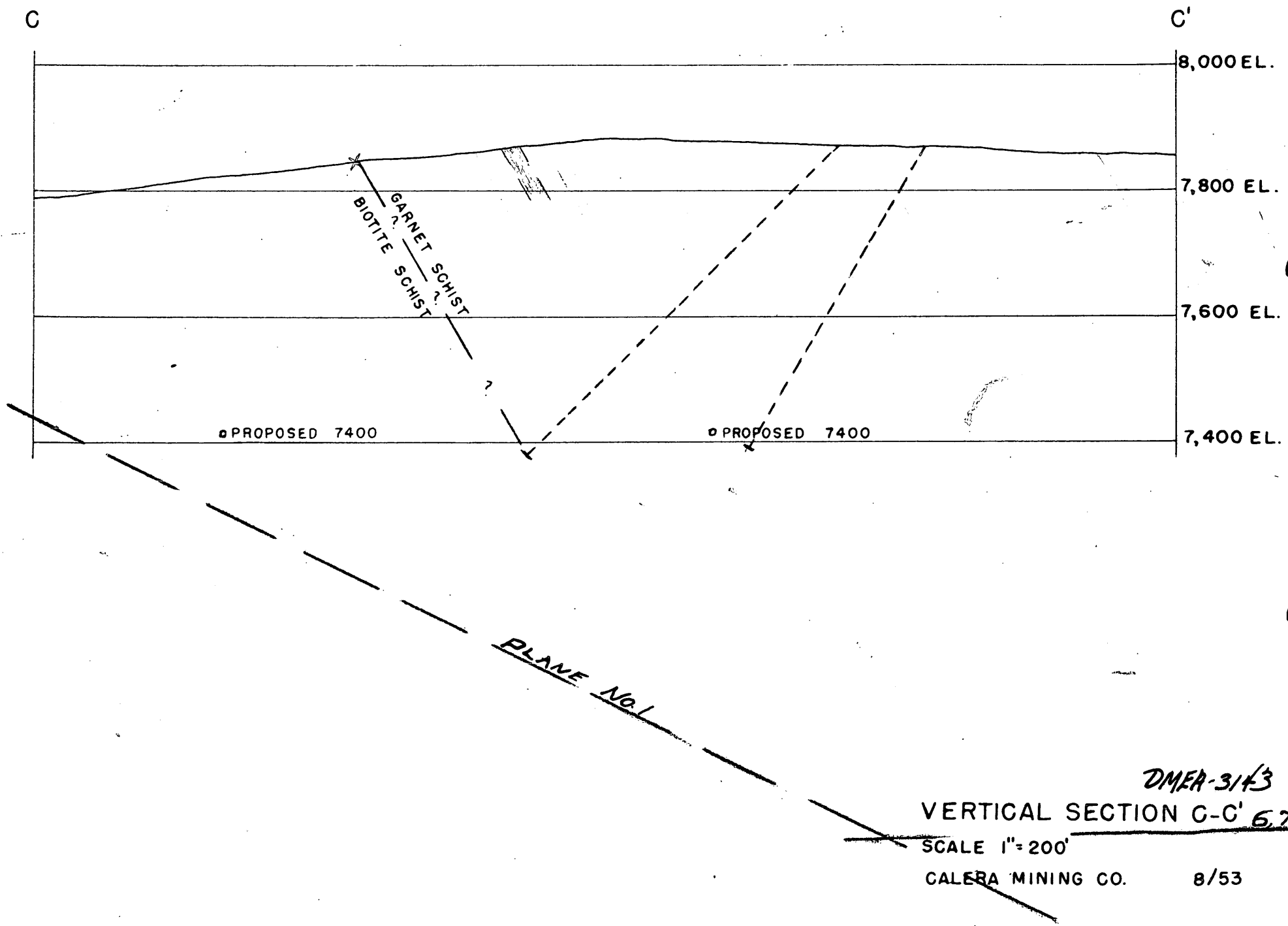


DMEA-3143

VERTICAL SECTION B-B'

SCALE 1" = 200' 6,750 EL

CALERA MINING CO. 8/53

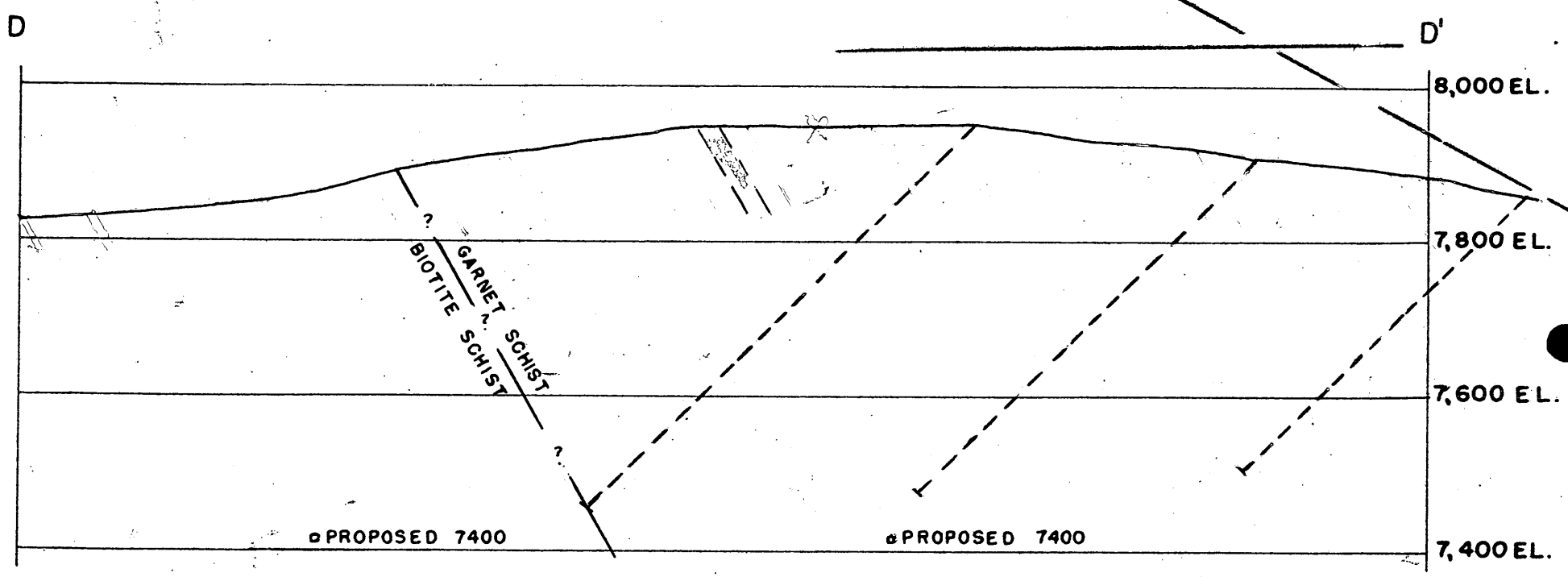


DMER-3143

VERTICAL SECTION C-C' 6,750 EL

SCALE 1" = 200'

CALERA MINING CO. 8/53



PLANE No. 1

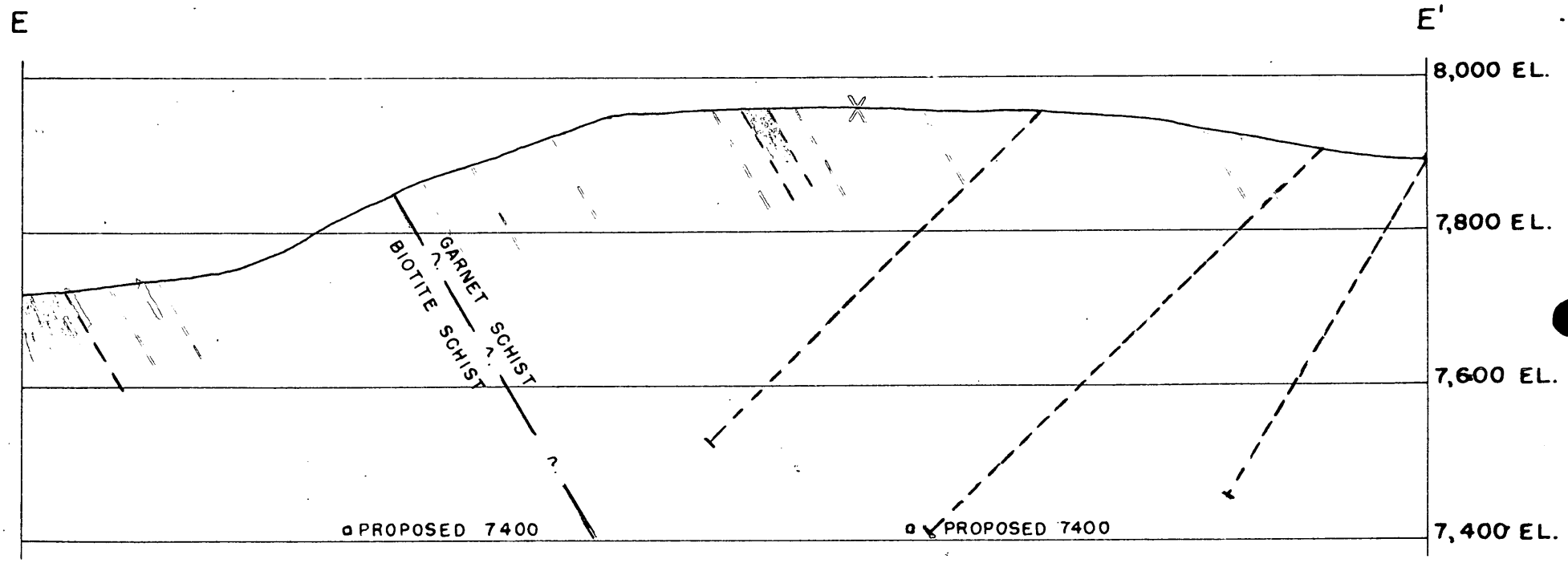
6,750 EL

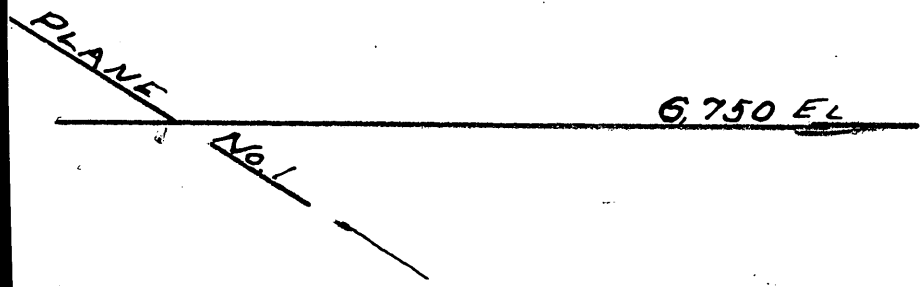
DMEA-3143

VERTICAL SECTION D-D'

SCALE 1"=200'

CALERA MINING CO. 8/53



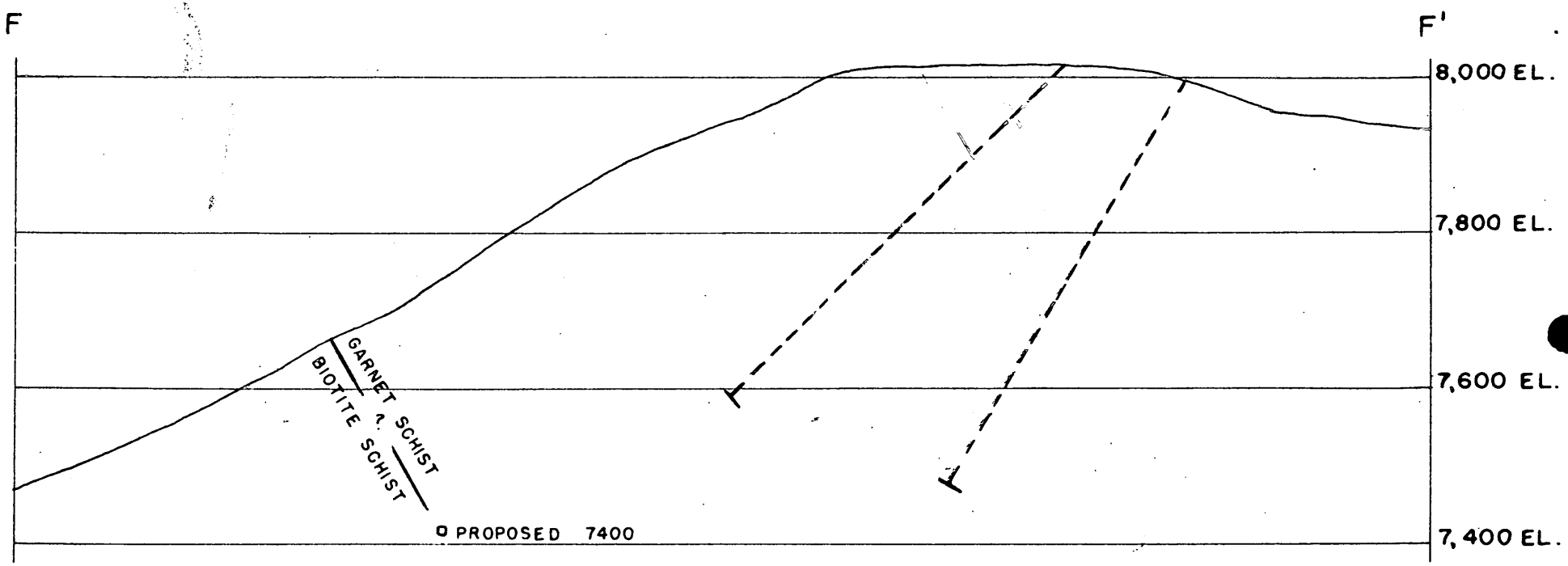


DMEA-3143

VERTICAL SECTION E-E'

SCALE 1"=200'

CALERA MINING CO. 8/53



DMEA-3143

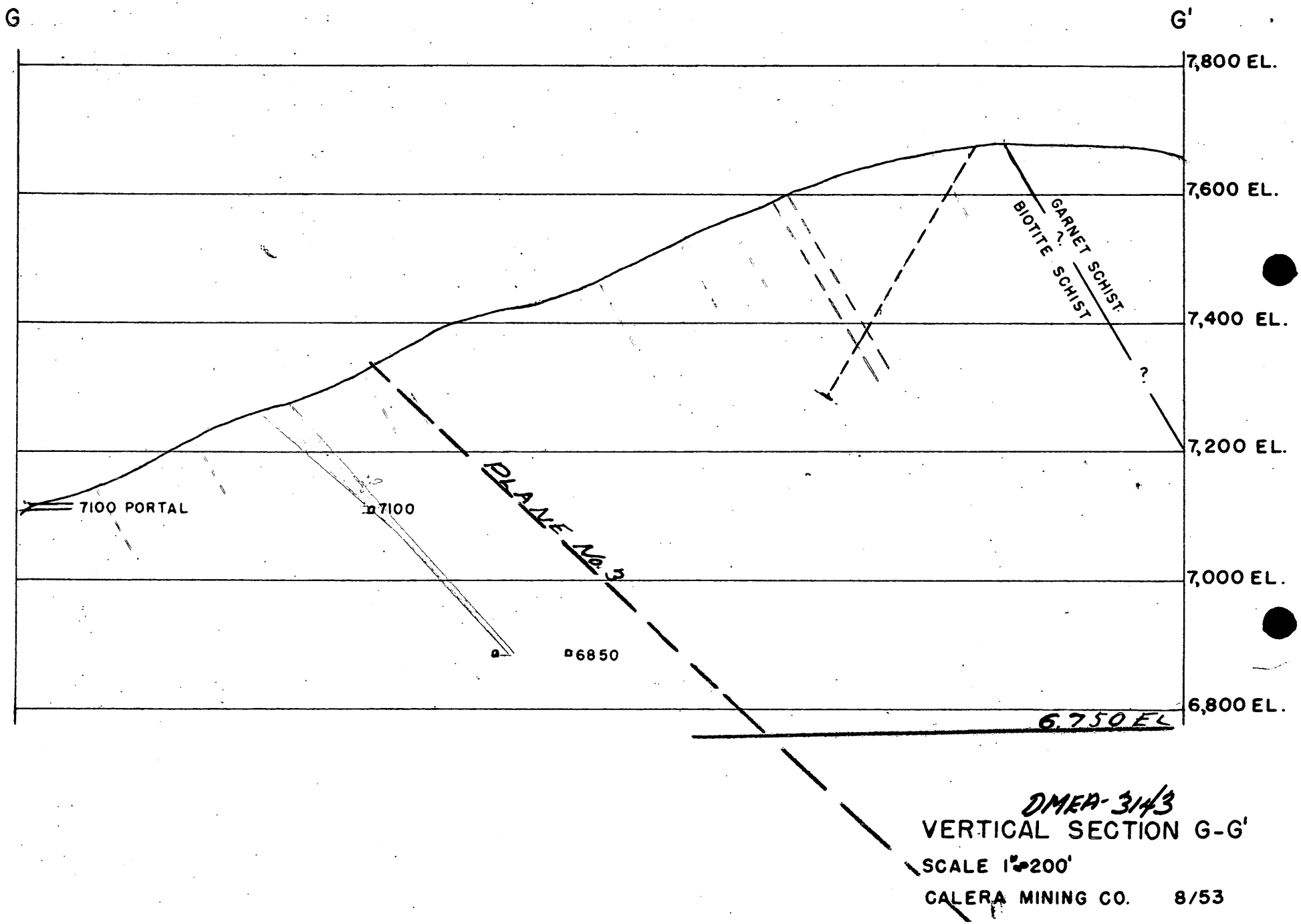
VERTICAL SECTION F-F'

SCALE 1" = 200'

CALERA MINING CO.

6,750 EL

PLANE No. 1 PROJ

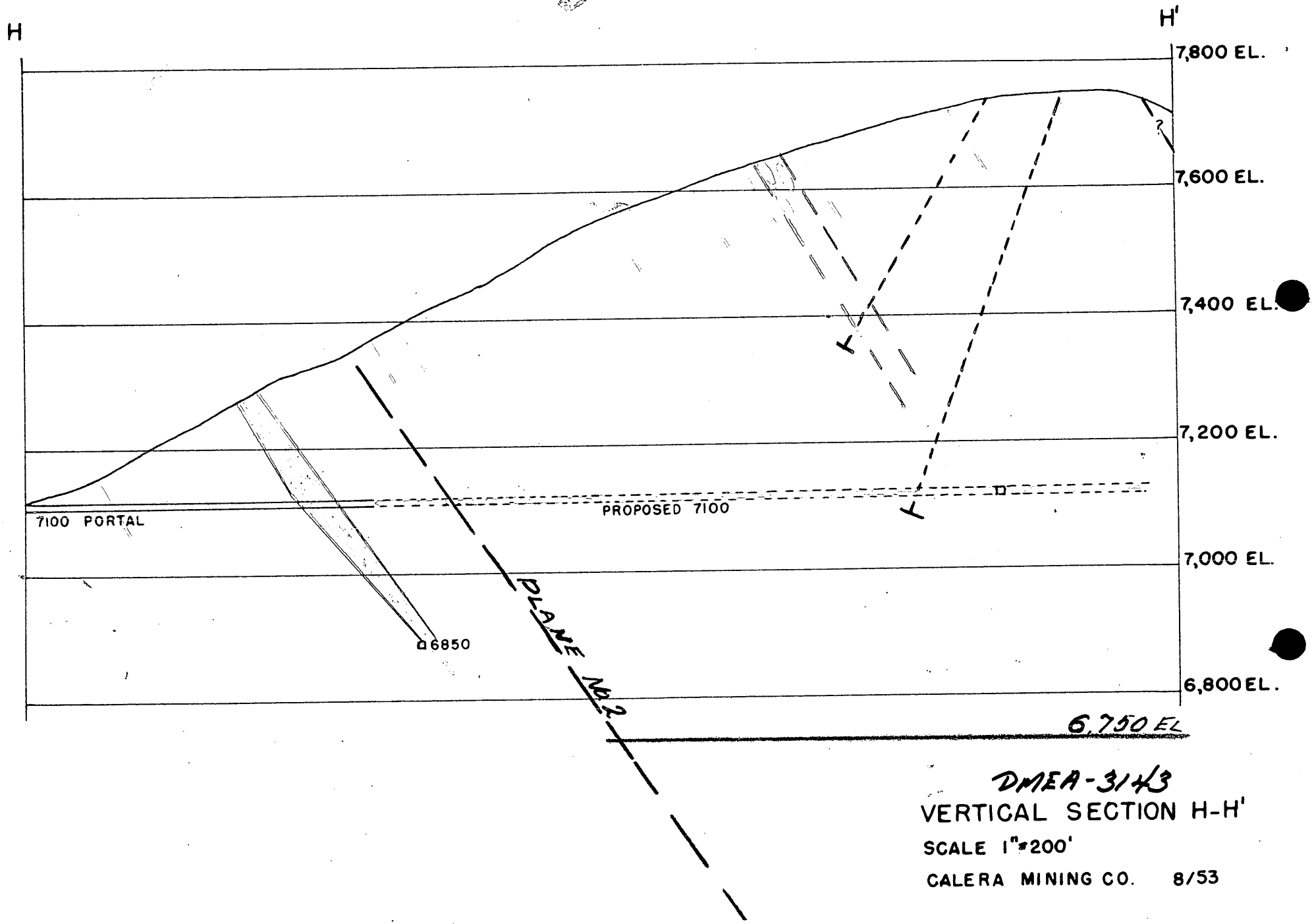


DMEA-3143

VERTICAL SECTION G-G'

SCALE 1" = 200'

CALERA MINING CO. 8/53

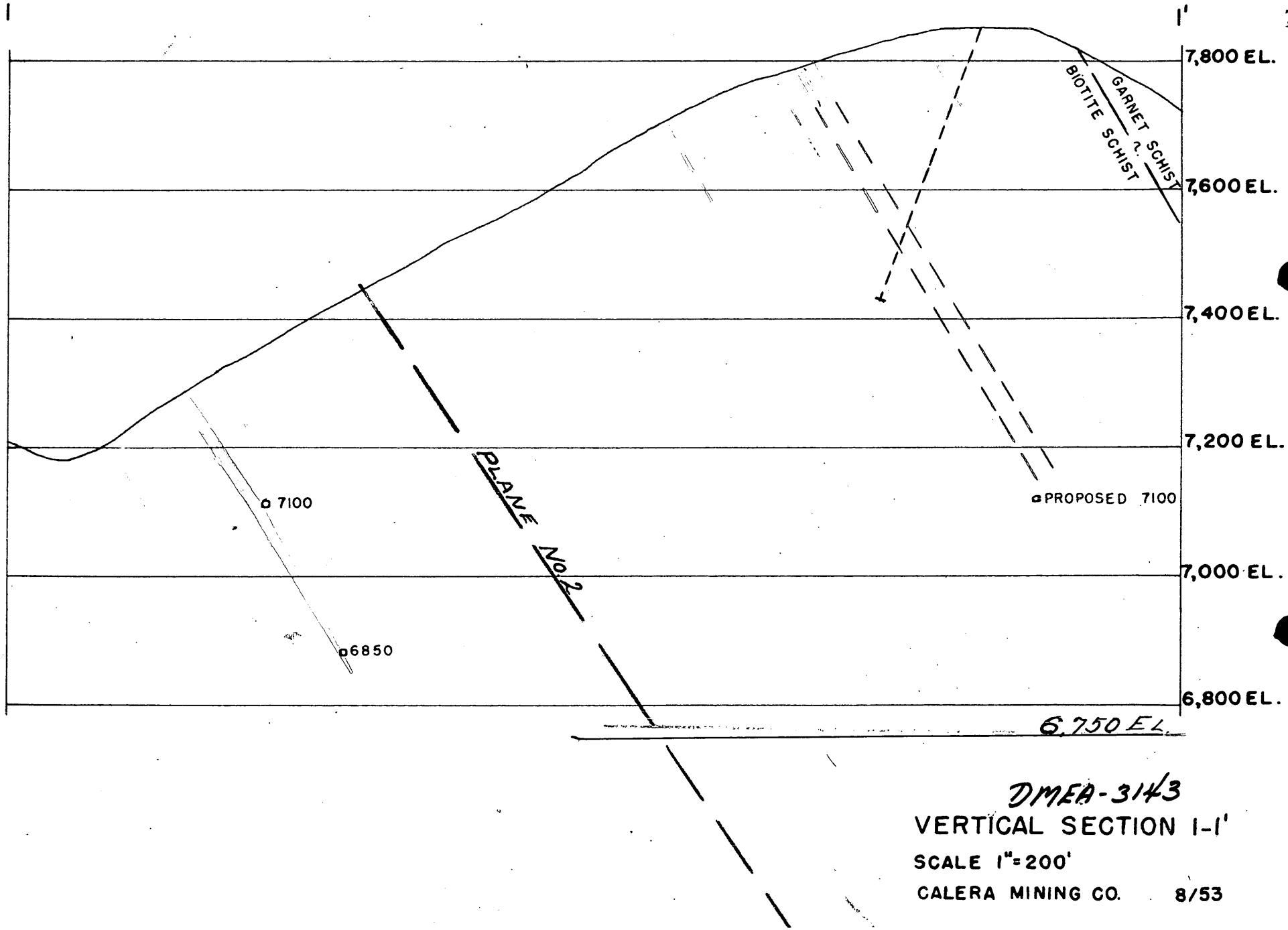


DMEA-3143

VERTICAL SECTION H-H'

SCALE 1" = 200'

CALERA MINING CO. 8/53

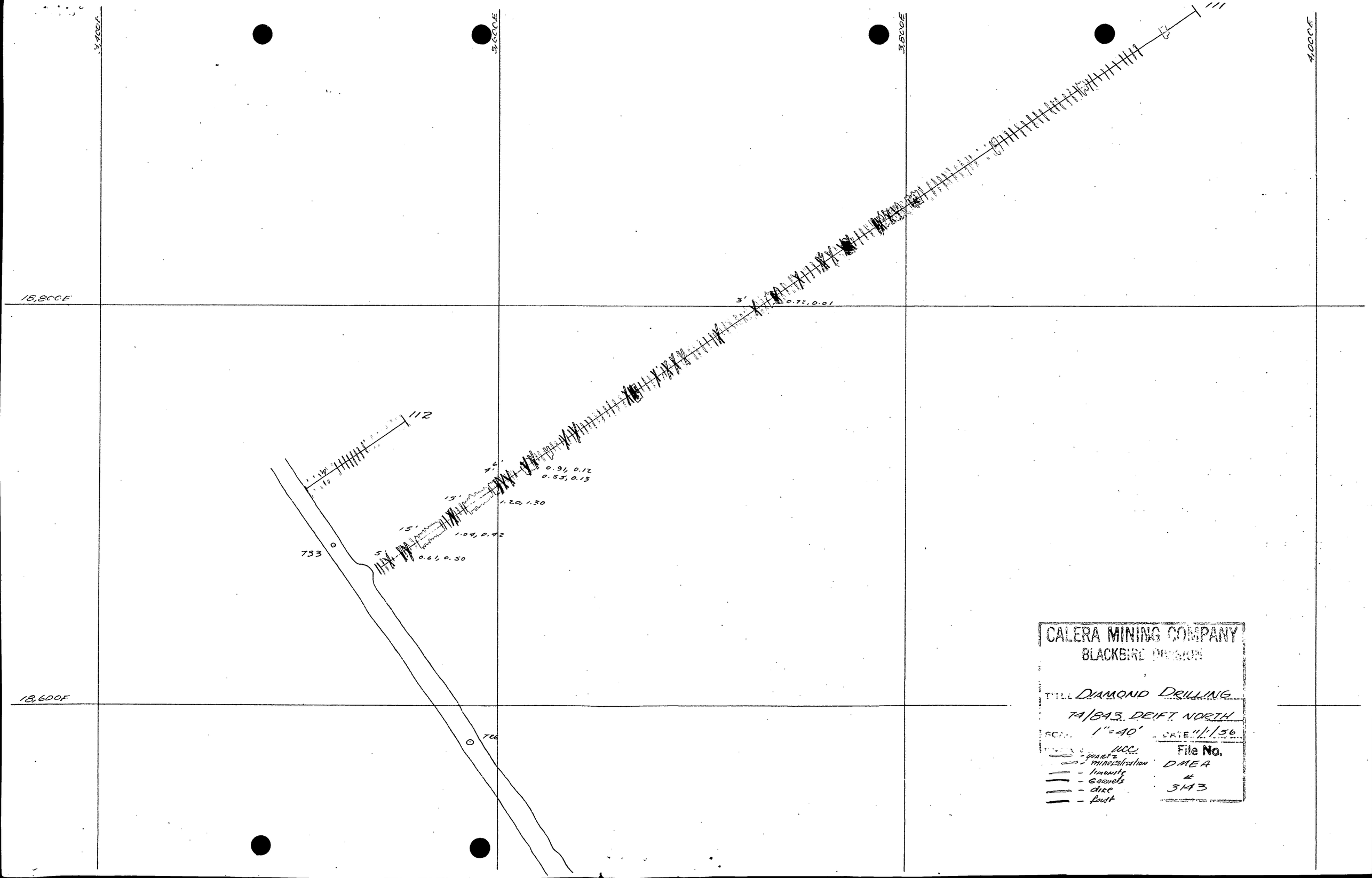


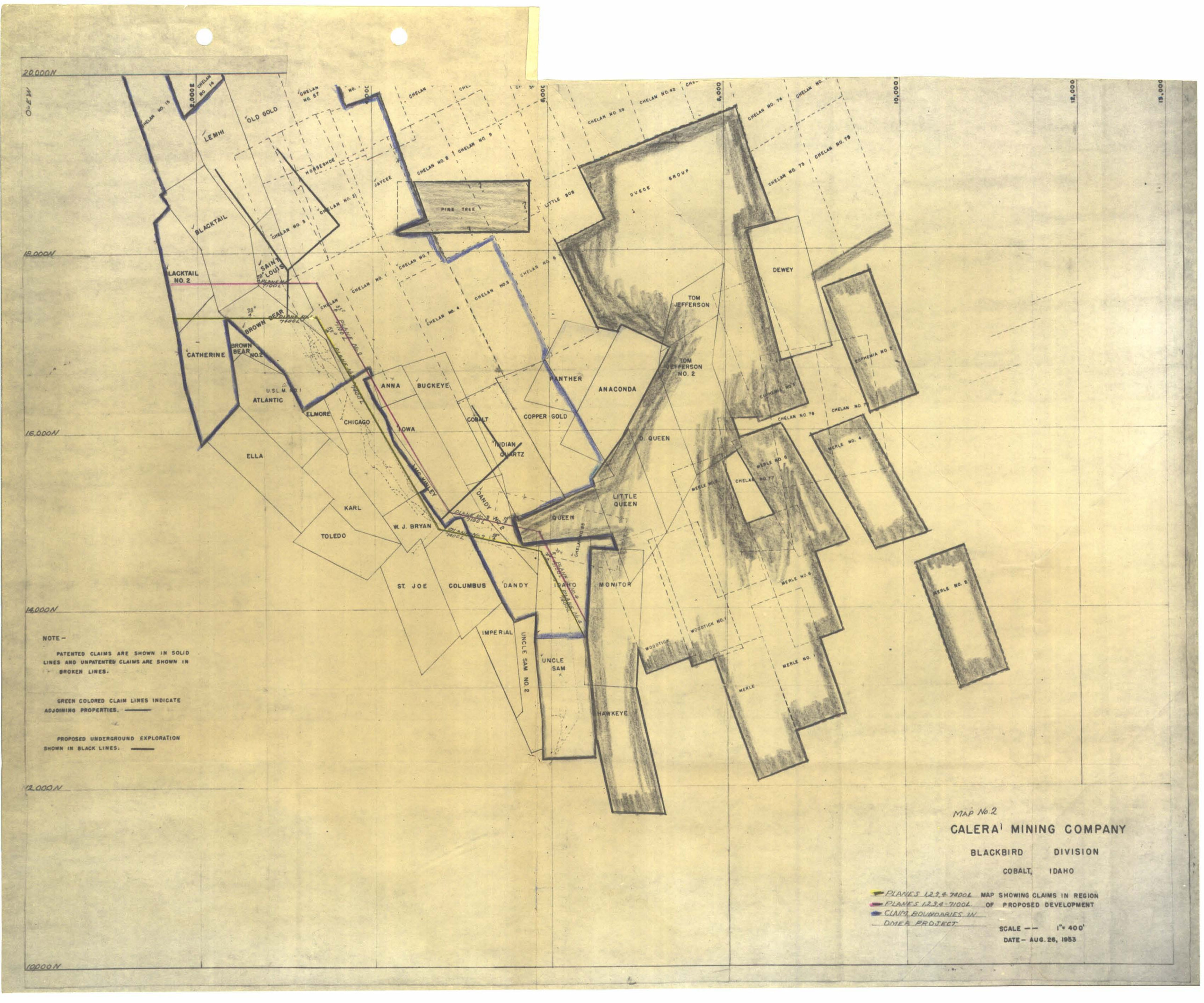
DMEA-3143

VERTICAL SECTION I-I'

SCALE 1"=200'

CALERA MINING CO. 8/53


3,400E
3,600E
3,800E
4,000E
16,800E
18,600F
111
112
3'
0.72, 0.01
7'
0.91, 0.12
0.55, 0.13
15'
1.20, 1.30
15'
1.04, 0.42
5'
0.61, 0.50
733
766
CALERA MINING COMPANY
BLACKBIRD DIVISION
TITLE DIAMOND DRILLING
74/843 DRIFT NORTH
SCALE 1"=40'
DATE 11/1/56
UCC
- quartz
- mineralization
- limonite
- gravels
- dike
- fault
File No.
DMEA
#
3143



NOTE –

PATENTED CLAIMS ARE SHOWN IN SOLID LINES AND UNPATENTED CLAIMS ARE SHOWN IN BROKEN LINES.

GREEN COLORED CLAIM LINES INDICATE ADJOINING PROPERTIES.

PROPOSED UNDERGROUND EXPLORATION SHOWN IN BLACK LINES.

MAP No. 2

CALERA' MINING COMPANY

BLACKBIRD DIVISION

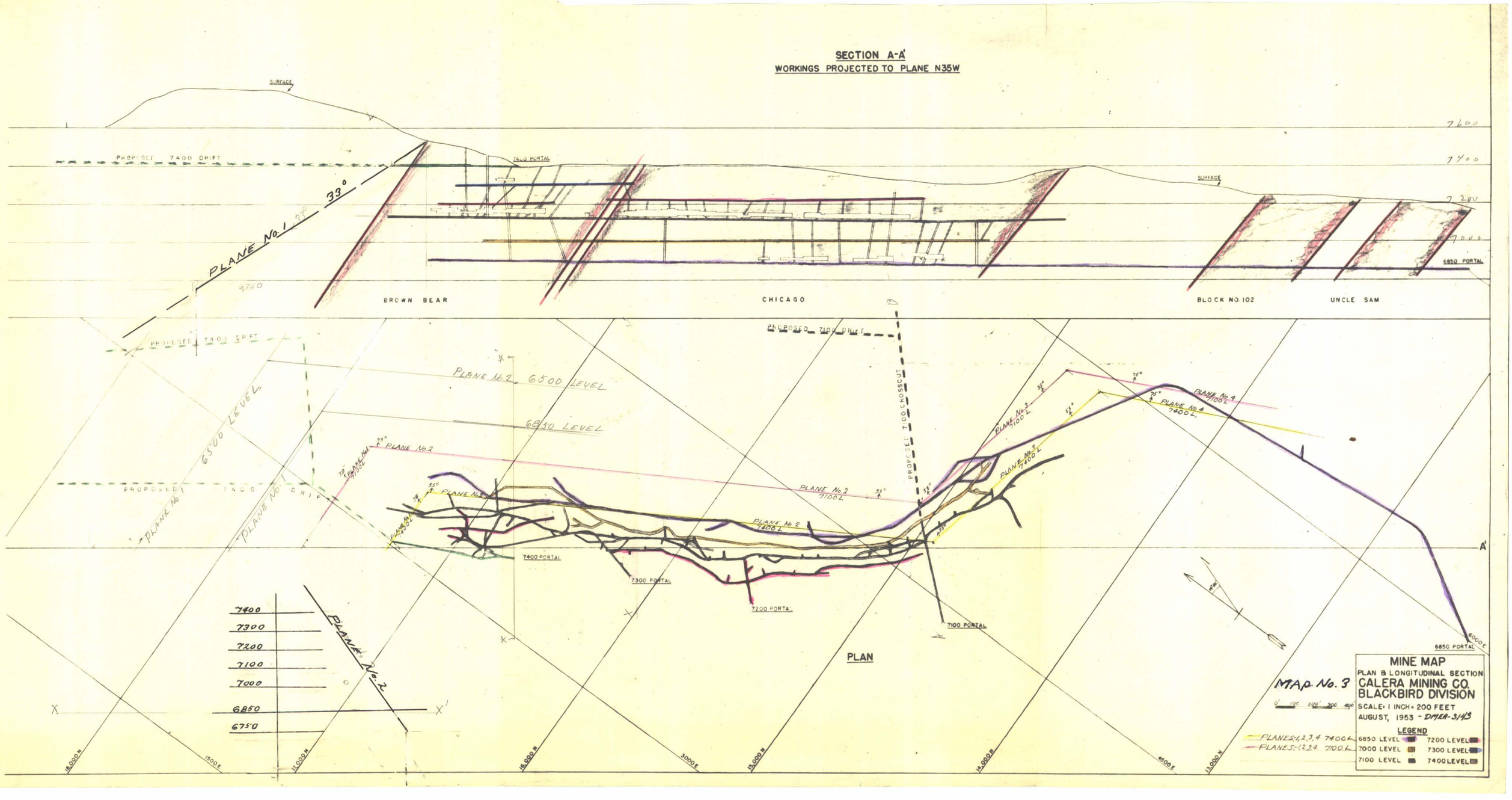
COBALT, IDAHO

PLANES 1,2,3,4-7400L
PLANES 1,2,3,4-7100L
CLAIM BOUNDARIES IN DMEA PROJECT

MAP SHOWING CLAIMS IN REGION OF PROPOSED DEVELOPMENT

SCALE — 1" = 400'

DATE – AUG. 26, 1953


SECTION A-A'
WORKINGS PROJECTED TO PLANE N35W
SURFACE
PROPOSED 7400 DRIFT
7400 PORTAL
PLANE No. 1
33°
7600
7400
7200
7000
6850 PORTAL
BROWN BEAR
CHICAGO
BLOCK NO. 102
UNCLE SAM
PROPOSED 7100 DRIFT
PROPOSED 7100 CROSSCUT
PLANE No. 2 6500 LEVEL
6850 LEVEL
PLANE No. 2
PLANE No. 1 7100L
PLANE No. 2 7100L
PLANE No. 2 7400L
PLANE No. 3 7100L
PLANE No. 3 7400L
PLANE No. 4 7100L
PLANE No. 4 7400L
7400 PORTAL
7300 PORTAL
7200 PORTAL
7100 PORTAL
6850 PORTAL
A'
7400
7300
7200
7100
7000
6850
6750
PLANE No. 2
PLAN
MAP No. 3
MINE MAP
PLAN & LONGITUDINAL SECTION
CALERA MINING CO.
BLACKBIRD DIVISION
SCALE: 1 INCH = 200 FEET
AUGUST, 1953 - DMER-3143
LEGEND
PLANES-1,2,3,4 7400L
PLANES-1,2,3,4 7100L
6850 LEVEL
7000 LEVEL
7100 LEVEL
7200 LEVEL
7300 LEVEL
7400 LEVEL