DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

January 28, 1958

Memorandum

To: Wingfield M. Chamberlain, Statistics Branch
Division of Operation Control & Statistics

From: Director, Division of Base Metals

Subject: Semi-Annual Reports on certified projects
Period - July 1 thru December 31, 1957

The following projects were inactive during the reporting period:

DMEA No.	Contract No.	Name of Operator
269	Idm-E33	Banner Mining Company
2314	Idm-E254	American Exploration & Mining Company

W. R. Griswold

WRGriswold:ms
Copies: Docket - DMEA 269
DMEA 2314
Chron.

8623

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Base Metals Division Date November 13, 1957.

Semi-Annual Report - Certified Project Date June 30, 1957.

DMEA No. 269X-B Operator Banner Mining Company Contract No. Idm-E 33
Twin Buttes Mine

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)		
Increase (Operator)	No change	
Total		
Decrease (Production)	No Change	
Net Available		

Investment

Shafts

Size	Feet	Cost

Winzes

Size	Feet	Cost

Drifts & Crosscuts

Size	Feet	Cost
4'x7'	311	

Raises

Size	Feet	Cost
6' x 7'	194	

Drilling

Type & Size	Feet	Cost
Longhole	445	

Rehabilitation

Description	Cost
XXXXX	

Facilities

Mine Plant

Description	Cost

Mill

Description	Cost

Roads

Description	Cost

Remarks

Capital Expenditures $1,834.17, other costs not available. This work is not in the subordinated part of the mine. All production during the period was from the unsubordinated part of the mine. Production from the Twin Buttes area terminated June 5, 1957 for economic reasons.

D. H. Hughes Chief

100318

DEFENSE MINERALS EXPLORATION ADMINISTRATION
For the Period July 1 - December 31, 1956

Base Metals Division Date May 24, 1957

Semi-Annual Report - Certified Project Date December 31, 1956

DMEA No. 269X Operator Banner Mining Company Twin Buttes Mine. Contract No. Idm-E 33

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)		
Increase (Operator)		
Total		
Decrease (Production) (to date)	4,327.76	4.78 approx.
Net Available		
Twin Buttes Area at or near Glance Mine		

Investment

Shafts

Size	Feet	Cost
Exploration		
all types		$119,182.75

Winzes

Size	Feet	Cost
Development		
all types		$94,520.70

Drifts & Crosscuts

Size	Feet	Cost
7'x8'	2,677.5	--

Raises

Size	Feet	Cost
6'x7'	563	

Drilling

Type & Size	Feet	Cost

Rehabilitation

Description	Cost
Drifts 303'	--
Raises 55'	--
Stoping --	$903.91

General Maintenance

$77,971.19

Facilities

Mine Plant

Description	Cost
Hoist & Compressor	$89,323.41

Mill

Description	Cost

Roads

Description	Cost

Remarks

Ore is being milled at company's Mineral Hill mine. Present production of 100 tons daily from Twin Buttes will be probably increased to 200 tons daily. Production of Operator's ore during period was 6,437.62 tons.

W. P. Klugescheid/er

DEFENSE MINERALS EXPLORATION ADMINISTRATION

For the Period January 1 - June 31, 1956

Base Metals Division Date October 24, 1956

Semi-Annual Report - Certified Project Date October 5, 1956

DMEA No. 269XB Operator Banner Mining Company (Twin Buttes Mine) Contract No. Idm-E 33

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)		
Increase (Operator)		
Total		
	Unchanged	
Decrease (Production)		
Net Available		

Investment

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost
						5'x7'	1,400	$42,000.00

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

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

Activity was confined to the Glance mine. Surface plant was completed. On the 525 level the east drift was driven 1,400 feet and short crosscuts were driven at 200-foot intervals. Long holes have been drilled from the drift and the crosscuts. Findings to date indicate that a significant amount of low grade ore will be developed in the area but only a small part thereof will be in the subordinated area. A few thousand tons from the exploratory headings have been stockpiled near the mill at the Mineral Hill mine.

Sixteen men are employed at this operation.

W. P. Klugeschedder

100338

DEFENSE MINERALS EXPLORATION ADMINISTRATION

To January 1, 1956

Base Metals MPK Division Date June 5, 1956.

Semi-Annual Report - Certified Project Date February 13, 1956

DMEA No. 269X-B Operator Banner Mining Company (Twin Buttes Copper Mine) Contract No. Idm-E 33

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)		
Increase (Operator)	14,000	4.377% Cu.
Total		
Decrease (Production)		
Net Available		

Investment

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

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

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

The major portion of the project workings have been kept accessible by pumping and maintenance work. A self-potential survey of a 7-square mile area has been completed. Several areas of the survey were measured by the induced potential method. Anomalous zones were found and one of them is being tested by diamond drilling. Drilling to date indicates that a significant amount of ore may be found. The mineralized area may extend

into the subordinated ground. The old surface plant at the Glance mine has been removed and a new one is being installed. Upon completion of the new plant, the company intends to begin underground operations mainly in the area now being drilled. The amount of money spent during the second half of the year 1955 was $39,468.11. The DMEA project was the cause of considerable activity by other companies.

OME, REGION III

Interim

Statement in Lieu of ~~XXXXXXXXX~~ Report

on Certified Project

Reporting Period **January 1, 1959 to January 28, 1960**
Docket and Contract Number **DMA 269X-B, Idm-E33 (Copper)**
Operator **Banner Mining Co. (Twin Buttes Copper mines)**
Pima County, Arizona

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [X]

Remarks:

The Operator reported that there was no production from the subordinated land during the reporting period.

Signed T. M. Romslo
T. M. Romslo

Date **February 17, 1960**

OME, REGION III

Statement in Lieu of Semiannual Report

Reporting Period July 1, 1958 - December 31, 1958
Docket and Contract Number 269B - Idm-E33 (Copper)
Operator Banner Mining Company

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [X]

Remarks:

No DMEA ore stockpiled.

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O. M. E.
RECEIVED APR 9 1959

DATE	INITIALS	CODE
4-9	C	220
"	[illegible]	110
"	[illegible]	800
4-10	[illegible]	500

Original signed by

Signed T. M. Romslo Date April 2, 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

January 21, 1958

CENTRAL FILE COPY
DMEA
RECEIVED JAN 24 1958

DATE		
1/24	C	220
1/24	Chm	100
		~~500~~

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1 to December 31, 1957

DMEA Docket 269X-B (Copper)
Contract Idm-E 33 , Banner Mining Co. (Twin Buttes Copper mines) Pima County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:jy

cc: Semiannual Report File E 33
Emerick
DMEA, TUC
Harshman
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
JAN 20 1958
REGION III
DENVER, COLORADO

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period	July 1 to December 31, 1957
Docket and Contract Number	DMA-269X-B, I-DMA-E33
Operator	Banner Mining Co.

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks: Information was obtained January 9, 1958 by visiting the mine and from conversations at the company's office with B. Venable, mine superintendent.

The mine has been inactive, except for intermittent dewatering operations, since June 5, 1957.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 24 1958

DATE		

CC W. H° King (Orig. & 9)
DMA-269X-B
Cert. File
DF

Signed T M Romslo
T. M. Romslo

Date January 13, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 11 1957

DATE	INITIALS	CODE
10/11	B	220
11	Colu	100
10/15	[illegible]	[illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

October 7, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period January 1, 1957 through June 30, 1957
DMEA Docket 269X-B (Copper)
Contract Idm-E 33, Banner Mining Company (Twin Buttes Copper Mines), Pima County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

E. M. Hawkins

Acting Executive Officer
DMEA Field Team, Region III

Enclosures

MHM/vj

cc: Semiannual Report File E 33
DMEA/TUC
Harshman
Emerick
Chron.

Semiannual Report of Certified Projects

Reporting Period	January 1, 1957 through June 30, 1957
Docket and Contract Number	DMEA 269X-B, I-DMA-E33
Operator	Banner Mining Company
Commodity	Copper
Mine Name	Twin Buttes Copper Mines
County and State	Pima County, Arizona
Date of Contract	June 30, 1951
Date of Certification	March 19, 1954
Expiration Date of Royalty Payments	June 30, 1961
Date of Examination for this Report	September 27, 1957
Total Amount of Contract	$135,678.00
Total Expenditures under Contract	$111,059.00
Amount of Government Participation at 50 %	$55,529.85
Royalty Payments this Period	0.00
Previous Royalty Payments	$2,567.56
Total Royalty Payments to Date	$2,567.56
% Loan Repayment Completed	4.62%
Amount of Royalty Due	None
Royalty Remarks	----

DOCKET DMEA-269X-B, Contract I-DMA-E33
Banner Mining Co.
Twin Buttes Copper Mines
Pima County, Ariz.

	Tons	Percent Copper Analysis
Original Estimate of DMEA Reserves (Field Team Final Report) Mines ☐ Survey ☐ Joint ☐	44,800	1.6
Revised Estimate of DMEA Reserves (Field Team) Mines ☐ Survey ☐ Joint ☐		
Increase of Reserves by work performed subsequent to DMEA project work Copper King Mine	14,000 ✓	4 to 5 ✓
Production DMEA ore (This period)	0.00	
(Previous)	4,327.76	4.73
(To date	4,327.76	4.73
" Operator's ore (This period)	12,340.8	1.57
found subsequent (Previous)	6,437.62	1.39
to DMEA work (To date)	18,778.42	1.51

Percent Revised Reserves Mines _____

(For Uranium Ores Only)

Initial Production Bonus:
Status of Operator: Ineligible ☐ Applied for ☐ Rec'ing pmt ☐ Paid up ☐
Pounds U_3O_8 produced this period eligible for Bonus _____
Amount of Bonus paid to Operator this period $_____
Total pounds U_3O_8 produced to date eligible for Bonus _____
Total amount of Bonus paid to Operator to date $_____
Bonus Royalty Paid $_____
Bonus Royalty Due $_____

Capital expenditures $1,834.17
Other costs not available

Investment Data (this period)

Shafts

Size	Feet	Cost

Winzes

Size	Feet	Cost

Drifts & Crosscuts

Size	Feet	Cost
4' x 7'	311	

Raises

Size	Feet	Cost
6' x 7'	194	

Drilling

Type & Size	Feet	Cost
Longhole	445	

Rehabilitation

Description	Cost

Facilities

Mine Plant

Description	Cost

Mill

Description	Cost

Roads

Description	Cost

Remarks

See attached sheet

States ?

Signed T. M. Romslo (Engineer)
T. M. Romslo

The following information and the data of Page 2 of 2 was obtained September 27, 1957 from Mr. A. B. Bowman, General Manager.

All ore produced during the period was mined from a vein in an unsubordinated area east of the Copper Glance claim. The vein extends westward into the subordinated Copper Glance claim where the grade of ore was previously found submarginal.

All of the ore was hoisted to the surface through the Copper Glance shaft and trucked to the company's concentrator at the Mineral Hill mine where it was separately milled.

Production from the Twin Buttes area was terminated June 5, 1957 for economic reasons.

DMEA
DEPARTMENT OF THE INTERIOR
OCT 2 - 1957
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

March 29, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED APR 1 1957

DATE	INITIALS	CODE
4/1	C	220
2	Ed m	100

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region ~~III~~

Subject: Semiannual Report of Certified Project for the period July 1, 1956 through December 31, 1956
DMEA Docket 269X-B (Copper)
Contract Idm-E 33, Banner Mining Company (Twin Buttes Copper Mines), Pima County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

E. M. Harshman

for W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

MHM/vj

cc: Semiannual Report File E 33
W. R. Storms
Harshman
Chron.

March 18, 1957

Memorandum

To : E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III.

From : Superintendent, Southwest Experiment Station

Subject : Semi-Annual Report of Certified Project, July 1-December 31, 1956, Contract I-DMA-633 (Copper), Docket DMA-265L-3, Banner Mining Co. (Twin Buttes Copper Mines), Pima County, Ariz.

Enclosed are original and 8 copies of the above report by T. M. Manale of the Bureau of Mines. I believe this completes our semi-annual reports for the period from July 1 to December 31, 1956.

Signed by Walter R. Storms

Walter R. Storms

CC E. N. Harshman (8)
DMA-265L-3
Cert. File
DF

WRStorms:frj

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D M E A
RECEIVED APR 1 1957
DATE | REMARKS | CODE

DMEA
DEPARTMENT OF THE INTERIOR
MAR 20 1957
REGION III
DENVER, COLORADO

Semiannual Report of Certified Projects

Reporting Period	July 1 to December 31, 1956
Docket and Contract Number	DMEA-369X-B, I-DMA-E33
Operator	Banner Mining Co.
Commodity	Copper
Mine Name	Twin Buttes Copper Mines
County and State	Pima County, Ariz.
Date of Contract	June 30, 1951
Date of Certification	March 19, 1954
Expiration Date of Royalty Payments	June 30, 1961
Date of Examination for this Report	January 24, 1957 (Data of page 2 received 3/16/57)
Total Amount of Contract	$135,789.00
Total Expenditures under Contract	$111,059.00
Amount of Government Participation at 50 %	$55,529.85
Royalty Payments this Period	$4.60
Previous Royalty Payments	$2,562.96
Total Royalty Payments to Date	$2,567.56
% Loan Repayment Completed	4.62
Amount of Royalty Due	None
Royalty Remarks	

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DATE	INITIALS	CODE

		Tons	Analysis Percent Copper
Original Estimate of DMEA Reserves (Field Team Final Report) Mines [ ] Survey [ ] Joint [ ]		55,800	1.6
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [ ]			
Increase of Reserves by work performed subsequent to DMEA project work	East of Glance claim 1/		1.39
	Copper King Mine	14,000	4 to 5
Production DMEA ore (This period)	Stope at east end of Copper Glance Claim	56.38 2/	1.22
(Previous)		4,271.383	4.78 approx.
(To date)		4,327.763	4.73 "
" Operator's ore found subsequent to DMEA work (This period)	Stopes to east of Copper Glance claim	6,437.62	1.39
(Previous)		0.00	
(To date)		6,437.62	1.39

Percent Revised Reserves mined _____

(For Uranium Ores Only)

Initial Production Bonus:

Status of Operator: Ineligible [ ] Applied for [ ] Rec'ing pmt [ ] Pd up ____

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Twin Buttes Area, mainly at or - near Glance mine

Investment Data **1954 thru 1956**

Shafts Size	Feet	Cost	Winzes Size	Feet	Cost	Drifts & Crosscuts Size	Feet	Cost
Exploration			**DEVELOPMENT**					
All types		**$119,182.75**	**All types**		**$94,520.70**	**7'x8'**	**2,677.5**	

Raises Size	Feet	Cost	Drilling Type & Size	Feet	Cost	Rehabilitation Description	Cost
6'x7'	**563**		**D.D.**	**1,509.4**		**Drifts 303'**	
General Maintenance			**L.H.**	**1,504.5**		**Raises 55'**	
		$77,971.19	Facilities			**Stoping**	**$903.91**

Mine Plant Description	Cost	Mill Description	Cost	Roads Description	Cost
Hoist, Compressor	**$89,323.41**				
Hoist- and change-houses					

Remarks

1/ Insufficient data for estimation of section now being mined. Some lower grade material extends into east end of Glance claim.

2/ Milled from 62 mine cars of ore of previous report.

Ore is being milled at company's concentrator at the Mineral Hill mine. Present production of 100 tons daily from Twin Buttes will be increased ~~xx~~ to about 200 tons if economically feasible

Signed T M Romslo (Engineer)
T. M. Romslo

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT
Date 10-9

Referred to:

1. ~~Mr. Pittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~Power Utilities~~ Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. Must be reviewed along with last
2. Same as usual
3.
4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Noted

Robert E. Adams

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

RECEIVED
OCT - 1956

224 New Customhouse
Denver 2, Colorado

Date: October 5, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period January 1, 1956 through June 30, 1956
DMEA Docket 269XB (Copper)
Contract Idm-E 33, Banner Mining Company (Twin Buttes Mine), Pima County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, ~~and~~ Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM/vj
cc: Semiannual Report File E 33
W. R. Storms
E. N. Harshman
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
BOX 4097
TUCSON 5, ARIZONA

DMEA
DEPARTMENT OF THE INTERIOR
SEP 26 1956
REGION III
DENVER, COLORADO

September 24, 1956

RECEIVED
OCT - 9 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team

From : Superintendent, Southwest Experiment Station

Subject : Semi-annual Report of Certified Project, January 1 - June 30, 1956, Docket DMA-269XB(Copper), Contract I-DMA-E33, Banner Mining Co. (Twin Buttes Mines), Pima County, Ariz.

Enclosed are original and 8 copies of the above report by T. M. Romslo.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMA-269XB
Cert, File
DF

WRStorms:frj

RECEIVED
OCT - 9 1956

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

Reporting period	January 1 to June 30, 1956
Docket and Contract Number	DMEA-269X-B, I-DMA-E33
Operator	Banner Mining Co.

"X" one

The project has been inactive during the reporting period [ ]

Pertinent data relative to the subject contract has remained unchanged since the last report [X]

Remarks: The Glance mine was visited August 29, 1956. During the trip to the mine I stopped off at the company's office at the Mineral Hill mine and obtained the following information from Mr. A. B. Bowman, General Manager

Activities at the Twin Buttes property were confined to the Glance mine. The surface plant mentioned in the previous semiannual report was completed and minor repairs were made in the shaft to the 525 level. On this level, the east drift was extended 1,400 feet and short crosscuts were driven at 200-foot intervals. Long holes have been drilled from the drift and crosscuts. Findings to date indicate that a significant amount of low grade ore will be developed in the area but that only a very small amount of the ore will be in the subordinated area of the contract I-DMA-E33. A few thousand tons of ore from the exploratory headings has been hauled to a stockpile near the company's mill at the Mineral Hill mine. Of this ore, 62 mine carloads was obtained from the subordinated area. It will be milled shortly after completion of mill additions now in progress.

A total of 16 men are employed per day. Wages average about $2.00 per hour.

TMRomslo

Signed: T. M. Romslo, Mining Engineer
Southwest Experiment Station.

Date: Sept. 18, 1956

CC W. M. Traver (Orig. & 8)
W. L. Emerick
DMEA 269X-B
Cert File
DF

TMRomslo:frj

269x

2/27

Referred to:

1. ~~[illegible]~~
2. ~~[illegible]~~
3. ~~[illegible]~~
4. ~~[illegible] Wells and Tides~~
5. Bauer [illegible] Division
6. Pacific Coast Wells and Tides

Note comments in report regarding:

1. Revised one estimates - good gene info
2. Investment data
3.
4.

and take appropriate action.

Action taken by Division:

Noted 3/2/56

ROBERT E. ADAMS

Actuary

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

Date: February 23, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1955 through December 31, 1955
DMEA Docket 269 XB (Copper)
Contract Idm-E 33 , Banner Mining Company
Twin Buttes Copper Mine, Pima County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, and Memorandum 29

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures
vj
cc: Semiannual Report File E 33
W. R. Storms
E. N. Harshman
J. N. Faick
Chron.

RWB

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
BOX 4097
TUCSON 5, ARIZONA

DMEA
Date Rec'd.
FEB 17 1956
BUREAU OF MINES
Denver, Colorado

February 13, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : Semi-Annual Report of Certified Project, July 1-December 31, 1955, DMEA Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed are original and 8 copies of the semi-annual report on the above property for the period from July 1 to December 31, 1955.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
Cert. File
DMA-269XB
DF

WRStorms:frj

RECEIVED
FEB 8 1956

Semi-Annual Report of Certified Projects

Reporting Period	July 1 - December 31, 1955
Docket and Contract Number	Docket DMA-269XB; Contract I-DMA-E33.
Operator	Banner Mining Co.
Commodity	Copper
Mine Name	Twin Buttes Copper Mines
County and State	Pima County, Arizona
Date of Contract	June 30, 1951
Date of Certification	March 19, 1954
Expiration Date of Royalty Payments	June 30, 1961
Date of Examination for this Report	December 28, 1955
Total Amount of Contract	$135,789.00
Total Expenditures under Contract	$111,059,71
Amount of Government Participation at 50%	$55,529.85
Royalty Payments This Period	$8.39
Previous Royalty Payments	$2,554.57
Total Royalty Payments to Date	$2,562.96
% Loan Repayment Completed	4.62
Amount of Royalty Due	$0.00
Royalty Remarks	None

Original Estimate of Reserves (from Final Engr.-Geol. Report):	Indicated: 50,800 tons of 1.6 percent copper and 0.4 ounce silver. Inferred: 5,000 tons of 1 to 2 percent copper.
Increase of Reserves by Work performed subsequent to expiration or termination of contract:	14,000 tons of 4 to 5 percent copper indicated by diamond drilling a geophysical anomaly at Copper King mine during 1954. Present diamond drilling of anomalous area near Copper Glance mine has yielded favorable results but more drilling is necessary for reserve estimates.
Revised Estimate of Reserves:	Indicated: 64,800 tons of 2.2 percent copper. Inferred: 5,000 tons of 1 to 2 percent copper.
Production this period:	261.71 tons of 2.82 percent copper and 0.83 ounce silver a ton.
Amount of previous production (since date of contract):	4,059.40 tons of 4.9 percent copper and 1.52 ounces silver a ton.
Total DMEA Production to Date:	4,321.11 tons of 4.78 percent copper and 1.48 ounces silver a ton.
% of Revised Reserves Mined:	0.0 percent (see Production Remarks).
Production Remarks:	The 261.71 tons of ore listed as production during the period actually was mined and stock-piled during 1953. Due to the low copper content of the ore it could not be shipped at a profit until the period of this report.

Other Remarks:

1. The major portion of the project workings have been kept accessible by intermittent pumping operations and by maintenance work on the Glance Shaft and its 450-foot level.

2. A self-potential survey of a 7-square mile area that includes the Twin Buttes mines was completed during subject period. Several selected areas of the survey then were measured by the induced potential method. Anomalous zones were found. One of these zones presently is being tested by diamond drilling. Results of drilling to date indicate that a significant amount of ore may be found and that the mineralized zone may extend into ground subordinated under the contract.

3. The surface plant of the Glance mine has been removed. At present a new headframe is being erected and preparations are being made for installation of the old hoist, a new compressor, and a new change house. Upon completion of the new plant, the company intends to start underground explorations, mainly in the area now being diamond drilled.

4. Costs of the above work, according to A. B. Bowman, General Manager, were $13,013.41 and $39,468.11 for the first and second halves of 1955, respectively.

5. As a result of DMEA findings, Banner Mining Company has continued exploratory work and other companies and individuals have located claims in the Twin Buttes area. Geological and geophysical surveys have been made on some of these properties and a few have been tested by diamond drilling. Expenditures by other than Banner, probably amount to several tens of thousand dollars.

Results of these operations are unknown.

T. M. Romslo
Mining Engineer
Southwest Experiment Station

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
Date Rec'd.
JUL 20 1955
BUREAU OF MINES
Denver, Colorado

Box 4097
Tucson 5, Ariz.

July 18, 1955

RECEIVED
SEP 26 1955

Memorandum

To : W. M. Traver, DMEA Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : Semi-annual Report on DMEA Certified Project, January 1, - June 30, 1955, Contract I-DMA-E33, Docket DMA-269X B, Banner Mining Co.'s Twin Buttes Copper Mines, Pima Mining District, Pima County, Ariz.

Enclosed are original and 8 copies of a semi-annual report on the above property by W. R. Hardwick of the Bureau of Mines.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
J. N. Faick
DMA-269XB
Cert, File
DF

WRStorms:frj

DMEA
Data Rec'd
JUL 20 1955
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Box 4097
Tucson 5, Ariz.

RECEIVED
SEP 26 1955

July 18, 1955

Memorandum

To : Walter R. Storms, Superintendent, Southwest ~~Exp. Station~~

From : William R. Hardwick, Mining Engineer, Tucson, Ariz.

Subject : Semi-Annual Report on Certified Project for the period January 1, 1955 to June 30, 1955, Docket DMA-269X B, Contract I-DMA-E33, Banner Mining Co.'s Twin Butte Copper Mines, Pima County, Ariz.

In accordance with the provisions of DMEA Circular 32, the Twin Buttes copper mines were visited on July 8, 1955. Recent developments were discussed with B. W. Venable, mine superintendent, at the company's office.

This contract was approved on June 30, 1951 for the purpose of rehabilitating the Copper Glance and Copper Queen mines to verify a reported reserve of about 30,000 tons of 6 percent copper ore and to do additional exploration work if conditions warranted. Operations were started on August 15, 1951. Exploration work was completed on April 30, 1953 at a total cost of $111,059.71, of which the Government's part was $55,529.85, or 50 percent.

A significant amount of ore was discovered and on March 9, 1954 a "Certification of Discovery or Development" was issued. The operator has estimated the ore reserves to be 50,000 tons of ore containing 1.6 percent copper.

The mine has been unwatered and the Glance shaft timber has been blocked to the 450-foot level. Some Geophysical work is being done on the subordinated claims and surrounding claims. Some additional claims have been located by the company.

No ore has been mined during the subject period, but a small stockpile of ore that was mined during the life of the contract was sold to El Paso smelter of American Smelting & Refining Co. Two lots of ore were sold as follows:

CC W. M. Traver (Orig. & 8)
J. N. Faick
DMA-269XB
Cert. File
DF

WRStorms:frj

Smelter Lot No.	Dry Tons	Gross Value	Net Value	Net Value per Ton	Royalty Paid
1717	53.625	$819.33	$200.52	$3.74	$3.01
1787	105.611	1,912.40	648.92	6.14	9.73
Total	159.236		$849.44		$12.74

The toal production since the approval of the contract is as follows:

Period	Tons	Percent Copper
Before Dec. 31, 1954	4,057.4	4.91
Dec. 31, 1954 - June 30, 1955	159.236	2.89
Total	4,216.636	4.83

The total amount of Royalty reported by the operator is $2,5 5 4,57.

Additional work is planned by the operator when time and manpower are available. No mining or development work is now in progress. The shaft will be repaired to the 625-foot level as men can be spared from the Mineral Hill operation.

William R. Hardwick

William R. Hardwick
Mining Engineer
Tucson, Ariz.

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

224 New Customhouse
Denver 2, Colorado

February 1, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Semi-annual Report - Docket DMA-269XB, Contract I-DMA-E33, Banner Mining Co., Twin Buttes Copper Mine, Pima County, Arizona

Enclosed are four copies of the Semi-annual Report on Contract I-DMA-E33.

W. M. Traver

Enclosures

W. M. Traver

pw

January 27, 1955

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : Semi-Annual Report on Certified Project, June 30-December 31, 1954, Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Ariz.

Enclosed are original and 8 copies of a report by Wm. R. Hardwick of the Bureau of Mines on the cited mine.

No production was made during this period, as the mine is under water.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMA-269XB
Cert. File
DF

LAStewart:frj

January 27, 1955

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : William R. Hardwick, Mining Engineer, Tucson, Ariz.

Subject : Semi-Annual Report on Certified Project for the Period July 1, 1954 to December 31, 1954, Docket DMA-268KB, Contract I-DMA-833, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz.

In accordance with the provisions of DMEA Circular 32, the Twin Buttes copper mines were visited on January 17, 1955. E. C. Bauman and mine superintendent S. W. Venable were at the nearby Mineral Hill mine.

The mine was under water and was not operating so no ore was produced during this period.

During the early part of 1954, the Banner Mining Co. made some reconnaissance surveys, using geophysical methods. Starting in June and continuing until October 1954 the company did some diamond drilling to test anomalies that resulted from the Geophysical survey. A total of 384 feet of prospect drill hole was completed. Only one drill hole cut sulfide ore; this hole cut 8.5 feet of copper sulfide ore that averaged 2.80 percent copper. The drilling program was stopped in October 1954 so men and equipment could be used on the nearby Mineral Hill property. Venable stated that additional exploration work would be done when men and equipment were available.

This contract was approved on June 30, 1951 for the purpose of rehabilitating the Copper Glance and Copper Queen mines to verify a reported reserve of about 30,000 tons of 6 percent copper ore, and to do additional exploration work if conditions warranted. Operations were started on August 15, 1951. Exploration work was completed at a total cost of $111,059.71 of which the Government's part was $55,529.85.

CC Wm. M. Trever (Orig. & 8)
DMA-268KB
Cert. file
RF

WRHardwick:frj

A significant amount of ore was discovered and on March 9, 1954 a "Certification of Discovery or Development" was issued. A small ore body was mined during the life of the contract and a total of 4,657.4 tons of ore with a copper content of 4.92 percent was sold. This resulted in a net smelter return to the operator of $86,252.62 or $14.86 per ton. The operator paid the Government $2,541.23 in royalties.

The operator has estimated the ore reserves to be 50,000 tons of ore containing 1.6 percent copper.

William R. Hardwick
William R. Hardwick
Mining Engineer
Region III

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

224 New Customhouse
Denver 2, Colorado

October 11, 1954

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMA-269XB, Contract I-DMA-E33, Banner Mining Co., Twin Buttes Copper Mine, Pima County, Arizona

Enclosed are the original and three copies of a semi-annual report relative to operations at the site of the subject project subsequent to the issuance of a Certification of Discovery or Development by the Defense Minerals Exploration Administration.

W. H. King

Enclosures

Mining Division
Date Rec'd
AUG 5 - 1954
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

TUCSON, ARIZONA
August 3, 1954

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : Semi-Annual Report on Certified Project, January 1 - June 30, 1954, Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Ariz.

Enclosed are original and 7 copies of a report by W. R. Hardwick of the Bureau of Mines on his inspection of the Twin Buttes Copper Mine which was certified under Exploration Project Contract No. I-DMA-E33. No production has taken place during the past 6 months period.

Walter R. Storms

Walter R. Storms

CC W. H. King (7)
DMA-269XB
Cert. file
DF

WRStorms:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

TUCSON, ARIZONA

August 3, 1954

Memorandum

To : Walter R. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Ariz.

From : William R. Hardwick, Mining Engineer, Tucson, Ariz.

Subject : Semi-Annual Report on certified Project for the Period January 1, 1954 to June 30, 1954, Docket DMA-269X-B, Contract I-DMA-E33, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz.

In accordance with the provisions of DMEA Circular 32, and at the direction of Walter R. Storms, Chief, Mining Methods Branch, Tucson, Ariz., the Twin Buttes copper mines were visited on July 8, 1954. E. C. Bowman, acting for Allen B. Bowman, manager, accompanied the undersigned to the mine and B. W. Venable, mine superintendent, discussed the current diamond drilling program.

The underground mine was under water and has not been operated during the period of this report.

During June 1954, the Banner Mining Co. started a limited surface diamond drilling program to test anomalies that were developed by geophysical methods. On July 8, 1954 one test hole had been completed to a depth of 137 feet on the Copper King claim. This hole found no commercial ore, but did cut some oxidized copper minerals. A second hole had been started on the same claim. Venable stated that the company has devoted its entire effort toward completing the construction of the Mineral Hill mill and plant, and that as the Mineral Hill mine goes into production, more time will be devoted to exploration work at the Twin Buttes mines.

This contract was approved on June 30, 1951 for the purpose of rehabilitating the Copper Glance and Copper Queen mines to verify a reported underground ore reserve of about 30,000 tons of 6 percent copper ore, and to do additional exploration work if conditions indicated. Operations were started on August 15, 1951. A final audit on March 3, 1954 disclosed a total cost of $111,059.71 as valid and proper. The Government's agreed part of this cost was $55,529.85.

CC W. H. King (orig. & 7)
DMA-269XB
Cert. file
DF

WRHARDWICK:frj

A significant amount of ore was discovered and on March 9, 1954 a "Certification of Discovery or Development" was issued by the Defense Minerals Exploration Administration. A small ore-body, containing 4,057.4 tons of ore with a copper content of 4.91 percent, was discovered and mined during the life of the contract. In addition, 1.5 tons of metallics assaying 82.07 percent copper were salvaged during the project. The gross returns from this production were $107,388.31. The net smelter returns were $56,252.62 or $14.86 per ton. Royalty payments to the Government on the above production was $2,541.83.

The operator has estimated the present reserves as 50,000 tons of ore containing about 1.6 percent copper.

William R. Hardwick

William R. Hardwick, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: March 23, 1954
Payee's Reference: Progress Report
April, 1953 FINAL

Banner Mining Company
2042 Stravenue
Tucson, Arizona
Idm-133

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ 4,971.82

Difference $ 3,649.98

Amount Approved $ 1,322.84

The reason for the difference was due to:

Original Deposit on Power Bills		$1,765.00	
Credits subsequent to 2/31/53	$1116.17		
" " " 2/1 to 4/30	198.60		
		1,314.77	
		450.23	
Overcharge on Sampling & Analysis not applicable to Contract on Copper Assay		1.25	$451.48
One-half of liquidation of property			3197.50
			$ 3648.98

(Also one-half liquidation charged to March)

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: March 23, 1954
Payee's Reference: Progress Report

March, 1953

Banner Mining Co.,
2042 Stravenue
Tucson, Arizona
Idm-E33

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ 5,213.98

Difference $ 3,197.50

Amount Approved $ 2,016.48

The reason for the difference was due to:

One-half of the amount of the liquidation of property or $3,197.50

(Also one-half is charged to April)

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

224 New Customhouse
Denver 2, Colorado

March 25, 1954.

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMA-269XB (Copper), Contract No. I-DMA-E33, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Arizona.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the months of March and April 1953.

Also enclosed are two copies of a memorandum to Mr. T. A. Christensen, dated March 18, 1954, relative to final payment under the terms of the subject contract.

Final payment to the Operator in the amount of $1,669.66 has now been made in conformance with the Audit Certificate and Report by the Contract Administration and Audit Division dated March 3, 1954.

John F. Shaw
For W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

March 18, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMA-269XB (Copper), Contract No. I-DMA-E33, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Arizona. Operator's Monthly Progress Report for the months of March and April 1953. FINAL PAYMENT

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above months, which have been combined to form a single report. The report constitutes the Operator's final claim for reimbursement under the terms of the contract.

Also attached to each copy of the combined report are data relative to the liquidation of the Government's interest in property acquired under the contract.

Work has been accomplished as authorized in the contract and the Operator has complied with all requirements.

Final payment is recommended as follows, which is in conformance with the Audit Certificate and Report by the Contract Administration and Audit Division dated March 3, 1954, which was released to this office March 15, 1954.

Basis for Final Payment

Total accepted cost	$111,059.71
Government participation at 50%	55,529.85
Total prior payments	53,860.19
Balance due Operator	$1,669.66

Reconciliation with attached MF-104 Reports

Gross amount of claim for March 1953		$ 5,213.98
Gross amount of claim for April 1953		4,971.82
Total		$10,185.80
Disallowance as per final audit	$451.48	
Property liquidation	6,395.00	
		$6,846.48
Gross balance		3,339.32
Government participation at 50%		1,669.66
Balance due Operator on final claims		$1,669.66

W. H. King

Enclosures

JWT:cwm

cc: Contract
Secretary to the Oper. Comm. (2)
WRStorms
Chron.
JWTownsend

224 New Customhouse
Denver 2, Colorado

March 2, 1954

Mr. A. B. Bowman, General Manager
Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Re: Docket DMA 2094-B (Copper)
Contract I-DMA-E33

Dear Mr. Bowman:

Receipt is acknowledged of your letter of February 25, 1954, constituting your bid and proposal relative to the liquidation of the jointly owned property acquired under Contract I-DMA-E33. In conjunction therewith we are enclosing the Government's acceptance.

Receipt of your bid and proposal has enabled us to process for reimbursement to you Form MF-104 Operator's Monthly Report and Voucher for the months of January and February 1953. Final reimbursement to you on your claims for the months of March and April 1953 will be effected upon release to this office of an audit report and certificate by the Contract Administration and Audit Division.

As stated in the Government's acceptance of your bid and proposal the gross amount of your claims for the months of March and April 1953 will be reduced by an amount equal to both yours and the Government's interest in the property, in conformance with your bid, instead of your company rendering a check in the amount to the Government in the liquidation of the property.

Very truly yours,

W. H. King
Executive Officer, DMA
Field Team, Region IV

JWT:jp

Enclosure
cc Contract
Chron
WRStorms
AHKoschmann
MF-104 (5)
JWTownsend

224 New Customhouse
Denver 2, Colorado

March 2, 1954

Banner Mining Company
2642 Conner Stravenue
Tucson, Arizona

Re: Docket DMA 269X-B (Copper)
Contract I-DMA-B33

Gentlemen:

Consistent with the authority delegated to this office under Order No. 2644 from the Office of the Secretary, Department of the Interior, the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, does hereby accept your bid and proposal dated February 25, 1954 in the amount of $3,197.50 for the Government's interest in equipment and the unexpended portion of materials and supplies acquired under Contract I-DMA-B33.

A sum of $2,[illegible], reflecting both yours and the Government's interest in the property, will be deducted from the gross amount of claims by you held pending in this office for reimbursement under the terms of the contract upon release of a report of audit and certificate by the Contract Administration and Audit Division, thereby automatically making a deduction of the amount of $3,197.50 due the Government in the liquidation of the property acquired under the contract.

Very truly yours,

W H King

A. H. King
Executive Officer, DMA
Field Team, Region IV

JWT:jp
cc Contract
Chron
WHStorms
AHHoschmann
MF-104 (5)
JWTownsend

February 26, 1954

Memorandum

Register

To : W. H. King, Chief, Mining Division, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : Equipment and Supplies Bids, Contract I-BMA-K33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mines, Pima Mining District, Pima County, Ariz.

Enclosed are original and 5 copies of a letter from the Banner Mining Co. with bids on equipment and supplies which were purchased under Contract I-BMA-K33. T. M. Ramale and I have scanned the bids and they seem fair enough.

You will note that Smith and Barrett failed to bid on the Physical Improvements. However, these improvements, amounting to $5,354.27, consisted of repairs to the headframe, the ore bins and the hoisthouse. Of this $5,354.27, timber costs amounted to $111.34, building materials and supplies amounted to $1,545.16, and labor and supervision amounted to $3,697.77. The hoisthouse is the only building included under this item of Physical Improvements and it probably isn't worth tearing down to salvage the materials.

The Banner Mining Co. is high bidder for the equipment and supplies, bidding $3,197.50 for the Government's share. As this seems to be a just and fair amount, I recommend that it be accepted.

Walter R. Storms

Walter R. Storms

CC W. H. King (5)
DMA-269XB
DF

WRStorms:frj

February 25, 1954

Defense Materials Exploration Administration
224 New Customhouse Building
Denver 2, Colorado

Re: Contract #I-DMA-1-33

Gentlemen:

The purpose of this letter is to set forth our proposal for a settlement of the Government into cst in property purchased for use on the project and paid for or purchased with funds contributed jointly by our Company and the Government. This property includes individual items of equipment and facilities, buildings and other fixtures costing more than $50.00 each. It also includes materials and supplies considered in groups or categories such as pipe, rails, drill steel etc, if the original cost of the remaining unexpended portion of any such category of materials or supplies exceeds $50.00.

This mine has been put on a standby basis for the present and no work is being carried on there with the exception of keeping the water pumped out.

Banner Mining Company wishes to retain this above mentioned property; so we have asked two dealers in used machinery, equipment and materials to bid on the categories we have at this project. Certified copies of the e bids are attached to this letter.

Both of the firms bidding on this property have made their bids contingent upon all items being salva ed and returned to the surface of the mine.

Banner Mining Company has bid higher than either of the above concerns and has made its bid on an as is where is basis. This would le ve the salvage cost to be born by Banner.

Schedules 1 and 2 and A to H inclusive together with a summary of schedules is attached hereto which show the cost of each category and our proposed basis of settlement.

Other than items listed in Schedules 1 and 2 and A to H inclusive, there was no other facility, building, fixture or piece of equipment and materials and supplies grouped in use categories which had an original cost of more than $50.00 which remain unexpended.

Contingent upon approval of our proposal, we will render you a check in the amount of $3,197.50 which conforms to the amount due the government according to the attached schedules.

On rendering this check the government will be enabled to process for payment the forms MF-104 reports and vouchers for the months of January, February, March and April 1953 in the amount of $9,179.40. This amount is subject to the government audit.

I trust that our proposal will meet with your approval. However, it you require additional information, please advise.

Yours very truly,

BANNER MINING COMPANY

A. B. Bowman
General Manager

ABB:d

Encs: As stated

P.S. (1) The condition of the pump portion of the two Ingersoll-Rand motor pumps is poor.

(2) With the advent of pusher type drilling machines, the Ingersoll-Rand DA-30 drifter is now almost obsolete. The miners will not use it as they can now do the same work easier with the lighter machines.

PAUL F. SMITH

Machinery
39 West Adams Street Phoenix, Ariz

February 11, 1954

Banner Mining Company
Mr. Allen Bowman
2042 Conner Stravenue
Tucson, Arizona

Dear Sir:

With reference to the Twin Buttes Project, for this equipment we would offer you, prices as below - the equipment to be on the surface, so that we could readily load it:

1 - MotorPump Ingersill Model 2 MRV #09515853	$300.00
1 - " 2 MRV #A516540	300.00
1 - Lot 1100 ft 3/4" Roebling 6 x19 regular lay wire cable	50.00
4 - Used Mine Ore Cars	100.00
1 - "	25.00
1 - Drifter Ingersoll Model Da30 #672721	75.00
1 - Mucking Machine Gardner-Denver Model 9 -Serial #173187	1000.00
1 - Lot of 100 ft 1" air-hose w/fittings; and 50 ft. waterhose	10.00
1 - Blower Coppus Ventair 15 hp #5252080	175.00
	2035.00

For supplies, etc., such as listed below, we would offer you following percentages of your original costs:

Air and water hose	30%
Drill steel and bits	10%
Electrical fittings and supplies	20%
Mine track accessories	15%
Pipe fittings and accessories	15%
Tools and small equipment	20%

We hope for your favorable consideration; and we are,

Very truly yours,

/s/Paul F. Smith

CERTIFIED TRUE COPY

A. P. Bowman
Manager

Business Phone 2-8311 Home Phone 4-0264

BOB BARRETT
Used Mining and Industrial Equipment Bought and Sold
Appraisers and Liquidators
Shop and Yard 2210 South Freeway
P.O. Box 2804 Tucson, Arizona

February 10, 1954

Banner Mining Company
2042 Connell Stravenue
Tucson, Arizona

Attention Mr. Allen Bowman

Dear Mr. Bowman:

Your request for a bid on the list of equipment at the Twin Buttes project has been received and we submit our bid as follows:

1 -Ingersoll-Rand-2MLV-50 Motor Pump Serial Number 09515853.....$	350.00
1 -Ingersoll-Rand -2MLV-50 Motor Pump Serial Number A516540.....	325.00
1100' 3/4" 6x19 Roebling Regular Lay Wire Rope.....	55.00
4 -Used Mine Ore Cars @ $25.00 each.....	100.00
1 -Used Mine Ore Car @ 25.00.....	25.00
1 -Ingersoll-Rand BA 30 Drifter, Serial Number 672721.....	75.00
1 -Gardner Denver Mucking Machine Serial Number 173187.....	1250.00
100' 1" Air Hose & Fittings & 50' 1" Water Hose.....	10.00
1 -Coppus Ventair Blower 15 HP #5252080.....	200.00
	$2390.00

Above offer for above equipment is as is and where is f.o.b. surface at the mine.

Your miscellaneous small tools, electrical materials, small equipment, air and water hose and pipe and fittings and rail and all supplies etc. would be worth to us 25% of list price in as is condition and located on the surface at the mine.

Yours truly,

/s/ Bob Barrett
BOB BARRETT

BB/e

CERTIFIED TRUE COPY

A. L. Bowman
Manager

SUMMARY OF SCHEDULES

Article	Schedule	Cost	Basis of Settlement	Amount
Operating Equipment Purchased	(1)	$ 7,400.93	33.10% of Cost to Project	$ 2,450.00
Physical Improvements	(2)	5,354.27	30.82% " "	1,650.00
Pipe	"A"	2,607.67	25.89% " "	675.00
Pipe Fittings	"B"	556.36	26.96% " "	150.00
Track	"C"	1,807.87	27.66% " "	500.00
Track Accessories	"D"	686.71	26.94% " "	185.00
Drill Steel & Bits	"E"	459.79	26.10% " "	120.00
Tools & Small Equipment	"F"	328.36	30.45% " "	100.00
Electrical Supplies, Equipment & Accessories	"G"	1,732.81	25.97% " "	450.00
Hoses & Fittings	"H"	340.22	33.80% " "	115.00
Totals		$21,274.99		$ 6,395.00
Government Interest 50%				3,197.50
Reimbursement Due Government				3,197.50

ABSTRACT OF ATTACHED BIDS

Article	Cost	Bob Barrett Machinery Co Bid	Paul Smith Machinery Co. Bid	High Bid	Banner Mining Co. Basis
Operating Equipment Purchased	7,400.93	2,390.00	2,035.00	2,390.00	2,450.00
Physical Improvements	5,354.27	- - -	- - -	- - -	1,650.00
Pipe	2,607.67	651.92	391.15	651.92	675.00
Pipe Fittings	556.36	139.09	83.45	139.09	150.00
Track	1,807.87	451.97	271.18	451.97	500.00
Track Accessories	686.71	171.68	103.01	171.68	185.00
Drill Steel & Bits	459.79	114.95	45.98	114.95	120.00
Tools & Small Equipment	328.36	82.09	65.67	82.09	100.00
Electrical Supplies	1,732.81	433.20	346.56	433.20	450.00
Hose & Fittings	340.22	85.06	102.07	102.07	115.00
TOTALS	$21,274.99	$4,519.96	$3,444.07		$6,395.00

There follows Schedules (1) and (2) pertaining to the Operating Equipment and Physical Improvements accomplished under Contract I-DMA-E-33

SCHEDULE (1)

Operating Equipment Purchased

Item	Quantity	Original Cost
Ingersoll-Rand Motor Pump Model 2 MRV Serial #09515853	1	$ 1,121.99
Ingersoll-Rand Motor Pump Model 2MRV Serial #H516540	1	1,095.91
3/4" Roebling 6 x 19 Regular Lay Wire Cable	1100'	316.80
Used Mine Ore Cars	5	175.00
Ingersoll-Rand DA30 Drifter Serial #672721	1	895.00
Gardner-Denver Model 9 Mucking Machine #173187	1	3,095.00
1" Air Hose & Fittings ½" Water Hose & Fittings	100') 50')	136.33
Coppus Ventair Blower 15 HP #5252080	1	564.90
Total		$ 7,400.93

SCHEDULE (2)

Physical Improvements

Timber	111.34
Building Material & Supplies	1,545.16
Labor, Supervision etc	3,697.77
Total	$ 5,354.27

There follows Schedules "A" to "H" inclusive of Supplies, Material and Accessories, purchased under Contract I-DMA-E-33, which were unexpended on completion of the project. The Schedules are broken down to use catagories, the original cost of which exceeds $50.00, in which the Government has an equity.

SCHEDULE "A"

Pipe

Item	Quantity	Original Cost
½" Galvanized Conduit	40'	4.82
½" Black Pipe	80'	5.40
3/4" Galvanized Pipe	40'	5.84
1" Black Pipe	2289'	359.65
1½" Black Pipe	168'	28.00
2" Black Pipe	1133'	367.45
3" Black Pipe	2079'	1,689.22
3" Galvanized Conductor Pipe	24'	7.20
4" Black Pipe	126'	140.09
Total		$2,607.67

SCHEDULE "B"

Pipe Fittings

Item	Quantity	Original Cost
Pipe Fittings	Misc*	$556.36

* These items are too numerous to inventory, therefore settlement is proposed on the basis of a percentage of the total cost to the project.

SCHEDULE "C"

Track

Item	Quantity	Original Cost
Rail - 16#	3555'	$1,371.65
Rail - 12#	1905'	436.22
Total		$1,807.87

SCHEDULE "D"

Track Accessories

Item	Quantity	Original Cost
Bolts, Spikes & Fish Plates	Misc *	$ 686.71

* Items too numerous to inventory, therefore settlement is proposed on the basis of a percentage of the total cost to the project.

SCHEDULE "E"

Drill Steel and Bits

Item	Quantity	Original Cost
Drill Steel & Bits	Misc *	$ 459.79

* Items too numerous to inventory, therefore settlement is proposed on the basis of a percenta e of the total cost to the project.

SCHEDULE "F"

Tools & Small Equipment

Items	Quantity	Original Cost
Picks, Shovels, Hammers, Bars, Etc	Misc *	$328.36

* Items too numerous to inventory, therefore settlement is proposed on the basis of a percentage of the total cost to the project.

SCHEDULE "G"

Electrical Supplies

Item	Quantity	Original Cost
Wire, Switches, Boxes, etc	Misc *	$1,732.81

*Items too numerous to inventory, therefore settlement is proposed on the basis of a percentage of the total cost to the project.

SCHEDULE "H"

Hoses & Fittings

Item	Quantity	Original Cost
Air & Water Hoses & Fittings	* Miscellaneous	$340.22

*Items too numerous to inventory, therefore settlement is proposed on the basis of a percentage of the total cost to the project.

PROPERTY OF THE UNITED
States Bureau of Mines
RECEIVED
MAR 29 1954

MINING DIVISION
REGION IV

September 4, 1953

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : Lincoln A. Stewart for Walter R. Storms, Chief
Mining Methods Br., Mining Div., Region IV

Subject : April 1953 Progress Report, Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's report, with map;
(3) Forms MF-104 and MR-104A;
(4) Certified copy of Ventair blower invoice;
(5) Certified copy of diamond drilling invoice.

Also enclosed are two extra copies of our engineer's report.

This April report has been delayed for various reasons known to the Denver office. I recommend that the Government's share of these costs be paid, subject to approval of the amendment under which this work was performed. As is customary under long form contracts, sufficient funds should be with-held to protect the equity of the Government until the project is finalized.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
for Walter R. Storms, Chief
Mining Methods Division
Mining Division, Region IV

CC W. H. King 6
DMA-269XB
DF

LAStewart:frj

MINING DIVISION
REGION IV

September 4, 1953

Memorandum

To : Walter R. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for April 1953, Banner Mining Co.'s Twin Buttes Mines, Pima County, Ariz., DMA Docket 269XB, Contract I-DMA-E33.

The Twin Buttes mines were visited May 5, to check progress for April and to determine if work performed was in accordance with the contract. Equipment and supplies used during April were inventoried before inspecting pertinent underground works with B. W. Venable, superintendent.

Progress for April, as reported by Mr. Venable during the inspection trip, was confined to the 600 level where Queen West heading was advanced 4.5 feet and the raise from this heading was driven 43.0 feet. The raise is being driven to partially explore the ore zone encountered by diamond drilling. All of the advance in the raise was in ore containing an estimated 5 percent copper. A blower was installed to ventilate the above mentioned workings.

Other progress, as shown in the Operator's Report, consisted of 27 feet of advance in hole 26 that I reported as having been completed during March. I verified the advance by inspecting the core and log of the hole on Sept. 2. The inspection showed the hole was at 163 feet on March 30 and was advanced 27 feet and bottomed in limestone at 190 feet, during the first part of April. The hole encountered the Beta fault at 175 feet. No ore was penetrated.

During April, 474 dry tons of crude ore containing 4.73 percent copper, was reportedly produced and shipped to American Smelting and Refining Co.'s smelter at El Paso. The ore was produced from the drift and raise in the recently discovered deposit. The deposit, according to the Operator, contains an estimated 5,200 tons of 4.8 percent copper ore.

CC W. H. King (Orig. & 6)
DMA-269XB
DF

TMRomslo:frj

Contract, Forms MF-104 and MF-104A, and Operator's Narrative Report

1. The work performed and for which claim is made is as reported on Form MF-104A.

2. The claim for the work is subject to approval of the Operator's requested amendment of July 8. (The Operator's letter requesting the amendment was originally received in April, but was returned for additional information)

3. The supply and service charges do not appear excessive. The charges for diamond drilling and equipment purchased are supported by certified invoices. Charges for depreciation of equipment consist of $41.66 for each the pick-up truck and hoist, $225.00 for the compressor, and $14.00 (7 hours @ $2.00 per hour) for the truck.

4. On June 1, the Operator requested that the project be terminated April 30. In event the request is approved, the Government's equity in the project should be protected by withholding sufficient funds from payments due the operator until the project is finalized.

5. The Operator's Narrative Report, with attached map, is considered adequate.

T. M. Romslo, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

August 29, 1953

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re: DMA Contract No. I-DMA-E-33, Docket No. 269-I-B, pertaining to the Twin Buttes property south of Tucson, Arizona.

Gentlemen:

Below is a list of work completed under the Twin Buttes DMA project during the month of April 1953:

(1) 27 feet of diamond drilling was done during the month. Hole #26 was bottomed in limestone at 190 feet, terminating the current drilling program in this area, as explained in the March, 1953 report.

(2) The Queen west raise was advanced up in ore a distance of 43 feet on an average inclination of about 50°.

(3) The Queen west heading was advanced 4.5 feet. It is impossible to work the raise and present heading simultaneously, due to the fact that the ore-pass side of the raise must be left open as a mucking machine drawpoint in order to pass large flat boulders of waste which fall into the ore from the hanging wall. Ore from this draw point covers up the track on the drift and makes simultaneous raise and drift operation impracticable.

(4) A blower was installed on the Queen 7th level for ventilation of the west raise.

(5) A final map showing April development in the west Queen area is appended.

(6) Eight carloads of pyritic crude ore from the west Queen raise were shipped to the El Paso smelter during April. They totaled approximately

434 tons (dry) and averaged 4.73% copper.

(7) Ore reserves as indicated by diamond drilling amounted to about 80 tons per vertical foot of 4.8% copper ore, or 65 x 80 = 5200 tons between the 6th and 7th levels of the Queen mine.

Mr. A. B. Bowman was away from the project 17 days in April. His time for these days was not charged to the project.

This letter is intended as a narrative report covering progress during the month of April, 1953.

Respectfully submitted,

Banner Mining Company

By Bill Kenable
Engineer

COPY

Fo[illegible]104 (Rev.)
(Ap[illegible]952)

Budget Bureau No. 42-R1036.8.
Approval expires 6-30-53.

UNITED STATES
[redacted]PARTMENT OF THE INTERIOR[redacted]
D[illegible]NSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Apr 11, 195 3 Docket No. DMEA 269-X-3 Contract No. I-[illegible]-33
Operator's Name Banner Mining Company Minerals Copper
Address 2012 Cenner Avenue, Tucson, Arizona
Contract Amount, $ 135,789.00 Government Participation 50 % Amount, $ 67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling-Diamond	67.50	5,942.75	6,010.25			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1,985.61	46,725.67	48,711.28			
Supervision	690.10	11,585.73	12,265.83			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	118.33	2,743.42	2,861.75			
Explosives	132.64	576.29	708.93			
Pipe	4.75	3,131.44	3,136.19			
Track		2,494.58	2,494.58			
Other Supplies	276.50	5,451.53	5,728.03			
Power	338.35	6,360.65	6,699.00			
(4) Operating Equipment:						
Rental						
Purchase	564.90	6,336.03	7,400.93			
Depreciation	322.32	5,381.44	5,703.76			
(5) Initial Rehabilitation and Repairs		5,354.27	5,354.27			
20% Power Bill Credit, etc.	67.00	517.23	450.23			
(7) Miscellaneous:						
Repairs to Equipment	6.84	993.15	999.99			
Sampling and Analysis	149.25	288.25	437.50			
Payroll Taxes	89.83	1,881.24	1,971.07			
Liability Insurance	236.07	5,669.28	5,905.35			
Accountant Salary	65.83	1,054.42	1,120.25			
(8) Contingencies (specify):						
TOTALS	4,971.82	112,987.37	117,959.19	4,971.82	112,987.37	117,959.19
				*	53.00	53.00
				**	451.48	451.48
				***	-3,197.50	-3,197.50
					1,322.84	112,934.37	114,257.21

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

Date Aug. 29, 1953 *Payee Banner Mining Company

Per A. S. Bowman Title Superintendent

*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 hereby certify that this account is correct and proper for payment in the amount of: $ 661.42

Signature [illegible]
(Authorized Certifying Officer)

Date 3/24/54 Vou. No. DMEA 54-93

(See other side)

*Previous Disallowance
** Disallowed by DMEA Audit 3/15/54
*** 1/2 Liquidation of Property (1/2 also in March)

(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. 3-DMA-E33 in accordance with the terms of the contract.

Signature [illegible] for WRS Title Mining Engineer Date Sept 4, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W H King Title Executive Officer Date MAR 19 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
AUG 29 1954

Month of April 1953 Docket No. DMEA 269-X-B Contract No. I-DMA-E-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Conner Stravenue, Tucson, Arizona

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		68.43	4.5	3,255.87	46	70.77		
Crosscutting								
Raising	*	4,220.05	43.0	4,220.05	43	98.15		
Shafts								
Winzes								
Drilling: Core	**	118.44	27	12,587.96	2,297.5	5.48		
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				84,622.88				
TOTAL DISTRIBUTED COSTS		4,406.92		104,686.76				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		564.90		7,400.93				
Initial Rehabilitation and Repairs				5,354.27				
New Buildings, Improvements, etc.				517.23				
TOTAL COSTS		4,971.82		117,959.19				

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 29, 1953 Operator Banner Mining Company

Per A. B. Bowman Title Manager

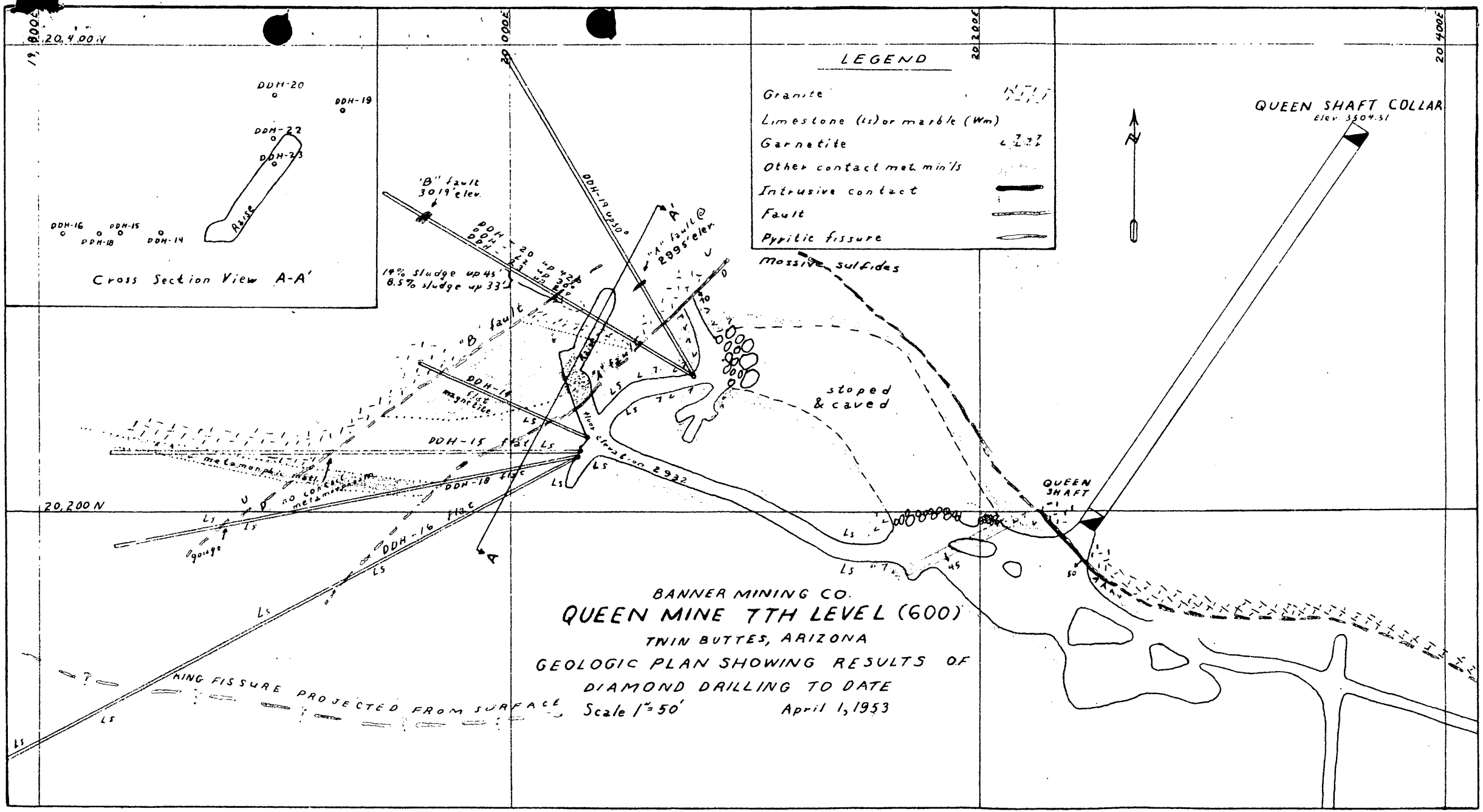
NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

REMARKS: *This includes the tramming cost of 434 tons of ore over approx. 2100' & hoisting through Glance Shaft. **This amount includes Diamond Drill Contract charge $67.50, Supervision 27.20, Depreciation 12.89, Power 10.85

(For Government use only)

A. B. Bowman
Manager


LEGEND
Granite
Limestone (Ls) or marble (Wm)
Garnetite
Other contact met. min'ls
Intrusive contact
Fault
Pyritic fissure
Massive sulfides
Cross Section View A-A'
DDH-20
DDH-19
DDH-22
DDH-23
DDH-16
DDH-15
DDH-18
DDH-14
Raise
QUEEN SHAFT COLLAR
Elev. 3504.51
QUEEN SHAFT
stoped & caved
"B" fault 3019' elev.
"A" fault @ 2995' elev.
19% sludge up 45'
8.5% sludge up 33'
DDH-19 up 10°
DDH-20 up 42°
DDH-22 up 30°
DDH-23 up 30°
DDH-14 flat
magnetite
DDH-15 flat
DDH-18 flat
DDH-16 flat
metamorph. rest.
no contact metamorph.
floor elevation 2932
gouge
RING FISSURE PROJECTED FROM SURFACE
20,200 N
19,800 E
20,000 E
20,200 E
20,400 E
BANNER MINING CO.
QUEEN MINE 7TH LEVEL (600)
TWIN BUTTES, ARIZONA
GEOLOGIC PLAN SHOWING RESULTS OF
DIAMOND DRILLING TO DATE
Scale 1"=50'
April 1, 1953

MINING DIVISION
REGION IV

July 13, 1953

Memorandum

To : W. H. King, Chief, Mining Engineer, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : March 1953 Progress Report, Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following:

(1) Revised Bureau of Mines engineer's report;

(2) Original operator's narrative report with drill hole logs and maps;

(3) Original Forms MF-104 and MF-104A.

Also enclosed are two extra copies of our engineer's report.

As you know, this work is not according to terms of the contract. However, the company is applying for an amendment which it hopes will legalize this work.

When and if such an amendment is submitted and approved, I recommend that the Government's share of these costs be paid.

Walter R. Storms

Walter R. Storms

CC W. H. King (6)
DMA-269XB
DF

WRStorms:frj

MINING DIVISION
REGION IV

July 9, 1953

Memorandum

To : Walter R. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for March 1953, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz., DMA Docket 269AB, Contract I-DMA-233

The Twin Buttes Mines were visited on April 13 to check progress for March and to determine if work performed was in accordance with the contract. Ray Robinson, U. S. Geological Survey, accompanied me for the purpose of becoming acquainted with the project. The logs and cores of diamond-drill holes were inspected and an inventory of supplies used was taken before inspection of the project was made in the company of B. W. Venable, who was recently promoted to Superintendent.

Progress for March consisted of diamond-drilling 4 holes for a total of 545 feet, and 41.5 feet of advance in the Queen west crossuct, all on the 600 level. Advance for diamond drilling was as follows:

Hole No.	Interval	Footage	Status
22	111 - 175	64.0	Complete
24	0 - 162	162.0	"
25	0 - 156	156.0	"
26	0 - 163	163.0	"
	Total footage	545.0	

Hole 22, one of the 3 holes that penetrated an ore body, was extended to obtain additional information and was bottomed in granite. Holes 24, 25 and 26, drilled in the Glance-Queen area to prospect the extension of the Queen contact, found no ore.

CC W. H. King (Orig. & 6)
DMMA-269AB
DF

TMRomslo:frj

The crosscut was driven to prospect the downward extension of ore cut by holes 20, 22 and 23. It penetrated about 20 feet of pyritic ore containing an estimated 4 percent copper. Two carloads of the ore from the exploration crosscut were shipped to the El Paso smelter of the American Smelting & Refining Co. The shipment totalled 105.4 tons and assayed 3.46 percent copper and 1.12 ounces of silver a ton. The section cut by the crosscut was smaller than that exposed by the drill holes. The upward extension of the ore body, a faulted segment of the stoped Queen ore body, will be prospected with a raise.

CONTRACT, FORMS MF-104 AND 104A, AND OPERATOR'S NARRATIVE REPORT

The following is based on the inspection of the project and a review of the subject data:

1. The work performed is as reported on Form MF-104 but the major portion of the work does not conform with the contract. This is in part a contradiction of the statement "That the work conforms with the contract", of my original report. The latter statement was made when I had not familiarized myself with Amendment No. 7 and consequently was unaware that unauthorized work had been performed.

2. The claim for the work performed is subject to approval of a proposed amendment that will be submitted by the Operator. My recommendations for approval of the proposed amendment will explain why all work performed was deemed necessary.

3. The supply and service charges of Form MF-104 were necessary and do not appear to be excessive. The charge for diamond drilling is supported by a certified invoice. Total charges of $308.32 for depreciation include $41.66 for each the pickup and hoist, and $225.00 for the compressor.

4. The Operator's Narrative Report is considered adequate. It includes:

(1) An explanation of the necessity for alterations in the specified drilling program; (2) plan maps of all holes drilled in the 2 areas; (3) vertical sections for holes 20, 22, and 23; and (4) logs of holes 18, 19, 20, 22, 23, 24, 25, and 26.

T. M. Romslo, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

April 21, 1953

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract Number I-DMA-E-33 Docket Number 269-X-B, Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of March, 1953:-

(1) 545' of diamond drilling was completed during the month. Hole Number 22 was extended 64 feet and bottomed in granite at a total depth of 175 feet, as explained in last month's report.

Hole Number 24 was drilled horizontally south from the Glance-Queen 600 level crosscut to prospect the extreme northeast extension of the Glance Contact. The contact was reached at 117 feet, but no ore was found, and the hole was bottomed in unaltered sediments at 162 feet.

Hole Number 25 was drilled up at an inclination of 22° from the same set-up as that for hole number 24, to prospect the contact as high as the limited space available at the drill station permitted. The hole cut the contact at 105 feet and bottomed in unmineralized sediments at 156 feet. No ore was penetrated.

Hole Number 26 was drilled from the same station as holes numbers 24 and 25, and for the same general purpose, except that Number 26 was directed so as to cut the contact as near as possible to the Beta fault (prominent Post (?) mineral normal fault with about 600 feet displacement). The hole cut the contact at 134 feet and was in metamorphic material, including considerable magnetite, from the contact to the Beta fault. The Beta fault was penetrated at 175 feet, and the hole was bottomed in limestone at 190 feet. 163 feet of the hole was drilled during March, and the hole was completed early in April. No ore was penetrated.

In view of the fact that no commercial mineralization has been found in any of the five holes in the West Glance contact at the 600 level elevation, drilling has been terminated in this area. We believe now that our work has been too low in section, and that there may be possibilities higher up, but for the present the West Queen area looks more favorable for immediate ore.

(2) The Queen West Crosscut was advanced 41.5 feet to prospect the downward extension of the ore shown in diamond drill holes Numbers 20, 22 and 23. A body

of pyritic ore averaging about 4% copper was penetrated, but no high grade ore was found at the drift level, and the section was smaller than that exposed by the drill holes. It appears that the ore may grow wider and better in grade as it goes up.

(3) A plan map showing all diamond drill holes in the Queen West end and the New Queen West crosscut is enclosed. A vertical section through holes numbers 20, 22 and 23 and a plan showing holes numbers 24, 25 and 26 are also enclosed.

As explained on our map submitted with our application for amendment 7, the course of the drift we drove west from the Queen West crosscut was determined by reference to geological information developed by our diamond drilling in this area.

Holes numbers 12, 13, 24 and 26 were to be extended out under a geophysical self potential anomaly as shown in the Bureau of Mines report of investigations Number 4732. This anomaly lay over the projected course of the Blance contact and seemed to be aligned with quartz pyrites fissures in the granite and the contact on this level. Our diamond drilling showed that the contact turned northward away from the anomaly.

Holes Numbers 24 and 26 were terminated before passing under the anomaly for the following reasons:- (a) Our geophysical work being carried out at the present time (another area) shows that it is desirable to have corroborative evidence using another method before drilling self potential anomalies. We drilled a surface diamond drill hole number 6 on the Minnehaha Falls claim directly over one of these geophysical self potential anomalies as shown on the map accompanying our application for amendment number 7. This hole was drilled to a depth of over 600 feet and was negative as far as ore mineralization is concerned. This hole was paid for 100% by Banner Mining Company and was drilled at no expense to the project or the government. (b) The maximum depth to which self potential readings are effective is between 200 and 300 feet. (This is our understanding). (c) All the ore known to have been shipped from the Queen and Blance Mines was found only on the intrusive contact between the granite and the limestone.

Hole number 25 was drilled up at the maximum inclination possible from the existing drill station. Our success in finding ore in the holes in the up-thrust block west of the Queen orebody prompted us to drill this hole above the level in this up-thrown block east of the Queen orebody. This hole was not extended beyond the contact for any distance for the same reasons as set forth in the previous paragraph.

We have discussed with Mr. T. M. Romslo of the Bureau of Mines, the necessity of the above diamond drilling and the necessity of amending the contract to provide for a more flexible drilling program to meet conditions as new data from the drilling became available.

Our application for the above mentioned amendment was prepared and submitted on April 7th.

Logs for holes numbers 18, 19, 20, 22, 23, 24, 25 and 26 are appended.

Two carloads of pyritic ore were shipped to the El Paso Smelter from the Queen West crosscut during March. They totalled 105.4 tons, and averaged 3.46% copper and

1.12 ounces of silver per ton.

A.H. Bowman was away from the project 12 days in March. I was away from the project four days in March. Our time for these days was not charged to the project.

This letter is intended as a narrative report covering progress during the month of March 1953.

Respectfully submitted,

Hanner Mining Company

By B.H. Kenable
Engineer

BHK:fmb

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1953 Docket No. DMEA 262-X-2 Contract No. [illegible]-33

Operator's Name Banner Mining Company Minerals Copper

Address 2242 Connor Stravenue, Tucson, Arizona

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	*	3,137.44	41.5'	3,137.44	41.5'	76.81		
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	**	2,026.54	545'	12,469.52	2270.5'	5.49		
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				84,622.83				
TOTAL DISTRIBUTED COSTS		5,213.98		100,279.84				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,836.03				
Initial Rehabilitation and Repairs				5,354.27				
New Buildings, Improvements, etc.				517.23				
TOTAL COSTS		5,213.98		112,937.37				

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 4-21-53 Operator Banner Mining Company

Per BL Venable Title Superintendent

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)

REMARKS: * Includes preparations for tramming development ore over approx. 2100 feet and hoisting through Alance Shaft, repair of old partially deteriorated track, and preparing to handle ore on surface, and actually tramming 117 mine cars of ore this distance in addition to waste handled.

**. This amount includes diamond drill contract charge 1,362.50, supervision 335.12, Deprec. 141.83, power 11.[illegible] Comp. Ins. 29.39, Payroll Taxes 11.73, ~~accountant salary 30.23.~~ These amounts are included under their respective headings on Form MF-104.

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 83-3847-5

DIAMOND DRILL HOLE LOG
HOLE #13 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-B

Underground hole, Queen West 600, to locate the contact between holes 15 & 16. Granite contact not found.

Collar Co-Ordinates- Latitude 20,224.33, Departure 20,027.65.
Collar Elevation- 2,934.94
Course Hole- S73° 55' W.
Dip Hole- Flat (up 35')
Driller- Ed Shandley
Size Core- EX
Average Core Recovery- 94.3%
Total Depth- 199.5'
Started 1-10-53- Finished 1-17-53
Logged By- B. W. Venable

From	To	Core Description	Core Recovery
0'	13'	White marble. ½" green garnet stringer at 10° with core axis at 0.5', Ditto at 3'.	12.4'
13'	23'	Pale Gray limestone	9.9'
23'	28'	White marble.	4.5'
28'	38'	White marble.	9.8'
38'	43'	White marble.	4.9'
43'	49'	White marble.	5.8'
49'	54'	White marble. Slightly altered in spots.	5.0'
54'	59.5'	White marble. about 3" of pink stain at 59.5'.	5.3'
59.5'	65'	Gray limestone to 64'. A 2" breccia zone at 60', making 20° with core axis. Garnet starting at 64' on a slip making 20° with core axis. No Gouge.	4.7'
65'	70'	Garnet. A little chalcopyrite & magnetite at 67'. Core shattered at 70'.	5.0'
70'	76.5'	Limestone. White to gray, all more or less altered. Slips make about 10° with core axis.	6.2'
76.5'	81.5'	Mixed white limestone & garnet. Some magnetite. no visible sulphides.	5.0'
81.5'	87'	First 1.5' is green garnet with tiny crystals. Visible sulphides. The rest is gray limestone, fresh.	5.0'
87'	92'	6" of Gray limestone, then limestone with garnet bands at about 25° with core axis, the rest of the distance. Slickensides at 90.5', on 2 slips making 25° with core axis, striae parallel to core axis, when viewed in plane of fracture. Last foot is quartzite.	4.7'
92'	102'	First 2½' is quartzite. Last 7½' is limestone.	10.0'
102'	111'	Limestone in all but last 1½'. Last 1.3' is garnetite with magnetite, pyrite, and very small amounts of chalcopyrite. Banding at about 10° with core axis.	9.0'
111'	116.5'	Gray limestone.	3.5'
116.5'	126.5'	Gray limestone. A 5" calcite stringer at 30° with core axis at 117'. A 1/8" veinlet of pyrite, quartz and chalcopyrite cuts across at 122', making 35° with core axis.	10.0'
126.5'	137'	Gray Limestone.	10.2'
137'	147'	Gray limestone	10.0'

COPY

HOLE #13 TWIN METALS PROJECT
CONTINUED

From	To	Core Description	Core Recovery
147'	151.5'	White limestone.	4.3'
151.5'	162'	First foot is white gouge. The rest is green contact silicate with small amount of magnetite.	9.1'
162'	168'	First 3' is talcy limestone, then about a foot of green silicates, then 2' of gray limestone.	5.2'
168'	174'	Gray limestone.	4.7'
174'	179.5'	Gray limestone.	4.9'
179.5'	184.5'	Gray limestone.	5.0'
184.5'	189.5'	Gray limestone. 6" of chlorite-pyrite banding at 45° with core axis at 194'.	5.0'
189.5'	199.5'	Gray limestone.	9.9'
199.5'		End Of Hole.	

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SAMPLE ASSAYS

102'	111'	Sludge #741-	0.82 copper.	
65'	70'	Sludge #750-	1.97 copper.	
65'	70'	Core #822-	1.56 copper.	
76.5'	81.5'	Core #823-	0.04 copper.	
81.5'	88'	Core #828-	0.04 copper.	
152'	162'	Core #836-	0.03 copper.	
162'	164'	Core #837-	0.44 copper.	
194'	199.5'	Core #861-	0.03 copper.	0.1 Zinc.

COPY

DIAMOND DRILL HOLE LOG
HOLE #19 TWIN BUTTES PROJECT
U.S. CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-3

Underground hole from Queen west stope end up approximately 50° to investigate the granite- limestone contact west of the two west Queen normal step-faults. This hole was intended to pick up a possible up-faulted extension of the Queen orebody. Hole was too high. A little chalcopyrite was found, however granite was never penetrated.

Collar Co-Ordinates- Latitude 20,259.44, Departure 20,077.80.
Collar Elevation- 2,944.37
Course Hole- N31° 03' W.
Dip Hole- Up 50°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 89.9%
Total Depth- 229'
Started- 1-24-53, Finished 2-11-53
Logged by- B. W. Venable

From	To	Core Description	Core Recovery
0'	10'	Brown garnet. A little sphalerite.	9.4'
10'	20'	Same.	8.2'
20'	30'	Same. Some Smithsonite (?)	3.2'
30'	46'	Garnet with heavy sphalerite30-40. A sort of calcite cemented breccia with considerable Smithsonite and a little rhodocrosite from 40-46	16.0'
46'	56'	Barren appearing brown garnet.	10.0'
56'	66'	Same. Fault gouge from 62 to 66, with planes of slickensides at angles of 5° to 60° with core axis.	10.0'
66'	76'	First 2' is fault material, same as 62'-66'. Then 5' of crystalline gray limestone, then the rest in hornfels.	10.0'
76'	84'	Brown garnet, coarsely crystalline.	5.0'
84'	89'	Brown garnet, coarsely crystalline. Some Smithsonite in seams. Core broken.	1.5'
89'	99'	First 4½' is flinty green garnet. the rest is crystalline gray limestone.	10.5'
99'	109'	Gray Xline limestone.	10.0'
109'	119'	Gray Xline limestone.	10.0'
119'	129'	Xline white marble.	6.7'
129'	139'	White marble.	10.0'
139'	149'	Gray marble.	10.0'
149'	159'	Gray marble.	10.0'
159'	169'	Gray marble. 2' of garnet at 10° with core axis at 166.5'-168.5', with one ½" band of chalcopyrite and pyrite making about 8° with core axis at 166.5'.	9.9'
169'	179'	White marble. A 3/4" band of pink Wollastonite runs through core almost parallel to core axis from 175 to 179'.	8.3'
179'	181'	White marble, Wollastonite band 179' to 180'.	1.7'
181'	191'	White marble. ½" garnet-wollastonite band at 3° with core axis at 190'-191'.	10.0'
191'	201'	White marble, very coarsely crystalline.	10.0'
201'	210'	Same.	9.0'
210'	220'	1½' brown garnet at about 3° with core axis at start, the rest in white marble.	6.5'

COPY

HOLE #19 TWIN BETTS PROJECT
CONTINUED

From	To	Core Description	Core Recovery
220'	229'	White marble. About 3" of core shattered at 228', and again at 229'.	9.0'
229'		End of Hole	

SAMPLE ASSAYS

10'	20'	Core #764-	Trace copper-	0.2 Zinc.
30'	36'	Core #765-	Trace Copper-	1.9 Zinc.
36'	41'	Core #767-	Trace Copper-	17.52 Zinc.
0'	10'	Core #862-	.04 Copper-	0.1 Zinc.
0'	20'	Core #863-	.03 Copper-	0.1 Zinc.
40'	46'	Core #881-		2.5 Zinc.
46'	56'	Core #882-		0.2 Zinc.
84'	89'	Core #886-		0.3 Zinc.
89'	94'	Core #887-	.39 Copper-	0.3 Zinc.

COPY

DIAMOND DRILL HOLE LOG
HOLE #20 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA Docket #269-X-B

Underground hole from Queen 600 West end stope, same general purpose as Hole #19, on a slightly different course and flatter angle. Granite still not found.

Collar- Co-ordinates- Latitude 20,259.00, Departure 20,075.95.
Collar Elevation- 2,944.89
Course hole- N58° 59'W
Dip Hole- Up 42°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 79.3%
Total Depth- 120.0'
Started 2-12-53 Finished 2-17-53
Logged By- B. W. Venable

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From	To	Core Description	Core Recovery
0'	6'	Garnet. 3" chalcopyrite at 5'.	2.6'
6'	16'	Garnet.	6.6'
16'	20'	Garnet. With some Smithsonite	3.7'
20'	30'	Garnet from 20' to 25'. Gouge at 24.5', making 30° with core axis. White limestone from 25' to 30'.	10.0'
30'	40'	White Limestone.	8.1'
40'	50'	White Limestone.	5.7'
50'	60'	White Limestone.	9.4'
60'	65'	1½' of white limestone core, then about a foot of broken core consisting mostly of actinolite, garnet and quartz, with a little of finely disseminated pyrite. Strong slickensides in broken section, making 5° with core axis.	2.6'
65'	75'	Fine grained garnetite 65' to 71'. Coarser grained pyritic garnetite 71'.	9.7'
75'	85'	Unmineralized green garnetite. Slickensides at 76½' making 30° with core axis.	10.'
85'	95'	85' to 89' is unmineralized green garnet. 89 to 94' is gray hornsfels. 94 to 95' is heavily pyritic garnetite with a little unidentified sooty black non-magnetic material. Slickensides at 5° with core axis in pyritic material.	10.'
95'	104'	First 4½' is pyritic material as above, with a few brown bands of sphalerite. The rest is white Limestone.	8.6'
104'	110'	Gray Limestone.	6.0'
110'	120'	Gray limestone. Last foot of core shattered.	5.2'
120'		End Of Hole.	

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SAMPLE ASSAYS

65'	75'	Sludge #783- 0.23 Copper
75'	85'	Sludge #784- 0.81 Copper
85'	95'	Sludge #785- 0.44 Copper 0.82 Zinc
95'	104'	Sludge #786- 4.62 Copper 7.90 Zinc
65'	75'	Core #894- 0.07 Copper 0.22 Zinc
75'	85'	Core #898- 0.04 Copper 0.2 Zinc.
85'	95'	Core #901- 0.41 Copper 0.4 Zinc.
95'	100'	Core #902- 1.68 Copper 11.6 Zinc.

Weighted average assay 95' to 104' 9.0' average 3.62% Copper and 9.16% Zinc.

DIAMOND DRILL HOLE LOG
HOLE #22 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-B

Underground hole from Queen 600 West end stope. Same purpose and course as hole #20, but on a flatter angle of inclination. Ore was penetrated between "A" and "B" faults. From the results of hole #23, it appears that "B" fault was not crossed and the hole was extended, and granite found.

Collar Co-Ordinates- Latitude 20,259.63 Departure 20,074.95.
Collar Elevation- 2,944.05
Course Hole- N58° 59' W. Dip Hole- Up 30°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 70.2%
Total Depth- 111'- Extended to 175'
Started 2-18-53 Finished- 2-21-53
Extension Started- 3-2-53 Extension Finished- 3-4-53
Total Final Depth- 175'
Logged By- B. W. Venable

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FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	5'	Garnetite.	3.5'
5'	10'	Garnetite.	3.2'
10'	15'	Garnetite.	5.0'
15'	20'	Garnetite.	3.5'
20'	30'	20 to 24' unmineralized garnetite. 24 to 28½' sphalerite in garnet. 28½ to 30' is white limestone. Abrupt change of garnet-limestone at 28½' at 20° with core axis.	10.0'
30'	40'	First 3.3' is white limestone. The rest is pyrite, chlorite, spongy quartz and a little chalcopyrite, mostly in the quartz.	5.2'
40'	50'	Pyrite, chlorite, spongy quartz and a little chalcopyrite.	2.9'
50'	60'	Heavy pyrite & chlorite from 50 to 56', with some black chalcocite coating on pyrite & a little chalcopyrite. From 56' to the end is strong chalcopyrite with small amounts of pyrite.	9.7'
60'	70'	Strong Chalcopyrite at 60' to 69'. Very massive 64½' to 66'. Last foot is hard dense blue slate. Chalcopyrite banding at about 12°.	10.0'
70'	80'	First foot is blue slate. Last 2 feet is gray limestone. The rest garnet.	10.0'
80'	90'	Shaly limestone.	10.0'
90'	93'	Shaly limestone. Core broken in last 6".	1.8'
93'	103'	White limestone. 1" garnet band at 101' at 10° with core axis.	10.0'
103'	111'	Gray limestone.	7.8'
111'	121'	Gray Limestone.	10.0'
121'	131'	White & gray limestone.	9.7'
131'	141'	About 6" of gray limestone core,. The remaining core is pale green metamorphosed material, appears to have been breccia before alteration. Considerable pale green chlorite.	1.3'
141'	150'	Gouge, with some crumbly garnetite and some soft magnetite Core mostly crumbled	5.2'
150'	155'	Crumbled chloritic gouge. Last few inches altered granite.	1.7'
155'	165'	Shattered granite, partially altered.	1.8'
165'	175'	Granite.	0.5'
175'		End Of Hole.	

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DIAMOND DRILL HOLE #22 CONTINUED

SAMPLE ASSAYS

20' to 30'	Sludge #787-	0.41 Copper	9.1 Zinc
30' to 40'	Sludge #788-	3.02 Copper	0.7 Zinc
40' to 50'	Sludge #789-	3.91 Copper	1.0 Zinc
50' to 60'	Sludge #808-	4.34 Copper	0.4 Zinc
60' to 70'	Sludge #805-	14.22 Copper	0.6 Zinc
70' to 80'	Sludge #806-	0.17 Copper	0.2 Zinc
80' to 90'	Sludge #809-	0.04 Copper	
90' to 100'	Sludge #807-	0.06 Copper	

Sludge averages 30'-70' 6.37 Copper 0.67 Zinc

20' to 30'	Core #903-	0.33 Copper	9.3 Zinc
30' to 40'	Core #904-	1.37 Copper	0.4 Zinc
40' to 50'	Core #905-	4.45 Copper	0.8 Zinc
50' to 60'	Core #913-	9.06 Copper	0.3 Zinc
60' to 70'	Core #914-	11.25 Copper	1.1 Zinc
70' to 80'	Core #915-	0.03 Copper	0.2 Zinc

Core average 30'-70' 6.53 Copper 0.65 Zinc

Weighted Averages

30'- 40'	10'	2.72 Copper
40'- 50'	10'	3.97 Copper
50'- 60'	10'	5.96 Copper
60'-70'	10'	13.17 Copper

Average 6.45% Copper

DIAMOND DRILL HOLE LOG
HOLE #23 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-I-B

Underground hole from Queen 600 west end stope. Same purpose and course as holes 20 & 22, but on a flatter inclination. Granite was found west of "B" fault. Ore was penetrated between "A" & "B" Faults.
Collar Co-Ordinates- Latitude 20,260.18 Departure 20,074.18
Collar Elevation- 2,943.13
Course Hole- N58° 59'W Dip Hole- up 21°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 72.9%
Total Depth- 128' Started- 2-23-53 Finished- 2-28-53
Logged By B. W. Venable

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FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	3'	Garnetite in blue limestone.	3.0'
3'	8'	Coarse Grained Garnet.	2.0'
8'	20'	Coarse Grained Garnet.	11.9'
20'	30'	Garnet, unmineralized, first 5' of core. Then fault gouge, the rest in pyrite and magnetite.	7.3'
30'	35'	Pyritic garnet. A little chalcopyrite. Core quite porous & quartzy.	3.5'
35'	40'	Pyrite & chalcopyrite in garnet.	4.1'
40'	50'	Pyrite & chalcopyrite in garnet.	5.9'
50'	60'	Pyrite & chalcopyrite in garnet.	3.4'
60'	70'	Pyrite & chalcopyrite in chlorite 60 to 64'. Predominate chalcopyrite 64 to 70'.	9.9'
70'	80'	Garnetite. Chalcopyrite disseminated in first foot, gradually diminishing to nothing.	10.0'
80'	82'	Black rock. Non-magnetic slickensides at 20° with core axis.	1.2'
82'	92'	Garnetite. Some scheelite noted under U.V. Lamp.	10.0
92'	102'	First 4' is garnetite, the rest is granite gouge, with slips at 10° with core axis. Striae not plain.	5.6'
102'	112'	Granite.	3.6'
112'	118'	Granite.	3.1'
118'	128'	Granite.	8.8'
128'		End Of Hole.	

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SAMPLE ASSAYS

25' to 35' Sludge #811 3.02 Copper 0.2 zinc
35' to 45' Sludge #817 2.96 Copper
45' to 55' Sludge #818 2.28 Copper
55' to 65' Sludge #819 8.54 Copper
65' to 75' Sludge #820 1.83 Copper
Sludge Average 25'-75' 50' average 3.73% Copper.

20' to 30' Core #935 0.47 Copper
30' to 35' Core #936 1.05 Copper
35' to 40' Core #937 3.96 Copper
40' to 45' Core #938 4.89 Copper
45' to 50' Core #939 2.91 Copper
50' to 60' Core #940 3.03 Copper
60' to 70' Core #942 11.78 Copper
Core average 30'-70' 40' average 5.28% Copper

DIAMOND DRILL HOLE LOG
HOLE #24 TWIN BUTTES PROJECT
DMA CONTRACT #I*DMA*E-33, DMA DOCKET #269-K-B

Underground hole from Queen-Glance 600 level crosscut, horizontal to the south to prospect the Glance Contact West Extension near its western extremity at a major northeast-southwest normal fault, probably postmineral in age. No ore was found.

Collar Co-Ordinates- Latitude 19,878.13 Departure 20,369.09
Collar Elevation 2,932.13
Course Hole- S52° 41'W Dip Hole- Flat (up 45')
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 83.8%
Total Depth- 162'
Started 3-5-53 Finished- 3-14-53
Logged By- B. W. Venable

****

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	8'	Granite.	3.9'
8'	11'	Granite.	1.6'
11'	21'	Granite.	9.0'
21'	32'	Granite.	8.8'
32'	37'	Granite.	5.0'
37'	47'	Granite.	10.0'
47'	57'	Granite.	9.4'
57'	69'	Granite.	7.5'
69'	75'	Granite.	4.8'
75'	85'	Granite. Last 2' shows brecciation, slickensides & a little pyrite. Core shattered in last 2'.	4.0'
85'	90.5'	Granite.	4.4'
90.5'	95.5'	Granite.	5.0'
95.5'	103'	Granite. ¼" pyrite at 40° with core axis at 103'	6.3'
103'	104'	Granite.	0.8'
104'	114'	First 5' is granite fading into, with no sharp line of distinction, a hard, dense material, mostly silica, which could be either a dense quartzite, silicified granite, or aphanitic contact phase of granite.	10.0'
114'	124'	Hornfels. Scattered garnet, magnetite & pyrite in slips in latter portion. about one foot of magnetite at 123'.	10.0'
124'	134'	Pyritic, garnetose, magnetitic hornfels. 6" chlorite gouge at 15° with core axis at 131'. Last 1½' is gray limestone.	10.0'
134'	142'	Partially metamorphosed limestone. Banding at 45° with core axis.	8.0'
142'	145.5'	Broken core. Mostly magnetite.	1.7'
145.5'	156'	Hornfels. 1½" of soft magnetite at 148'.	10.0'
156'	162'	Hornfels.	5.5'
162'		End Of Hole.	

****

SAMPLE ASSAYS

124' to 134'	Core Sample #977	0.26 Copper	0.3 Zinc.
142' to 143½'	Core Sample #978	Trace Copper	0.2 Zinc.
143½' to 145½'	Core Sample #979	1.06 Copper	0.3 Zinc.
145½' to 156'	Core Sample #980	0.12 Copper	0.2 Zinc.

DIAMOND DRILL HOLE LOG
HOLE #25 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA#E-33, DMA DOCKET #269-K-B

Underground hole from Glance-Queen 600 level Crosscut, inclined upward to the south, same general purpose as hole #24. No ore was found.

Collar Co-Ordinates- Latitude 19,878.78 Departure 20,368.86
Collar Elevation- 2,934.99
Course Hole- S 55° 02' W Dip Hole- Up 22°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery-
Total Depth- 156.0'
Started- 3-14-53 Finished 3-21-53
Average Recovery Through Contact Zone-
Logged By- B. W. Venable

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	5.5'	Granite.	5.2'
5.5'	12.5'	Granite.	5.0'
12.5'	19'	Granite.	6.5'
19'	23'	Granite.	2.6'
23'	32'	Granite.	7.9'
32'	40.5'	Granite.	5.7'
40.5'	49.5'	Granite. A little pyrite in seams at 35° with the core axis at 49' to 50'.	2.7'
49.5'	58'	Granite.	8.5'
58'	64'	Granite.	4.8'
64'	70'	Granite. 3/4" pyrite in a seam at 45° with core axis at 65'.	4.8'
70'	79'	Granite.	8.7'
79'	81.5'	Granite.	1.8'
81.5'	84'	Granite.	2.5'
84'	89'	Granite.	4.8'
89'	93'	Granite.	2.3'
93'	103'	Partly silicified granite.	10.0'
103'	108'	Partly silicified granite 103-105'. At 105' there is 2" of chlorite material containing heavy pyrite and a small amount of chalcopyrite. The rest of the core is garnetite of a type observed to result from the garnetization of shale or hornfels. Slightly pyritic core.	5.0'
108'	114'	Soft pale green silicates. Apparently partly talc or chlorite.	5.1'
114'	118'	Pale green talc. Core shattered. 3" of dark green pyritic chlorite at 117.5'.	2.7'
118'	125'	Green Garnetite. Garnet banding at 122', makes 50° with core axis.	5.0'
125'	131'	Soft crumbly green contact silicates.	5.4'
131'	137'	Barren garnetite.	5.4'
137'	142'	Gray Limestone.	5.0'
142'	148.5'	First foot is gray limestone. The rest is hornfels.	3.1'
148.5'	156'	Porous, white non-calcareous rock with a few tiny black specks in it. Unidentified.	2.0'
156'		End Of Hole.	

SAMPLE ASSAYS

114' to 118'	Sludge #877	0.03 Copper.
118' to 125'	Sludge #878	0.14 Copper.
125' to 131'	Sludge #879	0.06 Copper.
131' to 137'	Sludge #880	0.04 Copper.

DIAMOND DRILL HOLE LOG
HOLE #26 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-I-B

Underground hole from Glance-Queen 600 Level Crosscut. Flat hole with same general purpose as holes 24 and 25, but designed to penetrate the contact closer to the Alpha fault than Hole 24. No ore was found.

Collar Co-Ordinates- Latitude 19,879.58, Departure 20,367.09
Collar Elevation- 2,892.00
Course Hole- S 71° 15' W, Dip Hole- Flat.
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 76.9%
Total Depth 190.0'
Started- 3-24-53, Finished 4-1-53
Average Core recovery through contact zone- 86.5%
Logged By- J. G. Cazort Jr.

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	5.5'	Granite.	5.2'
5.5'	12.5'	Granite.	6.4'
12.5'	21'	Granite.	4.7'
21'	27'	Granite.	5.4'
27'	35'	Granite.	8.0'
35'	39'	Granite.	2.9'
39'	41'	Granite.	2.0'
41'	48'	Granite.	6.6'
48'	59'	Granite.	2.8'
59'	65.5'	Granite.	4.8'
65.5'	71'	Granite.	4.3'
71'	75'	Granite. Small amount disseminated pyrite.	3.4'
75'	82'	Granite. Dike at 79' at 35° with core axis.	6.4'
82'	85.5'	Granite. Small amount of pyrite.	1.7'
85.5'	90'	Granite. ½" pyrite at 89' at 30° with core axis.	4.5'
90'	96'	Granite. 1/8" pyrite at 30° with core axis at 90.3'. disseminated pyrite throughout.	4.4'
96'	100'	Granite. 3/8" pyrite at 35° with core axis at 99.6'. Disseminated pyrite throughout.	4.0'
100'	108'	Granite. Irregularly distributed pyrite present.	4.4'
108'	116'	Granite. Slight alteration of granite visible. Pyrite present in stringers andas disseminated particles.	2.9'
116'	122.5'	Granite. Irregular patches of pyrite.	6.5'
122.5'	125'	Granite. 1/8" pyrite vein at 35° with core axis at 122.6'. Disseminated pyrite throughout granite.	2.5'
125'	134'	Granite. Hornfels contact at 133.8'.	2.8'
134'	141.5'	Hornfels to 135.1'. Calcareous garnet with irregular sections which are pyrite rich from 135' to 139'. Heavy dike with pyrite from 139' to 139.4'. Calcareous garnet from 139.4' to 141.5'.	7.1'
141.5'	145.5'	Garnet. No Lime.	2.5'
145.5'	155.5'	Garnet. No. lime.	10.0'
155.5'	163'	Garnet. Becomes slightly calcareous with disseminated pyrite at 157.2'. Altered dike from 158.5' to 159.8', slight pyrite in dike. Brecciated light colored non-calcareous material showing fault gouge and possible slickensides from 159.8' to 162'. Altered dike with slight pyrite from 162 to 163'.	6.2'

COPY

Diamond Drill Hole #26 Log (continued)

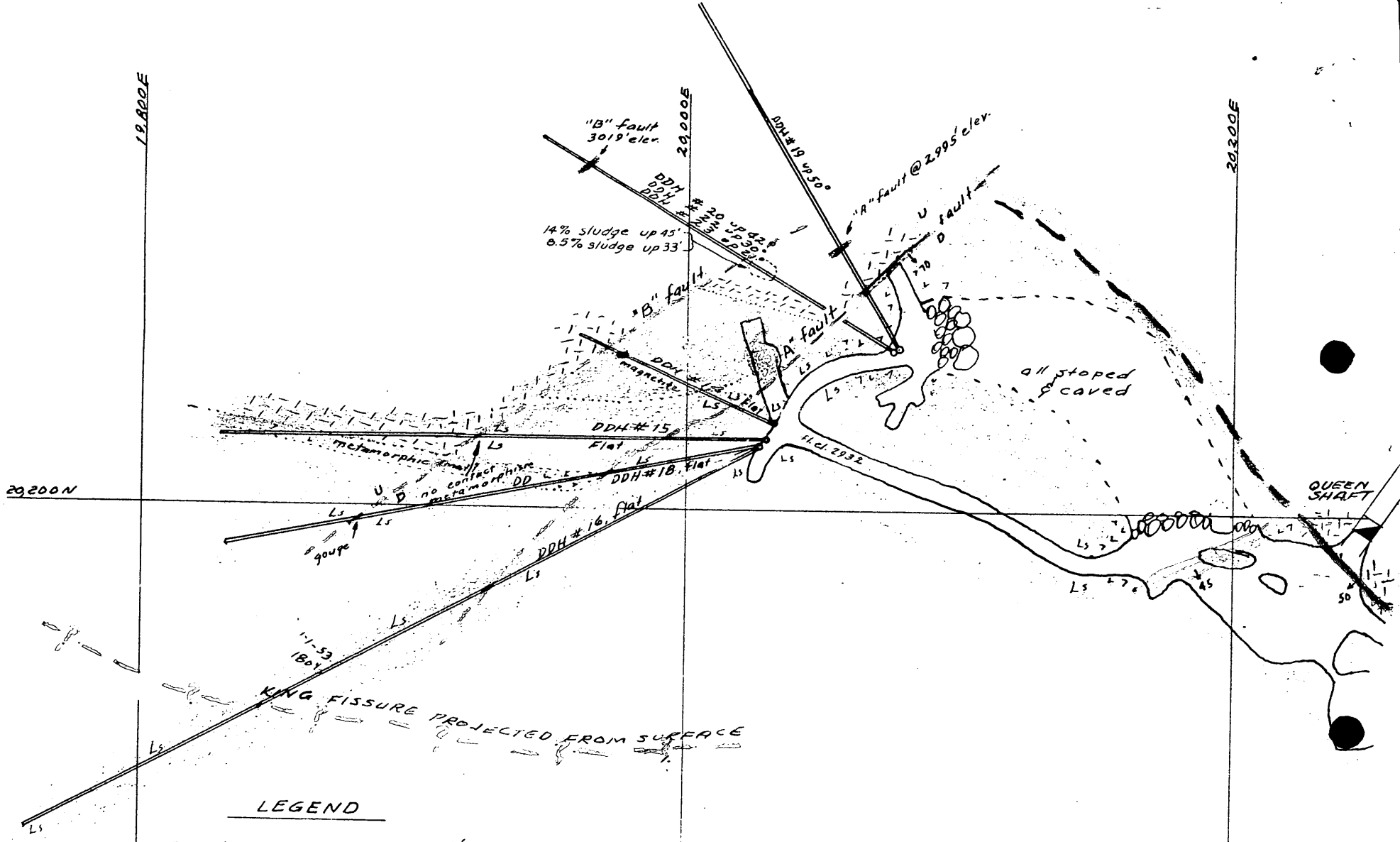
FROM	TO	CORE DESCRIPTION	CORE RECOVERY
163'	175'	Contact silicate with lime stringers. Moderate magnetism at 163', increasing to strong magnetism at 166.1'. Magnetism ends at 166.1'. Silicaous garnet breccia at 166.1'. Slight magnetism at 166.8'. Slight gouge. Magnetism increases with increase of black material in rock. Garnet breccia at 167.8'. Black magnetic micaceous silicate with little pyrite at 169.2'. White non-magnetic micaceous garnet silicate at 170.5'. Black micaceous magnetic silicate at 171.2'. Slight pyrite.	9.7'
175'	185'	Garnet breccia with lime stringers. Slickensides at 175.3' at 45° with core axis. Striae perpendicular to core axis when viewed perpendicular to plane of movement. Contact of breccia with gray limestone along slickensides with mullion structure at 30° with core axis at 175.8'. Striae at 75° with core axis when viewed perpendicular to plane of movement. Gray limestone with silicate stringers, crystallinity increases with depth of hole.	9.2'
185'	190'	Gray Limestone with silaceous stringers.	4.5'
190'		End Of Hole.	

****

SAMPLE ASSAYS

157' to 165'	Sludge#932	0.03 Copper	0.2 Zinc.
165' to 170'	Sludge #933	0.04 Copper	0.3 Zinc.
170' to 175'	Sludge #934	0.52 Copper	0.4 Zinc.
134' to 141.5'	Core #1003	0.07 Copper.	
155.5' to 163'	Core #1004	0.11 Copper.	
163' to 175'	Core #1005	0.36 Copper.	

COPY



LEGEND

- Granite
- Limestone (Ls) or marble (Wm)
- Garnetite
- Other contact met. minls
- Intrusive contact
- Fault
- Pyritic fissure
- Massive sulphides

N

BANNER MINING CO.

QUEEN MINE 600 LEVEL

TWIN BUTTES, ARIZONA

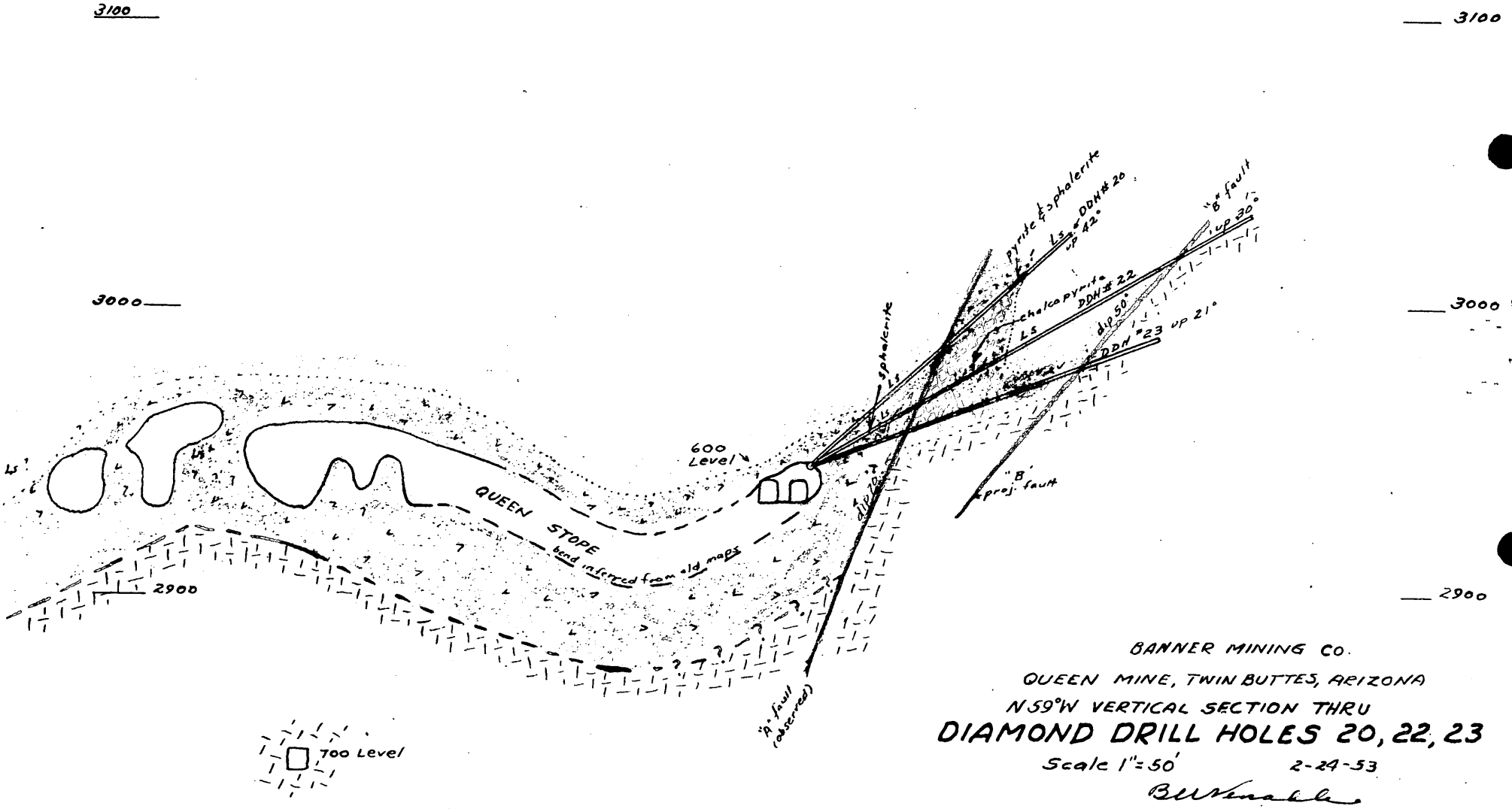
GEOLOGIC PLAN SHOWING RESULTS OF DIAMOND DRILLING TO DATE

Scale 1" = 50'

Jan. 8, 1953

B. W. Venable

Revised 2-6-53 B.W.V.
Revised 3-16-53 B.W.V.
Revised 4-10-53 J.G.C.



BANNER MINING CO.

QUEEN MINE, TWIN BUTTES, ARIZONA

N 59°W VERTICAL SECTION THRU

DIAMOND DRILL HOLES 20, 22, 23

Scale 1" = 50' 2-24-53

B. W. Vanable

Revised 3-16-53 B.W.V.

BANNER MINING CO.

QUEEN-GLANCE 600 LEVEL

TWIN BUTTES, ARIZ.

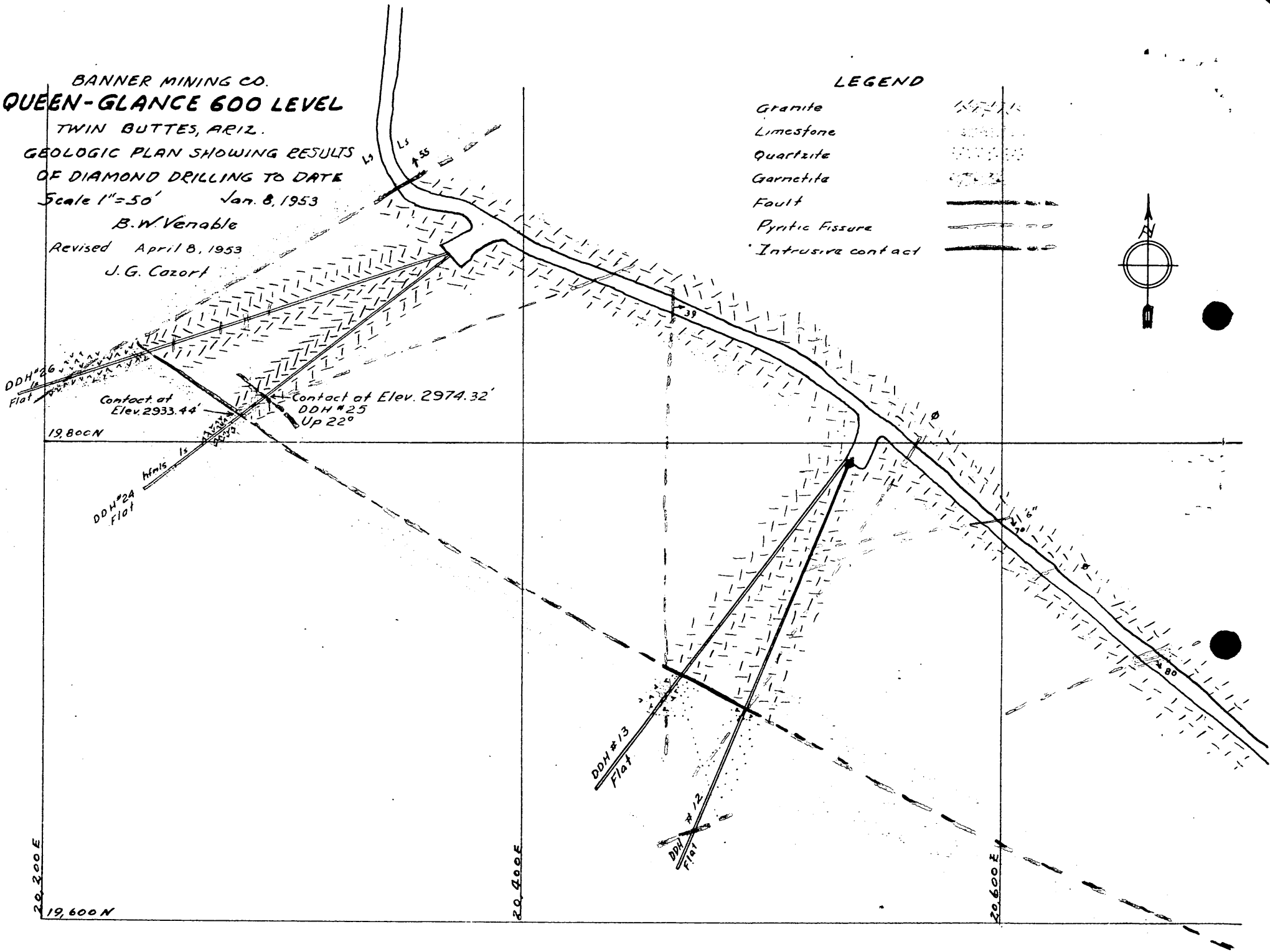
GEOLOGIC PLAN SHOWING RESULTS OF DIAMOND DRILLING TO DATE

Scale 1"=50' Jan. 8, 1953

B. W. Venable

Revised April 8, 1953

J. G. Cozort



MINING DIVISION
REGION IV

July 13, 1953

Memorandum

To : W. H. King, Chief, Mining Engineer, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : March 1953 Progress Report, Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following:

(1) Revised Bureau of Mines engineer's report;

(2) Original operator's narrative report with drill hole logs and maps;

(3) Original Forms MF-104 and MF-104A.

Also enclosed are two extra copies of our engineer's report.

As you know, this work is not according to terms of the contract. However, the company is applying for an amendment which it hopes will legalize this work.

When and if such an amendment is submitted and approved, I recommend that the Government's share of these costs be paid.

Walter R. Storms

Walter R. Storms

CC W. H. King (6)
DMA-269XB
DF

WRStorms:frj

MINING DIVISION
REGION IV

July 9, 1953

Memorandum

To : Walter R. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for March 1953, Banner Mining Co.'s Twin Buttes Copper Mines, Pima County, Ariz., DMA Docket 269XB, Contract I-DMA-233

The Twin Buttes Mines were visited on April 13 to check progress for March and to determine if work performed was in accordance with the contract. Ray Robinson, U. S. Geological Survey, accompanied me for the purpose of becoming acquainted with the project. The logs and cores of diamond-drill holes were inspected and an inventory of supplies used was taken before inspection of the project was made in the company of B. W. Venable, who was recently promoted to Superintendent.

Progress for March consisted of diamond-drilling 4 holes for a total of 545 feet, and 41.5 feet of advance in the Queen West crossuct, all on the 600 level. Advance for diamond drilling was as follows:

Hole No.	Interval	Footage	Status
22	111 - 175	64.0	Complete
24	0 - 162	162.0	"
25	0 - 156	156.0	"
26	0 - 163	163.0	"
	Total footage	545.0	

Hole 22, one of the 3 holes that penetrated an ore body, was extended to obtain additional information and was bottomed in granite. Holes 24, 25 and 26, drilled in the Glance-Queen area to prospect the extension of the Queen contact, found no ore.

CC W. H. King (Orig. & 6)
DMEA-269XB
DF

TMRomslo:frj

The crosscut was driven to prospect the downward extension of ore cut by holes 20, 22 and 23. It penetrated about 20 feet of pyritic ore containing an estimated 4 percent copper. Two carloads of the ore from the exploration crosscut were shipped to the El Paso smelter of the American Smelting & Refining Co. The shipment totalled 105.4 tons and assayed 3.46 percent copper and 1.12 ounces of silver a ton. The section cut by the crosscut was smaller than that exposed by the drill holes. The upward extension of the ore body, a faulted segment of the stoped Queen ore body, will be prospected with a raise.

CONTRACT, FORMS MF-104 AND 104A, AND OPERATOR'S NARRATIVE REPORT

The following is based on the inspection of the project and a review of the subject data:

1. The work performed is as reported on Form MF-104 but the major portion of the work does not conform with the contract. This is in part a contradiction of the statement "That the work conforms with the contract", of my original report. The latter statement was made when I had not familiarized myself with Amendment No. 7 and consequently was unaware that unauthorized work had been performed.

2. The claim for the work performed is subject to approval of a proposed amendment that will be submitted by the Operator. My recommendations for approval of the proposed amendment will explain why all work performed was deemed necessary.

3. The supply and service charges of Form MF-104 were necessary and do not appear to be excessive. The charge for diamond drilling is supported by a certified invoice. Total charges of $308.32 for depreciation include $41.66 for each the pickup and hoist, and $225.00 for the compressor.

4. The Operator's Narrative Report is considered adequate. It includes:

(1) An explanation of the necessity for alterations in the specified drilling program; (2) plan maps of all holes drilled in the 2 areas; (3) vertical sections for holes 20, 22, and 23; and (4) logs of holes 18, 19, 20, 22, 23, 24, 25, and 26.

T. M. Romslo

T. M. Romslo, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

April 21, 1953

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract Number I-DMA-E-33 Docket Number 269-E-3, Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of March, 1953:-

(1) 545' of diamond drilling was completed during the month. Hole Number 22 was extended 64 feet and bottomed in granite at a total depth of 175 feet, as explained in last month's report.

Hole Number 24 was drilled horizontally south from the Glance-Queen 600 level crosscut to prospect the extreme northwest extension of the Glance Contact. The contact was reached at 117 feet, but no ore was found, and the hole was bottomed in unaltered sediments at 162 feet.

Hole Number 25 was drilled up at an inclination of 22° from the same set-up as that for hole number 24, to prospect the contact as high as the limited space available at the drill station permitted. The hole cut the contact at 105 feet and bottomed in unmineralized sediments at 156 feet. No ore was penetrated.

Hole Number 26 was drilled from the same station as holes numbers 24 and 25, and for the same general purpose, except that Number 26 was directed so as to cut the contact as near as possible to the Beta fault (prominent Post (?) mineral normal fault with about 600 feet displacement). The hole cut the contact at 134 feet and was in metamorphic material, including considerable magnetite, from the contact to the Beta fault. The Beta fault was penetrated at 175 feet, and the hole was bottomed in limestone at 190 feet. 163 feet of the hole was drilled during March, and the hole was completed early in April. No ore was penetrated.

In view of the fact that no commercial mineralization has been found in any of the five holes in the West Glance contact at the 600 level elevation, drilling has been terminated in this area. We believe now that our work has been too low in section, and that there may be possibilities higher up, but for the present the West Queen area looks more favorable for immediate ore.

(2) The Queen West Crosscut was advanced 41.5 feet to prospect the downward extension of the ore shown in diamond drill holes Numbers 20, 22 and 23. A body

of pyritic ore averaging about 1% copper was penetrated, but no high grade ore was found at the drift level, and the section was smaller than that exposed by the drill holes. It appears that the ore may grow wider and better in grade as it goes up.

(3) A plan map showing all diamond drill holes in the Queen West end and the New Queen West crosscut is enclosed. A vertical section through holes numbers 20, 22 and 23 and a plan showing holes numbers 24, 25 and 26 are also enclosed.

As explained on our map submitted with our application for amendment 7, the course of the drift we drove west from the Queen West crosscut was determined by reference to geological information developed by our diamond drilling in this area.

Holes numbers 12, 13, 24 and 26 were to be extended out under a geophysical self potential anomaly as shown in the Bureau of Mines report of Investigations Number 4732. This anomaly lies over the projected course of the Clance contact and seemed to be aligned with quartz pyrites fissures in the granite and the contact on this level. Our diamond drilling showed that the contact turned northward away from the anomaly.

Holes Numbers 24 and 26 were terminated before passing under the anomaly for the following reasons:- (a) Our geophysical work being carried out at the present time (another area) shows that it is desirable to have corroborative evidence using another method before drilling self potential anomalies. We drilled a surface diamond drill hole number 6 on the Minnehaha Falls claim directly over one of those geophysical self potential anomalies as shown on the map accompanying our application for amendment number 7. This hole was drilled to a depth of over 600 feet and was negative as far as ore mineralization is concerned. This hole was paid for 100% by Banner Mining Company and was drilled at no expense to the project or the government. (b) The maximum depth to which self potential readings are effective is between 200 and 300 feet. (This is our understanding). (c) All the ore known to have been shipped from the Queen and Clance Mines was found only on the intrusive contact between the granite and the limestone.

Hole number 25 was drilled up at the maximum inclination possible from the existing drill station. Our success in finding ore in the holes in the up-thrust block west of the Queen orebody prompted us to drill this hole above the level in this up-thrown block east of the Queen orebody. This hole was not extended beyond the contact for any distance for the same reasons as set forth in the previous paragraph.

We have discussed with Mr. T. M. Rosalo of the Bureau of Mines, the necessity of the above diamond drilling and the necessity of amending the contract to provide for a more flexible drilling program to meet conditions as new data from the drilling became available.

Our application for the above mentioned amendment was prepared and submitted on April 7th.

Logs for holes numbers 18, 19, 20, 22, 23, 24, 25 and 26 are appended.

Two carloads of pyritic ore were shipped to the El Paso Smelter from the Queen West crosscut during March. They totalled 105.4 tons, and averaged 3.46% copper and

1.12 ounces of silver per ton.

A.E. Bowman was away from the project 12 days in March. I was away from the project four days in March. Our time for these days was not charged to the project.

This letter is intended as a narrative report covering progress during the month of March 1953.

Respectfully submitted,

Banner Mining Company

By B.H. Kennedy
Engineer

B.H.:fmb

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1953 Docket No. DMEA 269-K-B Contract No. I-DMA-R-33
Operator's Name Banner Mining Company Minerals Copper
Address 2040 Donner Stravenue, Tucson, Arizona
Contract Amount, $125,722.00 Government Participation: 50 % Amount, $ 67,394.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	1,362.50	4,580.25	5,942.75			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1,644.64	45,081.03	46,725.67			
Supervision	700.12	10,835.61	11,535.73			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	147.34	2,596.08	2,743.42			
Explosives	80.78	495.51	576.29			
Pipe	15.35	3,116.09	3,131.44			
Track	123.75	2,370.83	2,494.58			
Other Supplies	178.30	5,273.23	5,451.53			
Power	313.60	6,047.05	6,360.65			
(4) Operating Equipment:						
Rental						
Purchase		6,836.65	6,836.65			
Depreciation	308.32	5,073.12	5,381.44			
(5) Initial Rehabilitation and Repairs		5,354.27	5,354.27			
(6) New Bldgs., Improvements, etc. Power Bill Credit	62.10	579.33	517.23			
(7) Miscellaneous:						
Repairs to Equipment		993.15	993.15			
Sampling and Analysis	43.25	245.00	288.25			
Payroll Taxes	24.37	1,796.87	1,821.24			
Liability Insurance	207.93	5,461.35	5,669.28			
Accountant Salary	65.83	988.59	1,054.42			
(8) Contingencies (specify):						
				5,213.98	107,773.39	112,987.37
TOTALS	5,213.98	107,773.39	112,987.37 *		- 53.00	- 53.00
				** -3,197.50		- 3,197.50
				2,016.48	107,720.39	109,736.87

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 3-31-53 *Payee Banner Mining Company
Per B.W. Venable Title Superintendent

*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:
$ 1008.24
Signature
(Authorized Certifying Officer)
Date 3/24/54 Vou. No. DMA 54-93
(See other side)

* Previous Disallowance
** 1/2 liquidation of property (1/2 in April also)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-DMA-IE 33 in accordance with the terms of the contract.

Signature T M Pamelo WAS Title Mining Engineer Date April 24, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W S King Title Executive Officer Date MAR 19 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1953 Docket No. DMEA 269-X-B Contract No. I-DMA-R-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Corner Stravenue, Tucson, Arizona

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	*	3,187.44	41.5'	3,187.44	41.5'	76.81		
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	**	2,026.54	545'	12,469.52	2270.5'	5.49		
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				84,622.80				
TOTAL DISTRIBUTED COSTS		5,213.98		100,279.84				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,636.03				
Initial Rehabilitation and Repairs				5,554.27				
New Buildings, Improvements, etc.				517.23				
TOTAL COSTS		5,213.98		112,987.37				

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 4-21-53 Operator Banner Mining Company

Per B.H. Venable Title Superintendent

→ 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)

REMARKS: * Includes preparations for tramming development ore over approx. 2100 feet and hoisting through Clance Shaft, repair of old & partially deteriorated track, and preparing to handle ore on surface, and actually tramming 117 mine cars of ore this distan in addition to waste handled.
**. This amount includes diamond drill contract charge 1,362.50, supervision 335.12, Deprec. 141.83, power 115.69 Comp. Ins. 29.39, Payroll Taxes 11.73, accountant salary 30.28. These amounts are included under their respective headings on Form MF-104.

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

DIAMOND DRILL HOLE LOG
HOLE #18 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-B

Underground hole, Queen West 600, to locate the contact between holes 15 & 16. Granite contact not found.

Collar Co-Ordinates- Latitude 20,224.33, Departure 20,027.65.
Collar Elevation- 2,934.94
Course Hole- S78° 55' W.
Dip Hole- Flat (up 35')
Driller- Ed Shandley
Size Core- EX
Average Core Recovery- 94.8%
Total Depth- 199.5'
Started 1-10-53- Finished 1-17-53
Logged By- B. W. Venable

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From	To	Core Description	Core Recovery
0'	13'	White marble. ½" green garnet stringer at 10° with core axis at 0.5', Ditto at 3'.	12.4'
13'	23'	Pale Gray Limestone	9.9'
23'	28'	White Marble.	4.5'
28'	38'	White marble.	9.8'
38'	43'	White marble.	4.9'
43'	49'	White marble.	5.8'
49'	54'	White marble. Slightly altered in spots.	5.0'
54'	59.5'	White marble. about 3" of pink stain at 59.5'.	5.3'
59.5'	65'	Gray limestone to 64'. A 2" breccia zone at 60', making 20° with core axis. Garnet starting at 64' on a slip making 20° with core axis. No Gouge.	4.7'
65'	70'	Garnet. A little chalcopyrite & magnetite at 67'. Core shattered at 70'.	5.0'
70'	76.5'	Limestone. White to gray, all more or less altered. Slips make about 10° with core axis.	6.2'
76.5'	81.5'	Mixed white limestone& garnet. Some magnetite. no visible sulphides.	5.0'
81.5'	87'	First 1.5' is green garnet with tiny crystals. Visible sulphides. The rest is gray limestone, fresh.	5.0'
87'	92'	6" of Gray limestone, then limestone with garnet bands at about 25° with core axis,the rest of the distance. Slickensides at 90.5', on 2 slips making 25° with core axis, striae parallel to core axis, when viewed in plane of fracture. Last foot is quartzite.	4.9'
92'	102'	First 2½' is quartzite. Last 7½' is limestone.	10.0'
102'	111'	Limestone in all but last 1½'. Last 1.3' is garnetite with magnetite, pyrite, and very small amounts of chalcopyrite. Banding at about 10° with core axis.	9.0'
111'	116.5'	Gray limestone.	3.4'
116.5'	126.5'	Gray limestone. A 5" calcite stringer at 80° with core axis at 117'. A 1/8" veinlet of pyrite, quartz and chalcopyrite cuts across at 122', making 35° with core axis.	10.0'
126.5'	137'	Gray Limestone.	10.2'
137'	147'	Gray limestone	10.0'

COPY

HOLE #18 TWIN BUTTES PROJECT
CONTINUED

From	To	Core Description	Core Recovery
147'	151.5'	White limestone.	4.3'
151.5'	162'	First foot is white gouge. The rest is green contact silicate with small amount of magnetite.	9.1'
162'	168'	First 3' is talcy limestone, then about a foot of green silicates, then 2' of gray limestone.	5.2'
168'	174'	Gray limestone.	4.8'
174'	179.5'	Gray limestone.	4.9'
179.5'	184.5'	Gray limestone.	5.0'
184.5'	189.5'	Gray limestone. 6" of chlorite-pyrite banding at 45° with core axis at 194'.	5.0'
189.5'	199.5'	Gray limestone.	9.9'
199.5'		End Of Hole.	

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SAMPLE ASSAYS

102'	111'	Sludge #741-	0.62 copper.	
65'	70'	Sludge #750-	1.97 copper.	
65'	70'	Core #822-	1.56 copper.	
76.5'	81.5'	Core #823-	0.04 copper.	
81.5'	88'	Core #828-	0.04 copper.	
152'	162'	Core #836-	0.03 copper.	
162'	164'	Core #837-	0.44 copper.	
194'	199.5'	Core #861-	0.03 copper.	0.1 Zinc.

COPY

DIAMOND DRILL HOLE LOG
HOLE #19 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-B

Underground hole from Queen west stope end up approximately 50° to investigate the granite- limestone contact west of the two west Queen normal step-faults. This hole was intended to pick up a possible up-faulted extension of the Queen orebody. Hole was too high. A little chalcopyrite was found, however granite was never penetrated.

Collar Co-Ordinates- Latitude 20,259.44, Departure 20,077.80.
Collar Elevation- 2,944.57
Course Hole- N31° 83' W.
Dip Hole- Up 50°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 89.9%
Total Depth- 229'
Started- 1-24-53, Finished 2-11-53
Logged by- B. W. Venable

From	To	Core Description	Core Recovery
0'	10'	Brown garnet. A little sphalerite.	9.4'
10'	20'	Same.	3.2'
20'	30'	Same. Some Smithsonite (?)	3.2'
30'	46'	Garnet with heavy sphalerite30-40. A sort of calcite cemented breccia with considerable Smithsonite and a little rhodocrosite from 40-46	16.0'
46'	56'	Barren appearing brown garnet.	10.0'
56'	66'	Same. Fault gouge from 62 to 66, with planes of slickensides at angles of 5° to 60° with core axis.	10.0'
66'	76'	First 2' is fault material, same as 62'-66'. Then 5' of crystalline gray limestone, then the rest in hornfels.	10.0'
76'	84'	Brown garnet, coarsely crystalline.	5.0'
84'	89'	Brown garnet, coarsely crystalline. Some Smithsonite in seams. Core broken.	1.5'
89 '	99'	First 4½' is flinty green garnet. the rest is crystalline gray limestone.	10.5'
99'	109'	Gray Xline limestone.	10.0'
109'	119'	Gray Xline limestone.	10.0'
119'	129'	Xline white marble.	6.7'
129'	139'	White marble.	10.0'
139'	149'	Gray marble.	10.0'
149'	159'	Gray marble.	10.0'
159'	169'	Gray marble. 2' of garnet at 10° with core axis at 166.5'-168.5', with one ½" band of chalcopyrite and pyrite making about 8° with core axis at 166.5'.	9.9'
169'	179'	White marble. A 3/4" band of pink Wollastonite runs through core almost parallel to core axis from 175 to 179'.	8.3'
179'	181'	White marble, Wollastonite band 179' to 180'.	1.7'
181'	191'	White marble. ½" garnet-wollastonite band at 3° with core axis at 190'-191'.	10.0'
191'	201'	White marble, very coarsely crystalline.	10.0'
201'	210'	Same.	9.0'
210'	220'	1½' brown garnet at about 3° with core axis at start, the rest in white marble.	6.5'

COPY

HOLE #19 TWIN BUTTES PROJECT
CONTINUED

From	To	Core Description	Core Recovery
220'	229'	White marble. About 3" of core shattered at 228', and again at 229'.	9.0'
229'		End of Hole	

SAMPLE ASSAYS

10'	20'	Core #764-	Trace copper-	0.2 Zinc.
30'	36'	Core #765-	Trace Copper-	1.9 Zinc.
36'	41'	Core #767-	Trace Copper-	17.52 Zinc.
0'	10'	Core #862-	.04 Copper-	0.1 Zinc.
0'	20'	Core #863-	.03 Copper-	0.1 Zinc.
40'	46'	Core #881-		2.5 Zinc.
46'	56'	Core #882-		0.2 Zinc.
84'	89'	Core #886-		0.3 Zinc.
89'	94'	Core #887-	.39 Copper-	0.3 Zinc.

COPY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 29 1954

DIAMOND DRILL HOLE LOG
HOLE #20 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA Docket #269-L-B

Underground hole from Queen 600 West end stope, same general purpose as Hole #19, on a slightly different course and flatter angle. Granite still not found.

Collar- Co-ordinates- Latitude 20,259.00, Departure 20,075.95.
Collar Elevation- 2,944.89
Course hole- N58° 59'W
Dip Hole- Up 48°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 79.3%
Total Depth- 120.0'
Started 2-12-53 Finished 2-17-53
Logged By- B. W. Venable

From	To	Core Description	Core Recovery
0'	6'	Garnet. 3" chalcopyrite at 5'.	2.6'
6'	16'	Garnet.	6.6'
16'	20'	Garnet. With some Smithsonite	3.7'
20'	30'	Garnet from 20' to 25'. Gouge at 24.5', making 30° with core axis. White limestone from 25' to 30'.	10.0'
30'	40'	White Limestone.	8.1'
40'	50'	White Limestone.	5.7'
50'	60'	White Limestone.	9.4'
60'	65'	1½' of white limestone core, then about a foot of broken core consisting mostly of actinolite, garnet and quartz, with a little of finely disseminated pyrite. Strong slickensides in broken section, making 5° with core axis.	2.6'
65'	75'	Fine grained garnetite 65' to 71'. Coarser grained pyritic garnetite 71'.	9.7'
75'	85'	Unmineralized green garnetite. Slickensides at 76½' making 30° with core axis.	10.'
85'	95'	85' to 89' is unmineralized green garnet. 89 to 94' is gray hornsfels. 94 to 95' is heavily pyritic garnetite with a little unidentified sooty black non-magnetic material. Slickensides at 5° with core axis in pyritic material.	10.'
95'	104'	First 4½' is pyritic material as above, with a few brown bands of sphalerite. The rest is white Limestone.	8.6'
104'	110'	Gray Limestone.	6.0'
110'	120'	Gray limestone. Last foot of core shattered.	5.2'
120'		End Of Hole.	

SAMPLE ASSAYS

EX 65'	75'	Sludge #783- 0.23 Copper
75'	85'	Sludge #784- 0.81 Copper
85'	95'	Sludge #785- 0.44 Copper 0.82 Zinc
95'	104'	Sludge #786- 4.62 Copper 7.90 Zinc
65'	75'	Core #894- 0.07 Copper 0.22 Zinc
75'	85'	Core #893- 0.04 Copper 0.2 Zinc.
85'	95'	Core #901- 0.41 Copper 0.4 Zinc.
95'	100'	Core #902- 1.68 Copper 11.6 Zinc.

Weighted average assay 95' to 104' 9.0' average 3.62% Copper and 9.16% Zinc.

DIAMOND DRILL HOLE LOG
HOLE #22 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-B

Underground hole from Queen 600 West end stope. Same purpose and course as hole #20, but on a flatter angle of inclination. Ore was penetrated between "A" and "B" faults. From the results of hole #23, it appears that "B" fault was not crossed and the hole was extended, and granite found.

Collar Co-Ordinates- Latitude 20,259.63 Departure 20,074.95.
Collar Elevation- 2,944.05
Course Hole- N58° 59' W. Dip Hole- Up 30°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 70.2%
Total Depth- 111'- Extended to 175'
Started 2-18-53 Finished- 2-21-53
Extension Started- 3-2-53 Extension Finished- 3-4-53
Total Final Depth- 175'
Logged By- B. W. Venable

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	5'	Garnetite.	3.5'
5'	10'	Garnetite.	3.2'
10'	15'	Garnetite.	5.0'
15'	20'	Garnetite.	3.5'
20'	30'	20 to 24' unmineralized garnetite. 24 to 28½' sphalerite in garnet. 28½ to 30' is white limestone. Abrupt change of garnet-limestone at 28½' at 20° with core axis.	10.0'
30'	40'	First 3.3' is white limestone. The rest is pyrite, chlorite, spongy quartz and a little chalcopyrite, mostly in the quartz.	5.2'
40'	50'	Pyrite, chlorite, spongy quartz and a little chalcopyrite.	2.9'
50'	60'	Heavy pyrite & chlorite from 50 to 56', with some black chalcocite coating on pyrite & a little chalcopyrite. From 56' to the end is strong chalcopyrite with small amounts of pyrite.	9.7'
60'	70'	Strong Chalcopyrite at 60' to 69'. Very massive 64½' to 66'. Last foot is hard dense blue slate. Chalcopyrite banding at about 12°.	10.0'
70'	80'	First foot is blue slate. Last 2 feet is gray limestone. The rest garnet.	10.0'
80'	90'	Shaly limestone.	10.0'
90'	93'	Shaly limestone. Core broken in last 6".	1.8'
93'	103'	White limestone. 1" garnet band at 101' at 10° with core axis.	10.0'
103'	111'	Gray limestone.	7.8'
111'	121'	Gray Limestone.	10.0'
121'	131'	White & gray limestone.	9.7'
131'	141'	About 6" of gray limestone core,. The remaining core is pale green metamorphosed material, appears to have been breccia before alteration. Considerable pale green chlorite.	1.3'
141'	150'	Gouge, with some crumbly garnetite and some soft magnetite Core mostly crumbled	5.2'
150'	155'	Crumbled chloritic gouge. Last few inches altered granite.	1.7'
155'	165'	Shattered granite, partially altered.	1.8'
165'	175'	Granite.	0.5'
175'		End Of Hole.	

DIAMOND DRILL HOLE #22 CONTINUED

SAMPLE ASSAYS

20' to 30'	Sludge #787-	0.41 Copper	9.1 Zinc	
30' to 40'	Sludge #788-	3.02 Copper	0.7 Zinc	
40' to 50'	Sludge #789-	3.91 Copper	1.0 Zinc	
50' to 60'	Sludge #808-	4.34 Copper	0.4 Zinc	
60' to 70'	Sludge #805-	14.22 Copper	0.6 Zinc	
70' to 80'	Sludge #806-	0.17 Copper	0.2 Zinc	
80' to 90'	Sludge #809-	0.04 Copper		
90' to 100'	Sludge #807-	0.06 Copper		

Sludge averages 30'-70' 6.37 Copper 0.67 Zinc

20' to 30'	Core #903-	0.33 Copper	9.3 Zinc
30' to 40'	Core #904-	1.37 Copper	0.4 Zinc
40' to 50'	Core #905-	4.45 Copper	0.8 Zinc
50' to 60'	Core #913-	9.06 Copper	0.3 Zinc
60' to 70'	Core #914-	11.25 Copper	1.1 Zinc
70' to 80'	Core #915-	0.03 Copper	0.2 Zinc

Core average 30'-70' 6.53 Copper 0.65 Zinc

Weighted Averages

30'- 40'	10'	2.72 Copper
40'- 50'	10'	3.97 Copper
50'- 60'	10'	5.96 Copper
60'-70'	10'	13.17 Copper

Average 6.45% Copper

DIAMOND DRILL HOLE LOG
HOLE #23 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-I-B

Underground hole from Queen 600 west end stope. Same purpose and course as holes 20 & 22, but on a flatter inclination. Granite was found west of "B" fault. Ore was penetrated between "A" & "B" faults.
Collar Co-Ordinates- Latitude 20,260.18 Departure 20,074.18
Collar Elevation- 2,943.13
Course Hole- N58° 59'W Dip Hole- up 21°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 72.9%
Total Depth- 128' Started- 2-23-53 Finished- 2-28-53
Logged By B. W. Venable

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	3'	Garnetite in blue limestone.	3.0'
3'	8'	Coarse Grained Garnet.	2.0'
8'	20'	Coarse Grained Garnet.	11.9'
20'	30'	Garnet, unmineralized, first 5' of core. Then fault gouge, the rest in pyrite and magnetite.	7.3'
30'	35'	Pyritic garnet. A little chalcopyrite. Core quite porous & quartzy.	3.5'
35'	40'	Pyrite & chalcopyrite in garnet.	4.1'
40'	50'	Pyrite & chalcopyrite in garnet.	5.9'
50'	60'	Pyrite & chalcopyrite in garnet.	3.4'
60'	70'	Pyrite & chalcopyrite in chlorite 60 to 64'. Predominate chalcopyrite 64 to 70'.	9.9'
70'	80'	Garnetite. Chalcopyrite disseminated in first foot, gradually diminishing to nothing.	10.0'
80'	82'	Black rock. Non-magnetic slickensides at 20° with core axis.	1.2'
82'	92'	Garnetite. Some scheelite noted under U.V. Lamp.	10.0
92'	102'	First 4' is garnetite, the rest is granite gouge, with slips at 10° with core axis. Striae not plain.	5.6'
102'	112'	Granite.	3.6'
112'	118'	Granite.	3.1'
118'	128'	Granite.	8.8'
128'		End Of Hole.	

SAMPLE ASSAYS

25' to 35' Sludge #811 3.02 Copper 0.2 zinc
35' to 45' Sludge #817 2.96 Copper
45' to 55' Sludge #818 2.28 Copper
55' to 65' Sludge #819 8.54 Copper
65' to 75' Sludge #820 1.83 Copper
Sludge Average 25'-75' 50' average 3.73% Copper.

20' to 30' Core #935 0.47 Copper
30' to 35' Core #936 1.05 Copper
35' to 40' Core #937 3.96 Copper
40' to 45' Core #938 4.89 Copper
45' to 50' Core #939 2.91 Copper
50' to 60' Core #940 3.03 Copper
60' to 70' Core #942 11.78 Copper
Core average 30'-70' 40' average 5.28% Copper

DIAMOND DRILL HOLE LOG
HOLE #24 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-L-B

Underground hole from Queen-Glance 600 level crosscut, horizontal to the south to prospect the Glance Contact West Extension near its western extremity at a major northeast-southwest normal fault, probably postmineral in age. No ore was found.

Collar Co-Ordinates- Latitude 19,878.13 Departure 20,369.09
Collar Elevation 2,932.13
Course Hole- S52° 41'W Dip Hole- Flat (up 45')
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 83.8%
Total Depth- 162'
Started 3-5-53 Finished- 3-14-53
Logged By- B. W. Vanable

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	8'	Granite.	3.9'
8'	11'	Granite.	1.6'
11'	21'	Granite.	9.0'
21'	32'	Granite.	8.8'
32'	37'	Granite.	5.0'
37'	47'	Granite.	10.0'
47'	57'	Granite.	9.4'
57'	69'	Granite.	7.5'
69'	75'	Granite.	4.8'
75'	85'	Granite. Last 2' shows brecciation, slickensides & a little pyrite. Core shattered in last 2'.	4.0'
85'	90.5'	Granite.	4.4'
90.5'	95.5'	Granite.	5.0'
95.5'	103'	Granite. ¼" pyrite at 40° with core axis at 103'	6.3'
103'	104'	Granite.	0.8'
104'	114'	First 5' is granite fading into, with no sharp line of distinction, a hard, dense material, mostly silica, which could be either a dense quartzite, silicified granite, or aphanitic contact phase of granite.	10.0'
114'	124'	Hornfels. Scattered garnet, magnetite & pyrite in slips in latter portion. about one foot of magnetite at 123'.	10.0'
124'	134'	Pyritic, garnetose, magnetitic hornfels. 6" chlorite gouge at 15° with core axis at 131'. Last 1½' is gray limestone.	10.0'
134'	142'	Partially metamorphosed limestone. Banding at 45° with core axis.	8.0'
142'	145.5'	Broken core. Mostly magnetite.	1.7'
145.5'	156'	Hornfels. 1½" of soft magnetite at 148'.	10.0'
156'	162'	Hornfels.	5.5'
162'		End Of Hole.	

SAMPLE ASSAYS

124' to 134'	Core Sample #977	0.26 Copper	0.3 Zinc.
142' to 143½'	Core Sample #978	Trace Copper	0.2 Zinc.
143½' to 145½'	Core Sample #979	1.06 Copper	0.3 Zinc.
145½' to 156'	Core Sample #980	0.12 Copper	0.2 Zinc.

DIAMOND DRILL HOLE LOG
HOLE #25 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-K-B

Underground hole from Glance-Queen 600 level Crosscut, inclined upward to the south, same general purpose as hole #24. No ore was found.

Collar Co-Ordinates- Latitude 19,378.78 Departure 20,368.86
Collar Elevation- 2,934.99
Course Hole- S 55° 02' W Dip Hole- Up 22°
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery-
Total Depth- 156.0'
Started- 3-14-53 Finished 3-21-53
Average Recovery Through Contact Zone-
Logged By- B. W. Venable

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	5.5'	Granite.	5.2'
5.5'	12.5'	Granite.	5.0'
12.5'	19'	Granite.	6.5'
19'	23'	Granite.	2.6'
23'	32'	Granite.	7.9'
32'	40.5'	Granite.	5.7'
40.5'	49.5'	Granite. A little pyrite in seams at 35° with the core axis at 49' to 50'.	2.7'
49.5'	58'	Granite.	8.5'
58'	64'	Granite.	4.8'
64'	70'	Granite. 3/4" pyrite in a seam at 45° with core axis at 65'.	4.8'
70'	79'	Granite.	8.7'
79'	81.5'	Granite.	1.8'
81.5'	84'	Granite.	2.5'
84'	89½'	Granite.	4.8'
89'	93'	Granite.	2.3'
93'	103'	Partly silicified granite.	10.0'
103'	108'	Partly silicified granite 103-105'. At 105' there is 2" of chlorite material containing heavy pyrite and a small amount of chalcopyrite. The rest of the core is garnetite of a type observed to result from the garnetization of shale or hornfels. Slightly pyritic core.	5.0'
108'	114'	Soft pale green silicates. Apparently partly talc or chlorite.	5.1'
114'	118'	Pale green talc. Core shattered. 3" of dark green pyritic chlorite at 117.5'.	2.7'
118'	125'	Green Garnetite. Garnet banding at 122', makes 50° with core axis.	5.0'
125'	131'	Soft crumbly green contact silicates.	5.4'
131'	137'	Barren garnetite.	5.4'
137'	142'	Gray Limestone.	5.0'
142'	148.5'	First foot is gray limestone. The rest is hornfels.	3.1'
148.5'	156'	Porous, white non-calcareous rock with a few tiny black specks in it. Unidentified.	2.0'
156'		End Of Hole.	

SAMPLE ASSAYS

114' to 118'	Sludge #877	0.03 Copper.
118' to 125'	Sludge #878	0.14 Copper.
125' to 131'	Sludge #879	0.06 Copper.
131' to 137'	Sludge #880	0.04 Copper.

DIAMOND DRILL HOLE LOG
HOLE #26 TWIN BUTTES PROJECT
DMA CONTRACT #I-DMA-E-33, DMA DOCKET #269-X-B

Underground hole from Glance-Queen 600 Level Crosscut. Flat hole with same general purpose as holes 24 and 25, but designed to penetrate the contact closer to the Alpha fault than Hole 24. No ore was found.

Collar Co-Ordinates- Latitude 19,879.58, Departure 20,367.09
Collar Elevation- 2,892.00
Course Hole- S 71° 15' W, Dip Hole- Flat.
Driller- Ralph Carrera
Size Core- EX
Average Core Recovery- 76.9%
Total Depth 190.0'
Started- 3-24-53, Finished 4-1-53
Average Core recovery through contact zone- 86.5%
Logged By- J. C. Casort Jr.

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	5.5'	Granite.	5.2'
5.5'	12.5'	Granite.	6.4'
12.5'	21'	Granite.	4.7'
21'	27'	Granite.	5.4'
27'	35'	Granite.	8.0'
35'	39'	Granite.	2.9'
39'	41'	Granite.	2.0'
41'	48'	Granite.	6.6'
48'	59'	Granite.	2.8'
59'	65.5'	Granite.	4.8'
65.5'	71'	Granite.	4.3'
71'	75'	Granite. Small amount disseminated pyrite.	3.4'
75'	82'	Granite. Dike at 79' at 35° with core axis.	6.4'
82'	85.5'	Granite. Small amount of pyrite.	1.7'
85.5'	90'	Granite. ½" pyrite at 89' at 30° with core axis.	4.5'
90'	96'	Granite. 1/8" pyrite at 30° with core axis at 90.3'. disseminated pyrite throughout.	4.4'
96'	100'	Granite. 3/8" pyrite at 35° with core axis at 99.6'. Disseminated pyrite throughout.	4.0'
100'	108'	Granite. Irregularly distributed pyrite present.	4.4'
108'	116'	Granite. Slight alteration of granite visible. Pyrite present in stringers andas disseminated particles.	2.9'
116'	122.5'	Granite. Irregular patches of pyrite.	6.5'
122.5'	125'	Granite. 1/8" pyrite vein at 35° with core axis at 122.6'. Disseminated pyrite throughout granite.	2.5'
125'	134'	Granite. Hornfels contact at 133.8'.	2.8'
134'	141.5'	Hornfels to 135.1'. Calcareous garnet with irregular sections which are pyrite rich from 135' to 139'. Heavy dike with pyrite from 139' to 139.4'. Calcareous garnet from 139.4' to 141.5'.	7.1'
141.5'	145.5'	Garnet. No Lime.	2.5'
145.5'	155.5'	Garnet. No. lime.	10.0'
155.5'	163'	Garnet. Becomes slightly calcareous with disseminated pyrite at 157.2'. Altered dike from 158.5' to 159.8', slight pyrite in dike. Brecciated light colored non-calcareous material showing fault gouge and possible slickensides from 159.8' to 162'. Altered dike with slight pyrite from 162 to 163'.	6.2'

COPY

Diamond Drill Hole #26 Log (continued)

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
163'	175'	Contact silicate with lime stringers. Moderate magnetism at 163', increasing to strong magnetism at 166.1'. Magnetism ends at 166.1'. Siliceous garnet breccia at 166.1'. Slight magnetism at 166.8'. Slight gouge. Magnetism increases with increase of black material in rock. Garnet breccia at 167.8'. Black magnetic micaceous silicate with little pyrite at 169.2'. White non-magnetic micaceous garnet silicate at 170.5'. Black micaceous magnetic silicate at 171.2'. Slight pyrite.	9.7'
175'	185'	Garnet breccia with lime stringers. Slickensides at 175.3' at 45° with core axis. Striae perpendicular to core axis when viewed perpendicular to plane of movement. Contact of breccia with gray limestone along slickensides with mullion structure at 30° with core axis at 175.8'. Striae at 75° with core axis when viewed perpendicular to plane of movement. Gray limestone with silicate stringers, crystallinity increases with depth of hole.	9.2'
185'	190'	Gray Limestone with siliceous stringers.	4.5'
190'		End Of Hole.	

SAMPLE ASSAYS

157' to 165'	Sludge#932	0.03 Copper	0.2 Zinc.
165' to 170'	Sludge #933	0.04 Copper	0.3 Zinc.
170' to 175'	Sludge #934	0.52 Copper	0.4 Zinc.
134' to 141.5'	Core #1003	0.07 Copper.	
155.5' to 163'	Core #1004	0.11 Copper.	
163' to 175'	Core #1005	0.36 Copper.	

COPY

STATEMENT

Glenn S. Thatcher
Diamond Driller
Humboldt, Arizona

TO

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Period 3-1-53 to 3-31-53 Incl.

Hole #22 Twin Buttes Queen 600 @ $2.50 Per Foot.	111' to 175'.....	64'
Hole #24 Twin Buttes Queen 600 @ $2.50 Per Foot.	0' to 162'.....	162'
Hole #25 Twin Buttes Queen 600 @ $2.50 Per Foot.	0' to 156'.....	156'
Hole #26 Twin Buttes Queen 600 @ $2.50 Per Foot.	0' to 163'.....	163'
	Total Footage	545'

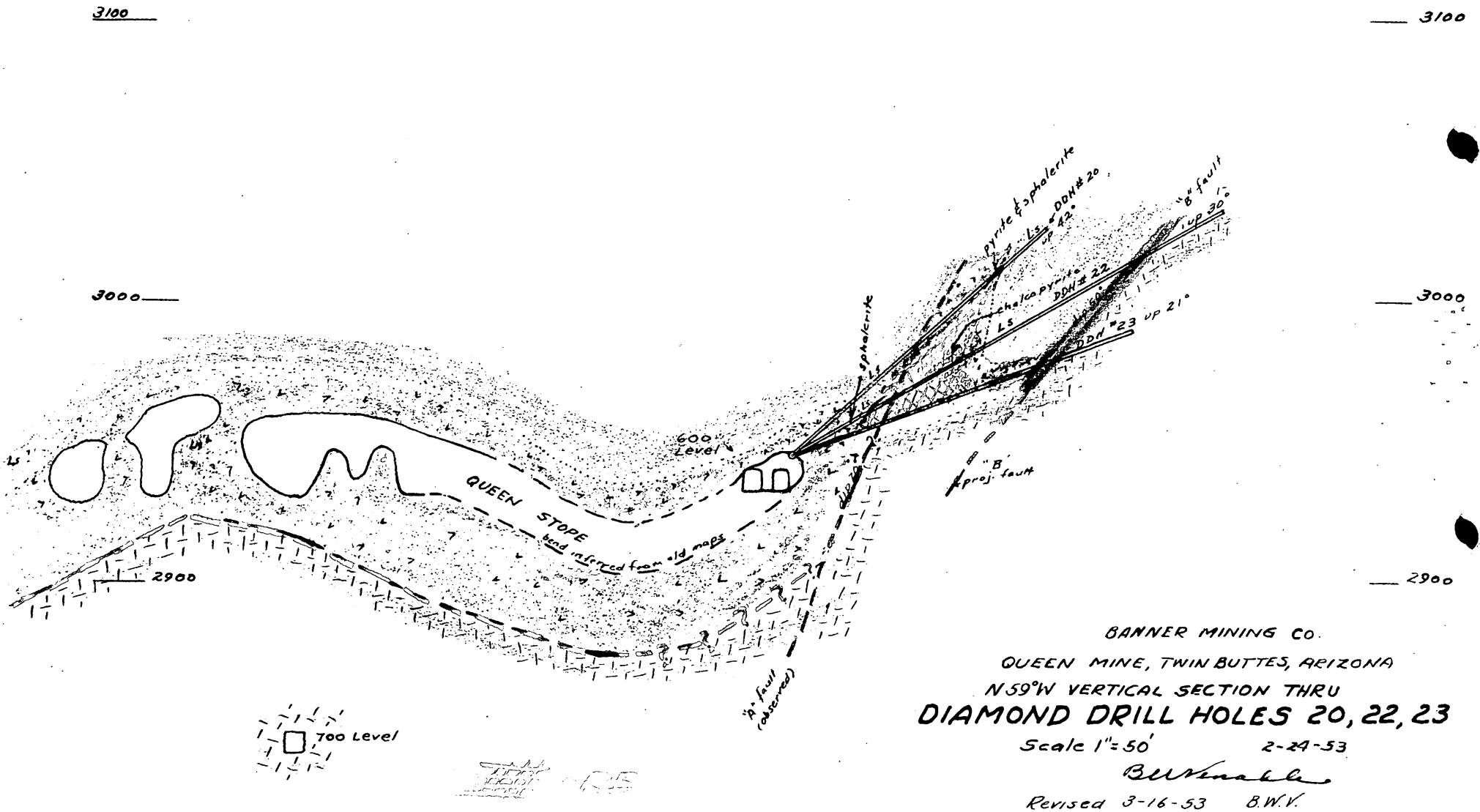
545' @ $2.50 Per Foot..... $ 1,362.50

Total $ 1,362.50

CERTIFIED TRUE COPY

A. L. Forman
Manager

COPY



BANNER MINING CO.

QUEEN MINE, TWIN BUTTES, ARIZONA

N59°W VERTICAL SECTION THRU

DIAMOND DRILL HOLES 20, 22, 23

Scale 1" = 50' 2-24-53

B.W.V.

Revised 3-16-53 B.W.V.

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

224 New Customhouse
Denver 2, Colorado

March 12, 1954.

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Arizona.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of February 1953.

W H King
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

March 2, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Arizona. Operator's Monthly Progress Report for the period February 1953.

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 50 per cent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks:

Date of Report	March 12, 1953.
Date Received in Field Office	March 19, 1953.
Date Received in Region Office	July 15, 1953.

Processing delayed pending resolving of matters pertaining to liquidation of jointly-owned property.

W. H. King

Enclosures

RDB:cwm

cc: Contract
Secretary to the Oper. Comm. (2)
WRStorms
Chron.

WASHINGTON OFFICE COPY

Form MF-104A, Operator's and Engineer's Narrative Reports relative to the work performed during the month of February 1953 were forwarded to the Washington office by our memorandum of August 11, 1953.

STATEMENT

Glenn S. Thatcher
Diamond Driller
Humboldt, Arizona

TO

Conner Mining Company
2242 Conner Stravenue
Tucson, Arizona

Period 2-1-53 to 2-28-53 Incl.

Hole #19 Twin Buttes Queen 600 @ $3.00 Per Foot.	61' to 229'.....	168'
Hole #20 Twin Buttes Queen 600 @ $2.50 Per Foot.	0' to 120'.....	120'
Hole #22 Twin Buttes Queen 600 @ $2.50 Per Foot.	0' to 111'.....	111'
Hole #23 Twin Buttes Queen 600 @ $2.50 Per Foot.	0' to 128'.....	128'
	Total Footage	527'

168' @ $3.00 Per Foot.....	$504.00
359' @ $2.50 Per Foot.....	897.50
Total	$1,401.50

CERTIFIED TRUE COPY

For Manager Bill Venable

COPY

104 (Rev.)
1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1953 Docket No. DMEA 262-Y-3 Contract No. I-[illegible]-I-33
Operator's Name Denver Mining Company Minerals Copper
Address [illegible] Denver Avenue, Tucson, Arizona
Contract Amount, $ 135,[illegible] Government Participation: 50 % Amount, $ 67,[illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling None	1,401.50	3,173.75	4,575.25			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	[illegible]	14,386.12	15,021.03			
Supervision	377.31	10,030.30	10,385.61			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		2,636.00	2,636.00			
Explosives		195.51	195.51			
Pipe		3,116.00	3,116.00			
Track		2,370.33	2,370.33			
Other Supplies	46.63	5,226.40	5,273.03			
Power	350.97	5,696.08	6,047.05			
(4) Operating Equipment:						
Rental						
Purchase		6,036.00	6,036.00			
Depreciation	300.32	4,761.80	5,073.12			
(5) Initial Rehabilitation and Repairs		5,327.27	5,327.27			
(6) New Bldgs., Improvements, etc.	69.50	610.33	679.33			
(7) Miscellaneous:						
Repairs to Equipment		293.15	293.15			
Sampling and Analysis	22.75	216.25	239.00			
Payroll Taxes	25.23	1,711.64	1,736.87			
Liability Insurance	134.91	5,326.44	5,461.35			
Accountant Salary	65.33	922.76	988.09			
(8) Contingencies (specify):						
TOTALS	3,834.79	103,938.60	107,773.39	3834.79	103,938.60	107,773.39
					- 53.00	- 53.00

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

Date 3-12-53 *Payee Denver Mining Company

Per Bill Venable Title Engineer

*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:
3834.79 103,885.60 107,720.39
$1917.39

Signature [illegible]
(Authorized Certifying Officer)

Date 3/3/54 Vou. No. DMEA 54-87
(See other side)

*Previous Disallowance by DMEA Audit Report

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-0077-E33 in accordance with the terms of the contract.

Signature T. M. Ramsler WRH Title Mining Engineer Date March 19, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.A.B.

Signature W. S. King Title Executive Officer Date MAR 2 1954

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.

Bureau Mines
Received

MINING DIVISION
REGION IV

July 13, 1953

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : February 1953 Progress Report Contract I-DMA-E33, Docket DMA-269XB, Banner Mining Co.'s, Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following:

(1) Revised Bureau of Mines engineer's report;

(2) Original operator's report with maps;

(3) Original Forms MF-104 and MF-104a.

Also enclosed are two extra copies of our engineer's report.

As you know, this work is not according to the contract. However, the company is applying for an amendment to the contract so all or part of the work may be approved if this amendment is approved by higher DMEA officials.

When and if such an amendment is submitted and approved, I recommend that the government's share of these costs be paid.

Walter R. Storms

Walter R. Storms

CC W. H. King (6)
DMA-269XB
DF

WRStorms:frj

MINING DIVISION
REGION IV

Memorandum

July 9, 1953

To : W. R. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Arizona

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for February 1953, Banner Mining Co., Twin Buttes Copper Mines, Pima County, Ariz., DMA Docket 269XB, Contract I-DMA-E33

The Twin Buttes Copper Mines were visited March 12, 1953 to check progress for February and to determine if the work continues to conform with the subject contract. A. B. Bowman, manager, accompanied me on an inspection trip of the project.

Progress was confined to diamond drilling. Cores and logs of holes drilled during February were examined before visiting the drill hole sites. Advance was found to be as follows:

Hole No.	Interval	FOOTAGE	Status
19	61 - 229	168.0	Complete
20	0 - 120	120.0	"
22	0 - 111	111.0	"
23	0 - 128	128.0	"
	Total footage	527.0	

Data from the drilling in this area has indicated the presence of a small drag-block of ore at the contact between "A" and "B" Faults. Assays from the three holes in ore, Nos. 20, 22 and 23, indicate that the ore will average about 5 percent copper. Drifting, now in progress, and raising will be necessary before a reasonably accurate estimate can be made.of the ore body's extent.

CONTRACT, FORMS MF-104 AND 104A, AND OPERATOR'S NARRATIVE REPORT

The following is indicated by the inspection of the project and by a review of subject data:

CC W. H. King (Orig. & 6)
DMA-269XB
DF

TMRomslo:frj

1. The work performed is as reported on Form MF-104A but does not conform with the contract. In my original report, I erroneously stated that the work performed was in accordance with the contract. At the time of the latter statement, neither the Operator nor I had familiarized ourselves with Amendment No. 7 and consequently we were not aware that unauthorized work was being performed.

2. The claim for the work is subject to approval of a proposed amendment that will be submitted by the operator. My recommendations for approval of the amendment will be based upon a detailed explanation of why deviations from the contract were necessary.

3. The supply and service charges of Form MF-104 were necessary and do not appear to be excessive. The charge for drilling is supported by a certified invoice. Total depreciation charges of $308.32 consist of $41.66 each for the pickup and the hoist with motor, and $225.00 for the compressor.

4. The MF Forms for February have been prepared on the basis of the distribution determined by a second interim audit of the company's accounts. The audit was made on Feb. 20 and 21, by Thos. Brading, assisted by Jas. Townsend, and the writer. It covered the period from October 1952 through January 1953.

5. The Operator's Narrative Report is considered adequate. It includes logs of holes 15 and 16, vertical sections through holes 20, 22, and 23, and a geologic map showing all holes drilled in the area. Logs of holes drilled during February will be submitted next month.

T. M. Romslo

T. M. Romslo, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

March 16, 1953

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

RE:- DMA Contract #L-DMA-[illegible]-33, Docket #209-X-3, Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of February, 1953:

527 feet of diamond drilling were completed during the month. Hole #19 was finished at 220' depth, apparently too high, as explained in last month's narrative report. In order to penetrate the faults and contact at a little better angle, the line of holes #20 through #23 was swung about 20° more to the west, to N 59° W.

Hole #20 was drilled on the above course to a depth of 120 feet and up at an angle of 42 degrees, in another attempt to penetrate both "A" and "B" Faults and prospect the contact area west of the "B" Fault (see accompanying sections). "A" Fault was crossed by this hole at 25' depth, but the hole entered unaltered limestone at 104 feet, with no apparent indication of crossing "B" Fault. However this hole cut through 10 feet of copper-zinc ore at 94'-104'. The sludge from 95' to 104' assayed 4.62 copper and 7.92 zinc.

Hole #22 was drilled to a depth of 111' on the same course as hole #20, but on a flatter angle (30°) to further prospect the ore shown in hole #20, and also to try to find the contact west of "B" Fault. "B" Fault was apparently not penetrated but the ore zone was 36' wide, from 33' to 69'. Sludges from 30' to 70' averaged 6.37% copper and 0.6% zinc. The sludge from 60' to 70' assayed 14.22% copper. From information derived from hole #23, it appeared that "B" Fault was 20 degrees flatter than "A" Fault, and that hole #22 might cut across it if extended. This hole was deepened during March, and "B" Fault was cut at about 150', where the hole entered granite. It is apparent that the contact west of "B" Fault must be prospected from a drill station farther west; as the dip of "B" Fault is too flat for inclined holes drilled from the present diamond drill station.

Hole #23 was drilled up 21 degrees from the same setup and on the same course as holes 20 and 22, with the same general purpose, but on a flatter angle of inclination. This hole penetrated 50 feet of chalcopyrite ore, from 25' to 75'. Sludges from this 50' section averaged 3.73% copper, with 8.54% copper the highest assay, from 55' to 65'. This hole penetrated "B" Fault at 99' and entered granite. From the quartzy appearance of the core, it is concluded that this hole is very close to, and immediately above, the granite contact.

A plan map showing the location of all holes in this project drilled in the West Queen area is attached.

Holes #20, 22 and 23 were inclined up from the west end of the old Queen stope in an attempt to penetrate the faulted extension of the Queen orebody west of "B" Fault. Dip of the "B" Fault was not known until the drilling was concluded, it is approximately 50 degrees. Due to this flat dip, the main faulted extension was not located. However, a drag block of ore between "A" and "B" Faults was drilled by all three holes.

Logs of holes #15 and 16 are included.

Based on the results of diamond drilling, it is concluded that there is a drag block of ore resting on the contact between "A" and "B" Faults, immediately west of the Queen workings. This block appears to be roughly triangular in section, with its base resting on the granite contact. Its cross section is about 300 square feet, and the average grade about 4.3% copper. Projected down 45 degrees on the contact, this ore should be centered at a point about 33' northwest of the west face of our Queen West Crosscut. We have terminated diamond drilling in this area and are now driving this crosscut into the ore-bearing area as projected.

Mr. A. B. Nowsen was away from the project three days in February. I was away from the project one day in February. Our time for these days was not charged to the project.

This letter is intended as a narrative report covering progress the month of February, 1953.

A vertical section through holes #20, 22 and 23 is also attached.

Respectfully submitted,

Banner Mining Company

B. W. Venable

B. W. Venable
Engineer

BWVseb

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1953 Docket No. DMEA 260-7-2 Contract No. [illegible]33

Operator's Name Banner Mining Company Minerals Copper

Address 2242 Sonora Stravenue, Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	*	3,036.79	527'	10,442.93	2,725.5'			
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				33,375.11				
TOTAL DISTRIBUTED COSTS		3,036.79		93,813.09				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,336.03				
Initial Rehabilitation and Repairs				7,119.27				
New Buildings, Improvements, etc.								
TOTAL COSTS		3,036.79		107,773.39				

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 3-12-53 Operator Banner Mining Company

Per B L Kenable Title ~~Manager~~ Engineer

REMARKS: * This amount includes Labor 624.84, Supervision 327.31, Reproc. 308.32, Other Supplies 16.63, Power 231.47, Assay Charges 22.75, Comp. Ins. 134.91, Payroll Taxes 56.23, Diamond Drill Contract Charges of 1,401.59 & Account Salary 68.23.

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

DIAMOND DRILL HOLE LOG
HOLE # 15 TWIN BUTTES PROJECT
DMA CONTRACT # I-DMA-F-33, DMA Docket #269-X-3

Under round hole, same general location and purpose as holes #14. The granite contact appears to be on a fault, as no contact metamorphism is present.

Collar Co-Ordinates- Latitude 20,225.72, Departure 20,028.60.
Collar Elevation- 2,935.03
Course Hole- N 88° 45' W.
Dip Hole- Flat (up 2°).
Driller- Ed Shandley
Size Core- E X
Average Core Recovery 94.2%
Total Depth- 130.0'
Started 12-17-52, Finished 12-23-52.
Logged By- B. W. Venable

From	To	Core Description	Core Recovery
0'	10'	White Marble	10.0'
10'	20'	White Marble	10.0'
20'	23'	White Marble	3.0'
23'	33'	White Marble	10.0'
33'	43.5'	White Marble slightly mottled & fractured in the last 3'	10.0'
43.5'	53.5'	Limestone. Numerous fracture planes making 25° with core axis, showing slicken sides at right angles to major axis of fracture oval.	10.0'
53.5'	64'	White Limestone	10.0'
64'	74'	White Limestone	9.0'
74'	79'	White limestone. A little pyrite at 74'.	5.0'
79'	89'	White Limestone	10.0'
89'	93'	White Limestone	3.5'
93'	103'	Limestone, mottled & discolored starting at about 97'. Numerous slips making about 45° with core axis.	9.9'
103'	113.5'	The first foot is soft, soapy gouge, the rest is granite, gradually changing from altered to fresh.	3.0'
113.5'	120'	Granite. About 9" of pyritic quartz at 113.5'	4.4'
120'	130'	Granite	9.6'
130'		End Of Hole.	

Note:- This hole was extended to 199' starting 1-19-53.
Purpose- To see if the granite in the hole is a projecting nose. If so, this hole should drill through the granite at not more than 200' total depth.
Emerged from granite at 156'.
Driller- Ralph Carrera
Size Core- E X
Average Core Recovery- 55.6%
Total Depth of Extension- From 130' to 199'
Started- 1-19-53 Finished- 1-22-53
Logged By- B. W. Venable

COPY

HOLE #15 TWIN BUTTES PROJECT- CONTINUED.

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
130'	140'	Granite	6.0'
140'	146'	Granite	3.0'
146'	156'	Granite	3.7'
156'	166'	First foot is pyritic quartz with some chalcopyrite. The last foot is garnet and other contact silicates. The rest is silicified granite, slightly pyritic.	4.2'
166'	169'	Soft Hornfels, pale green.	1.8'
169'	179'	Hard Hornfels.	8.3'
179'	189'	Hornfels.	7.8'
189'	199'	First 1½' of core is hornfels. Then about a foot of limestone containing banded magnetite, garnet and minor chalcopyrite at about 45° with core axis. Gray limestone at the end.	3.6'
199'		End of Hole.	

****

SAMPLE ASSAYS

113.5' - 114.5'	Core #300-	0.03 Copper.
156' - 166'	Core #740-	0.42 Copper.

COPY

DIAMOND DRILL HOLE LOG
HOLE # 16 TRI BUTTES PROJECT
DMA CONTRACT #I-DMA-[illegible]-33, DMA DOCKET #269-X-B

Underground hole, Queen West 600, same general purpose as holes #14 and #15, and also to prospect the King Fissure at depth. Granite was not cut, and no [illegible] found in King Fissure. (Fissure not positively found).

Collar Co-Ordinates- Latitude 20,224.16 Departure- 20,027.61
Collar Elevation- 2,935.05
Course Hole- S62°00'W.
Dip Hole- Flat (up 2½°)
Driller- Ed Shandley
Size Core- E X
Average Core Recovery- 95.0%
Total Depth- 304'
Started- 12-26-52 Finished- 1-9-53
Logged By- B. W. Venable

FROM	TO	CORE DESCRIPTION	CORE RECOVERY
0'	10'	White Limestone. A ¼" stringer of garnet at 6", and a ¼" stringer of magnetite and pyrite at 4' to 5' make about 5° with core axis.	9.4'
10'	15'	White Limestone. 1/16" stringers magnetite & pyrite parallel with core axis.	5.0'
15'	25'	White Limestone. 1/2" green garnet running at about 5° with core axis at 24'.	9.9'
25'	30'	White Limestone. Faint banding, looks like it might be bedding throughout at 45° with core axis.	5.0'
30	37.5'	White Limestone.	6.5'
37.5'	43'	White Limestone.	5.0'
43'	49'	White Limestone.	5.7'
49'	54'	White Limestone. About 1/2" of garnet at 5° with core axis at 49.5'	5.0'
54'	64'	Limestone.	10.0'
64'	69'	Limestone.	4.9'
69'	78.5'	Limestone.	9.0'
78.5'	83.5'	Limestone.	4.9'
83.5'	92.5'	Gray Limestone.	9.0'
92.5'	102.5'	Limestone. Discolored by partial ateration to a greenish tinge at about 65° with core axis from 95' to 100'. Several slips through this section, making 2° to 10° with core axis, ~~[illegible]~~	10.0'
102.5'	113'	Limestone. Fault gouge from 111' to 113'. Solid gouge for about a foot at 112'. Angle of faulting is not very obvious, but several planes of movement show in core making 5° to 30° with core axis.	9.0'
113'	123'	113-114.5' is white marble. 114.5-115' is garnetite. Slip at 114.5' makes 40° with core axis. 115- 123' is white marble.	9.9'

DIAMOND DRILL HOLE #16 LOG. Continued.

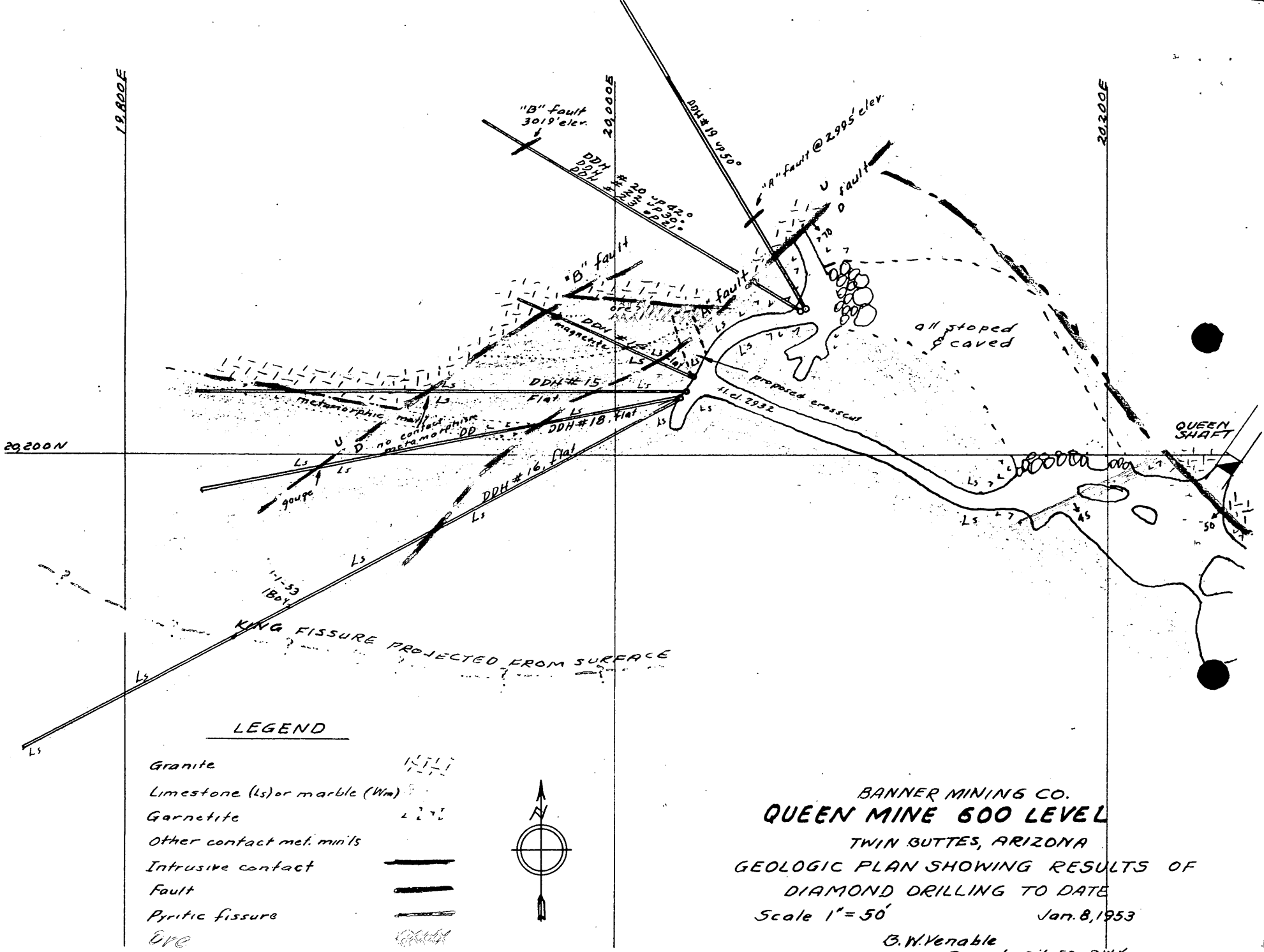
FROM	TO	CORE DESCRIPTION	CORE COUNT
123'	133'	Gray Limestone. Banding thought at 70° with core axis. Slips here & there at about 10° with core axis.	9.9'
133'	143'	Gray Limestone. Banded at approximately 70° with core axis. Small drusy openings at 139'.	9.0'
143'	150'	Gray to Pale Green Limestone.	6.4'
150'	160'	Gray Limestone.	9.8'
160'	170'	Gray Limestone.	9.9'
170'	180.5'	Gray Limestone.	10.0'
180.5'	191'	Gray Limestone.	10.0'
191'	197'	Gray Limestone. Some ground calcite with a few tiny (1/64") Xls chalcopyrite in it at 196' and 197'.	5.7'
197'	206'	Gray Limestone. Banded at about 40° with core axis.	9.0'
206'	216.5'	Limestone. Mottled & slightly discolored green & brown. Chalky in spots. About ½" of gouge at 199' making about 10° with core axis. A slip at 215' makes 10° with core axis.	10.[illegible]'
216.5'	227'	Gray Limestone.	10.1'
227'	237'	Banded (60°) Gray Limestone.	10.0'
237'	247'	" " " " " .	9.4'
247'	256'	" " " " " . Core shattered at 252½' with slips making 5° - 20° with core axis.	9.0'
256'	262.5'	Gray Limestone.	6.6'
262.5'	268.5'	Gray Limestone.	6.0'
268.5'	278.5'	Gray Limestone.	10.0'
278.5'	283.5'	Gray Limestone.	4.9'
283.5'	293.5'	Gray Limestone. Tiny Xls pyrite in slips at 293½'.	9.5'
293.5'	300'	Gray Limestone. Slightly discolored by alteration. Several Knife edge slips at 45° with core axis scattered throughout.	2.3'
300'	304'	Gray Limestone.	3.7'
304'		End Of Hole.	

****

SAMPLE ASSAYS

None.

COPY



BANNER MINING CO.

QUEEN MINE 600 LEVEL

TWIN BUTTES, ARIZONA

GEOLOGIC PLAN SHOWING RESULTS OF DIAMOND DRILLING TO DATE

Scale 1" = 50' Jan. 8, 1953

B. W. Venable

Revised 2-6-53 B.W.V.
Revised 3-16-53 B.W.V.

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

224 New Customhouse
Denver 2, Colorado

March 12, 1954.

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Arizona.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of January 1953.

W. H. King

W. H. King

Enclosures

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: March 3, 1954
Payee's
Reference: Progress Report

January, 1953

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona
Idm-E33

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ 4,338.21

Difference $ 53.00

Amount Approved $ 4,285.21

The reason for the difference was due to:

Overcharge for Labor & Supervision from Oct. 1952 thru January, 1953
Liability Insurance on above overcharge ($53) disallowed by DMEA
Audit Report.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

224 New Customhouse
Denver 2, Colorado

March 2, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Co.'s Twin Buttes Copper Mine, Pima County, Arizona. Operator's Monthly Progress Report for the period January 1953.

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 50 per cent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

As per Audit Report by the Contract Administration and Audit Division dated March 10, 1953, the following disallowance is to be made:

Liability Insurance - $53.00

Remarks:

Date of Report	February 10, 1953.
Date Received in Field Office	February 18, 1953.
Date Received in Region Office	July 15, 1953.

Held up pending resolution of matters pertaining to liquidation of jointly-owned property.

W H King

Enclosures

W. H. King

RDB:cwm
cc: Contract
Secretary to the Oper. Comm. (2)
WRStorms
Chron.

WASHINGTON OFFICE COPY

Form MF-104A, Operator's and Engineer's Narrative Reports relative to the work performed during the month of January 1953 were forwarded to the Washington office by our memorandum of August 11, 1953.

STATEMENT

Glenn S. Thatcher
Diamond Driller
Humboldt, Arizona

TO

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Period 1-1-53 to 1-31-53 Incl.

Hole #15 Twin Buttes Queen 600 @ $2.50 Per Foot.....	69.0'
Hole #16 Twin Buttes Queen 600 @ $3.00 Per Foot.....	123.5'
Hole #18 Twin Buttes Queen 600 @ $2.50 Per Foot.....	199.5'
Hole #19 Twin Buttes Queen 600 @ $3.00 Per Foot.....	61.0'
Total Footage	453.0'

268.5' @ $2.50 Per Foot.....	$ 671.25
184.5' @ $3.00 Per Foot.....	$ 553.50
Balance Due Thatcher	$1,224.75

G. S. Thatcher

CERTIFIED TRUE COPY

A. R. Lowman
Manager

COPY

4 (Rev.
2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1953 Docket No. DMEA 269-X-B Contract No. I-DM-E-33
Operator's Name Banner Mining Company Minerals Copper
Address 2242 Sonner Stravenue, Tucson, Arizona
Contract Amount, $135,739.00 Government Participation: 50 % Amount, $67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	1,224.75	1,954.00	3,178.75			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1,271.88	43,124.31	44,396.19			
Supervision	708.21	9,350.09	10,058.30			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		2,596.08	2,596.08			
Explosives	8.50	449.23	457.73			
Pipe	31.30	2,847.12	2,878.42			
Track		2,190.00	2.190.00			
Other Supplies	110.43	4,763.14	4,873.57			
Power	338.98	4,240.93	4,579.91			
(4) Operating Equipment:						
Rental						
Purchase		6,836.03	6,836.03			
Depreciation	308.32	4,456.48	4,764.80			
(5) Initial Rehabilitation and Repairs		7,119.27	7,119.27			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		943.82	943.82			
Sampling and Analysis	13.75	202.50	216.25			
Payroll Taxes	71.61	1,670.03	1,741.64			
Liability Insurance	184.65	5,141.79	5,326.44	131.65	5141.79	5273.44
Transportation		858.64	858.64			
Accountant Salary	65.83	856.93	922.76			
(8) Contingencies (specify):						
TOTALS	4,338.21	99,600.39	103,938.60	4285.21	99,600.39	103,885.60

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

Date 2-10-53 *Payee Banner Mining Company

Per A. R. Sommers Title Manager

*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:

$2142.61

Signature [illegible]
(Authorized Certifying Officer)

Date 3/3/54 Vou. No. DMA 54-87

(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. DMA-E33 in accordance with the terms of the contract.

Signature T M Romalo Title Mining Engineer Date Feb 26, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: L.D.B.

Signature W H King Title Executive Officer Date MAR 2 1954

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

WASHINGTON 25, D. C.

February 4, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DENVER
FEB 9 1953

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract Idm-E33 (Copper) Banner Mining Co's. Twin Buttes Copper Mine, Pima County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the month of December, 1952, pertaining to DMA Docket 269X-B, Contract Idm-E33, Banner Mining Co.

John F. Shaw
John F. Shaw for
W. H. King

Enclosures

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

New Customhouse
Denver 2, Colorado

January 26, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

FEB 3 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 269Kb, Contract Idm-833 (Copper) Banner Mining Co's. Twin Buttes Copper Mine, Pima County, Arizona - Operator's Monthly Progress Report for the period of December, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 50 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks:

Date of Report - January 9, 1953
Date Received in Field Office - January 16, 1953
Date Received in Region Office - January 22, 1953
Date Processed for Payment - January 26, 1953

W. H. King
W. H. King

Enclosures

RDB:oc
cc: Contract
Secretary to the Operating Committee (2)
WRStorms
Charon.

MINING DIVISION
REGION IV

January 20,1953

Memorandum

To : W. H. King, Chief, Mining Div., Region IV

From : Chief, Mining Methods Branch, Mining Div., Region IV

Subject : December 1952 Progress Report, Docket DMA-269XD, Contract I-DMA-E33, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above report:

(1) Bureau of Mines engineer's report;

(2) Operator's Narrative Report with 3 maps;

(3) Forms MF-104 and 104A.

Also enclosed are 2 extra copies of our engineer's report.

As all work is in accordance with the terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC W. H. King (6)
DMA-269XD
DF

WRStorms:frj

MINING DIVISION
REGION IV

January 19, 1953

Memorandum

To : W. R. Storms, Chief, Mining Methods Branch, Mining Division, Region IV, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for December 1952, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz., DMA Docket 269X-B, Contract I-DMA-B33.

The Twin Buttes exploratory project was visited January 9, to check progress for December and to determine if the work continued to be done in accordance with subject contract. An inventory was taken of supplies used, cost reports were reviewed and the logs and core of diamond-drill holes were inspected before visiting exploratory sites with A. B. Bowman, Manager of the project.

Progress for December was confined to the Queen Mine and consisted of the following:

7th level - Diamond drill holes 12, 13, 14, and 15 were completed to respective depths in feet of 184, 172.5, 78.5, and 130.0 for a total of 565.0 feet. Hole 16, reportedly at 180.5 feet on December 31, was completed Jan. 9 at a depth of 304 feet.

The second drill station was advanced 2 feet over an 8-foot width and the entire station, 8 by 20 feet, was timbered.

9th level - 228 feet of drifts and crosscuts were cleaned out and equipped with track. Two small underhand stopes, one each at the east and west ends of the level, were dewatered to respective depths of 6 and 15 feet for sampling purposes.

Surveying, mapping, and sampling continued during the month.

To date, no ore has been encountered by the diamond drill holes on the 7th level.

CC W. M. King (orig. & 6)
DMA-269XB
DF

~~WRSx~~ T. M. Romslo:frj

A. B. Bowman
Manager

STATEMENT

Glenn S. Thatcher
Diamond Driller
Humboldt, Arizona

TO

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Period 11-24-52 to 12-31-52 Incl.

Hole #12 Twin Buttes G. Q. 600 Level @ $2.50 Per Foot	(November)	85.0'
Hole #12 Twin Buttes G. Q. 600 Level @ $2.50 Per Foot	(December)	99.0'
Hole #13 Twin Buttes G. Q. 600 Level @ $2.50 Per Foot	(December)	172.5'
Hole #14 Twin Buttes Queen 600 Level @ $2.50 Per Foot	(December)	78.5'
Hole #15 Twin Buttes Queen 600 Level @ $2.50 Per Foot	(December)	130.0'
Hole #16 Twin Buttes Queen 600 Level @ $3.00 Per Foot	(December)	180.5'
	Total Footage	745.5'
565.0' @ $2.50 Per Foot----------		$1,412.50
180.5' @ $3.00 Per Foot----------		$ 541.50
	Balance Due Thatcher	$1,954.00

CERTIFIED TRUE COPY

Banner Mining Company

A. S. Sommer
Manager

COPY

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 9 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1952 Docket No. DMEA 269-[illegible] Contract No. 1-[illegible]-33
Operator's Name Tanner Mining Company Minerals Copper
Address 2012 Conner Stravenue, Tucson, Arizona
Contract Amount, $135,789.00 Government Participation: 50 % Amount, $67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	1,954.00		1,954.00			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,126.10	39,998.21	43,124.31			
Supervision	758.87	8,591.22	9,350.09			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	74.93	2,521.15	2,596.08			
Explosives		449.23	449.23			
Pipe	39.18	2,807.94	2,847.12			
Track		2,190.00	2,190.00			
Other Supplies	278.55	4,484.59	4,763.14			
Power	418.92	3,822.01	4,240.93			
(4) Operating Equipment:						
Rental						
Purchase		6,836.03	6,836.03			
Depreciation	316.32	4,148.48	4,464.80			
(5) Initial Rehabilitation and Repairs		7,119.27	7,119.27			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		943.82	943.82			
Sampling and Analysis	35.00	167.50	202.50			
Payroll Taxes	78.92	1,638.30	1,717.22			
Liability Insurance	324.36	4,837.37	5,161.73			
Transportation	4.50	354.06	358.64			
Accountant Salary	65.83	791.10	856.93			
(8) Contingencies (specify):						
TOTALS	7,475.56	92,200.28	99,675.84	7475.56	92200.28	99675.84
				*	- 75.45	- 75.45

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

Date 1-2-53 *Payee Tanner Mining Company

Per A. L. Tanner Title Manager

*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)

*Previous Disallowance

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

7475.56 92124.83 99600.39

$ 3737.78

Signature [illegible]
(Authorized Certifying Officer)

Date 1/29/53 Voucher 53-91

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-DMA-E33 in accordance with the terms of the contract.

Signature D M Romalo WRH Title Mining Engineer Date Jan 19, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.D.B.-C

Signature W. H. Kung Title Executive Officer Date JAN 26 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
FEB 9 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1952 Docket No. DMEA 269-7-B Contract No. I-[illegible]-33

Operator's Name Danner Mining Company Minerals Copper

Address 2042 Connor Stravenue, Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	Feet	1,954.00	745.5'	1,954.00	745.5'	2.62		
Other Expense		670.42	*	3,429.44		4.60		
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation		4,851.14		80,337.10				
TOTAL DISTRIBUTED COSTS		7,475.56		85,720.54				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,836.03				
Initial Rehabilitation and Repairs				7,119.27				
New Buildings, Improvements, etc.								
TOTAL COSTS		7,475.56		99,675.84				

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 1-9-53 Operator Danner Mining Company

Per A. L. Bowman Title Manager

REMARKS: This amount includes Labor 413.46, Supervision 106.24, Lumber 35.62, Power 53.65, Comp Ins. 45.41, Payroll Taxes 11.04. These amounts are included under their respective headings on Form MF-104.

→ 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

BANNER MINING CO.

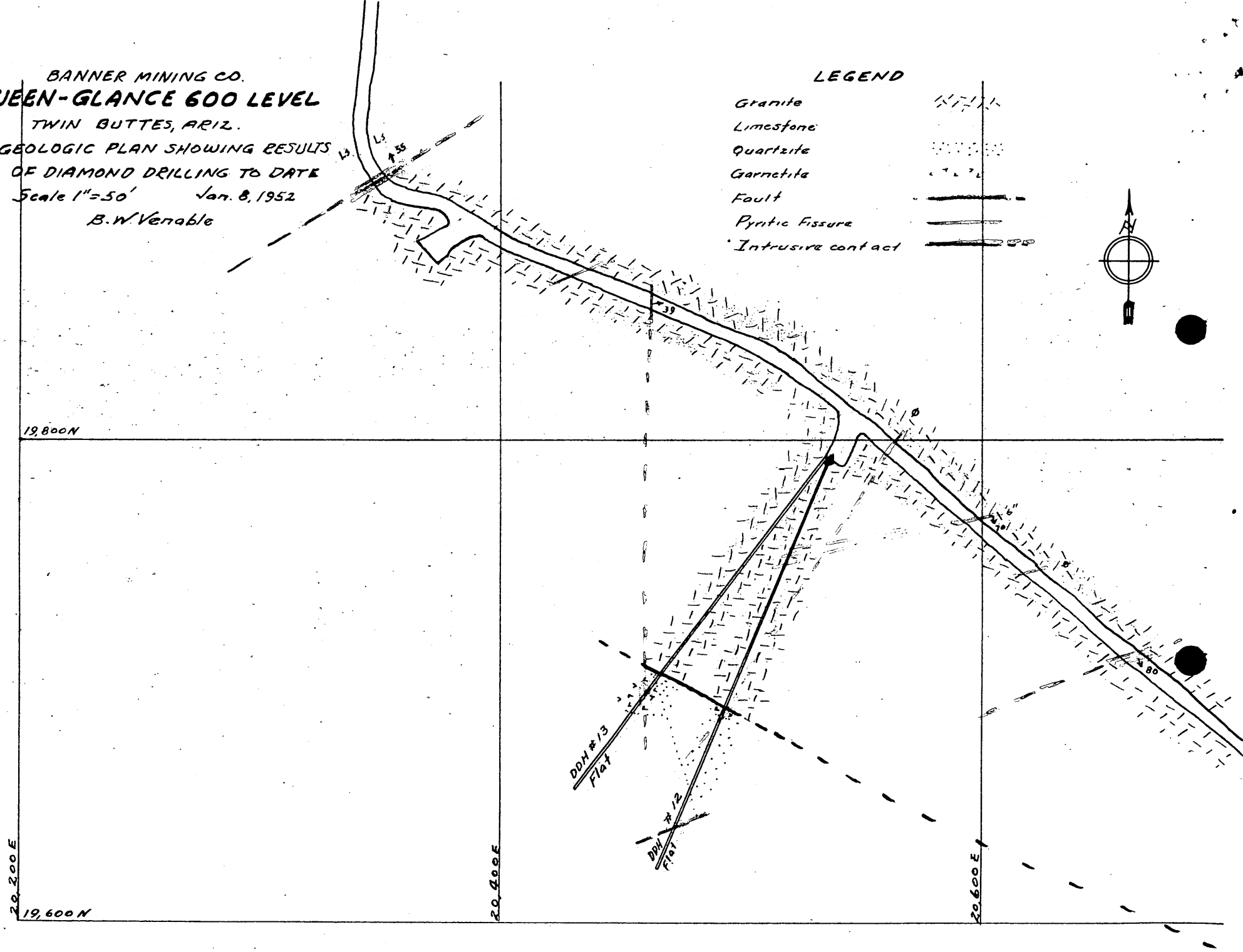
QUEEN-GLANCE 600 LEVEL

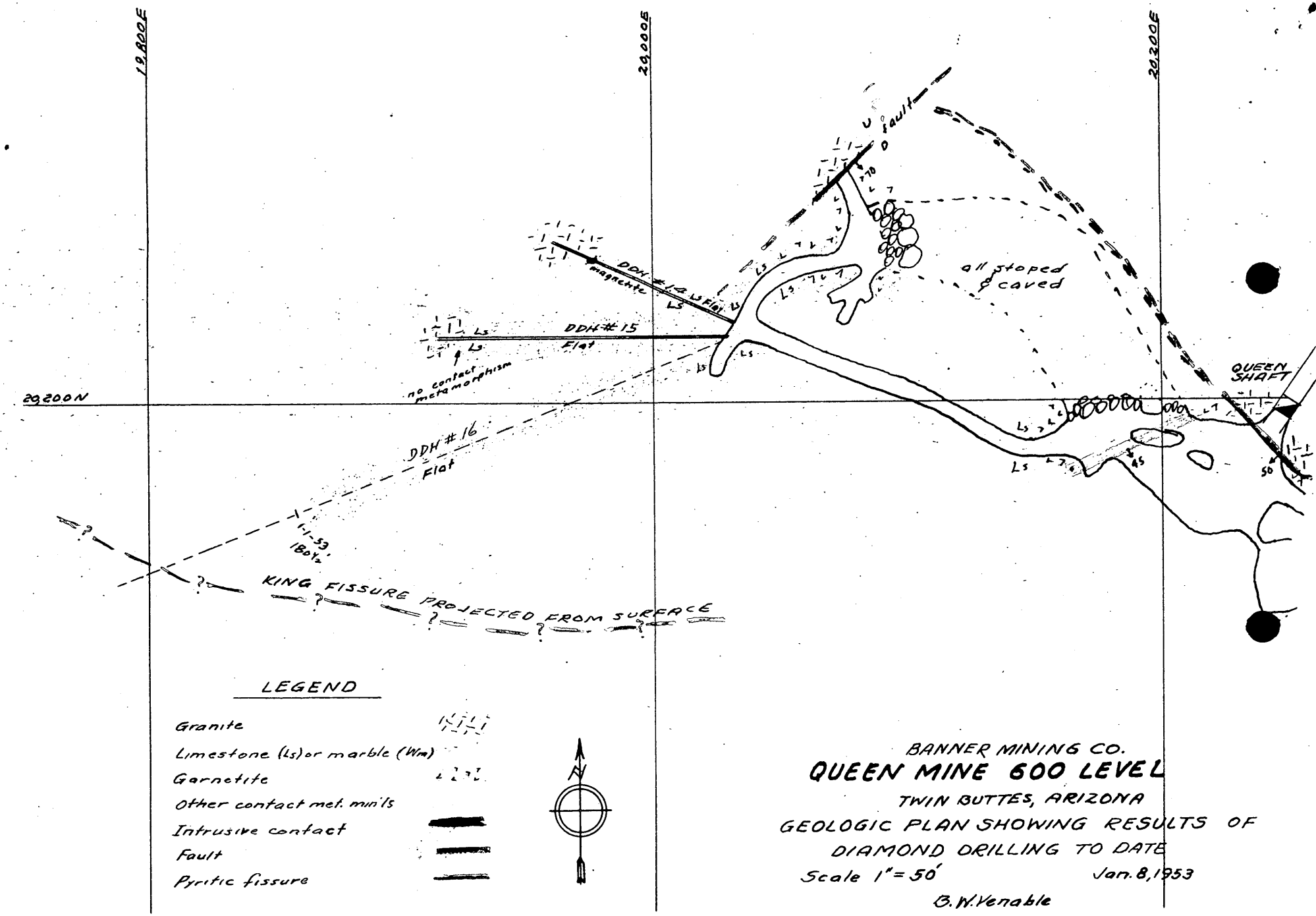
TWIN BUTTES, ARIZ.

GEOLOGIC PLAN SHOWING RESULTS OF DIAMOND DRILLING TO DATE

Scale 1"=50' Jan. 8, 1952

B. W. Venable





BANNER MINING CO.

QUEEN MINE 600 LEVEL

TWIN BUTTES, ARIZONA

GEOLOGIC PLAN SHOWING RESULTS OF DIAMOND DRILLING TO DATE

Scale 1" = 50' Jan. 8, 1953

B. W. Venable

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

224 New Customhouse
Denver 2, Colorado

January 21, 1953

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269Xb, Contract I-DMA-E33 (Copper) Banner Mining Company's Twin Buttes Copper Mine, Pima County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the month of November, 1952, pertaining to DMA Docket 269Xb, Contract I-DMA-E33, Banner Mining Company.

W. H. King

W. H. King

Enclosures

[illegible]
[illegible]
[illegible]

[illegible] Audit Exception Audit Exception Statement

Date: Jan. 19, 1953
Voucher Reference: Progress Report

November, 1952

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Upon consideration of the above Voucher's Reference a difference was found which made it necessary to correct your account accordingly:

Amount Claimed $ 6336.22

Difference $ 75.45

Amount Approved $ 6260.77

The reason for the difference was due to:

Following deductions per EMEA Auditor's Report dated 11/28/52:

Equipment rental disallowed because Cement Mixer was not listed in the contract.	$8.32
Payroll Tax on disallowed salary of accountant for Sept.1951 Tax on $66.25 is $4.64. 1/2 to Contract E-33	2.32
Payroll Tax disallowed due to the fact that certain employees reached the statutory requirements but the fact was overlooked in charging F.I.C.A. and Unemployment Insurance	44.87
Unemployment Insurance figured at 2% which should have been figured at 3%	19.94
	$75.45

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

New Customhouse
Denver 2, Colorado

January 8, 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Company's Twin Buttes Copper Mine, Pima County, Arizona - Operator's Monthly Progress Report for the period of November 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 50 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

The following deductions as recommended in Audit Report dated November 28, 1952, prepared by the Contract Administration and Audit Division, are to be made from the Operator's Report for the month of November 1952:

Equipment Rental	$8.32
Payroll Tax	$67.13

Remarks:

Date of Report	Dec. 12, 1952
Date Received in Ariz.-New Mex. Branch Office	Dec. 15, 1952
Date Received in Region IV Office	Dec. 29, 1952
Date Processed for Payment	Jan. 8, 1953

RDB:jp
Enclosures
cc Sec. to Oper. Committee (2)
WRStorms
Contract
Chron

W. H. King
W. H. King

MINING DIVISION
REGION IV

December 23, 1952

Memorandum

To : W. M. King, Chief, Mining Div., Region IV, Denver, Colo.

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : November 1952 Progress Report, Docket DMA-269XB, Contract I-DMA-E33, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's Narrative report with map;
(3) Forms MF-104 and MF-104A.

Also enclosed are two extra copies of our engineer's report.

Documentation has been waived for this contract.

As all work is in accordance with the terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC W. M. King (6)
DMA-269X B
DF

WRStorms:frj

Mining Division
Region Iv

December 17, 1952

Memorandum

To : W. R. Storms, Chief, Mining Methods Branch, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for November 1952, Banner Mining Co's. Twin Buttes Mines, Pima County, Ariz., DMA Docket 269X-B, Contract I-DMA-B33

The Twin Buttes mine was visited December 12, 1952 by the writer and L. L. Farnham, Bureau of Mines mining engineer, Tucson, Ariz., to check progress on the exploratory project and to determine if the work continues to be carried out in accordance with subject contract. Before inspecting the pertinent mine workings an inventory was taken of supplies used, the cost reports were reviewed, and the log and core of the first diamond drill hole covered by Amendment No. 7 of the contract were inspected.

The inspection of the mine workings showed the following progress for November:

1. Queen Shaft: Dewatering was completed to a point 16 feet below the 700 (9th) level, an advance of 26 feet. Timbers were repaired, a ladderway was installed, and skids for the muck bucket were placed in the shaft between the 7th and 9th levels. In addition, 260 feet of 2-inch pipe and 100 feet of 1-inch pipe were installed in the shaft and on the 7th level.

As part of the above shaft job, 250 feet of No. 14 2-conductor rubber covered cable was installed on the 7th level and in the shaft. This cable, and the hoist, 4-foot sheave wheel, hoist cable, and sinking bucket which were installed during October, are 100 percent owned by the Banner Mining Co. and are being used at no cost to the Government.

2. Queen mine, 9th level - The south crosscut was cleaned to the intersection of the east and west drifts on the contact, a distance of 96.0 feet from the shaft. The East and West drifts were cleaned for 227.5 and 41 feet, respectively, and track was layed over the entire distance. A winze was unwatered to its bottom at 60 feet and a ladderway was installed.

CC W. H. King (Orig. & 6)
DMA-269X-B
DF

TMRomslo:frj

3. Queen mine, 7th level (Glance 525-ft. level).- The diamond drill station for holes 6 and 7 was advanced 8 feet wide for a distance of 6.5 feet. Hole No. 4 was started and had been drilled to 85 feet by the end of the month.

4. Surveying, mapping and sampling was continued.

A map showing the advance and other data for the 9th level is attached to the Operator's Narrative Report. Logs and data for diamond drill holes will be submitted, starting with next month's report.

CONTRACT, FORMS MF-104 and 104A, AND OPERATOR'S NARRATIVE REPORT

The inspection of the operations and cost reports indicates the following:

1. The work performed and for which claim is made is in accordance with the contract and is as reported on Form MF-104A.

2. The supply and service charges were necessary and do not appear to be excessive. They have been accepted as correct, pending an on-site audit. Attention is called to paragraph No. 6 of the Operator's Report that explains why cost of diamond drilling has been deferred. For the record: depreciation charge of $316.32 includes truck $8.00 (4 hours), hoist motor $41.66, pick-up truck $41.66, and compressor $225.00. Further, no charge has been made for supervision during A. Bowman's absence from the project. Pending official notice to the operator from Denver, no action will be taken on the disallowances of Brading's recent audit certificate.

3. The Operator's Narrative Report does not mention part of the work done in the Queen shaft between the 7th and 9th level. The work omitted has been covered in this report. With that exception, his report is considered adequate.

T M Romslo

T. M. Romslo

December 12th, 1952

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract # I-DMA-N-33, DMA Docket #269-X-B Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of November 1952.

1. The unwatering of the Queen Shaft was completed to a point 16 feet below the floor of the 700 (9th) level; making an advance for the month of 26.0 feet.

2. The winze below the 700 (9th) level of the Queen Mine was unwatered to its bottom, a distance of 60 feet. A ladderway was installed over the full depth of this winze.

3. The South Crosscut from the Queen Shaft on the 700 (9th) level was cleaned out and track layed over the entire distance of 96.0 feet to the intersection of the East and West Drifts on the contact.

4. 227.5 feet of the East Contact Drift and 41 feet of the West Contact Drift on the 700 (9th) level of the Queen Mine were cleaned out and track layed over the entire distance.

5. The diamond drill station for holes #6 and #7 was advanced 8 feet wide for a distance of 6.5 feet.

6. 85 feet of diamond drill hole was completed during the month and corresponds to hole #4 as shown on our map of the Twin Buttes Mines which accompanied our application for Amendment #7 to this contract. The diamond drilling contractor did not submit a bill for the November drilling on account of the small footage completed and as a result no cost for the diamond drilling has been entered against the project for November. This cost will be added next month.

7. Surveying, mapping and sampling were continued during the month. A map is attached showing (1) advance on the 700 (9th) level of the Queen Mine, (2) formations penetrated, (3) assays of cut samples.

8. 260 feet of 2" pipe and 100 feet of 1" pipe were installed in the shaft and on the 700 level of the Queen Mine.

Please note that the Colton Iron Works Single Drum Air Operated Hoist, the four foot sheave wheel and hoist cable and sinking bucket used in the unwatering of the Queen Shaft are 100% owned by Banner Mining Company. They are being used at no cost to the project or the government.

250 feet of #14- 2 conductor rubber covered cable was installed on the 700 level and in the shaft of the Queen Mine. It is 100% owned by Banner Mining Company and is being used at no cost to the project or the government.

This letter is intended as a narrative report covering progress during the month of November 1952.

Respectfully submitted,

Banner mining Company

A. B. Banner

Manager

ABB:ecb

COPY

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 November 2 195 Docket No. DMEA 269-X-B Contract No. I-[illegible]-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Conner Stravenue, Tucson, Arizona
Contract Amount, $135,739.00 Government Participation: 50 % Amount, $ 67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,765.62	36,232.59	39,998.21			
Supervision	516.48	8,074.74	8,591.22			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	142.89	2,378.26	2,521.15			
Explosives	22.00	427.23	449.23			
Pipe	71.56	2,736.38	2,807.94			
Track	136.20	2,053.80	2,190.00			
Other Supplies	217.62	4,266.97	4,484.59			
Power	519.53	3,302.48	3,822.01			
(4) Operating Equipment:						
Rental						
Purchase		6,836.03	6,836.03			
Depreciation	316.32	3,832.16	4,148.48			
(5) Initial Rehabilitation and Repairs		7,119.27	7,119.27			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	2.50	941.32	943.82			
Sampling and Analysis	9.00	158.50	167.50			
Payroll Taxes	114.88	1,523.42	1,638.30			
Liability Insurance	434.79	4,402.58	4,837.37			
Transportation	1.00	853.06	854.06			
Accountant Salary	65.83	725.27	721.10			
(8) Contingencies (specify):						
TOTALS	6,336.22	85,864.06	92,200.28 *	9336.22	85864.06	92200.22
				-75.45		- 75.45

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

Date 12-12-52 *Payee Banner Mining Company

Per A. L. Lowman Title Manager

*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:

6260.77 85864.06 92124.83

$ 3130.39

Signature [illegible]
(Authorized Certifying Officer)

Date 1/19/53 Vou. No. DMA 53-82

(See other side)

* Disallowance per DMEA Auditor's Report

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-DMA-E33 in accordance with the terms of the contract.

Signature T M Romalo Title Mining Engineer Date Dec 17, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R. D. B.

Signature W. H. King Title Executive Officer Date JAN 8 1952

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1952 Docket No. DMEA 269-X-B Contract No. I-114-P-33

Operator's Name Banner Mining Company Minerals Copper

Address 2042 Conner Stravenue, Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Other Expense Churn		478.43	*	2,759.02				
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation		5,857.79		75,435.96				
TOTAL DISTRIBUTED COSTS		6,336.22		78,244.93				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,336.03				
Initial Rehabilitation and Repairs				7,119.27				
New Buildings, Improvements, etc.								
TOTAL COSTS		6,336.22		92,200.23				

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 12-12-52 Operator Banner Mining Company

Per A. L. Bowman Title Mgr

REMARKS: * This amount includes Labor 304.92, Supervision 41.31, Equipment Rentals 24.67, Explosives 22.00, Power 41.56, Comp. Ins. 34.78, Payroll Taxes 9.19 used in getting diamond drill stations ready. These amounts are included under their respective headings off Form MF-104.

→ 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

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

New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

December 9, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-X33 (Copper)
Banner Mining Co., 2042 Conner Stravenue, Tucson, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of October, 1952, pertaining to DMA Docket 269X-B, Contract Idma-X33, Banner Mining Co.

W. H. King
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

November 28, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMA Docket 269K-B, Contract I-DMA-E33 (Copper) Banner Mining Co., 2042 Conner Stravenue, Tucson, Arizona - Operator's Monthly Progress Report for the period of October, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 50 percent of the amount reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

W. H. King
W. H. King

Enclosures

RDB:oc

cc: Contract
Secretary to the Operating Committee (2)
WRStorms
Chron.
AHKoschmann (2)

MINING DIVISION
REGION IV

November 19, 1952

Memorandum

For : W. M. King, Acting Chief, Mining Division, Region IV

From : Lincoln A. Stewart for Chief, Arizona-New Mexico Branch, Mining Division, Region IV, Tucson, Arizona

Subject : October 1952 Progress Report, Docket DMA-269X-B Contract I-DMA-233, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above progress report:

(1) Bureau of Mines engineer's report;

(2) Operator's Narrative report with maps;

(3) Forms MF-104 and 104A.

Also enclosed are two extra copies of our engineer's report.

As documentation has been waived for this project, no cost statements or payrolls are enclosed.

As all work is in accordance with the terms of the contract, in the absence of Mr. Storms, I recommend that the Government's share of the costs be paid.

Lincoln A Stewart

Lincoln A. Stewart, Mining Engineer
for Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Division, Region IV

cc W. M. King (6)
DMA-269XB
DF

LAStewart:frj

Conclusions based on the inspection of the project works and costs are as follows:

1. The work performed and for which claim is made is in accordance with the contract and is as reported on Form MF-104A. The set-up of Other Expense for Core Drilling on MF-104A was suggested by the writer and has been explained on the form under "Remarks". If this method is unsatisfactory, the Tucson office should be instructed as to the correct way to distribute these costs in the future

2. The supply and service charges were necessary and do not appear to be excessive. The charge of $328.32 for depreciation includes hoist and motor, pickup truck, compressor and 10 hours use of the Diamond-T truck.

3. The Operator's Narrative Report is considered adequate.

4. Documentary support of charges, waived on this project, will be available for an on-site audit.

T. M. Romslo

T. M. Romslo, Mining Engineer
Arizona-New Mexico Branch
Mining Division, Region IV

November 12th, 1952

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract #I-DMA-E-33, DMA Docket #269-X-B Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of October, 1952.

1. The Queen Shaft was unwatered to a total depth of 88 feet below the 7th level of the Queen Mine, an advance for the month of 85 feet. One full shaft set and two sets of lagging were installed where needed, and one full station set was put in on the 7th level shaft station.

2. The Colton Iron Works single drum air operated hoist listed in the October 10th report was installed, complete with timber foundation, anchor bolts, timbered protective cover for the hoist and hoistman, and 3/4" wire rope. A 4 foot sheave was installed in the shaft, complete with pillow blocks and 8" X 16" bearing timbers.

3. The diamond drill station for Twin Buttes Project diamond drill holes No.s 4 and 5 on the Glance-Queen 525 level crosscut was completed during October for a total advance of 18 feet, final dimensions 8' x 22'. The full 18 feet was timbered, as the granite was too weak to stand safely over this width due to numerous fractures traversing this area.

4. The diamond drill station for Twin Buttes Project diamond drill holes No.s 6 and 7 was advanced 9.5 feet during the month.

This letter is intended as a narrative report covering progress during the month of October, 1952.

Respectfully submitted,

Banner Mining Company

B W Venable
Engineer

BWV:ecb

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Budget Bureau No. 42-R1036.3.
Defense Minerals Administration
RECEIVED
DEC 12 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1952 Docket No. DMEA 269-X-B Contract No. I-XI-D-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Comer Stravenue, Tucson, Arizona
Contract Amount, $ 135,739.00 Government Participation: 50 % Amount, $ 67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,558.47	32,674.12	36,232.59			
Supervision	782.35	8,017.66	8,800.01			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	353.55	2,024.71	2,378.26			
Explosives	42.07	385.16	427.23			
Pipe	63.52	2,672.86	2,736.38			
Track		2,053.80	2,053.80			
Other Supplies	206.92	3,608.65	3,815.57			
Power	395.10	2,907.38	3,302.48			
(4) Operating Equipment:						
Rental						
Purchase		6,836.03	6,836.03			
Depreciation	328.32	3,503.84	3,832.16			
(5) Initial Rehabilitation and Repairs		7,119.27	7,119.27			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	6.50	934.82	941.32			
Sampling and Analysis	10.50	148.00	158.50			
Payroll Taxes	105.73	1,417.69	1,523.42			
Liability Insurance	385.92	4,016.66	4,402.58			
Pickup Gas & Repairs	49.33	402.07	451.40			
Transportation	6.10	846.96	853.06			
(8) Contingencies (specify):						
TOTALS	6,294.38	79,569.68	85,864.06	6,294.38	79,569.68	85,864.06

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

Date 11-12-52 *Payee Banner Mining Company

Per Bill Kunable Title Engineer

*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:

$ 3147.19

Signature [illegible]
(Authorized Certifying Officer)

Date 12/4/52 Vou. No. DMA-53-67
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-DMA-E 33 in accordance with the terms of the contract.

Signature D M Bomglo Title Mining Engineer Date Nov 19, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

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;

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(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.

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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).

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1952 Docket No. DMEA 269-X-B Contract No. I-DM-E-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Conner Stravenue, Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
* Other Expense		2,230.59		2,230.59				
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation		4,013.79		69,628.17				
TOTAL DISTRIBUTED COSTS		6,294.38		71,908.76				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,836.03				
Initial Rehabilitation and Repairs				7,119.27				
New Buildings, Improvements, etc.								
TOTAL COSTS		6,294.38		85,864.06				

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 11-12-52 Operator Banner Mining Company

Per B.H. Venable Title Engineer

REMARKS: * This amount includes Labor 1,358.15, Supervision 297.30, Equipment Rentals 117.16, Pickup Gas 18.75, Explosives 42.07, Lumber 82.84 Other Supplies 27.36, Power 150.14, Liab Ins. 146.65, & Payroll Tax 40.17 used in getting Diamond Drill Stations ready. These amounts are included under their respective headings on Form MF-104.

→ 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)

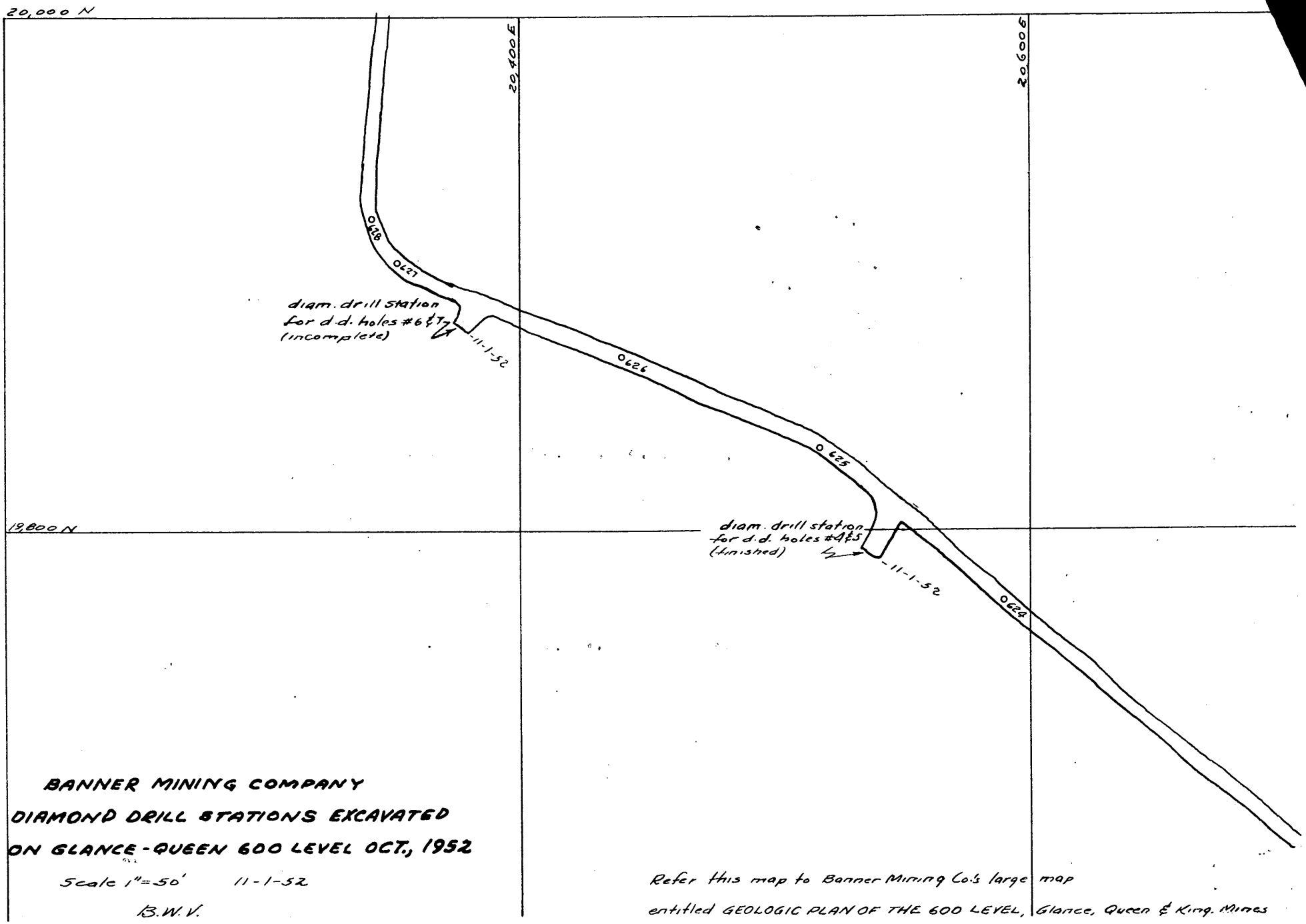
INSTRUCTIONS

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



BANNER MINING COMPANY

DIAMOND DRILL STATIONS EXCAVATED

ON GLANCE-QUEEN 600 LEVEL OCT., 1952

Scale 1"=50' 11-1-52

B.W.V.

Refer this map to Banner Mining Co.'s large map entitled GEOLOGIC PLAN OF THE 600 LEVEL, Glance, Queen & King Mines Twin Buttes Subdistrict, etc.

A F F I D A V I T

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of October 31st, 1952, under D. M. A. Contract Number I-DMA-33, D. M. A. Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED This 17th day of November, 1952.

W. H. Hardy

W. H. Hardy

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

Before me, the undersigned, a Notary Public in and for said County and State on this 17th day of November, 1952, personally appeared W. H. Hardy to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

Dorothy Williams

Dorothy Williams, Notary Public

My commission expires:
August 18th, 1955.

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

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV 19 1952

November 19, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33 (Copper) Banner Mining Company, Pima County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and 104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of September, 1952, pertaining to DMEA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

W. H. King
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

October 23, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 269X-B, Contract I-DMA-533, (Copper) Banner Mining Company, Pima County, Arizona - Operator's Monthly Progress Report for the period of September, 1952

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 50 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

W. H. King
W. H. King

Enclosures

JWT:oc

cc: Contract
Secretary to Operating Committee (2)
WRStorms
Chron.
AHKoschmann (2)

MINING DIVISION
REGION IV

October 16, 1952

Memorandum

To : W. M. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : September 1952 Progress Report, Docket DMA-269XD, Contract I-DMA-133, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above report:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with map;

(3) Forms MF-104 and 104A

Also enclosed are two extra copies of our engineer's report.

As all work is in accordance with the terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Division, Region IV

CC W. M. King (6)
DMA-269XD
DF

WRStorms:frj

October 10th, 1952

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract # I-DMA-E-33, DMA Docket #269-X-B Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of September 1952:-

1. Rock was blasted out to make room for a station sump 5' X 5' X 3' next to the Glance Shaft on the 525 foot level. Concrete walls and floor were then poured in the sump. The purpose of this sump is to catch the water which runs to this shaft from the unwatering of the Queen Shaft. A 4" pipe line was connected into this sump and 85' of 4" pipe was hung in the shaft to carry this water to the pump on the 625' level of the Glance Mine.

2. The drift around the cave was completed this month with a total advance of 9.5'. The rock in this section was white marble with a few tiny mineralized seams.

3. A total of 137 feet of drift was cleaned out on the east side of the 625' level of the Glance Mine. Track was layed over this distance. 20 feet of this drift had to be timbered on account of heavy ground.

4. The sampling of the 625' level of the Glance Mine was completed this month. Assay results and geology and progress are shown on the attached map. The geological mapping is now complete on the 625' level.

5. The following items of equipment owned 100% by Banner Mining Company are being used at no cost to the project or the governments-

a. 700 feet of 15 conductor rubber covered signal cable. (Glance Shaft)

b. One 1/2 ton Yale Chain Block. (Queen Shaft)

c. 500' of #4 Single Conductor rubber covered stranded wire. (525' level between Glance & Queen Mines)

d. 133' of 1/0 3 conductor armored cable. (Glance Shaft)

e. 160' of size 1/0 NFN rubber covered single conductor cable. (Glance Shaft)

f. 1- Colton Iron Works single drum air operated hoist with 3/4" cable. (Queen Shaft 7th Level)

g. 1821' of size #4, 3 conductor 600 volt RC wire cable type RR. (525' Level between Glance and Queen Mines)

h. 1- Ingersoll Rand 10 H P Motor Pump, size 1½ E V H. (Queen Shaft below 7th level)

6. Work was commenced on the installation of the air hoist at the Queen Shaft for the unwatering below the 7th level of the Queen Mine. Work was also commenced on the chute in the manway of this shaft to accomodate about 8 to 10 tons of debris and muck which will come from the cleanup work on the 9th level of the Queen Mine. As of October 1st, 1952 this work was about one half complete.

7. The water was lowered to a point 3.5 feet below the 7th level of the Queen Shaft.

8. Used telephones were installed at the hoist and on the 525' level of the Glance Shaft to facilitate supply ~~and~~ handling and to have a means of underground communication.

9. Old timber and debris were cleaned up around the station of the 7th level of the Queen Shaft in preparation for the unwatering process.

This letter is intended as a narrative report covering progress during the month of September 1952. Respectfully submitted.

Yours very truly,

Banner Mining Company

A. S. Bowman
Manager

ABB:ecb

COPY

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

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

Defense Minerals Administration
NOV 24 1952

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

Month of September, 1952 Docket No. DMEA 269-I-B Contract No. I-Z1-R-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Conner Stravenue, Tucson, Arizona
Contract Amount, $ 135,789.00 Government Participation: 50 % Amount, $ 67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,376.32	29,862.32	34,238.64			
Supervision	929.83	6,504.58	7,434.41			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	210.89	1,861.28	2,072.17			
Explosives	36.73	348.43	385.16			
Pipe	248.70	146.49	395.19			
Track		497.19	497.19			
Other Supplies	454.74	7,603.91	8,058.65			
Power	374.06	4,298.32	4,672.38			
(4) Operating Equipment:						
Rental						
Purchase		6,036.03	6,036.03			
Depreciation	316.48	3,209.36	3,525.84			
(5) Initial Rehabilitation and Repairs		3,638.46	3,638.46			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	630.38	304.44	934.82			
Sampling and Analysis	134.25	13.75	148.00			
Payroll Taxes	185.71	1,263.94	1,449.65			
Liability Insurance	470.58	3,637.42	4,108.00			
Pickup-Cars Repairs	58.52	343.55	402.07			
Transportation	37.65	809.31	846.96			
(8) Contingencies (specify):						
TOTALS	8,464.84	71,178.78	79,643.62	8,464.84	71,178.78	79,643.62
					*- 73.94	*- 73.94
				8,464.84	71,104.84	79,569.68

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

Date 10-11-52 *Payee Banner Mining Company

Per A. L. Bowman Title Manager

*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:

$232.42

Signature [illegible]
(Authorized Certifying Officer)

Date 11/13/52 Vou. No. DMA 53-60
(See other side)

* Previous Disallowance

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-OMA-E33 in accordance with the terms of the contract.

Signature M M Rambo Title Mining Engineer Date Oct 16, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. H. King Title Executive Officer Date 10/23/52

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1952 Docket No. DMEA 269-X-B Contract No. I-21-E-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Comer Stravenue, Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation		3,464.04		69,169.13				
TOTAL DISTRIBUTED COSTS		3,464.04		69,169.13				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				6,336.03				
Initial Rehabilitation and Repairs				3,633.46				
New Buildings, Improvements, etc.								
TOTAL COSTS		3,464.04		79,638.62				

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 10-11-52 Operator Banner Mining Company

Per A. S. Lowman Title Manager

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)

Delay due to fact that Contractor Administration Division Auditor took those vouchers to Tucson to make an audit.

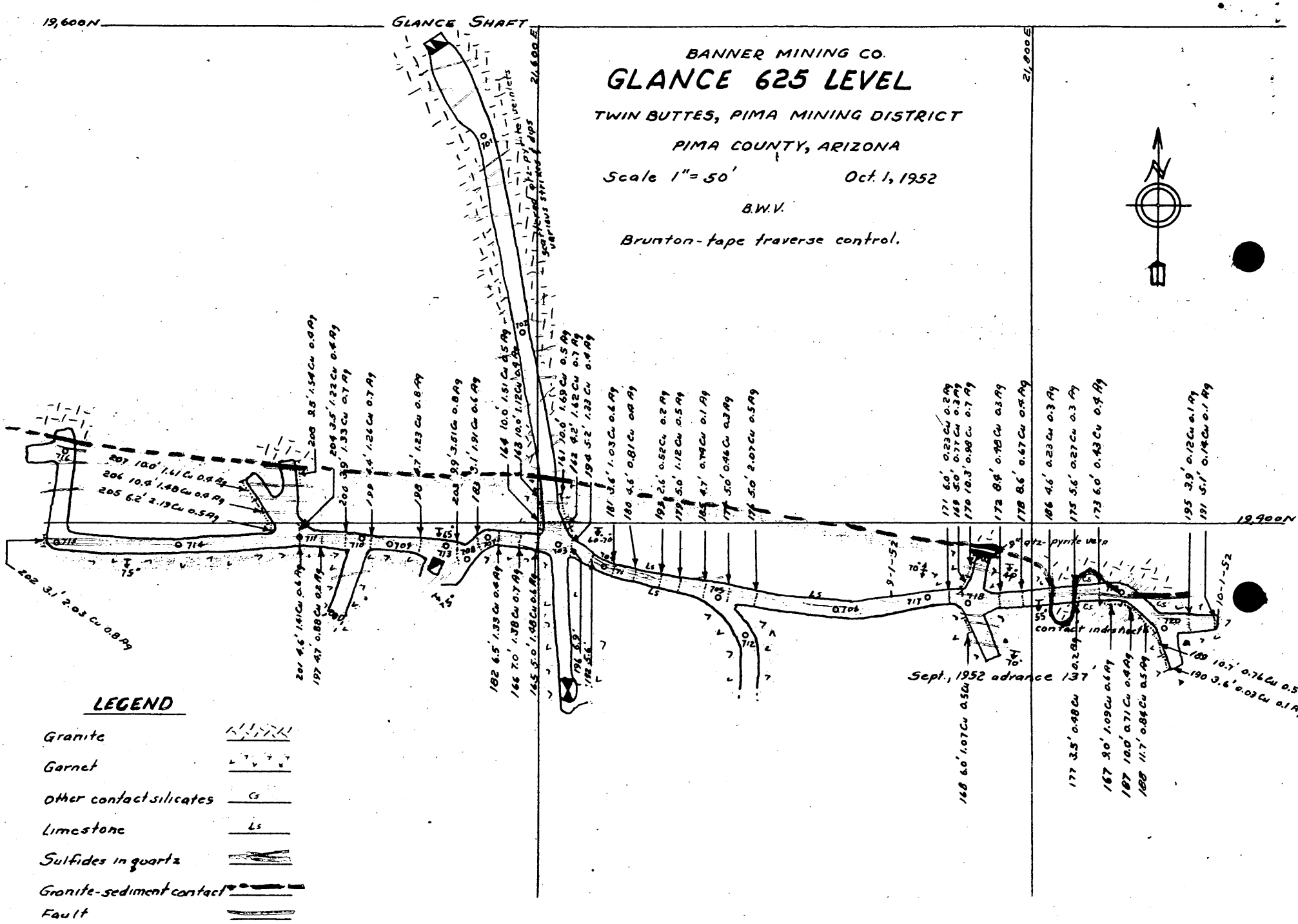
INSTRUCTIONS

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


BANNER MINING CO.
GLANCE 625 LEVEL
TWIN BUTTES, PIMA MINING DISTRICT
PIMA COUNTY, ARIZONA
Scale 1" = 50'
Oct. 1, 1952
B.W.V.
Brunton-tape traverse control.
GLANCE SHAFT
19,600N
19,900N
21,600E
21,800E
Sept., 1952 advance 137'
contact indistinct
LEGEND
Granite
Garnet
Other contact silicates
Limestone
Sulfides in quartz
Granite-sediment contact
Fault

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

September 26, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269X-B, Contract I-DMA-E33 (Copper) Banner Mining Company, Twin Buttes Project, Pima County, Arizona - Operator's Monthly Progress Report for the period of August, 1952

Enclosed are the original and four copies of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $4112.97 which is 50 percent of the total of $8225.94.

Documentation has been waived on this contract and this report is passed pending an on-site audit.

The operator will be informed to make appropriate changes in his September report so as to distribute costs to item (5), on Form MF-104A, and incorporate correction on Form MF-104A.

W. H. King

W. H. King

Enclosures

WLD:oc

cc: Contract
Secretary to the Operating Committee (2)
WRStorms
Chron.
Koschmann (2)

Mining Division
Date Rec'd
SEP 19 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

September 16, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : August 1952 Progress Report, DMA Docket 269XB, Contract I-DMA-E33, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above report:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report;

(3) Forms MF-104 and 104A, with maps.

Also enclosed are two extra copies of our engineer's report.

As all work conforms to the contract, I recommend that the Government's share of 50 percent of the costs be paid.

Documentation has been waived for this project.

Walter R. Storms

Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Division, Region IV

CC W. H. King (6)
DMA-269XB
DF

WRStorms:frj

September, 10th, 1952

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract # I-DMA-E-33, DMA Docket # 269-X-B Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the Month of August 1952:-

1. 100 feet of 3" pipe for use as an air line was installed in the Glance Shaft between the 325' and 625' levels.

2. 205 feet of 3" pipe was installed in the crosscut on the 625' level from the Glance Shaft to the point where the drifts take off east and west.

3. 105' of 2" air pipe was installed in the 625' level east drift.

4. 378' of drifts and crosscuts were cleaned out on the 625' level of the Glance Mine. Track was layed over this distance. 40 feet of this drift had to be timbered on account of heavy ground.

5. 95.5 feet of 6' X 8' drift was completed around the caved section at the Queen Mine. The rock we passed through during the month was mainly white marble with a few mineralized seams containing garnet.

6. Some geological mapping and surveying was completed during the month. A plan mapof both the 525' and 625' levels is attached hereto which shows the following:- (A) Progress to Date, (B) Progress during the month of August 1952 and (C) Formations Penetrated.

7. Some preliminary planning and preparations were made toward the unwatering of the Queen Shaft below its 7th level (525' level of the Glance Mine). It will be necessary to install an air hoist and an electric centrifugal pump together with a method of handling this water at the Glance Shaft.

Sampling will begin early in September and the results will accompany next months report.

We lost one ore car during the month. We were dumping the waste from the drift around the caved section near the Queen Shaft into an old stope when the retaining chain broke and the car fell off into the water. We were unable to find it.

One Gemco Rail Punch was purchased during the month for use at this mine. It is 100% owned by Banner Mining Company and is being used at no cost to the project or the government.

This letter is intended as a narrative report covering progress during the month of August 1952. Respectfully submitted.

Yours very truly,

Banner Mining Company

A. B. Bowman
Manager

ABB:ecb

COPY

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1952 Docket No. DMEA 269-X-B Contract No. IDM-E-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Conner Straverme, Tucson, Arizona
Contract Amount, $ 135,789.00 Government Participation: 50 % Amount, $ 67,894.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,368.86	26,494.61	30,863.47			
Supervision	841.83	6,824.28	7,666.11			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	237.86	1,687.30	1,925.16			
Explosives	234.70	113.73	348.43			
Pipe	87.43	59.06	146.49			
Track	366.12	131.07	497.19			
Other Supplies	386.55	8,146.80	8,533.35			
Power	340.02	3,958.30	4,298.32			
(4) Operating Equipment:						
Rental						
Purchase		6,836.03	6,836.03			
Depreciation	360.32	2,939.78	3,300.10			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		304.44	304.44			
Sampling and Analysis		13.75	13.75			
Payroll Taxes	182.37	1,156.47	1,338.84			
Liability Insurance	521.07	3,333.45	3,854.52			
Pickup-Gas & Repairs	56.79	386.48	443.27			
Transpo rtation	242.02	567.29	809.31			
(8) Contingencies (specify):						
TOTALS	8,225.94	62,952.84	71,178.78	~~8,225.94~~	~~62,952.84~~ *-73.93 62,878.91	~~71,178.78~~ *-73.93 71,104.85

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

Date 9-8-52 *Payee ~~Banner Mining Company~~

Per A. S. Bowman Title Manager

*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:

$ 4112.97

Signature [illegible]
(Authorized Certifying Officer)

Date 10/1/52 Vou. No. DMA 53-40
(See other side)

* Previous Disallowances

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-DMH-E33 in accordance with the terms of the contract.

Signature D M Pomalo Title Mining Engineer Date 9/15/52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: 4112.97

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1952 Docket No. DMEA 209-X-B Contract No. ID1-U-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Connor Stravenue, Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs		8,225.94		71,178.73				
New Buildings, Improvements, etc.								
TOTAL COSTS		8,225.94		71,178.73				

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 9-8-52 Operator Banner Mining Company

Per A. L. Lowman Title Manager

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

A F F I D A V I T

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of August 31st, 1952, under D. M. A. Contract Number I-DMA-33, D. M. A. Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED This 16th day of September, 1952.

W. H. Hardy

W. H. Hardy

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

Before me, the undersigned, a Notary Public in and for said County and State on this 16th day of September, 1952, personally appeared W. H. Hardy to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

Dorothy Williams

Dorothy Williams, Notary Public

My commission expires:
August 18th, 1955.

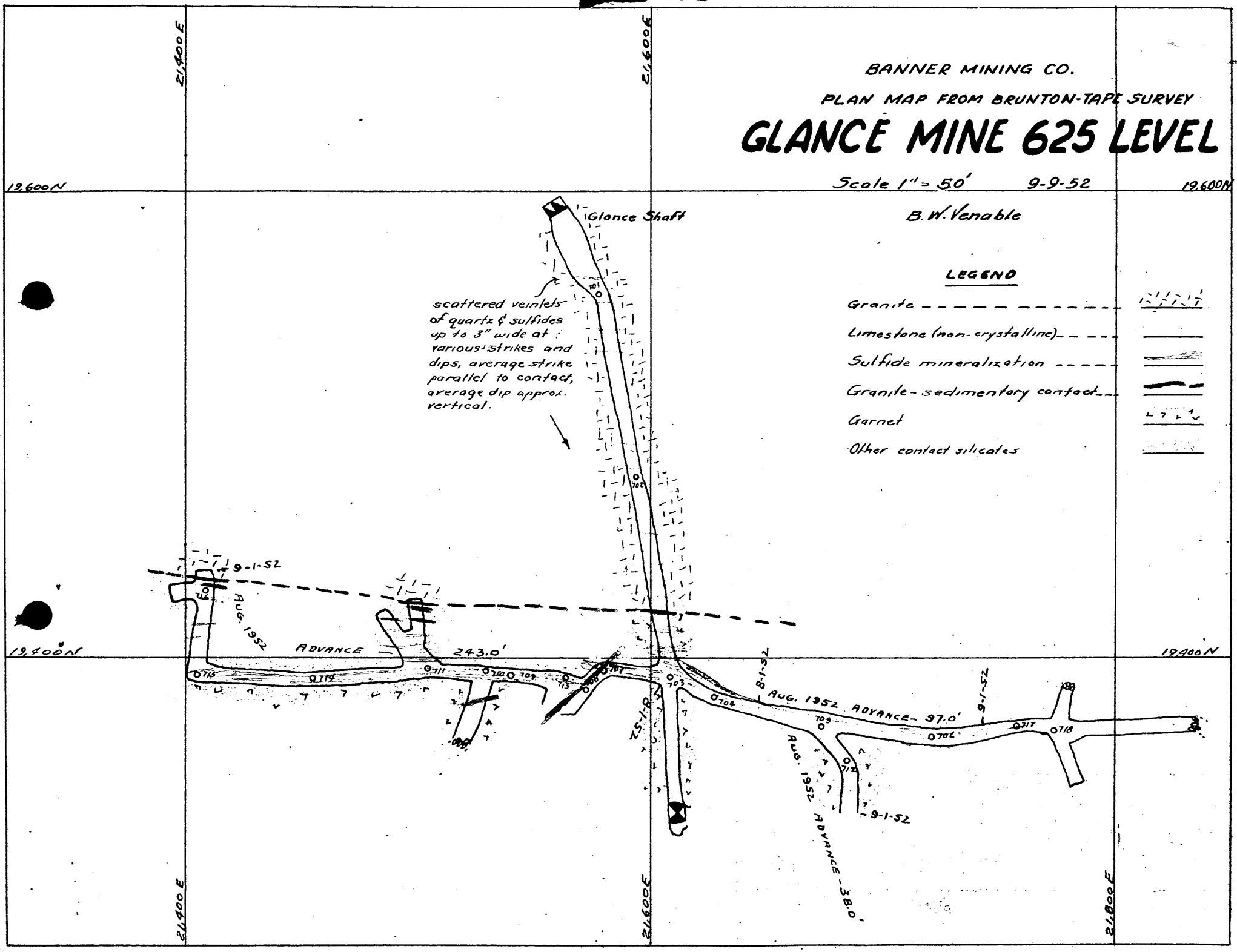
BANNER MINING CO.

PLAN MAP FROM BRUNTON-TAPE SURVEY

GLANCE MINE 625 LEVEL

Scale 1" = 50' 9-9-52

B. W. Venable



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

[illegible] New Customhouse
Denver 2, Colorado

September 23, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-X33 (Copper)
Banner Mining Company, Pima County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the month of July, 1952 pertaining to DMA Docket 269X-B, Contract I-DMA-X33, Banner Mining Company.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

August 25, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269X-B, Contract I-DMA-E33 (Copper)
Banner Mining Company, Pima County, Arizona -
Operator's Monthly Progress Report, for the period
of July, 1952

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $5,735.85, which is 50 percent of the total of $11,471.71.

Waiver of documentation has been issued, therefore the report is passed for payment subject to results of the onsite audit.

John F. Shaw for
W. H. King

Enclosures

JWT:oc

cc: Secretary to the Operating Committee (2)
Contract
WRStorms
Chron.
Koschmann (2)

MINING DIVISION
REGION IV

August 18, 1952

Memorandum

To : W. H. King, Denver, Colorado

From : Chief, Arizona-New Mexico Branch, Mining Division, Region IV

Subject : July 1952 Progress Report, DMA Docket 269XB, Contract I-AA-L33, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above progress report.

(1) Bureau of Mines engineer's report;
(2) Operator's narrative report;
(3) Forms MF-104 and 104A (original of MF-104 with equipment lists).

Also enclosed are two extra copies of our engineer's report.

As all accounts conform to the contract, I recommend that 50 percent of the costs be paid by the Government.

Walter R. Storms

Walter R. Storms

cc: W. H. King (6)
DMA-269X B
LF

WRStorms:als

MINING DIVISION
REGION IV

August 18, 1952

Memorandum

To : Walter A. Storms, Chief, Arizona-New Mexico Branch

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Engineer's Narrative Report for July 1952, Sunner Mining Co., Twin Buttes Copper Mines, Pima County, Ariz. RFC Docket 269X 5, Contract R-RM-533.

The monthly visit to the Twin Buttes mine was made by the writer August 7, 1952. Cost accounts for the project were reviewed and an inventory of supplies used and equipment purchased during July was taken before inspecting the project workings in the company of Allen Bowman, superintendent of the property.

During the inspection trip, all places worked during July were visited. It was noted that all work continues to be done in a safe and workman-like manner, and that the work is progressing at a satisfactory rate. The new mucking machine and the new drifter-drill, purchased and charged to the project during July, were being used in the drift that will by-pass the caved section of the Queen mine.

The Operator's Narrative Report, Forms RF 104 and 104A, and payrolls were received August 11, and certified invoices covering purchase of equipment were received August 18.

The following conclusions were reached from information obtained during the visit to the property:

(1) The work performed, for which claim is made, is in conformance with the contract and is as reported on Form RF 104A.

(2) The supply and service charges were necessary and they do not appear excessive. Note: Charges for rental equipment are the same as last month except that, the truck was not used, and the cement mixer was in service.

cc: W. H. King (Orig. & 6)
RMA-269X 5
DF

TMRomslo:als

(3) Charges to equipment purchased are supported by a statement that lists the items and by signed copies of purchase invoices. Freight charges on the mine car loader, not known before completion of MF 104, will be included in costs for August.

The payrolls and invoices for purchases costing less than $50.00 are not essential to this report as such documentary support of charges was waived by the Executive Officer, DMMA, Region IV. They are included because they are on-hand but will not be a part of future reports.

Progress maps will be made a part of future reports.

T. M. Romslo,
Mining Engineer

August 8th, 1952

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- DMA Contract # I-DMA-E-33, DMA Docket # 269-X-B Pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of July, 1952:-

1. The Glance Shaft was unwatered and repaired from the 525' level to the 626' level, a distance of 101 feet. A 3" pipe was installed in this section of the shaft to handle the water. Landings and ladders were installed in the manway as prescribed by law. New guides were installed in the hoisting compartment.

The last 16' in the shaft just above the 626' level was filled with debris and muck which slowed our progress some.

2. The 626' station was cleaned up and a drainage ditch dug to divert the small flow of water on the level.

3. 252' of crosscut and 36' in the east drift of the 626' level were cleaned out and track laid over the entire distance.

4. The drift around the caved section in the Queen Mine was commenced during the month and 30' of 6' X 8' drift was completed. The point of beginning was in garnet and was quite hard to drill. We have passed now into marble and our progress is improved.

5. Line points were established by the engineer along which the above drift is being driven. Some geology was mapped in the vicinity of the Queen Shaft on the 525' level.

6. A concrete foundation was poured under the front legs of the bin at the Glance Mine.

7. 50 feet of drift was cleaned out and track layed in the east side of the Glance 525' level. This drift is now complete to the east face.

8. A new mucking machine was received on July 11th, 1952 and was lowered to the 525' level for use in driving the drift around the cave west of the Queen Mine.

9. A new 3" Drifter drill was put in use during the month.

The above is intended as a narrative report on progress and work done during the month of July, 1952.

Yours very truly,

Banner Mining Company

A. B. Bowman
Manager

ABB:ecb

COPY

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

#1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1952 Docket No. DMEA 269-X-B Contract No. I-DMA-E-33
Operator's Name Banner Mining Company Minerals Copper
Address 2042 Conner Stravenue- Tucson, Arizona
Contract Amount, $135,789.00 Government Participation: 50 % Amount, $67,894.50

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
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Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,900.07	22,594.54	26,494.61			
Supervision	841.83	5,982.45	6,824.28			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	104.32	1,582.98	1,687.30			
Explosives	88.69	25.04	113.73			
Pipe	59.06		59.06			
Track	131.07		131.07			
Other Supplies	406.08	7,740.72	8,146.80			
Power	406.84	3,551.46	3,958.30			
(4) Operating Equipment:						
Rental	312.48	2,627.30	2,939.78			
Purchase	4,126.33	2,709.70	6,836.03			
Depreciation						
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(7) Miscellaneous:						
Repairs to Equipment	304.44		304.44			
Sampling and Analysis	13.75		13.75			
Payroll Taxes	165.97	990.50	1,156.47			
Liability Insurance	474.19	2,859.26	3,333.45			
Pickup, Gas & Repairs	53.06	333.42	386.48			
Transportation	83.53	483.76	567.29			
(8) Contingencies (specify):						
TOTALS	11,471.71	51,481.13	62,952.84	11,471.71	51,481.13	62,952.84
					* 73.94	* 73.94
				11,471.71	51,407.19	62,878.90

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

Date 8-7-52 *Payee Banner Mining Company

Per A. S. Sowma Title Manager

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(Instructions on reverse)

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

$5735.85

Signature [illegible] (Authorized Certifying Officer)

Date 9/22/52 Vou. No. DMA 53-35

(See other side)

* Previous Disallowances

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. I-DMA-E33 in accordance with the terms of the contract.

Signature D.M. Pomeroy WRH Title Mining Engineer Date Aug. 18, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

#1

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1952 Docket No. DMEA 269-X-3- Contract No. [illegible]-3-33

Operator's Name Banner Mining Company Minerals Copper

Address 2042 Conner Stravenue- Tucson, Arizona

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS								
Operating Equipment Purchased								
Initial Rehabilitation and Repairs		11,471.71		62,952.84				
New Buildings, Improvements, etc.								
TOTAL COSTS		11,471.71		62,952.84				

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 8-7-52 Operator Banner Mining Company

Per A. L. Sommer Title Manager

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

#2

Banner Mining Company

Twin Buttes D M A Project

July, 1952

EMPLOYEE	JOB CLASSIFICATION	RATE
Mike V. Ybarra	Shaftman	$ 1.80
Jose A. Vergara	Helper	1.525
Fernando R. Perez	Hoistman	1.695
Phillip F. Stevens Jr.	Semi Skilled Mechanic	1.695
Frank Y. Coronado	Helper	1.525
Felix O. Tena	Miner	1.695
Jesus L. Felix	Hoistman	1.695
Ralph F. Garcia	Mechanic	1.76
Mike Coronado	Shaftman	1.80
Gregory Smitz	Watchman	.75
James H. Stevens	Helper	1.525
Jose M. Comacho	Helper	1.525
Pedro Casillas	Helper	1.525
Harold L. Stevens	Helper	1.525
Arthur P. Hernandez	Helper	1.525
William Y. Howard	Helper	1.525
Richard G. Sanders	Helper	1.525
Samuel V. Rosthenhausler	Miner	1.695

COPY

Notes:- The hours circled in red on the payrolls denotes evening shift. The rate is four cents per hour more than the dayshift rate.

The hours circled in blue on the payrolls denotes graveyard shift. The rate is eight cents per hour more than the dayshift rate.

Seven of these men worked on both the Mineral Hill Project and the Twin Buttes Project. These men were shifted from one project to the other according to the particular daily needs of each property.

A F F I D A V I T

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of July 31st, 1952, under D. M. A. Contract Number I-DMA-33, D. M. A. Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED This 16th day of August, 1952.

W. H. Hardy

W. H. Hardy

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

Before me, the undersigned, a Notary Public in and for said County and State on this 16th day of August, 1952, personally appeared W. H. Hardy to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

Dorothy Williams

Dorothy Williams, Notary Public

My commission expires:
August 18th, 1955.

#2

LOCATION Tucson, Arizona DEPT. Twin Buttes B M A Project

PERIOD COVERED: FROM 7-1-52 TO 7-12-52 Inclusive

TIME BOOK AND PAYROLL

A. B. Bowman
MANAGER

PAGE NO. _____

VOU. NO. _____

SEMCO 1-47—3000

BANNER--FORM 100

No.	NAME		1	2	3	4	5	6	7	8	9	10	11	12	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITAL-IZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT					TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
1	Mike V. Ybarra	Overtime—	8	8	8	x	12	8	8	8	8	8	12		88	1.80		158.40		2.38										2.38	156.02		
3	Jose Alcoverde Vergara	Overtime—	8	8	8	x	x	8	8	8	8	8	12		76	1.565		118.94		1.78										1.78	117.16		
4	Fernando R. Perez	Overtime—	8	8	8	x	x	8	8	8	8	8	12		76	1.735		131.86		1.98										1.98	129.88		
6	Phillip F. Stevens Jr.	Overtime—	8						3					7½	18½	1.695		31.36		.47										.47	30.89		
9	Frank Y. Coronado	Overtime—	8	8	8	x	12	8	8	8	8	8	12		88	1.525		134.20		2.01										2.01	132.19		
15	Felix O. Tena	Overtime—	8	8	8	x	x	8	8	8	x	x	x		16 32	1.735 1.695		82.00		1.23										1.23	80.77		
18	Jesus Lizzaraga Felix	Overtime—	8	8	8	x	12	8	8	8	8	8	12		88	1.695		149.16		2.24										2.24	146.92		
21	Ralph F. Garcia	Overtime—	8	8	8	x	12	8	8	8	8	8	12		88	1.76		154.88		2.32										2.32	152.56		
22	Mike Coronado	Overtime—	x	8	8	x	x	8	8	8	8	8	12		68	1.84		125.12		1.88										1.88	123.24		
25	Gregory Smitz	Overtime—	8	8	8	12	12	8	8	8	8	8	12	12	112	.75		84.00		1.26										1.26	82.74		
27	James Hunt Stevens	Overtime—	8	8					8						24	1.525		36.60		.55										.55	36.05		
28	Jose Martinez Comacho	Overtime—	8	8	8	x	x	8	8	8	8	8	12		44 32	1.565 1.525		117.66		1.76										1.76	115.90		
		Overtime—																1,324.18		19.86										19.86	1,304.32		
		Overtime—																															
		Overtime—																															
		Overtime—																															
	A. B. Bowman	Overtime—	Period 7-1-52 to 7-15-52 Incl. ½ of his time															19050															
	E. E. Bray	Overtime—	"	"	"	"	"	"	"	"	"	"	"					13750															
	B. W. Venable	Overtime—	"	"	"	"	"	"	"	1/8 of hids time								6000															
	E. C. Bowman	Overtime—	"	"	"	"	"	"	"	1/6 of his time								3291															
		Overtime—																															
		Overtime—																															
		Overtime—																															
		Overtime—																															
		Overtime—																															

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

224 New Customhouse
Denver 2, Colorado

August 8, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Company, Twin Buttes Mine, Pima County, Arizona-Operator's Monthly Progress Report for the period June, 1952.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of June, 1952, pertaining to DMA Docket 269XB, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Mine, Pima County, Arizona.

W. H. King

Enclosures

Mining Division
Region IV

July 25, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Company, Twin Buttes Mine, Pima County, Arizona - Operator's Monthly Progress Report, for the period of June 1952

Enclosed are the original and four copies of Form MF-104, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $3,395.06, which is 50 percent of the total of $6,790.13.

W. H. King

W. H. King

Enclosures

WLD:jp
cc: Sec. Oper. Comm. (2)
Storms
Contract
Koschmann (2)
Chron

MINING DIVISION
REGION IV

July 15, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : June 1952 Progress Report, DMA Docket 269XB, Contract I-DMA-E33, Danner Mining Co's. Twin Buttes copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above report:

(1) Bureau of Mines engineer's report;
(2) Operator's narrative report;
(3) Form MP-104 with payroll.

Also enclosed are 2 extra copies of our engineer's report.

As all accounts conform to the contract, I recommend that the Government's 50 percent share be paid.

As original documentation is extremely difficult for this project, I have recommended that this documentation be waived.

Walter R. Storms

Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Div., Region IV

CC W. H. King (6)
DMA-269X B
DF

WRStorms:frj

MINING DIVISION
REGION IV

July 15, 1952

Memorandum

To : Walter R. Storms, Chief, Arizona-New Mexico Br., Mining Div., Region IV, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Arizona

Subject : Monthly Progress report for June 1952, Banner Mining Co., Twin Buttes Copper Mines, DMA Docket 269XB, Contract I-DMA-E33

R. W. Ageton, Mining Engineer, Tucson, Ariz. and the writer visited the subject project July 10, 1952 to check progress. After checking cost records and taking inventory of supplies used during June, we made an inspection trip of the property accompanied by Allen Bowman, superintendent of the property. On the 525 level of the Glance mine, it was noted that, (1) 77 feet of drift had been cleaned out west of the Queen shaft, (2) air and water pipe line installations had reached the Queen shaft, (3) a small amount of blasting had been done for sampling purposes and for lengthening curves to allow passage of 20-foot sections of pipe and rail, and (4) a few sections of unsafe ground had been timbered. About 100 tons of debris had been removed from the Queen shaft at the 440 level. The air now circulates freely down the shaft that is bare of timber, to the 440 level and thence to the surface via the 525 level and the Glance shaft. Clearing of the Queen shaft below the 440 level may be done in the future. Dewatering and rehabilitation of the Glance shaft below the 525 level was started in July and had reached a point about 65 feet below the level.

Upon returning to the surface and the company office at the Mineral Hill mine, a geologic map of the 525 level from the Glance shaft was inspected. The map was prepared from shaft plumbing and transit surveys and geologic work done to the end of June.

ANALYSIS OF ENTRIES ON FORM MF-104

Item 2(c). Monthly depreciation of equipment furnished by the applicant.

Item 4. Represents labor according to the contract. In order to operate efficiently some of the men employed on this project are also used at times on project DMA 269X-A.

CC W. H. King (orig. & 6)
DMA-269XB
DF
TMRomslo:frj

Item 5. This represents allowable salaries. The salary distribution is shown on the payroll sheets.

Item 6 (a). Timber sets placed to support bad ground on 525 level.

Item 6(b). Explosives used on 525 level to lengthen curves for passage of 20-foot sections of pipe and rail, and for the slabbing-off of mineralized zones for sampling.

Item 6(d). Mainly timber, pipe and fittings, and rails and track accessories.

Item 7.	Power charge, gross	$435.87
	Less 20 percent rebate	87.17
		348.70
	Plus 1 percent of gross	4.36
	Total	$353.06

Item 8. Freight charges on pipe and fittings, rail and track accessories, and brake lining for hoist.

Item 9. Payroll taxes on gross amounts as follows:
Unemployment insurance, 2%
Workmen's compensation, 10%
Social security, 1½%

Item 11. Gas, oil, and 2 tire repairs for contract pickup.

The usual affidavit relative to payment of June bills will be sent to Denver from the Oklahoma office.

All items on MF-104 are allowable according to the contract and its amendments. The writer has approved the report.

T. M. Romslo

T. M. Romslo, Mining Engineer
Arizona-New Mexico Branch
Mining Div., Region IV

A F F I D A V I T

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. BARNY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of June 30th, 1952, under D. M. A. Contract Number I-DMA-33, D. M. A. Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED This 16th day of July, 1952.

#1

July 11th, 1952

Defense Minerals Administration
224 New Customhouse Building
Denver 2, Colorado

Re:- D M A Contract # I-DMA-E-33, DMA Docket # 269-X-B Pertaining To The Twin Buttes Property South Of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of June 1952:-

1. Enough pumping was continued to hold the water at the 525 foot level of the Glance Mine while cleanup work on this level progressed.

2. 77 feet of drift was cleaned out west of the Queen Shaft. This is as far as we can go here on account of the large caved area. It will be necessary to drift around this section. We have applied for an amendment to the contract to allow for this drifting.

3. 1150 feet of 3" pipe and 525' of 1" pipe were installed in the drift west of the Glance Shaft. Compressed air line and water line are now connected up to the caved section west of the Queen Shaft.

4. The Glance Shaft was plumbed and survey lines carried underground. The surveying and mapping of the 525 foot level, in so far as it is opened in the Queen and Glance Mines has been completed. The geology has been plotted on this level map.

5. Two rounds were blasted in a face of ore on the 525 foot level of the Glance Mine for sampling purposes.

6. Work was continued mucking and cleaning out the Queen Shaft at the 440 level. This shaft is now open from the 440 level to the surface for the passage of air only. One block still remains in the shaft below the 440 level but in as much as we now have ventilation via raises we have discontinued this work for the present. An estimated 100 tons of debris was cleaned out of this shaft in June.

Until an amendment is completed allowing the drift around the caved area west of the Queen Shaft, we will go ahead with the unwatering of the Glance Mine to the 625' level.

The above is intended as a narrative report on progress and work done during the month of June 1952.

Very truly yours,

Banner Mining Company

A. B. Bowman
Manager

ABB:ecb

COPY

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

#1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50 % Amount, $ 67,894.50
Distribution of Expenditures for Month of June, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By A. S. Sorman
(Signature of Authorized Official)

7-10-52
(Date)

Manager
(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.

16--64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	None	2,709.70	2,709.70			
(b) Rented[2]						
(c) Furnished by operator	317.32	2,309.98	2,627.30			
Hoist & Motor 41.66						
3/4 Ton Pickup 41.66						
800cfm Compressor 225.00						
D T Truck 1½ Hours 9.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	3,219.47	19,375.07	22,594.54			
5. Supervision	841.83	5,140.62	5,982.45			
6. Supplies						
(a) Timber	29.27	1,553.71	1,582.98			
(b) Explosives	25.04	None	25.04			
(c) Repair Parts						
(d) Other	1,371.37	6,369.35	7,740.72			
7. Power	353.06	3,198.40	3,551.46			
8. Transportation	40.82	442.94	483.76			
9. Insurance						
(a) ~~Fed.~~ XXX Unemp. Ins.	81.23	490.61	571.84			
(b) Public Liability						
(c) Workmen's Compensation	406.13	2,453.13	2,859.26			
Soc. Sec.	60.92	357.74	418.66			
10. Contract Work						
11. Other (specify)						
Pickup- Gas, oil & reapirs	43.67	289.75	333.42			
Total	6,790.13	44,691.00	51,481.13	6,790.13	44,691.00	51,481.13
Deletions					-73.94	-73.94
Adjusted totals					44,617.06	51,407.19
Totals previously reported				44,617.06		
Totals to date				51,407.19		

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by D.M. Romero WKS
Amount approved for payment
Remarks

NB Schedule DMR 53-17
Aug. 4, 1952
3395.06

16—64068-3

Note:- $15.47 has been removed from the Totals Previously Reported Column under Labor. This represents the amount suspended in your B & F Form #4 dated 6-26-52, covering our report for the month of May, 1952.

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF June, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	4,061.30	317.32	1,425.68	985.83	6,790.13					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	4,061.30	317.32	1,425.68	985.83	6,790.13					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

#2

Banner Mining Company

Twin Buttes D M A Project

June 1952

EMPLOYEE	JOB CLASSIFICATION	RATE
Mike V. Ybarra	Shaftman	$ 1.80
Jose A. Vergara	Helper	1.525
Phillip F. Stevens Jr.	Semi-skilled Mechanic	1.695
Frank Y. Coronado	Helper	1.525
Felix O. Tena	Hoistman & Miner	1.695
Jesus L. Felix	Hoistman	1.695
Ralph F. Garcia	Mechanic	1.76
Mike Coronado	Shaftman	1.80
James H. Stevens	Helper	1.525
Jose M. Comacho	Helper	1.525
Gregory Smitz	Watchman	.75
Fernando R. Perez	Hoistman	1.695
J. P. Ramirez	Electrician	2.00
H. M. Hodgers	Electrician	2.00

Notes:- Perez was hired as hoistman to replace Tena who was changed to Miner.

The hours circled in red on the payrolls denotes evening shift. The rate is four cents per hour more than the dayshift rate.

The hours circled in blue on the payrolls denotes graveyard shift. The rate is eight cents per hour more than the dayshift rate.

Five of these men worked on both the Mineral Hill and the Twin Buttes Projects. These men were shifted from one project to the other according to the particular needs of each project.

LOCATION Tucson, Arizona DEPT. Twin Buttes B N A Project

PERIOD COVERED: FROM 6-1-52 TO 6-14-52 Inclusive

TIME BOOK AND PAYROLL

PAGE NO. _____

VOU. NO. _____

SEMCO 1-47—3000 BANNER--FORM 100

No.	NAME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITAL-IZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT	W. tax				TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
1	Mike V. Ybarra	Overtime—	8	8	8	8	8	12		8	8	x	x	x	x		68	1.80		122.40		1.84						3.90				5.74	116.66		
3	Jose Alcoverde Vergara	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.565		162.76		2.44				Hat5.00 Belt2.25 Boots7.50	14.75	22.10				39.29	123.47		
6	Phillip F. Stevens Jr.	Overtime—	2½							8½	8				12		31	1.695		52.55		.79										.79	51.76		
9	Frank Y. Coronado	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.525		158.60		2.38						21.30				23.68	134.92		
15	Felix O. Tena	Overtime—	8	8	8	8	8	12		x	8	8	8	8	8		92	1.735		159.62		2.39						11.10				13.49	146.13		
18	Jesus Lizarraga Felix	Overtime—	8	8	8	8	8	12		8	8	8	8	12	12		8 108	1.735 1.695		196.94		2.95						8.00				10.95	185.99		
21	Ralph F. Garcia	Overtime—	x	8	8	8	8	93/4		8	8	8	8	8	12		3½ 93 3/4	1.80 1.76		171.30		2.55						13.50				16.05	155.25		
22	Mike Coronado	Overtime—	8	8	8	8	8	x		8	8	8	8	8	12		92	1.84		169.28		2.54						8.40				10.94	158.34		
25	Gregory Smith	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	128	.75		96.00		1.44						13.90				15.34	80.66		
27	James Hunt Stevens	Overtime—										8	8	8	8	12	44	1.525		67.10		1.01										1.01	66.09		
28	Jose Martinez Comacho	Overtime—								MH	MH	MH	8	8	12	12	40	1.525		61.00		.92										.92	60.08		
		Overtime—																		1,417.55		21.25					14.75	102.20				138.20	1,279.35		
		Overtime—																																	
		Overtime—																																	
		Overtime—																																	
	A. B. Bowman	Overtime—	Period 6-1-52 to 6-15-52 Incl. ½ of his time																	190.50															
	E. E. Bray	Overtime—	"	"	"	"	"	"		"	"	"	"	"						137.50															
	B. W. Venable	Overtime—	"	"	"	"	"	"		"	1/8 of his time									60.00															
	E. C. Bowman	Overtime—	"	"	"	"	"	"		"	1/6 of his time									32.91															
		Overtime—																								CERTIFIED TRUE COPY									
		Overtime—																								A. B. Bowman									
		Overtime—																								MANAGER									
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#1

LOCATION Tucson, Arizona DEPT. Twin Buttes D M A Project

PERIOD COVERED: FROM 6-15-52 TO 6-28-52 Inclusive

TIME BOOK AND PAYROLL

PAGE NO. _____

VOU. NO. _____

SEMCO 1-47—3000

BANNER--FORM 100

No.	NAME		15	16	17	18	19	20	21	22	23	24	25	26	27	28	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITAL-IZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT	W Tax				TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
1	Mike V. Ybarra	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.84		191.36		2.87						17.50				20.37	170.99		
3	Jose Alcoverde Vergara	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.525		158.60		2.38						21.30				23.68	134.92		
6	Phillip F. Stevens Jr.	Overtime—			2						2						4	1.695		6.78		.10										.10	6.68		
9	Frank Y. Coronado	Overtime—	8	8	8	8	8	12		x	8	8	8	8	8		92	1.565		143.98		2.16						18.10				20.26	123.72		
15	Felix O. Tena	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.695		176.28		2.64						14.30				16.94	159.34		
18	Jesus Lizaraga Felix	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.735		180.44		2.71						4.80				7.51	172.93		
21	Ralph F. Garcia	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.76		183.04		2.75				Boots	7.50	15.90				26.15	156.89		
22	Mike Coronado	Overtime—	8	8	8	8	8	12		8	8	8	8	8	12		104	1.80		187.20		2.81						11.60				14.41	172.79		
25	Gregory Smitz	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	128	.75		96.00		1.44						13.90				15.34	80.66		
27	James Hunt Stevens	Overtime—	MH	MH	MH	MH	8	12						8	x	x	28	1.525		42.70		.64										.64	42.06		
4	Fernando R. Perez	Overtime—				8	8	8	8	8	8	8	8	8	12		84	1.695		142.38		2.14						13.00				15.14	127.24		
		Overtime—								8							8	1.565																	
28	Jose Martinez Comacho		MH	MH	MH	MH	x	8	12	8	8	8	8	12	12		76	1.525		128.42		1.93										1.93	126.49		
		Overtime—																		1,637.18		24.57					7.50	130.40				162.47	1,474.71		
		Overtime—																																	
		Overtime—																																	
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CERTIFIED TRUE COPY

A. L. Lawson

MANAGER

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

224 New Customhouse
Denver 2, Colorado

July 3, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: DMA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Company, Twin Buttes Project, Pima County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other data for the period of May 1952, pertaining to DMA Docket 269XB, Contract I-DMA-E33, Banner Mining Company.

W. H. King

W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 1952

THE DEPARTMENT OF THE INTERIOR
BUREAU OF INDIANS
REGION IV

Administrative Audit Difference Statement

Date: June 26, 1952
Payee:
Reference: Progress Report - May 1952

Danner Mining Co.
2042 Conner Stravenue
Tucson, Arizona

Upon consideration of the above Payee's reference a difference was found which made it necessary to adjust your account accordingly:

Amount claimed $ 7,000.29

Difference $ 15.47

Amount Approved $ 6,984.82

The reason for the difference was due to:

Excessive wages paid Phillip F. Stevens, Jr.

Any credits for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV - B&F Form No. 4
4-15-52 D

Mining Division
Region IV

June 20, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269XB, Contract I-DMA-E33 (Copper), Banner Mining Company, Twin Buttes Project, Pima County, Arizona - Operator's Monthly Progress Report for the period of May 1952

Enclosed are the original and four copies of Form MF-104, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended as follows:

Amount Reported	$7,000.29
Disallowance:	
Excessive wages paid Stevens on May 24	15.47
	$6,984.82
Government participation	$3,492.41

As clearly explained in the engineer's memorandum, this man actually worked 18½ hours overtime on May 24 but is shown as having worked 27-3/4 hours at regular time. This in itself would be correct and allowable; however, all but eight hours worked previously in that week were on company time. Since this man only worked a total of 26½ hours on both contracts, I-DMA-E32 and I-DMA-E33, it is not considered necessary to participate in the overtime. We are making the disallowance shown above.

W. H. King
W. H. King

Enclosures

WLD:jp
cc Secty. to the Operating Committee
WRStorms
Contract
Chron
WHKoschmann (2)

Mining Division
Date Rec'd.
JUN 16 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

June 13, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : May 1952 Progress Report for DMA Docket 269X B, Contract I-DMA-E33, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quintuplicate are the following items for the above report:

(1) Bureau of Mines engineer's report;
(2) Operator's progress report;
(3) Form MF-104 with payroll.

Also enclosed are 2 extra copies of our engineer's report.

As all accounts are in accordance with the contract, except possibly Item 4 on Form MF-104 as mentioned in Romslo's report, I recommend that 50 percent of the total cost be paid by the Government.

Walter R. Storms

Walter R. Storms

CC W. H. King (orig & 6)
DMA-269X B
DF

WRStorms:frj

MINING DIVISION
REGION IV

June 12, 1952

Memorandum

To : Walter R. Storms, Chief, Arizona-New Mexico Br., Mining Div., Region IV, Tucson, Ariz.

From : T. M. Romslo, Mining Engineer, Tucson, Arzi.

Subject : Monthly progress report for May 1952, Banner Mining Co., Twin Buttes Copper Project, Pima County, Ariz., Docket 269X-B, Contract I-DMA-233

I visited the subject project on June 9 to check progress. Project records were checked and an inventory was taken of supplies used during the period. An inspection trip of the property then was made in company with Allen Bowman, superintendent of the operation. We went down the Glance Shaft to the 525 level and then walked this level to the Queen shaft and an old stope, the dumping place for muck from the clean-up operations. We then climbed through raises and stopes, a vertical distance of 116 feet, to the Queen shaft. At this place muck, timber, rails, and pipes are being removed from the shaft and dumped into a nearby stope. The shaft, completely plugged at the start of this operation, has been reopened to the point where natural air from the surface is now entering the workings.

The pumps are run intermittently to keep water below the 525 level.

ANALYSIS OF ENTRIES ON FORM MF-104

Item 2 (c). Monthly depreciation of contract items.

Item 4. The payroll sheets have been checked in detail. It should be noted that on the sheet for 5-18 to 5-31, Phillip F. Stevens, Jr. was paid for 27-3/4 hours on the 24th. The 12 hours on day shift represents 1½ times the 8 hours worked, and the 15-3/4 hours of night shift represents time and a half for 10½ hours worked. Further, during the week of the 24th, Stevens worked 8 hours on the 19th for project 269X-A and the remaining days of the week were on non-project work for the Banner Mining Co. Thus, overtime paid on the 24th resulted from non-project work. The de-

CC W. H. King (orig. & 6)
DMA-269X B
DF

TMRomslo:frj

termination as to whether the overtime is an allowable charge to the project is left up to Denver.

Item 5. This represents salaries according to the contract.

Item 6(a). Timber used in rehabilitation of mine workings.

Item 6(d). Includes rail and splice bars, pipe and fittings, electric fittings, etc.

Item 7.	Power charge, gross	$294.09
	Less 20 percent rebate	58.82
		235.27
	Plus 1% of gross	2.94
		$238.21

Item 8. Freight on rails, splice bars, pipe, pipe fittings, bolts, etc.

Item 9. Pay roll taxes on gross amounts as follows:
Unemployment insurance, 2%
Workman's compensation, 10%
Social security, 1½%

Item 11. Gas, oil and repairs for contract pick-up.

The usual affidavit relative to payment on May bills will be sent to Denver from the Oklahoma office.

As all items on form MF-104, with the possible exception noted under item 4, are within contract specifications, the writer approves the report subject to final decision at Denver relative to the questionable item.

T. M. Romslo

T. M. Romslo, Mining Engineer
Arizona-New Mexico Branch

A F F I D A V I T

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of May 31st, 1952, under D. M. A. Contract Number I-DMA-33, D. M. A. Docket 269-I-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED this 12th day of June, 1952.

W. H. Hardy

W. H. Hardy

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

Before me, the undersigned, a Notary Public in and for said County and State on this 12th day of June, 1952, personally appeared W. H. Hardy to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

GIVEN under my hand and seal of office the day and year last above written.

Dorothy Williams

My commission Expires:
August 10th, 1955.

Dorothy Williams, Notary Public

June 9th, 1952

Defense Minerals Administration
224 New Custom House Building
Denver 2, Colorado

Re:- D M A - Contract Number I- DMA-E-33, D M A Docket #269-X-B Pertaining To The Twin Buttes Property South Of Tucson, Arizona.

Gentlemen:

Below is a list of work completed under the Twin Buttes D M A Project during the month of May 1952:-

1. Enough pumping was continued to hold the water at the 525 foot level of the Glance Mine while we are cleaning out and retimbering where necessary, The drift connecting with the Queen Mine.

2. A total of 808 feet of drift was rehabilitated during the month. This included 588 feet on a direct route to the Queen shaft. 220 feet was out to an old stope and was done to get dumping space for muck to be handled. This will avoid the long tram to the Glance shaft and will save hoisting it to the surface. Track and 1" air line was laid throughout this distance.

3. The Queen Shaft was blocked somewhere above the 525' level of the Glance Mine. It was necessary to open this shaft before any blasting could be done as the ventilation was nil except for compressed air.

We worked our way, repairing where necessary, up through old raises and stopes and drifts to a point about 160 feet vertically above the 525 level of the Glance Mine and reached a point 20 feet from the Queen shaft at this level. We commenced cleaning out this debris which included rails, timber, muck and pipe. During May an estimated 400 tons was cleaned out of this shaft.

A 1" compressed air line was installed up these raises, drifts, stopes etc for ventilation purposes as there wasn't enough oxygen to support combustion above a point 50 feet above the 525' level of the Glance Mine.

The Queen shaft was finally opened for passage of air on June 6th, 1952.

4. Work was continued on the surface mapping and surveying at this mine.

5. A steel turnsheet was installed at the collar of the Glance shaft and the surface tracks to the ore bin and waste dumps were connected to it.

The above is intended as a narrative report on progress and work done during the month of may 1952.

Yours very truly,

Banner Mining Company

A. B. Bowman

ABB:ecb

COPY

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50 % Amount, $ 67,894.50
Distribution of Expenditures for Month of May 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 7 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By [signature]
(Signature of Authorized Official)

6-9-52
(Date)

Manager
(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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	None	2,709.70	2,709.70	None	2,709.70	2,709.70
(b) Rented[2]						
(c) Furnished by operator	346.32	1,963.66	2,309.98	346.32	1,963.66	2,309.98
Hoist & Motor 41.66						
3/4 Ton Pickup 41.66						
800cfm Compressor 225.00						
D T Truck 19 Hrs. 38.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3] *	3,686.13	15,704.41	19,390.54	3,686.13	15,704.41	19,390.54
5. Supervision	841.83	4,298.79	5,140.62	841.83	4,298.79	5,140.62
6. Supplies						
(a) Timber	87.21	1,466.50	1,553.71	87.21	1,466.50	1,553.71
(b) Explosives						
(c) Repair Parts						
(d) Other	1,025.81	5,343.54	6,369.35	1,025.81	5,343.54	6,369.35
7. Power	238.21	2,960.19	3,198.40	238.21	2,960.19	3,198.40
8. Transportation	115.16	327.78	442.94	115.16	327.78	442.94
9. Insurance						
(a) ~~Soc~~ Unemp. Ins.	90.56	400.05	490.61	90.56	400.05	490.61
(b) Public Liability						
(c) Workmen's Compensation	452.80	2,000.33	2,453.13	452.80	2,000.33	2,453.13
Soc. Sec.	67.92	289.82	357.74	67.92	289.82	357.74
10. Contract Work						
11. Other (specify)						
Pickup Gas, oil & Repairs	48.34	241.41	289.75	48.34	241.41	289.75
Total	7,000.29	37,706.18	44,706.47	7,000.29	37,706.18	44,706.47
Deletions *				15.47		
Adjusted totals				6,984.82		
Totals previously reported				37,706.18		
Totals to date				44,691.00		

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by TM Pomeroy WRS
Amount approved for payment $3492.41
Remarks

16—64068-3

Schedule DMA 52-2
July 1, 1952
3492.41

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF May 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	4,527.96	346.32	1,113.02	1,012.99	7,000.29					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	4,527.96	346.32	1,113.02	1,012.99	7,000.29					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

Banner Mining Company

Twin Buttes D M A Project

May 1952

Employee	Job Classification	Rate
Mike V. Ybarra	Shaftman	$ 1.80
William Sanders	Helper	1.525
Paul M. Lopez	Helper	1.525
Phillip F. Stevens Jr.	Mechanic Helper	1.65
Felix O. Tena	Hoistman	1.695
J. P. Ramirez	Electrician	2.00
H. M. Hodgers	Electrician	2.00
Jesus L. Felix	Hoistman	1.695
Ralph F. Garcia	Mechanic	1.76
Mike Coronado	Shaftman	1.80
Gregory Smith	Watchman	.75
Santos A. Yescas	Helper	1.525
Alfredo Quen Martinez	Helper	1.525
Frank Y. Coronado	Helper	1.525
Wood L. Sholly	Carpenter	1.76
Antonio Rammet	Miner	1.695

Notes:- The hours circled in red on the payrolls denotes evening shift. The rate is four cents per hour more than the dayshift rate.

The hours circled in blue on the payrolls denotes graveyard shift. The rate is eight cents per hour more than the dayshift rate.

Seven of these men worked part time on both the Mineral Hill Project and the Twin Buttes Project. These men were shifted fron one project to the other according to particular daily needs of each property.

LOCATION Tucson, Arizona DEPT. Twin Buttes R M A Project

PERIOD COVERED: FROM 5-4-52 TO 5-17-52 Inclusive

TIME BOOK AND PAYROLL

PAGE NO. _____

VOU. NO. _____

SEMCO 1-47—3000 BANNER--FORM 100

No.	NAME		4	5	6	7	8	9	10	11	12	13	14	15	16	17	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITAL-IZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT	Vitex				TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
1	Mike V. Ybarra	Overtime—		8	8	8	8	8	12	8	8	8	8	8	12	12	116	1.80		208.80		3.13						15.40				18.53	190.27		
2	William Sanders	Overtime—		8	8	8	8	8	x	8	8	8	8	8	12	x	92	1.525		140.30		2.10						12.20				14.30	126.00		
4	Paul M. Lopez	Overtime—	8	8	8	8	8	12	12		8	8	8	8	8	12	0 108	1.525 1.565		181.22		2.72						26.10				28.82	152.40		
6	Phillip V. Stevens Jr.	Overtime—				6	5	12		2		8	6	8	11		50	1.65		95.70		1.44						12.70				14.14	81.56		
15	Felix O. Vena	Overtime—	8	8	8	8	8	12	x	8	8	8	8	8	12	12	16 100	1.695 1.735		200.62		3.01						19.10				22.11	178.51		
16	J. P. Ramirez	Overtime—	5½											2½			8	2.00		16.00		.24										.24	15.76		
17	H. M. Rodgers	Overtime—	5½											2½			8	2.00		16.00		.24										.24	15.76		
18	Jesus Eizmarage Felix	Overtime—		8	8	8	8	8	12 12		8	8	8	8	8	12	12 104	1.735 1.695		197.10		2.96						8.00				10.96	186.14		
21	Ralph M. Garcia	Overtime—		8	8	8	8 6	11	12		8	8	8	8	8	12	6 107.	1.80 1.76		199.12		2.99						19.10				22.09	177.03		
22	Mike Coronado	Overtime—	8	8	8	8	8	12	12		8	8	8	8	8	12	8 108	1.80 1.84		213.12		3.20						17.40				20.60	192.52		
23	Santos A. Tescas	Overtime—			8	8	8	8	12		8	8	x	x	x	x	68	1.525		91.50		1.38										1.38	90.12		
25	Gregory Smith	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	128	.75		96.00		1.44						13.90				15.34	80.66		
9	Frank M. Coronado	Overtime—				8	8	8	8		8	8	8	8	8	12	84	1.525		128.10		1.92				Hat 5.00 Boots 7.50	12.50	14.90				29.32	98.78		
3	Good Leonard Scully	Overtime—				4	4	4									12	1.75		21.12		.32						12.20				12.52	8.60		
		Overtime—																		1,804.70		27.09					12.50	171.00				210.59	1,594.11		
		Overtime—																																	
	A. B. Bowman	Overtime—	Period 5-16-52 to 5-31-52 Incl. 1/2 of his time																	190.50															
	D. E. Bray	Overtime—	"	"	"	"	"	"		"	"	"	"	"						137.50															
	D. W. Venable	Overtime—	"	"	"	"	"	"		"	"	1/8 of his time								60.00															
	B. C. Bowman	Overtime—	"	"	"	"	"	"		"	"	1/6 of his time								32.92															
		Overtime—																																	
		Overtime—																																	
		Overtime—																																	
		Overtime—																																	

LOCATION Tucson, Arizona DEPT Twin Cities D P A Project

PERIOD COVERED: FROM 5-1-52 TO 5-3-52 Inclusive

TIME BOOK AND PAYROLL

SEMCO 1-47—3000

No.	NAME		1	2	3	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITAL-IZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT
1	Mike V. Yburra	Overtime—	8	12	12	32	1.84		58.88		.88					
2	William Sanders	Overtime—	8	8	12	28	1.565		43.82		.66					
4	Paul M. Lopez	Overtime—	8	8	12	28	1.525		42.70		.64					
6	Phillip F. Stevens Jr.	Overtime—	4		4	8	1.65		13.20		.20					
15	Felix C. Tena	Overtime—	8	12	12	32	1.695		54.24		.81					
16	J. P. Ramirez	Overtime—	4½			4½	2.00		9.00		.14					
17	P. F. Rodgers	Overtime—	4½			4½	2.00		9.00		.14					
18	Jesus Lizzarraga Felix	Overtime—	8	12	12	32	1.735		55.52		.83					
21	Ralph F. Garcia	Overtime—	8	8	12	28	1.76		49.28		.74					
22	Mike Coronado	Overtime—	8	12	12	32	1.80		57.60		.86					
25	Gregory Smith	Overtime—	8	12	12	32	.75		24.00		.36					
23	Santos A. Yescas	Overtime—	8	8	4	20	1.525		30.50		.46					
27	Alfredo Quon Martinez	Overtime—	8	8		16	1.525		24.40		.37					
		Overtime—							472.14		7.09					
		Overtime—														
		Overtime—														
	A. D. Bowman	Overtime—	Period 5-1-52 to 5-15-52 Incl. 1/2 of his time						190.50							
	E. E. Bray	Overtime—	" " " " " " " " " " " "						137.50							
	D. W. Venable	Overtime—	" " " " " " " " 1/8 of his time						60.00							
	E. C. Bowman	Overtime—	" " " " " " " " 1/6 of his time						32.91							
		Overtime—														
		Overtime—														
		Overtime—														
		Overtime—														
		Overtime—														

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

224 New Customhouse
Denver 2, Colorado

June 3, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, Docket No. 269XB, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Pima County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the period of March, 1952, pertaining to DMA Docket 269XB, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Pima County, Arizona.

W. H. King

NW
5-24-52

May 23, 1952

Progress Report

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

April 1952

	xxxxxx increase
	6,555.06
	.86
	6,555.92

To correct erroneous deduction on March report.

N. E. Stokes
Audit Section

Mining Division
Region IV

May 19, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269XB, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Pima County, Arizona - Operator's Monthly Progress Report for the period of March, 1952

Enclosed are the original and four copies of Form MF-104, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $3,277.53, which is 50 percent of the total of $6,555.06.

Attached to the original Form MF-104 is the operator's Audit Difference Sheet of last month on which a disallowance of $0.86 was shown for erroneous computation of the power charge. The operator is reclaiming this amount with an explanation of why the disallowance should not have been made. The engineer's report also clarifies this disallowance. The operator has not listed this amount in with his costs for April, but does incorporate the amount in with his "Totals Previously Reported."

Although the job classification sheet lists six men as "helpers" whereas the contract limits the number to five, three of the six men have worked but one shift each. Again, the "mechanic helper" is allowed as a "semi-skilled shopman", bringing the total to the allowable four.

W. H. King

WLD:oc

cc: Secretary to the Operating Committee
Contract
Storms
Koschmann (2)
Chron.

A F F I D A V I T

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of April 30th, 1952, under D. M. A. Contract Number I-[illegible]-33, D. M. A. Docket 269-N-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED this 16th day of May, 1952.

W. H. Hardy

W. H. Hardy

May 10th, 1952

Defense Minerals Administration
224 New Custom House Building
Denver 2, Colorado

Re:- D M A - Contract Number I-DMA-E-33, DMA Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes D M A Project during the month of April 1952:-

1. Enough pumping was continued to hold the water at the 525 foot level of the Glance Mine while we are cleaning out and retimbering where necessary, the drift connecting with the Queen Mine. Our power bill was somewhat lower this month due to less pumping time.

2. A total of 844 feet of drift was rehabilitated during the month. This completes the repaired section of the drift connecting the Glance and Queen mines a total distance of 1212 feet west of the Glance Shaft as of May 1st, 1952. Approximately 600 feet of drift remains to be repaired before reaching the Queen Shaft. Considerable timbering had to be done to catch up heavy ground after the debris was cleared away.

3. Work was continued on the surface mapping and surveying at this mine.

4. Work was continued on the repairs to the Glance ore bin. However only 4 man-shifts were expended on this job during April.

The above is intended as a narrative report on progress and work done during the month of April 1952.

Attention is called to the note on page 3 of form MF-104 reclaiming the 86 cents suspended by your form number 4 of April 22nd, 1952. We cannot find any error whatsoever in the computation of discount or tax. All our calculations agree as to method with previous months. This total of 86 cents has been left in the proper column as reported in the March 1952 report and we are hereby reclaiming reinstatement of this amount. The original of your form number 4 is enclosed as per your request.

Yours very truly,

Banner Mining Company

A. B. Bowman

A. B. Bowman

ABB:ecb

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50 % Amount, $ 67,894.50
Distribution of Expenditures for Month of April, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By G. S. Sourman
(Signature of Authorized Official)

May 10th, 1952
(Date)

Manager
(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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	35.00	2,674.70	2,709.70			
1 Used Mine Car @ 35.00						
(b) Rented[2]						
(c) Furnished by operator	328.32	1,635.34	1,963.66			
Hoist & Motor 41.66						
3/4 Ton Pickup 41.66						
800 CFM Compressor 225.00						
D T Truck 10 hrs 20.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	3,338.95	12,365.46	15,704.41			
5. Supervision	841.83	3,456.96	4,298.79			
6. Supplies						
(a) Timber	250.96	1,215.54	1,466.50			
(b) Explosives						
(c) Repair Parts						
(d) Other	862.82	4,480.72	5,343.54			
7. Power	230.82	2,729.37	2,960.19			
8. Transportation	51.06	276.72	327.78			
9. Insurance						
(a) ~~Fed~~ Unemp. Ins. 2%	83.62	316.43	400.05			
(b) Public Liability						
(c) Workmen's Compensation 10%	410.08	1,582.25	2,000.33			
Soc. Sec. 1½%	62.71	227.11	289.82			
10. Contract Work						
11. Other (specify)						
Pickup gas oil & Repairs	50.89	190.52	241.41			
Total	6,555.06	31,151.12	37,706.18			
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by [signature] WRS. WD
Amount approved for payment $3277.53
Remarks

Schedule DMA 52-54
May 26, 1952
$ 3277.96

16—64068-3

Note:- Please refer your form No. 4 dated April 22nd, 1952 suspending @ 0.86 Connected with power discount. The 86 cents has been left in column Total Previously Reported and in column Total To Date as we cannot find any error whatsoever in the computation of discount or tax. We are therefore hereby applying for reinstatement of the 86 cents under item 7- Power. Thanks-

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF April, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	4,180.78	363.32	1,113.78	897.18	6,555.06					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	4,180.78	363.32	1,113.78	897.18	6,555.06					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

Banner Mining Company

Twin Buttes Project DMA

April 1952

EMPLOYEE	JOB CLASSIFICATION	RATE
Mike V. Ybarra	Shaftman	$ 1.80
William Sanders	Helper	1.525
Arnulfo R. Sanches	Carpenter	1.76
Phillip F. Stevens Jr.	Mechanic Helper	1.65
Lorenzo C. Cruz	Helper	1.525
Jesus V. Moreno	Miner	1.695
Paul M. Lopez	Helper	1.525
Juan M. Martinez	Hoistman	1.695
Jesse P. Bozarth	Miner	1.695
Robert C. Aguilar	Helper	1.525
Felix O. Tena	Hoistman	1.695
J. P. Ramirez	Electrician	2.00
H. M. Hodgers	Electrician	2.00
Jesus L. Felix	Hoistman	1.695
Ralph F. Garcia	Mechanic	1.76
Mike Coronado	Shaftman	1.80
Robert M. Lopez	Hoistman	1.695
Faustino G. Sanders	Miner	1.695
Gregory Smitz	Watchman	.75
Santos A. Yescas	Helper	1.525
Alfredo Q. Martinez	Helper	1.525

Notes:- Robert M. Lopez, Hoistman quit and was replaced by Felix Tena.

The hours circled in red on the payrolls denotes evening shift. The rate is four cents per hour more than the dayshift.

The hours circled in blue on the payrolls denotes graveyard shift. The rate is eight cents per hour more than the dayshift rates.

Eleven of these men worked part time on both the Mineral Hill project and the Twin Buttes Project. These men were shifted from one project to the other according to particular daily needs of each property.

COPY

Banner Mining Company

Twin Buttes D M A Project

Payroll Reconciliation April 1952

Period 4-1-52 To 4-5-52 Inclusive	$ 634.70
Period 4-6-52 To 4-19-52 Inclusive	1,265.15
Period 4-6-52 To 4-19-52 Inclusive (Paids)	214.66
Period 4-20-52 To 4-30-52 Inclusive	1,224.44
Net Labor Applicable To Twin Buttes Project	$ 3,338.95

COPY

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

224 New Customhouse
Denver 2, Colorado

May 1, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region-IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Pima County, Arizona

Enclosed are the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the month of March, 1952, pertaining to DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

J. F. Shaw
J. F. Shaw, for
J. H. East, Jr.

Enclosures

RECEIVED
MAY 5 1952

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. 33
Idm-E

C
O
P
Y

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50 % Amount, $ 67,894.50
Distribution of Expenditures for Month of March, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /s/ A. B. Bowman
(Signature of Authorized Official)

April 3, 1952
(Date)

Manager
(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.

16--64068-8

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	140.00	2,534.70	2,674.70	140.00	2534.70	2674.70
4 Used Mine Cars @ 35.00						
(b) Rented[2]				372.32	1263.02	1635.34
(c) Furnished by operator	372.32	1,263.02	1,635.34			
Hoist & Motor 41.66						
3/4 Ton Pick-up 41.66						
800 Cu.Ft. Comp. 225.00						
D.T. Truck 32 hrs. 64.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

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

224 New Customhouse
Denver 2, Colorado

May 1, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Pima County, Arizona

Enclosed are the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the month of March, 1952, pertaining to DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

J. F. Shaw
J. F. Shaw, for
J. H. East, Jr.

Enclosures

ld

cc: Contract, chron.
Koschmann
Storms

Schedule DMA 52-45

April 24, 1952

$4120.49

4/25/52

AFFIDAVIT

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of March 31st, 1952, under B. M. A. Contract Number I-INA-13, B. M. A. Docket 269-L-B pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED this 15th day of April, 1952.

W H Hardy
W. H. Hardy

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

Before me, the undersigned, a Notary Public in and for said County and State on this 15th day of April, 1952, personally appeared W. H. Hardy to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

Dorothy Williams
Dorothy Williams, Notary Public

My Commission Expires:
August 18th, 1955.

Mining Division
Region IV

April 17, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Pima County, Arizona Operator's Monthly Progress Report for the period of March, 1952.

Enclosed are the original and three copies of Form MF-104, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $4,120.93, which is 50 percent of the total of $8,241.85.

W. H. KING

W. H. King

Enclosures

WLD:oc

cc: DMA Contract, Chron.
Secretary to the Oper. Comm.
WRStorms
AHKoschmann (2)

MINING DIVISION
REGION IV

April 14, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Dr., Mining Div., Region IV

Subject : March 1952 Progress Report, DMA Docket 269X-D, Contract I-DMA-233, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quadruplicate are the following items for the above contract:

(1) Bureau of Mines engineer's report;

(2) Operator's progress report;

(3) From MF-104

Also enclosed are 2 extra copies of our engineer's report.

As all costs conform to the contract, I recommend that that Government's share be paid.

Walter R. Storms

Walter R. Storms

CC W. H. King (3)
DMA-269X D
DF

WRStorms:frj

MINING DIVISION
REGION IV

April 14, 1952

Memorandum

To : Walter R. Storms, Chief, Arizona-New Mexico Dr., Mining Div., Region IV

From : Lincoln A. Stewart, Mining Engineer, Tucson, Ariz.

Subject : Monthly progress report for March 1952, Banner Mining Co., Twin Buttes Copper Project, Pima County, Ariz. Docket No. 269X-B, Contract I-DMA-L33

I visited the above project on April 8 to check progress. After looking over the records in the company office, an inspection trip of the property was made in company with Allen Bowman. We went down the Glance shaft to the 525-foot level. This level connects with the Queen shaft and has been rehabilitated approximately 1/3 of the distance to that shaft. As numerous caved portions shut off natural ventilation between the two workings, the State mine inspector has insisted upon the installation of ventilating equipment. The blower and vent pipe probably will be installed during April.

Progress is as indicated in Bowman's narrative report.

ANALYSIS OF ENTRIES ON FORM MF-104

Item 2(a) Contract purchase at less than estimate.

Item 2(b) Monthly depreciation of contract items.

Item 4. The payroll sheets have been checked in detail. Labor classification and wages are within contract specifications.

Item 5. Contract salaries.

Item 6(a). Used in rehabilitation of shaft, drifts, and ore bin.

Item 6(d). Includes 1-, 2-, and 3-inch pipe, fittings, and valves, mine rails and accessories, oxygen and acetylene, electric supplies, etc.

SS W. H. King (5)
DMA 269X-B
MF

WRStorms:frj

Item 7. Power charge, total $429.08, less 20 percent rebate of $85.82, plus 1 percent tax.

Item 8. Freight on pipe and chain from El Paso, Texas.

Item 9. Pay roll taxes in order.

Item 11. Gas and oil for contract pickup.

The usual affidavit relative to payment of March bills will be sent to Denver from the Oklahoma office.

As all items are within contract specifications, the writer is approving the report.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
Arizona-New Mexico Branch

April 9th, 1952

Defense Minerals Administration
224 New Custom House Building
Denver, Colorado

Re:- D.M.A. Contract Number I-DMA-E-33 DMA Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:

Below is a list of work completed under the Twin Buttes DMA Project during the month of March 1952:

1. Pumping was continued and the water lowered to the 525 foot level of the Glance Mine. We are at present holding the water level at this point while this level is being rehabilated. We are only pumping as long as necessary to keep the level open.

2. A total of 368 feet of drifts were reopened in the west side of the mine during the month. Considerable caving has occured which has to be mucked up and hoisted to the surface. Of the total of 368 feet of drifts reopened 120 feet had to be timbered for safety. Track and pipe are being installed in the drift as we proceed.

3. Work was commenced on the repair of a section of bin at the Glance Mine. It is necessary to reline this bin and replace timbers that have either worn or rotted out. A concrete pier will have to be poured for a support under the front side of the bin. This work was approximately 50% complete as of March 31st, 1952.

4. Work was commenced on the surface mapping and surveying of this property.

While awaiting delivery on a new mucking machine we are using one owned by the Banner Mining Company at no cost to the Government.

The above is intended as a narrative report on progress and work done during the month of March 1952.

Yours very truly,

Banner Mining Company

A. B. Bowman

A. B. Bowman

ABB:acb

COPY

Bagner Mining Company

Twin Buttes DMA Project

March 1952

EMPLOYEE	JOB CLASSIFICATION	RATE
Mike V. Ybarra	Shaftman	1.80
Arnulfo R. Sanchez	Carpenter	1.76
Phillip F. Stevens Jr.	~~Mechanic Helper~~	1.65
Lorenzo C. Cruz	Helper	1.525
Jesus V. Moreno	Miner	1.695
Jesus L. Felix	Hoistman	1.695
Gerardo Galvez	Helper	1.525
Robert L. Lopez	Hoistman	1.695
Faustino Sanders	Helper & Miner	1.525 & 1.695
Gregory Smitz	Watchman	.75
J. P. Ramirez	Electrician	2.00
W. H. Rodgers	Electrician	2.00
William Sanders	Helper	1.525
Domingo S. Galvan	Miner	1.695
Rafael C. Ortega	Miner	1.695
Arnulfo G. Nanez	Helper	1.525
Duane W. Sprague	Mechanic	1.76
Enrique S. Perez	Helper	1.525

Note:- Enrique S. Perez left our employ and was replaced by William Sanders.

The hours circled in red on the payrolls denote evening shift. The rate is four cents per hour more than the day shift rate.

The hours circled in blue on the payrolls denote graveyard shift. The rate is eight cents per hour more than the day shift rate.

Ten of these men worked part time on both the Mineral Hill project and the Twin Buttes Project. These men were shifted from one project to the other according to particular daily needs of each property.

Banner Mining Company

Twin Buttes DMA Project

Payroll Reconciliation for March 1952

Period 3/1/52 to 3/8/52 Inclusive	$ 1,101.42
Period 3/9/52 to 3/22/52 Inclusive	1,567.97
Period 3/9/52 to 3/22/52 Inclusive (Paid)	93.90
Period 3/23/52 to 3/31/52 Inclusive	936.74
Period 3/23/52 to 3/31/52 Inclusive (Paid)	133.63
Total	$ 3,833.66
Plus:- Vacation Pay - Mike V. Ybarra	86.40
Grand Total Applicable to Twin Buttes DMA Project	$ 3,920.06

COPY

LOCATION Tucson, Arizona DEPT Twin Buttes DM# Project

PERIOD COVERED: FROM 3-1-52 TO 3-8-52 Incl.

TIME BOOK AND PAYROLL

PAGE NO. _____

VOU. NO. _____

SEMCO 10-42--3000 BANNER--FORM 100

No	NAME	1	2 3 4 5 6 7 8	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITAL-IZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT					TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
	Overtime—																					
	Mike V. Ybarra	12	8 8 8 8 8 12 12	76	1.84		139.84		2.10										2.10	137.74		
	Overtime—																					
	Arnulfo B. Manez	12	X 8 8 8 X 8	44	1.525		67.10		1.01										1.01	66.09		
	Overtime—																					
	Enrique Salgado Perez	12	8 8 8	36	1.605		57.78		.87										.87	56.91		
	Overtime—																					
	Phillip F. Stoms Jr.		4 8 8	20	1.65		33.00		.50										.50	32.50		
	Overtime—																					
	Juan Collazo Martinez	12	8 8	28	1.775		49.70		.75										.75	48.95		
	Overtime—																					
	Jesus Valenzuela Moreno	12	8 8 8 8 8 12 12	76	1.695		128.82		1.93										1.93	126.89		
	Overtime—																					
	Domingo S. Galvan	12	8 8 8 8 8 12 12	76	1.735		131.86		1.98										1.98	129.88		
	Overtime—																					
	Jesus Lizzarraga Felix	12	8 8 8 8 8 12 12 12	8 / 80	1.775 / 1.735		153.00		2.30										2.30	150.70		
	Overtime—																					
	Duane W. Sprague	12	8 12 X	32	1.76		56.32		.84										.84	55.48		
	Overtime—																					
	Mike Coronado	12	8 8 8	36	1.88		67.68		1.02										1.02	66.66		
	Overtime—																					
	Robert Martinez Lopez	12	8 8 8 8 8 12 12	76	1.695		128.82		1.93										1.93	126.89		
	Overtime—																					
	Lorenzo C. Cruz		8 12	20	1.525		30.50		.46										.46	30.04		
	Overtime—																					
	Gregory Smitz	12	8 8 8 8 8 12 12	76	.75		57.00		.86										.86	56.14		
	Overtime—																					
							1101.42		16.55										16.55	1084.87		
	Overtime—																					
	Overtime—																					
	Overtime—																					
	Overtime—																					
	Overtime—																					
	Overtime—																					
	G.B. Bowman	Period 3-1-52 to 3-15-52 Incl. 1/2 of his Salary					190.50															
	Overtime—																					
	E.E. Bray	" " "	" " " "				137.50															
	Overtime—																					
	J.M. Bowman	" " "	" 1/6 " "				32.91															
	Overtime—																					
	B.W. Venable	" " "	" 1/8 " "				60.00															
	Overtime—																					

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor [3]	3,920.06	8,445.40	12,365.46	3920.06	8445.40	12,365.46
5. Supervision Eng.For.Bk.	841.83	2,615.13	3,456.96	841.83	2615.13	3,456.96
6. Supplies						
(a) Timber	557.20	658.34	1,215.54	577.20	658.34	1215.54
(b) Explosives						
(c) Repair Parts						
(d) Other	1,359.64	3,121.08	4,480.72	1359.64	3121.08	4480.72
7. Power	347.55	2,381.82	2,729.37	346.69	2381.82	2728.51
8. Transportation	11.91	264.81	276.72	11.91	264.81	276.72
9. Insurance						
(a) Fire Unemploy.Ins.	95.24	221.19	316.43	95.24	221.19	316.43
(b) Public Liability						
(c) Workmen's Compensation	476.19	1,106.06	1,582.25	476.19	1106.06	1582.25
Social Security	71.43	155.68	227.11	71.43	155.68	227.11
10. Contract Work						
11. Other (specify)						
Pick-up Gas,Oil,Repairs	48.48	142.04	190.52	48.48	142.04	190.52
Total	8,241.85	22,909.27	31,151.12			
Deletions				-.86		
Adjusted totals				8204.99	22,909.27	31,150.26
Totals previously reported				22909.27		
Totals to date				31,150.26		

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by /s/ Lincoln A. Stewart WRS WLD
Amount approved for payment $412093
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF March 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	4,761.89	512.32	1,916.84	1,050.80	8,241.85					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	4,761.89	512.32	1,916.84	1,050.80	8,241.85					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

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

224 New Customhouse
Denver 2, Colorado

March 28, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploratinn Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Pima County, Arizona

Enclosed are the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report and Inspecting Engineer's Narrative Report, and other supporting data for the month of February, 1952, pertaining to DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

W. H. King

W. H. King, for
J. H. East, Jr.

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
LIBRARY
APR 3 - 1952

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 33

Copy ✓

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ $135,789.00
Government Participation: 50 % Amount, $ 67,894.50
Distribution of Expenditures for Month of February, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /s/ A. B. Bowman
(Signature of Authorized Official)

March 7, 1952
(Date)

Manager
(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.

16--64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]		2,534.70	2,534.70		2,534.70	2,534.70
(b) Rented[2]						
(c) Furnished by operator	378.32	884.70	1,263.02	378.32	884.70	1,263.02
Hoist & Motor 41.66						
Pick-Up 41.66						
Compressor 225.00						
D.T.Truck35hrs. 70.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

224 New Customhouse
Denver 2, Colorado

March 24, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Operator's Supplemental Progress Report for December, 1951

Enclosed are the Operator's Supplemental Monthly Progress Report Form MF-104, Operator's Narrative Report and Inspecting Engineer's Narrative Report and other supporting data for the month of December, 1951, pertaining to DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

J. H. EAST, JR.

J. H. East, Jr.

Enclosure

ld

cc: Contract, Chron.
Koschmann
Storms, w/1 copy of MF-104.

Schedule DMA 52-35

Mar 24, 1952

$70.99

3/29/52

Mining Division
Region IV

March 17, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269X-B, Contract I-DMA-833, Banner Mining Co., Twinn Buttes Project, Pima County, Arizona - Operator's Supplemental Progress Report for the period of December, 1951

Enclosed are the original and three copies of Form MF-104, and Narrative Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $70.99, which is 50 percent of the total of $141.98.

W. H. KING

W. H. King

Enclosures

WLD:oc

cc: Secretary to the Operating Comm.
WRStorms
AHKoschmann
DMA Contract, Chron.

Mining Division
Date Rec'd.
MAR 13 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

March 12, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Division, Region IV

From : Chief, Arizona-New Mexico Branch, Mining Div., Region IV

Subject : Reclaim for deductions for Dec. 1951, DMA Docket 269XB, Contract I-DMA-B33, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quadruplicate are the following for the above:

(1) Letter from company;

(2) Form MF-104;

(3) Payroll.

Also enclosed is original Administrative Audit Difference Statement.

As this reclaim for wages for Alfred R. Mendez has been corrected we recommend that the company's share be paid.

Walter R. Storms

CC W. H. King(3)
DMA-269X B
DF

WRStorms:frj

March 7, 1952

Defense Minerals Administration
224 New Custom House Building,
Denver 2,
Colorado.

Re:- D.M.A. Contract Number I-DMA-E-33 and Docket Number 260-V-D
pertaining to the Twin Buttes Property south of Tucson, Arizona.
Reclaim of wages disallowed on Alfred R. Mendez period 12/16/51
to 12/31/51 inclusive.

Gentlemen:-

Enclosed herewith please find four copies of form WA-104 reclaiming wages paid to Alfred R. Mendez for the period December 16, 1951 to December 31, 1951 inclusive in the amount of $ 141.98.

The above amount represents a reclaim for wages of Alfred R. Mendez disallowed by the Audit section for non-conformity of his pay rate with the original contract. According to the contract his rate should have been $ 1.675 per hour for day shift and $ 1.715 for evening shift. We paid him on the basis of $ 1.695 per hour and $ 1.735. During the period in question Mr. Mendez worked 32 hours on the evening shift and 52 hours on the day shift. Time in any week over forty hours is paid at the time and one half rate. This makes a total of 84 hours and total wages paid in the amount of $ 143.66.

We are, therefore, reclaiming wages paid him on the basis of contract wage rates as follows:-

32 Hours at $ 1.715	$ 54.88
52 Hours at $ 1.675	$ 87.10
Total reclaimed	$ 141.98

We are also enclosing herewith four copies of payroll sheets showing Mr. Mendez' time for the period in question and showing method of arriving at the amount of reclaimed wages.

Yours very truly,
Banner Mining Company

By A. B. Bowman
A. B. Bowman,
Manager

ABB:fab

MONT[illegible] SUMMARY COST STATEMENT—[illegible]inued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	3,254.15	5,191.25	8,445.40	3,254.15	5,191.25	8,445.40
5. Supervision For.Bk.	681.83	1,933.30	2,615.13	681.83	1,933.30	2,615.13
6. Supplies						
(a) Timber	40.34	618.00	658.34	40.34	618.00	658.34
(b) Explosives						
(c) Repair Parts						
(d) Other	480.05	2,641.03	3,121.08	480.05	2,641.03	3,121.08
7. Power	368.82	2,013.00	2,381.82	368.82	2,013.00	2,381.82
8. Transportation	4.00	260.81	264.81	4.00	260.81	264.81
9. Insurance						
(a) ~~Fire~~ Unemp.Ins.	78.72	142.47	221.19	78.72	142.47	221.19
(b) Public Liability						
(c) Workmen's Compensation	393.60	712.46	1,106.06	393.60	712.46	1,106.06
Social Security	59.04	96.64	155.68	59.04	96.64	155.68
10. Contract Work						
11. Other (specify)						
Pick-up Gas,Oil,Rep.	44.73	97.31	142.04	44.73	97.31	142.04
Total	5,783.60	17,125.67	22,909.27	5,783.60	17,125.67	22,909.27
Deletions						
Adjusted totals						
Totals previously reported				17,125.67		
Totals to date				22,909.27		

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by /s/ Lincoln A. Stewart WRS WLD WHK
Amount approved for payment 2891.80
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF February, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	3,935.98	378.32	520.39	948.91	5,783.60					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	3,935.98	378.82	520.39	948.91	5,783.60					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Mineral Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

March 20, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, Region IV

Subject: Monthly Progress Reports, Form MT-104

Enclosed is one copy of the Monthly Progress Report, Form MT-104 and one copy of the narrative report for DMA Docket 269X-B, Contract No. Idm-E33 for the months of Aug. 7, 51 - Sept 30, 51, November 51, December 51, and January 52. (October-51 no work done on this project for this period.)

W. H. King

W. H. King, for
J. H. East, Jr.

Enclosures

MAR 24 8 34 AM '52
DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50% % Amount, $ 67,894.50
Distribution of Expenditures for Month of January, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /S/ A. B. Bowman
(Signature of Authorized Official)

February 8, 1952
(Date)

Superintendent
(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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	—	2,534.70	2,534.70	—	2,534.70	2,534.70
(b) Rented[2]						
(c) Furnished by operator	364.32	520.38	884.70	364.32	520.38	884.70
Compressor 225.00						
Hoist & Motor 41.66						
Pick-up 41.66						
D.T. Truck 28Hrs56.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

16—64068-3

Banner Mining Company

Payroll Reconciliation

Twin Buttes Project

January 1952

Payroll Period 12/30/51 to 1/12/52 Inclusive			$ 797.15	
Less:- Overlap 12/30/51 and 12/31/51				
A. Mendez	8 Hrs. @ 1.695	13.56		
P. Stevens	8 Hrs. @ 1.495	11.96		
J. Moreno	8 Hrs. @ 1.365	10.92		
F. Tena	8 Hrs. @ 1.365	10.92		
R. Lopez	8 Hrs. @ 1.495	11.96		
Total Overlap		59.32	59.32	
Net				737.83
Payroll Period 1/13/52 to 1/26/52 Inclusive				872.96
Plus:- Overlap Period 1/27/52 to 2/9/52				
M. Ybarra	40 Hrs. @ 1.595	63.80		
A. Nanez	40 Hrs. @ 1.405	56.20		
A. Mendez	40 Hrs. @ 1.695	67.80		
P. Stevens	20 Hrs. @ 1.495	29.90		
J. Moreno	40 Hrs. @ 1.535	61.40		
R. Ortega	8 Hrs. @ 1.595	12.76		
F. Tena	16 Hrs. @ 1.535	24.56		
J. Felix	24 Hrs. @ 1.535	36.84		
H. Cook	20 Hrs. @ 1.615	32.30		
R. Lopez	40 Hrs. @ 1.495	59.80		
Total Overlap		445.36		445.36
Total Wages Applicable to Twin Buttes Project				$ 2,056.15

AFFIDAVIT

STATE OF OKLAHOMA)
) SS
COUNTY OF OKLAHOMA)

W. H. HARDY, of lawful age, being duly sworn, deposes and says:

THAT he is the Secretary and Treasurer of the Banner Mining Company, a Nevada Corporation, and that he has been serving in that capacity for fifteen (15) years; that he is personally acquainted with the books and records of said Company and supervises the bookkeeping department of said Company; that he knows of his own personal knowledge that all bills of the Banner Mining Company for work done and materials purchased to and inclusive of January 31, 1952, under D. M. A. Contract Number I-244-33, D. M. A. Docket 269-X-2 pertaining to the Twin Buttes Property South of Tucson, Arizona, are fully paid.

FURTHER Affiant sayeth not.

DATED this 19th day of February, 1952.

W. H. Hardy

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	2,056.15	3,135.10	5,191.25	2,056.15	3,135.10	5,191.25
5. Supervision	501.33	1,431.97	1,933.30	501.33	1,431.97	1,933.30
6. Supplies						
(a) Timber	4.96	613.04	618.00	4.96	613.04	618.00
(b) Explosives						
(c) Repair Parts						
(d) Other	936.35	1,704.68	2,641.03	936.35	1,704.68	2,641.03
7. Power	183.00	1,830.00	2,013.00	183.00	1,830.00	2,013.00
8. Transportation	2.26	258.55	260.81	2.26	258.55	260.81
9. Insurance						
(a) ~~Fire~~ Unemploy. ins.	51.14	91.33	142.47	51.14	91.33	142.47
(b) Public Liability						
(c) Workmen's Compensation	255.75	456.71	712.46	255.75	456.71	712.46
Social Security	38.36	58.28	96.64	38.36	58.28	96.64
10. Contract Work						
11. Other (specify)						
Pick-Up Gas, Oil & Repairs	57.48	39.83	97.31	57.48	39.83	97.31
Total	4,451.10	12,674.57	17,125.67	4,451.10	12,674.57	17,125.67
Deletions						
Adjusted totals						
Totals previously reported				12,674.57		
Totals to date				17,125.67		

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by

Entered by

Approved by Lincoln A. Stewart WRS WLD WHK

Amount approved for payment $2225.55

Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF January, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	2,557.48	364.32	941.31	587.99	4,451.10					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	2,557.48	364.32	941.31	587.99	4,451.10					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

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

224 New Customhouse
Denver 2, Colorado

March 24, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Twin Buttes Project, Operator's Supplemental Progress Report for December, 1951

Enclosed are the Operator's Supplemental Monthly Progress Report Form MF-104, Operator's Narrative Report and Inspecting Engineer's Narrative Report and other supporting data for the month of December, 1951, pertaining to DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

J. H. East, Jr.

J. H. East, Jr.

Enclosure

MF-104
(August 1951)

C
O
PY

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50 % Amount, $ 67,894.50
Distribution of Expenditures for Month of December, 1951 (Reclaim of Wages Disallowed)

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /s/ A. B. Bowman
(Signature of Authorized Official)

March 7, 1952
(Date)

Manager
(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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Fixtures						
2. Operating Equipment:						
(*a*) Purchased[1]						
(*b*) Rented[2]						
(*c*) Furnished by operator						
3. Rehabilitation and Repairs:						
(*a*) Facilities						
(*b*) Buildings						
(*c*) Installations						

224 New Customhouse
Denver 2, Colorado

March 28, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Pima County, Arizona

Enclosed are the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report and Inspecting Engineer's Narrative Report, and other supporting data for the month of February, 1952, pertaining to DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company.

W. H. King

W. H. King, for
J. H. East, Jr.

Enclosures

ld

cc: Contract, chron.
Koschmann
Storms, w/1 copy of MF-104.

Schedule DMA 52-36

Mar 27, 1952

$2891.80

NLD
3/28/52

Mining Division
Region IV

March 21, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 269X-B, Contract I-DMA-E33, Banner Mining Company, Pima County, Arizona - Operator's Monthly Progress Report for the period of February, 1952 TWIN BUTTES

Enclosed are the original and three copies of Form MF-104, Narrative Report, and Engineer's Report for the above period.

Work accomplished is in accordance with the contract and payment is recommended for the amount of $2,891.80, which is 50 percent of the total of $5,783.60.

An amendment is in process that will amend the amendment dated February 16, 1952, and will allow the following additional men on the labor schedule: 3 miners, 3 helpers, and 1 hoistman. The effective date of the new amendment will be retroactive to December 21, 1951. This will allow the labor classifications as shown on the payroll sheets.

W. H. KING

W. H. King

Enclosures

WLD:oc

cc: Secretary to the Oper. Committee
WRsterms
AHKoschmann
DMA Contract, Chron.

Mining Division
Date Rec'd.
MAR 17 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

March 14, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : February 1952 Progress Report, DMA Docket 269X B, Contract I-DMA-233, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quadruplicate are the following for the above contract:

(1) Bureau of Mines engineer's report;
(2) Operator's progress report;
(3) Form MF-104.

Also enclosed are 2 extra copies of our engineer's report.

I recommend that 50 percent of the costs as shown be paid to the operator.

Walter R. Storms

Walter R. Storms

CC W. H. King (5)
DMA-269XB
DF

WRStorms:frj

MINING DIVISION
REGION IV

March 14, 1952

Memorandum

To : Walter L. Storms, Chief, Arizona-New Mexico Branch

From : Lincoln A. Stewart, Mining Engineer, Arizona-New Mexico Br.

Subject : Monthly progress report for February 1952, Manner Mining Co's. Twin Buttes copper project, Docket No. 269X-B, Contract I-Bri-133, Pima County, Ariz.

On March 7, accompanied by Mr. T. Griswold, I visited the subject project to check progress. In company with Allen Bowman we went down the Copper Glance shaft to the 525-foot level, which is the present water level.

Progress for the month has been confined to unwatering and rehabilitating the shaft.

Analysis of Entries on Form BF-104

Item 2 a. Detailed items of monthly depreciation according to contract.

Item 4. Labor. See discussion at end of this report.

Item 5. Contract salaries, - superintendent, foreman and bookkeeper.

Item 6(a) Timber for shaft rehabilitation.

(d) The warehouse list of withdrawals was inspected. There are numerous items, including pump repair parts, 3-inch pipe, mine rail, steel plate, log chain, etc., all applicable under the contract.

Item 7.	Power charge, total	$455.34
	Less 20%	91.07
		364.27
	Plus tax	4.55
	Total	368.82

Item 8. Freight charges on pipe fittings and rail bender.

cc W. W. King (5)
269X-B
DF

~~xxxxxxxxxxxx~~
LAStewart:frj

Item 9. Payroll taxes in order.

Item 11. Gas, oil, and 3 tire repairs for contract pickup.

Discussion of payrolls

According to request in King's memo of February 20, the operator has submitted "plus overlap breakdown" for January 27-31. This now becomes a "less overlap". It will be noted that there is included therein a mechanic helper, 1st class at $1.495, a miner at $1.495, and hoistmen at $1.495 and $1.535, the latter being night differential rate. These classifications are not shown in the original contract exhibit D.

The amended labor schedule, effective Dec. 21, 1951 gives classification of miner, hoistman and semi skilled shopman which is closely akin to mechanic helper, 1st class. The full amended rate was not granted until the period starting February 10. The reason for this was explained by Bowman as follows: when the adjacent Eagle Picher Mining & Smelting Co. started negotiations in October 1951 with their union for increased wages, Banner had to follow suit. The Wage Stabalization Board granted permission for increased wages to Banner about the first of February, so the new rates were applied to the next pay period.

The above discussion likewise applies to the payroll sheet of January 27-February 9.

The Tucson office has not yet received copy of the January voucher but Bowman states that Banner has received payment for January with no deductions. Inasmuch as Denver has accepted the above classifications and wage rates for January, it is assumed that the payroll for January 27 through February 9 is in order by virtue of precedent. The shaft leadman is shown at $1.695 but contract calls for $1.675. This is the classification that is subject of Denver's memo of February 18, audit difference dated January 22, and Bowman's reclaim letter of March 7.

The time sheets of pay period February 10-23 have been checked against the amended labor rates and classifications and are ok except for the following:

One item of mechanic helper, 1st class. It will be noted that Stevens is not a full time project employee, but is taken from the Banner production operation as required. Bowman states that Stevens is being trained to become a semi-skilled shopman, but has not yet reached the degree of efficiency to be classified at a higher rate.

There is also the item of watchman who was installed at the project February 16. Amended labor contract specifies $6.64 per day. I have discussed this with Bowman, who states that he was able to secure an old man who is happy to get $5.00 per day and time and one-half in excess of 40 hours per week. He works 7 days per week. The $90.00 represents 18 days regular time and 4 days overtime pay. This is a saving to the company (and government) of $10.24 for the period. Bowman asked that we clarify this point for him for future reference; "When possible, can he employ a capable man for less than contract wages, thus saving money for the project?" Will Denver please answer this question for the benefit of future checking of this and all other projects?

Payroll "plus overlap" of Feb. 24-29 is according to amended contract except for the mechanic's helper, 1st class that is discussed elsewhere.

The report submitted by Manner is according to contract except for the following points: The questionable classification of mechanic's helper, 1st class and under-contract wage rate for period of February 1-10. These exceptions appear to have been approved by Denver in January; the other point is the payment of a watchman at a rate lower than contract.

The writer is approving the report subject to final decision by the Denver legal department relative to the watchman's salary.

The usual affidavit relative to payment of February bills will be sent to Denver from the company's head office.

Lincoln A. Stewart

Lincoln A. Stewart

March 7, 1952

Defense Minerals Administration
224 New Custom House Building,
Denver 2,
Colorado.

Re:- D.M.A. Contract Number I-DMA-E-33, Docket Number 269-X-B pertaining to the Twin Buttes Property south of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of February 1952.

(1) Pumping was continued during the full month. Shaft timbers and ladders were repaired and re-blocked as the water was lowered. New guides had to be installed. Water and air pipe lines were also extended as the water lowered. On February 29th, the water level stood at 511.5 feet below the collar of the shaft.

We have experienced considerable difficulty with the acid water in this mine. Pipe fittings on the discharge end of the pumps have to be replaced sometimes as often as every forty eight hours.

A pump casing on the station pump on the four hundred level had to be replaced because parts of it were eaten away by the acid water.

(2) On account of the acid water condition at this mine, water for cooling the compressor has to be hauled in from the Mineral Hill camp.

(3) During the time the 400 level station pump was down for repairs a pump owned by Banner Mining Company was installed to keep the pumping in progress at no charge to the project.

The power bill was considerably higher this month due to the steady pumping.

Where ever we find any pipe and rail, etc. that has been under this water for some time we notice that it has changed completely to copper. I have found a few pieces of 3" pipe that have been completely changed to copper and are in a good state of preservation.

The above is intended as a narrative report on progress and work done during the month of February 1952.

Respectfully submitted,
Banner Mining Company

By A. L. Bowman
A. L. Bowman, Manager

AB:fmb

Banner Mining Company

Payroll Reconciliation

Twin Buttes DMA Project

February 1952

Total Payroll Period 1/27/52 to 2/9/52 Inclusive			$ 1,394.15
Less Overlap: 1/27/52 to 1/31/52 Inclusive			
M. Ybarra	40 Hours @ 1.595	$ 63.80	
A. Nanez	40 Hours @ 1.405	56.20	
A. Mendez	40 Hours @ 1.695	67.80	
P. Stevens	20 Hours @ 1.495	29.90	
J. Moreno	40 Hours @ 1.535	61.40	
R. Ortega	8 Hours @ 1.595	12.76	
F. Tena	16 Hours @ 1.535	24.56	
J. Felix	24 Hours @ 1.535	36.84	
R. Cook	20 Hours @ 1.615	32.30	
R. Lopez	40 Hours @ 1.495	59.80	
Total		$ 445.36	445.36
Net Payroll Period 1/27/52 to 2/9/52 Inclusive			$ 948.79
Payroll Period 2/10/52 to 2/23/52			1,696.28
Plus Overlap: 2/24/52 to 2/29/52 Inclusive			
M. Ybarra	3 Hours @ 1.80	$ 5.40	
M. Ybarra	53½ Hours @ 1.84	98.44	
A. Nanez	40 Hours @ 1.525	61.00	
P. Stevens	27½ Hours @ 1.65	45.38	
J. Martinez	8 Hours @ 1.735	13.88	
J. Moreno	43 Hours @ 1.695	72.89	
J. Felix	41½ Hours @ 1.735	72.00	
J. Felix	3 Hours @ 1.695	5.09	
M. Coronado	3 Hours @ 1.80	5.40	
M. Coronado	53½ Hours @ 1.84	98.44	
R. Lopez	40 Hours @ 1.695	67.80	
D. Sprague	36 Hours @ 1.76	63.36	
Total		$ 609.08	609.08
Total Payroll Applicable to Project			$ 3,254.15

The above figures do not include salaried employees. Amounts of salaries are stipulated in the contract.

COPY

LOCATION Tucson, Arizona DEPT. Twin Buttes ECA Project

PERIOD COVERED: FROM January 27, 1952 TO February 9, 1952 Inclusive

TIME BOOK AND PAYROLL

PAGE NO. _____

VOU. NO. _____

SEMCO 1-47—3000

BANNER--FORM 100

	No.	NAME		27	28	29	30	31	1	2	3	4	5	6	7	8	9	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITALIZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT	W Tax				TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
Shaftman	1	Mike V. Ybarra	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	128	1.595		204.16		3.06						15.40				18.46	185.70		
Helper	2	Arnulfo B. Ramez	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	128	1.405		179.84		2.70						8.40				11.10	168.74		
Shop Lineman	5	Alfredo B. Mendez	Overtime—	8	8	8	8	8	12	12	8	8	8	8	4		12	112	1.695		189.84		2.85										2.85	186.99		
Master Mechanic Helper	6	Phillip F. Stevens Jr.	Overtime—			4	9	8	12	8½		2	2		2		3	49½	1.495		73.63		1.10										1.10	72.53		
Helper	9	Jesus Valenzuela Moreno	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	126	1.535		196.48		2.95						14.00				16.95	179.53		
Shaftman	14	Refael G. Ortega	Overtime—	8														8	1.595		12.76		.19										.19	12.57		
Hoistman	15	Felix O. Tena	Overtime—				8	8										16	1.535		24.56		.37										.37	24.19		
Hoistman	18	Jesus Mazarraga Felix	Overtime—	8	8	8			12	12	8	8	8	8	8	12	12	112	1.535		171.92		2.58										2.58	169.34		
Helper	19	Gerardo Galvez	Overtime—												4	8		12	1.365		16.38		.25										.25	16.13		
Mechanic	21	Roy F. Cook	Overtime—		8	8	4		4									24	1.615		38.76		.58										.58	38.18		
Hoistman	23	Robert Martinez Lopez	Overtime—	8	8	8	8	8	12	12	8	8	8	8	8	12	12	128	1.495		191.36		2.87						12.40				15.27	176.09		
Semi Sk Shipman	24	Antonio Ramonet	Overtime—							8								8	1.495		11.96		.18										.18	11.78		
Watchman	25	Gregory Smitz	Overtime—	Period 2/1/52 to 2/15/52 Inclusive																	82.50		1.24						11.00				12.24	70.26		
			Overtime—																		1,394.15		20.92						61.20				82.12	1,312.03		
			Overtime—																																	
Supt.		A. B. Bowman	Overtime—	Period 2/1/52 to 2/15/52 Inc. 1/2 of his time.																	180.50		2.71										2.71	177.79		
Foreman		B. B. Bray	Overtime—	Period 2/1/52 to 2/15/52 Inc. 1/2 of his time.																	127.50		1.91										1.91	125.59		
Bookkeeper		F. M. Bowman	Overtime—	Period 2/1/52 to 2/15/52 Inc. 1/6 of his time.																	32.91		.49										.49	32.42		
			Overtime—																		340.91		5.11										5.11	335.80		
			Overtime—																																	
			Overtime—																																	
			Overtime—																																	
			Overtime—																																	
			Overtime—																																	

BANNER MINING COMPANY

LOCATION Superior, Arizona DEPT. Twin Buttes SLA Project

PERIOD COVERED: FROM February 19, 1952 TO February 25, 1952 Inclusive

TIME BOOK AND PAYROLL

PAGE NO. _____

VOU. NO. _____

SEMCO 1-47—3000

BANNER—FORM 100

	No.	NAME		10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL HOURS	RATE	AMOUNT	TOTAL AMOUNT DUE	STATE UN-INS.	F. O. A. B.	HOSPITALIZATION	ADVANCES	BOARD	OTHER DEDUCTIONS ITEM	AMOUNT	C Tax				TOTAL	NET AMOUNT DUE	CHECK No.	RECEIVED PAYMENT
Shiftman		Mike V. Sharra	Overtime	8	8	8	8	8	12	12	8	8	8	8	8	12	12	120	1.20		239.40		3.15						19.40				22.55	217.85		
Helper		Arnulfo V. Flores	Overtime	8	8	8	8	8	12	12	8	8	8	8	8	12	12	120	1.135		136.20		2.03						15.20				16.13	120.07		
Shiftman Mechanic Helper 1st Class		Alfredo R. Nuñez	Overtime	8	8	8	8	8	12	12	x	8	8	8				84	1.90		160.20		2.40						12.20				14.61	145.24		
		Phillip D. Stevens Jr.	Overtime		4		8	8	8	6		4	8		6		3	57	1.60		90.75		1.36						17.00				18.36	72.39		
Miner		Jesus Valenzuela Moreno	Overtime	8	8	8	8	8	12	12		8	8	8	8	8	12	116	1.735		201.26		3.02						15.40				18.42	182.84		
Hoistman		Felix O. Pena	Overtime									8	8	8				24	1.775		42.60		.64						11.90				12.54	30.06		
Hoistman		Jesus Zizaraga Felix	Overtime	8	8	8	8	8	12	12	8	8	8	8	11	12	12	132	1.695		223.05		3.33						14.20				17.53	205.52		
Hoistman		Robert Martinez Lopez	Overtime	8	8	8	8	8	12	12	x	8	8	8	8	8	12	116	1.735		201.26		3.02						13.20				16.22	185.04		
Hoistman Sub Sfty Shipman		Antonio Samonet	Overtime														8	8	1.595		12.76		.20										.20	12.36		
Watchman		Gregory Cruz	Overtime	Period 2-16-52 to 2-29-52 Incl -																	26.00		1.14						13.40				14.54	11.46		
Shiftman		Jose Crescido Campuzano	Overtime									8	8	8			12	24	1.55	12.16	67.20		1.01						21.30				22.31	44.89		
Mechanic		Bruno L. Saragno	Overtime					4	8	12				4			8	36	1.76		63.36		.95										.95	62.41		
Shiftman		Mike Coronado	Overtime	x							x	8	8	8	8	8	12	52	1.84		95.68		1.44						10.20				11.64	84.04		
			Overtime																		1,682.20		25.24						161.40				186.64	1,495.56		
			Overtime																																	
Supt.		A. D. Bowman	Overtime	Period 2/16/52 to 2/29/52 Inc. 1/2 of his time.																	180.50		2.71										2.71	177.79		
Foreman		L. L. Gray	Overtime	Period 2/16/52 to 2/29/52 Inc. 1/2 of his time.																	127.50		1.91										1.91	125.59		
Bookkeeper		P. H. Bowman	Overtime	Period 2/16/52 to 2/29/52 Inc. 1/6 of his time.																	32.92		.49										.49	32.43		
			Overtime																		340.92		5.11										5.11	335.81		
		TWIN BUTTES SLA PROJECT PAID	Overtime																								TWIN BUTTES SLA PROJECT PAID									
		Roy E. Cook	Overtime					8										8	1.75		14.00		.21										.21	13.79	1324	PAID
			Overtime																																	
			Overtime																																	
			Overtime																																	

Note: The hours circled in red denote evening shift. The rate is four cents an hour more than the day shift rate.
The hours circled in Blue denotes graveyard shift. The rate is Eight cents an hour more than the day shift rate.

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3] *	141.98			141.98		
5. Supervision						
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other						
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation						
10. Contract Work						
11. Other (specify)						
Total	141.98			141.98		
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by /s/ Lincoln A. Stewart WRS WLS WHK
Amount approved for payment $70.99
Remarks

16—64063-3

* See attached letter explaining reclaim of disallowed wages paid to Alfred R. Mendez for the period December 16, 1951 through December 31, 1951.

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF December, 1951

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	141.98									
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	141.98									

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $ 135,789.00
Government Participation: 50% % Amount, $ 67,894.50
Distribution of Expenditures for Month of December, 1951

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /S/ A. B. Bowman
(Signature of Authorized Official)

January 8, 1952
(Date)

Superintendent
(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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	---	2,534.70	2,534.70	---	2,534.70	2,534.70
(b) Rented[2]						
(c) Furnished by operator	346.32	174.06	520.38	346.32	174.06	520.38
Compressor 225.00						
Hoist & Motor 41.66						
3/4 Ton Pick-up 41.66						
D.T. Truck 19Hrs.38.00						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

Sched 1 Mining Division 25
Date Rec'd.
FEB 15 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

February 11, 1952

REGISTERED

Memorandum

To : W. H. King, Acting Chief, Mining Div., Denver, Colo.

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : January 1952 Progress Report, Contract I-DMA-E33, DMA Docket 269X B, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quadruplicate are the following:

(1) Bureau of Mines engineer's progress report;
(2) Company's progress report;
(3) Form MF-104.

Also enclosed are 2 extra copies of our engineer's report.

An affidavit will be sent you from the company's Oklahoma City office, certifying that all January accounts have been paid.

It is recommended that the Government's shafe of the January expenditures be paid as all accounts seem to be in order.

Walter R. Storms
Walter R. Storms

CC: W. H. King (5)
DMA-269X B
DF

WRStorms:als

MINING DIVISION
REGION IV

February 11, 1952

Memorandum

To : Walter R. Storms, Tucson, Arizona

From : Lincoln A. Stewart, Tucson, Arizona

Subject : Monthly progress report for January 1952. Banner Mining Co., Twin Buttes Project, Docket No. 269X-B, Pima County, Ariz. Contract No. Idm-233

WORK REPORT

On February 8, accompany by Wm. Griswold, I visited the subject project to check progress. In company with Allan Bowman, we inspected the surface installations and went down the vertical shaft to water level at 450 feet. At start of pumping water stood 5 feet below the 400-foot level.

Detailed progress as reported by Bowman, was checked and found correct.

ANALYSIS OF ENTRIES ON FORM MF-104

2 (c) Indicated monthly depreciation according to contract.

4 Discussion of labor charges under Mineral Hill project applies here.

5 Supervisory charges in order. Applicant's narrative report indicates reason for no charge of ½ superintendent and no engineer.

6 (a) Blocking used in shaft.

(d) The warehouse list of withdrawals was inspected. Items cover several pages and range from a 3 cent screw to a $58 piece of 3-inch hose.

7 Power charge, minimum $225 less 20 percent, or $180, plus December tax (partial month) of $0.75 not charged last month, plus January tax of $2.25.

CC W. H. King (5)
269X-B
DF

LAStewart:frj

8. Represents freight charge on a shipment of electric wire.

9. Payroll taxes in order.

11. Gas, oil and tire repairs on contract pickup $45.49
Recap one tire 11.99
$57.48

No items of major value that require identification were bought with Government participation.

It is to be noted, however, that the company is furnishing some major equipment at its own expense, such as armored cable, transformer, magnetic line starter and switch. I suggested to Mr. Bowman that he detail identification of these items so that they would not be claimed as participation items by Government inspectors at some future date.

To date this office has not received the Audit Difference Statement relative to the recission of $143.66. However, Mr. Bowman has explained this in his report. I discussed this with him and his claim for reinstatement seems just.

As all items in the account appear to be covered by the contract, the writer is approving this report.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
Arizona-New Mexico Branch
Mining Division, Region IV

February 3, 1952

Defense Minerals Administration
224 New Customhouse Building,
Denver 2, Colorado

Re:- D. M. A. Contract Number I-DMA-E-33, DMA Docket Number 269-X-H pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

Below is a list of work completed under the Twin Buttes DMA Project during the month of January 1952.

(1) A gear cover guard was fabricated for the Glance Hoist.

(2) Installation of the 800 Cubic Foot Y Type Chicago Pneumatic Compressor was completed and the Compressor put in operation.

(3) A 1/0-3 conductor 500 volt Armored Cable, owned by Banner Mining Company was installed from the switch house at the substation over to the Glance Shaft and down the shaft to the pump station on the 400 level of this Mine.

(4) Wiring the switchboard and electric lines to the station pump and shaft pump were installed and both 50 H.P. Ingersoll-Rand Motor pumps were put in operation.

(5) A 5 KVA 440/220/110 Volt G.E. Transformer, 1 Westinghouse 220/440 Volt, 25/60 Cycle, Type DH Magnetic Line Starter, and a G.E. CR-7006-D31 No. 355-2800-04 Magnetic Switch, all owned 100% by Banner Mining Company, were installed on the switch board on the 400 level.

(6) 3" Pipe and Discharge hose lines were installed from the sump on the 400 level and connected with the lines in the shaft. Pumping operations were commenced and the water was lowered from a depth of 405 feet to 440 feet by February 1, 1952. Additional 3" pump lines were added as the pumping progressed and the water level lowered. Timbers were re-blocked, replaced, or renailed as required as we go down with the water.

We are experiencing considerable trouble with the acid mine water. In some cases pipe nipples have to be changed as often as once every two days.

February 3, 1952

At the beginning of pumping operations, we encountered a concentration of carbon Monoxide gas at water level which was strong enough to snuff out a carbide lamp.

Attention is called to the fact that the Engineer, Mr. Venable, did not work on the project during January. His salary, therefore, was not charged against the project. A. B. Bowman, the superintendent, was away from the project for 1[illegible] days during the month. Therefore his salary for the last half of January was not charged against the project.

With regard to the $ 143.[illegible] deducted from the December report by the Audit Section the following facts are pertinent:- The hourly rate for Shaft Lead Men as specified in the contract is $ 1.675 or $13.40 per eight hour shift. This $ 1.675 rate is in error and should have been $ 1.695. However, we will stand on the $ 1.675 rate as specified in the contract.

The man in question is Alfred Mendez who is a shaft leadman. He was paid for 52 hours at the $ 1.695 rate and 32 hours on evening shift at the $ 1.715 rate. We are therefore claiming :

52 Hours at $ 1.675	$ 87.10
32 Hours at $ 1.715	54.88
Total	$141.98

We feel that this sum of $ 141.98 should be re-instated in the January 1952 report. However, I have not added this amount to the report as I felt you would want to check same before the item could be re-instated.

The above is intended as a narrative description of progress and work done during the month of January 1952.

Yours very truly,

Banner Mining Company

By A. B. Bowman

A. B. Bowman,
Superintendent

AB:fmb

Sched ama 52-18

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: January 22, 1952
Payee's
Reference: Progress Report
December 1951

Banner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount claimed $ 4,367.20

Difference $ - 143.66 a-mendex 16 - 29 + 1 day (Dec 30)

Amount Approved $ 4,223.54

The reason for the difference was due to:

Above amount disallowed inasmuch as we have no basis for determining the dates on which night differential was paid and the dates on which the rate of $1.695 applies. It is suggested that this amount be reclaimed on the basis of $1.595 per hour allowed in the contract, showing dates on which night differential is applicable, up to and including December 20, 1951 and on the basis of rates shown in amendment dated December 21, 1951.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV - B&F Form No. 4
5-1-51 - 1M

MINING DIVISION
REGION IV

January 14, 1951

Memorandum

To : Wm. H. King, Acting Chief, Mining Div., Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject: December 1951 Progress Report, DMA Docket 269X-B Contract I-DMA-E33, Twin Buttes Copper Mines, Banner Mining Co., Pima Mining District, Pima County, Ariz.

Enclosed in quadruplicate are the following:

(1) Bureau of Mines engineer's progress report;

(2) Company's progress report;

(3) Form DF-104

Also enclosed are 2 extra copies of the Bureau engineer's report.

As this account seems to be in order, I recommend that it be paid.

Walter R. Storms

CC W. H. King (5)
DMA 269X-B
DF

WRStorms:frj

MINING DIVISION
REGION IV

January 14, 1952

Memorandum

To : Walter R. Storms, Tucson, Arizona

From : Lincoln A. Stewart, Tucson, Arizona

Subject : Monthly progress report for December 1951. Banner Minining Co., Twin Buttes project, Docket No. 269X-B, Pima County, Ariz. Contract No. IDM-E33

On January 8, I visited the Twin Buttes property of the above company to check progress. In company with Allan Bowman, the superintendent, I inspected the surface installations and went down the vertical shaft to the 400-foot level. Water stands a few feet below this level.

WORK REPORT

The Glance shaft has been rehabilitated to the 400-ft. level. The applicant's narrative report itemizes the various jobs accomplished at this project.

ANALYSIS OF ENTRIES ON FORM MF-104

Item 2 (c) Indicated monthly depreciation according to contract.

4. Labor cost, substantiated by attached payroll.

5. Supervision, as indicated on payroll. Note that the engineer did no work here and was not charged.

6 (a) Used in rehabilitation of Glance shaft.

(d) This includes a large number of miscellaneous items as pipe and pipe fittings, bolts and nuts, electric wiring and supplies, etc., charged out only as used.

7. The substation was completed during the month. Power was available for only 10 days of the month so the power bill is the minimum of $225 divided by 3 or $75, less 20 percent rebate to apply against advance funds.

CC W. H. King (5)
269X-B
DF

WRStorms:frj

8. Broken down into postage $0.52, freight $2.59, and freight on compressor $108.37. The latter charge is discussed in detail below.

9. Payroll taxes, based on gross payroll.

11. Service and fuel items for contract pickup, receipts of which were available.

According to the request contained in J. H. East's memo of Dec. 18, 1951, the Banner Co. has forwarded to Denver an affidavit dated December 21 stating that all bills have been paid up to and including Nov. 30, 1951. Some time in January a similar affidavit will be prepared covering expenditures for the month of December, and will be submitted to Denver.

Under heading 8, the item of freight on a compressor from Lordsburg needs some explanation. The original contract authorized purchase of a 500 cfm compressor at an estimated cost of $9,000. On September 27 Mr. Bowman called at the Tucson office and stated that replies to inquiries addressed to the Joy and Worthington companies indicated that such a compressor would not be available for purchase for at least 6 to 8 months.

It was then decided to request a contract amendment to use a compressor that was set up as a spare at their Lordsburg operation. The amendment authorizing use of this compressor at a monthly depreciation charge of $225 was made. The compressor was shipped to Twin Buttes at a freighting cost of $108.37. Had the compressor been rented from an equipment company, delivery would have been taken from the storage warehouse and freight charges to the project would have been to the account of the Banner Co. The writer agrees with Bowman that this freight charge is a legitimate cost to the project.

The major equipment bought to date on this project subject to 50 percent participation by the Government is as follows:

1,100 feet hoist cable for Glance shaft, bought in November 1951, Roebling 3/4-inch, 6x19, regular lay, blue center. Cost $316.80

One electric pump, bought in November 1951. Ingersoll Rand Pump, Model A, serial 09515853, integral with motor, General Electric 50 H.P., 2 MRV-50, serial PM 6913816, type K, code F, frame 404Y, RPM 3555, 3 phase, 220-440 volts. Cost $1,121.99

One electric pump, bought in November 1951, Ingersoll Rand, Pump, Model A, serial A 516540, integral with motor. As this pump is to be used as a sinker, a protective hood had been welded over the motor and the data on the motor nameplate could not be seen. Cost $1,095.91.

These two pumps are identical, one was bought in Salt Lake City and the other in El Paso. The difference in cost reflects the differing freight charges.

As all items of the voucher appear to be within contract specifications, the writer is approving this report.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
Arizona-New Mexico Branch
Mining Division, Region IV

MONTH[illegible] SUMMARY COST STATEMENT—C[illegible]nued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(*d*) Fixtures						
4. Labor[3]	1,488.88	1,646.22	3,135.10	1,345.22	1,646.22	2,991.44
5. Supervision, For., Bk.	681.83	750.14	1,431.97	681.83	750.14	1,431.97
6. Supplies						
(*a*) Timber	551.07	61.97	613.04	551.07	61.97	613.04
(*b*) Explosives						
(*c*) Repair Parts						
(*d*) Other	804.98	899.70	1,704.68	804.98	899.70	1,704.68
7. Power	60.00	1,770.00	1,830.00	60.00	1,770.00	1,830.00
8. Transportation	111.48	147.07	258.55	111.48	147.07	258.55
9. Insurance						
(*a*) ~~XXX~~ Unemp. Ins.	43.41	47.92	91.33	43.41	47.92	91.33
(*b*) Public Liability						
(*c*) Workmen's Compensation	217.07	239.64	456.71	217.07	239.64	456.71
Social Security	22.33	35.95	58.28	22.33	35.95	58.28
10. Contract Work						
11. Other (specify)						
Gas,Oil,Rep.*Pick-up	39.83	---	39.83	39.83	---	39.83
Total	4,367.20	8,307.37	12,674.57	4,223.54	8,307.37	12,530.91
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by Lincoln A. Stewart WRS JVT WHK JHE
Amount approved for payment
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF December 1951

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	2,170.71	346.32	1,356.05	494.12	4,367.20					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	2,170.71	346.32	1,356.05	494.12	4,367.20					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 33

Name of Operator Banner Mining Company
Docket No. DMA 269-X-B
Total Contract Amount $135,789.00
Government Participation: 50% % Amount, $67,894.50
Distribution of Expenditures for Month of November 1951

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /S/ A. B. Bowman
(Signature of Authorized Official)

December 7, 1951
(Date)

Superintendent
(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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	2,534.70	—	2,534.70	2,534.70	—	2,534.70
(b) Rented[2]						
(c) Furnished by operator	99.32	74.74	174.06	99.32	74.74	174.06
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

MINING DIVISION
REGION IV

December 14, 1951

Register

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Dr., Mining Div., Region IV

Subject : November 1951 Progress Report, DMA Docket 269X B, Contract I-DMA-433, Banner Mining Co's. Twin Buttes Copper Mines, Pima County, Ariz.

Enclosed in quadruplicate are the following for the above contract:

(1) Form MF-104
(2) Company's progress report
(3) Bureau of Mines progress report.

Also enclosed are 2 extra copies of our engineer's progress report.

As reported by Griswold, all accounts are paid in Oklahoma City so we cannot check invoices here; also, the company has promised to send us its payroll sheets so these will be forwarded to you later.

These November expenditures seem to be all right so I have approved payment of them.

WRS

Walter R. Storms

CC P. T. Allsman (5)
DMA-269X
DF

WRStorms:frj

MINING DIVISION
REGION IV

December 14, 1951

Memorandum

To : Walter R. Storms, Tucson, Arizona

From : William T. Griswold, Tucson, Arizona

Subject : Monthly progress report for November 1951, Banner Mining Co's. Twin Buttes Project, Pima County, Arizona, Docket No. 269X-B, Contract No. I-DMA-E33

The Twin Buttes project of the Banner Mining Co. was visited on December 12 for the purpose of verifying the progress reported by the company for the month of November. Mr. Allen Bowman, the property manager, gave his assistance both in checking the books and in checking the work that had been accomplished.

WORK REPORT

Work at Twin Buttes in November was confined to the Glance shaft surface installations. The 75-h.p. hoist and motor were set on their foundations and grouted in. All accessory electrical equipment was installed and connections made to the Trico Electric Company's substation. Lights and electric hoist signals were installed and rehabilitation work completed in the hoist house. The 3/4-inch cable is now at the property, but is yet to be wound on the hoist drum. By Nov. 30th the compressor foundation forms were in, but pouring of concrete had not started; however, when the property was visited on Dec. 12th, the foundation was completed and a crew of men were at work placing the 800 cu. ft. C-P compressor in place.

The two 2MRV 50 pumps are at the property warehouse. These are the pumps to be installed for unwatering the Glance shaft. All major equipment items for starting the unwatering operations are on hand.

ANALYSIS OF ENTRIES ON FORM MF-104

2 A. - Operating Equipment Purchased: The total claim of $2,534.70 is attributed to the cost of wire rope for the Glance shaft ($316.80) and two 2MRV50 pumps. Both are identical I-R. pumps. However, one cost $1,095.91 and the other $1,121.99. The price

CC P. T. Allsman (orig. & 5)
269X-B
DF
WTGriswold:frj

differential resulted from unequal shipment charges. One pump was obtained from El Paso, and the other had to be sent out from Salt Lake City.

2 C. - Operating Equipment furnished by operator: Three items comprise the total cost of $99.32. A 75-h.p. hoist ($41.66) and a pickup truck ($41.66) were authorized under the original contract. The third rental item was a $16.00 charge for a Diamond T winch truck used after Nov. 20th under the authority of an amendment of that date.

4 & 5. - Labor and supervision: Mr. Bowman's attention was drawn to the new requirement of submitting a copy of Social Security forms or a copy of payroll sheets. He has agreed to send copies of their payroll sheet, because all social security forms are filed in the Oklahoma City offices.

6. - Supplies. The item of "Other Supplies" was investigated and appeared to be restricted to items necessary under the contract work. The larger cost entries were all electrical equipment and cable items necessary in bringing power from the Trice substation and in wiring up the hoist, hoist-house lights, and signal system.

7. - Power. The $5.00 charge was a transformer deposit required by the Trice Electric Co.

8. - Transportation. Transportation charges were all service and fuel items for the pick-up truck authorized for use on the project. Copies of service station receipts were available, showing the origin of all charges.

It is not possible to audit all cost figures for the Banner Company's projects since all bills are paid and all invoices kept at the home office in Oklahoma City. Such records as were available were checked and gave reasonable proof as to the accuracy and the honesty of expenses claimed by the Banner company. Therefore, it is recommended that its report be accepted.

William T. Griswold

WM. T. GRISWOLD, Mining Engineer
Arizona-New Mexico Branch

December 7, 1951

Defense Minerals Administration
220 New Customhouse,
Denver 2,
Colorado.

Re:- D.M.A. Contract Number I-DMA-33, D.M.A. Docket 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

We were given assurances by the Trico Electric Company that they would be able to give us power service early in December so we proceeded with our preparatory work at the Glance Shaft during November. It is itemized as follows:-

(1) The substation at the Glance shaft has nearly been completed. (About 95% complete). 3 - 100 K.V.A. Transformers were installed. All this work completed by Trico Electric Company.

(2) We have tied into the substation with our electric lines and same have been extended to the hoist house. Lights have been installed together with electric hoist signals at the Glance Shaft.

(3) Repair work on the Glance Hoist house has been virtually completed. New windows have been installed and the building patched up to where it is useable. A used wood stove has been installed.

(4) The 75 H.P. Hoist has been installed on its foundation and has been grouted in. The 75 H.P. Motor has been hauled from Lordsburg and installed on its foundation.

(5) The two 50 H.P. Ingersoll-Rand Motor Pumps arrived for use on the unwatering of this shaft.

(6) The excavation work has been completed and the foundation forms built for the 800 Cubic foot "Y" type compressor which is to be installed. The sand and gravel have also been hauled for this job.

(7) The 1100 foot 3/4" Hoist Cable for the Glance hoist arrived during the month.

Amounts chargeable against the project as approved by amendment to the contract of November 20, 1951 have only been charged from November 20th. to the end of the month.

Respectfully submitted,
Banner Mining Company
By A. B. Bowman
A. B. Bowman, [illegible]

ABB: fmb

MONT[redacted] SUMMARY COST STATEMENT—[redacted]nued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	582.98	1,063.24	1,646.22	582.98	1,063.24	1,646.22
5. Supervision For., Eng., Bk.	750.14	---	750.14		-----	750.14
6. Supplies						
(a) Timber	61.97	---	61.97	61.97	---	61.97
(b) Explosives						
(c) Repair Parts						
(d) Other	644.15	255.55	899.70	644.15	255.55	899.70
7. Power	5.00	1,765.00	1,770.00	5.00	1,765.00	1,770.00
8. Transportation	47.35	99.72	147.07	47.35	99.72	147.07
9. Insurance						
(a) ~~Fire~~ XX Unemp. Ins.	26.66	21.26	47.92	26.66	21.26	47.92
(b) Public Liability						
(c) Workmen's Compensation	133.31	106.33	239.64	133.31	106.33	239.64
Social Security	20.00	15.95	35.95	20.00	15.95	35.95
10. Contract Work						
11. Other (specify)						
Total	4,905.58	3,401.79	8,307.37	4,905.58	3,401.79	8,307.37
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date	4,905.58	3,401.79	8,307.37	4,905.58	3,401.79	8,307.37

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

Note.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by Walter R. Storms JVT WHK PTC
Amount approved for payment
Remarks

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF November, 1951

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	1,333.12	99.32	706.12	2,767.02	4,905.58					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1,333.12	99.32	706.12	2,767.02	4,905.58					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

MF-104
(April 1951)

Budget Bureau No. 42-R1036.1.
Approval expires 8-31-51.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Copy

OK

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts will be made from time to time.

CERTIFICATION

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.

Banner Mining Company
(Name of Company)

By /s/ A. B. Bowman
(Signature of Authorized Official)

October 5, 1951
(Date)

Superintendent
(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.

16—64068-2

MONTHLY SUMMARY COST STATEMENT

Name of operator Banner Mining Company
Project No. DMA 269-X-B
Total contract amount $135,789.00
Government participation percent 50%

Distribution of Expenditures for Month of Aug. 7 to Sept. 30, 1951 Inc.

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals to Date
Wages and salaries (gross)	1,063.24		1,063.24	996.99		996.99
Equipment purchase [1]						
Equipment rental [2]	74.74		74.74	68.74		68.74
Buildings						
Explosives						
Repair parts						
Other supplies	255.55		255.55	255.55		255.55
Power	1,765.00		1,765.00	1,765.00		1,765.00
Transportation	99.72		99.72	99.72		99.72
Withholding taxes						
Compensation insurance	106.33		106.33	106.33		106.33
Other insurance Unemployment	21.26		21.26	21.26		21.26
Contract work						
Other (specify) Social Sec.	15.95		15.95	15.95		15.95
Total	3,401.79		3,401.79	3,329.54		3,329.54
Totals previously reported						
Totals to date	3,401.79		3,401.79			

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by Lincoln A. Stewart WRS WOM PFO (?)
Amount approved for payment 3329.54
Remarks Deduct 72.25

[1] Enter total purchase price in month purchase is made.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.

16—64068-1

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: 10/18/51
Payee's
Reference: Progress Report August 7, 1951 to September 30, 1951

Danner Mining Company
2042 Conner Stravenue
Tucson, Arizona

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount claimed $ 3,401.79

Difference $ 72.25

Amount Approved $ 3,329.54

The reason for the difference was due to:

The claim of $6.00 for rental of a truck and of $66.25 for services of a bookkeeper cannot be approved without an amendment to the contract.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

R. E. Stokes
Audit Section

R-IV - B&F Form No. 4
5-1-51 - 1M

MINING DIVISION
REGION IV

October 10, 1951

Air Mail

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV, Tucson, Arizona

Subject: Monthly Progress Report for August-September 1951, DMA Docket 269X B, Contract I-DMA-E33, Banner Mining Co., Twin Buttes Copper Mines, Pima Mining District, Pima County, Ariz.

Enclosed in quadruplicate are

1. Form MF-104;

2. Company's progress report;

3. Government's progress report

for the above contract. Two extra copies of our engineer's report also are enclosed.

Walter R. Storms

CC P. T. Allsman (5)
DMA 269X B
DF

WRStorms:frj

Mining Division
Date Rec'd.
OCT 11 1951
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

October 9, 1951

Memorandum

To : Walter R. Storms, Tucson, Arizona

From : Lincoln A. Stewart, Tucson, Arizona

Subject : Monthly progress report Banner Mining Co., Docket Nos. 269X A & B, Pima County, Ariz. Contracts No. I-BMA-E32 and I-BMA-E33.

In company with Wm. Griswold I visited the Banner Mining Co. property on October 5 to check the progress of the two projects since the start of operations under Government participation.

Mineral Hill. Contract No. I-BMA-E32

The official starting date was August 7. At the inclined shaft the headframe structure is virtually completed. The inclined trackway from the shaft to the headframe is 50 percent completed. Work on the ore bins has not been started. The hoist and hoist motor have been installed but the electrical hook-up is not completed.

The 440-volt electrical power service is expected to be completed about October 15 by the Trico Electric Cooperative Co.

Within the warehouse building shelving and parts bins have been installed and two rooms have been walled off to serve as office and engineering rooms.

The steel framework has been erected for the combination machine shop and change room.

Twin Buttes. Contract No. I-BMA-E33

The official starting date was August 15. At the Copper Glance shaft, the concrete foundation for the hoist and motor has been completed but the hoist has not been set in place. The headframe has been reconditioned.

CC P. T. Allsman (5 and original)
BMA-269X
DF

LAStewart:frj

No work chargeable to Government participation has been done at the Copper Queen shaft.

Discussion of form MF-104 submitted by the company.

Mineral Hill project 269XA

Summary Cost Statement

Wages and salaries are shown as gross amounts, therefore the item of withholding taxes is not used.

Equipment purchase includes typewriter, calculator, electric saw, and 3/4 inch hoist cable for inclined shaft.

Equipment rental includes concrete mixer, hoist, and a company-owned Diamond T winch truck. The last item will be discussed later in this report.

Buildings: The main item of this charge concerns the 40 ft. by 40 ft. combination shop and change room.

Cost of the steel members f.o.b. mine	$3,730.12
Cost of material used to date	252.25
Total to date	$3,982.37

Under exhibit "B" of the contract only half this cost is chargeable against the project, or $1,991.18. The other two items are for material used as follows:

$130.00 for bins and shelving, and $170.09 for walling off office space (2 rooms), both items in warehouse building.

Other supplies represents material used or to be used in the following jobs.

Installation of inclined shaft hoist and motor
Construction of inclined shaft headframe
Rehabilitation of inclined shaft.

Power This is an advance deposit to the Trico Electrical Cooperative Co. for erection of power line in the amount of $9,700.00 plus power bill for August and September.

The last three items, pay roll taxes, are calculated as follows: of the gross pay roll, industrial insurance (compensation) plus occupational disease insurance, 10%; unemployment insurance, 2% ; social security 1½%.

Distribution of wages.

On the first 3 items it is to be noted that the man shifts x 8 multiplied by the hourly rate does not check with the total wages. This is accounted for by the fact that there is some Saturday work at time and a half. The company has divided the total hours of each category by 8 and called this the man shifts. The rate shown is the normal pay. The writer has seen the time book and does not question the final result.

Unit Cost

The only explanation needed here is the breakdown of the following 2 items carried over from Summary Cost Statement.

Supplies	Buildings	$2,291.27
	Other supplies	1,738.29
		$4,029.56
Other	Equipment purchase	$1,419.60
	Explosives	1.62
	Power	9,720.25
	Compensation insurance	337.51
	Unemployment "	67.50
	Social security	50.62
		$11,597.10

Twin Buttes project 269X-B

Summary Cost Statement

Wages and salaries Again shown as gross, in other words, include withholding taxes.

Equipment rental includes pickup truck and 3 hrs. use of company's Diamond T winch truck to be discussed later.

Other supplies represents material used in installation of hoist and repairs of headframe.

Power This is an advance deposit for erection of the power line from Mineral Hill mine to Twin Buttes mine.

Transportation consists of items of gas, oil and maintenance of pick up truck.

Payroll taxes are calculated as under the Mineral Hill report.

Distribution of wages.

See previous discussion. Also note Bowman's letter that they have not charged full pro-ratable salaries to this project during this period.

Unit Cost

"Other" is the sum of the last 5 items of the Summary Cost Statement.

Discussion of the use of the Diamond T winch truck which is ~~not included in the contract.~~

The Banner Company is using this company-owned truck to expedite the project work at less expense to the Government and themselves. It is a large 6-ton flat bed truck equipped with a power winch and an "A" frame.

They are charging a nominal $2.00 per hour rate only when used on project work. It is available when and as needed. Two trips were made to Lordsburg that took 13 and 16 hours. Each trip was a capacity load, hauling the hoist and motor, switches, 6-inch pipe. and the headframe timbers.

In comparison, the Texas Arizona Motor Freight, Inc. quotes prices of $0.60 to $1.32/hundred varying according to the gross weight shipped between Lordsburg and the dock at Tucson, where material is unloaded. To get to the mine, the material has to be reloaded and hauled a distance of 25 miles at an additional cost (hauling only) of $4.00 per hour of truck use. This is the price quoted by M. C. Hubbell, trucking contractor, and the Sierrita Mining and Ranching Co. truck service.

This Diamond T truck also was used to expedite erection of the inclined shaft headframe. The various members of the headframe were constructed on the ground and hoisted into place by the use of the hoisting equipment of the truck. This process is certainly the most economical method of erecting such a structure.

The truck also was used to lift the hoist and set it in place on the foundation.

As a matter of record the hours of use are detailed as follows:

Mineral Hill

		Hrs.
8/28)	Hauling carload of timber from the	5½
8/29)	RR siding at Sahaurita to the mine	8
9/11)	Hauling 12 tons of equipment	13
9/21)	and material from Lordsburg	16
Various.	Erection of headframe, setting of hoist, etc.	33
		75½

Twin Buttes

Moving hoist to construct new foundation	3

It is also noted that the item of bookkeeping charges has not been set forth in the contract. Apparently in the rush of working up the contract before the deadline date, this item was overlooked. It certainly is a justifiable cost in the administration of a quarter of a million dollar project, In the current monthly statement that covers more than 1½ months operation, only $66.25 is charged to each project.

The Banner Company is conducting operations in an exceptionally good and workmanlike manner at both projects. In order to expedite operations and lower costs. they have unwittingly used a piece of equipment not specifically set up in the contract and have employed a part-time bookkeeper not specified in Exhibit D of their contract.

The writer is approving the monthly report of each project subject to a decision by Denver as to the necessity of amendment to the contract for inclusion of the above two items.

Lincoln A Stewart

LINCOLN A. STEWART

XXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXXXXXXXXX

2042 Conner Stravenue
Tucson, Arizona

October 5, 1951

Defense Minerals Administration
224 New Customhouse,
Denver 2,
Colorado.

Re:- DMA Contract Number 269-X-B pertaining to the Twin Buttes Property South of Tucson, Arizona.

Gentlemen:-

This project began on August 15, 1951 as per my letter to Mr. East.

All of our work to date has been preparatory in nature and has all been accomplished at the Glance Shaft. This work is itemized below.

(1) (a) The excavation for the foundation, (b) construction of the foundation forms, (c) and pouring the concrete foundation for the 75 Horsepower Hoist and Motor has been completed.
(2) The job of bracing, strengthening, and repairing the Glance Headframe has practically been completed.

We have made a payment to the Trico Electric Cooperative Company in amount of $ 1,765.00 covering our cost of the power installation. However, the power line to Twin Buttes will not be completed for perhaps another month. This delay in obtaining power has limited us in the work we can do at Twin Buttes. For this reason we have not charged one half of the salaries of A. B. Bowman and E. E. Bray and one quarter of the Engineer's salary as per contract for the full period. Banner Mining Company is paying the portions of these salaries not charged to the project.

This letter is intended as a narrative description on progress at the Twin Buttes Property and is submitted in conjunction with your form MF-104.

Respectfully submitted,

Banner Mining Company

By A. B. Bowman
A. B. Bowman,
Superintendent

ABB:fmb

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF August 7th to September 30, 1951 Inclusive

Name of operator Banner Mining Company
Project No. DMA 269-X-B
Total contract amount $135,789.00
Government participation percent 50%

Type	Number	Man-Shifts	Rate	Total
Miners			$	$
Muckers				
~~XXXXXX~~ Helpers 1st. Class	2	12.31	1.495	148.78
Timbermen				
Pumpmen				
Hoistmen				
Surface Labor	2	8.19	1.365	92.16
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters	2	17.56	1.615	239.05
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent	1 - Part Time			270.75
Engineers	1 - Part Time			55.00
Geologists				
Bookkeeper	1 - Part Time			66.25
Foreman	1 - Part Time			191.25
Clerks				
Stenographers				
Other				
Total				$1,063.24

Note.—Show only that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by Lincoln A. Stewart WRS WDM
Remarks
Less Bookkeeper

16—64068-1

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF August 7th to September 30, 1951 Inc.

Name of operator Banner Mining Company
Project No. DMA 269-X-B
Total contract amount $135,789.00
Government participation, percent 50%

Item	Costs					Progress				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract
Drifting										
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	1,063.24	74.74	255.55	2,008.26	3,401.79					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1,063.24	74.74	255.55	2,008.26	3,401.79					

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.

16—64068-1 U. S. GOVERNMENT PRINTING OFFICE

FOR GOVERNMENT USE ONLY

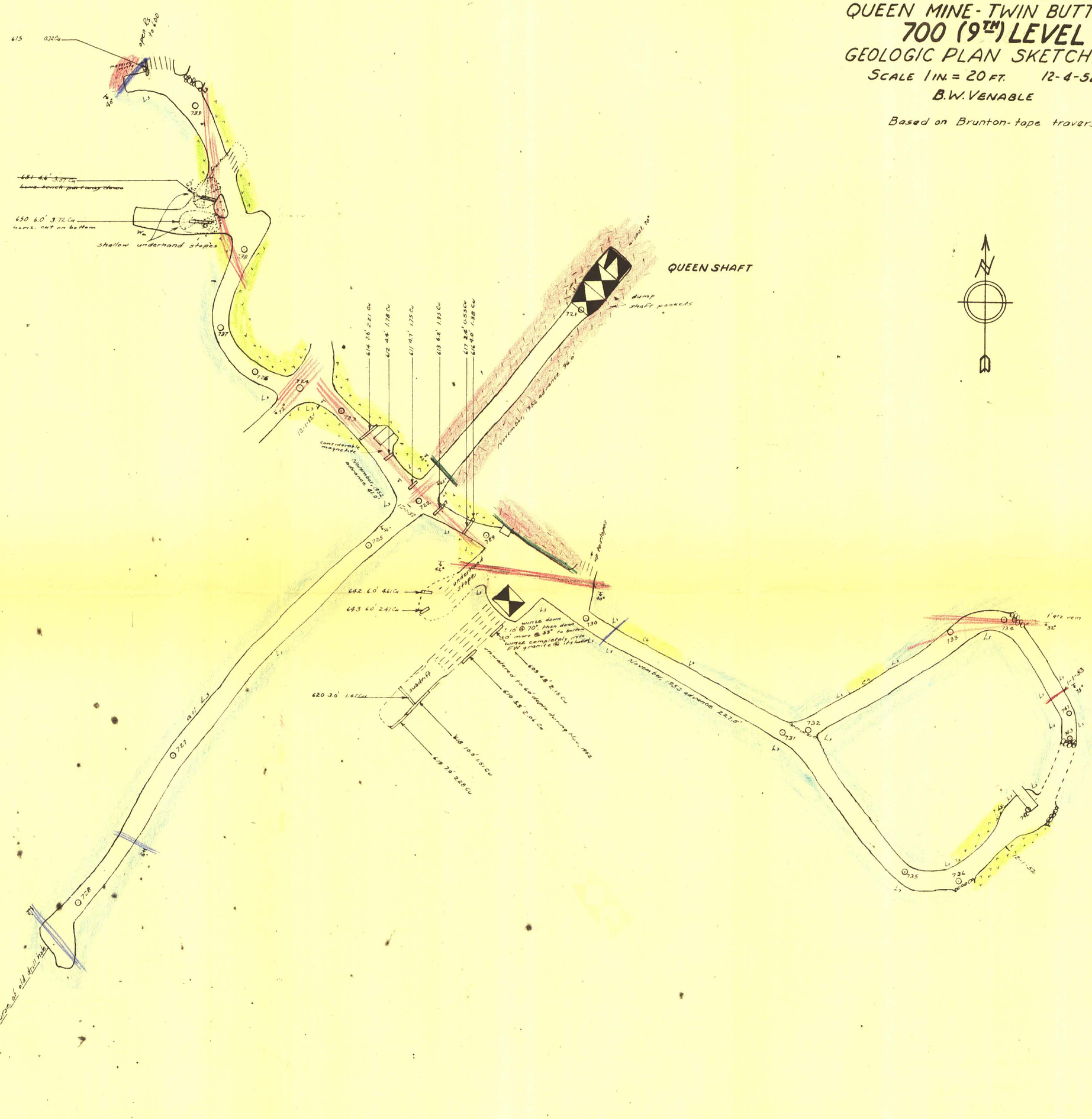
Checked by
Entered by
Approved by Lincoln A. Stewart WRS WDM
Remarks Less $72.25

BANNER MINING CO.
QUEEN MINE - TWIN BUTTES, ARIZ.
700 (9TH) LEVEL
GEOLOGIC PLAN SKETCH MAP

SCALE 1 IN. = 20 FT. 12-4-52

B.W. VENABLE

Based on Brunton-tape traverse control.

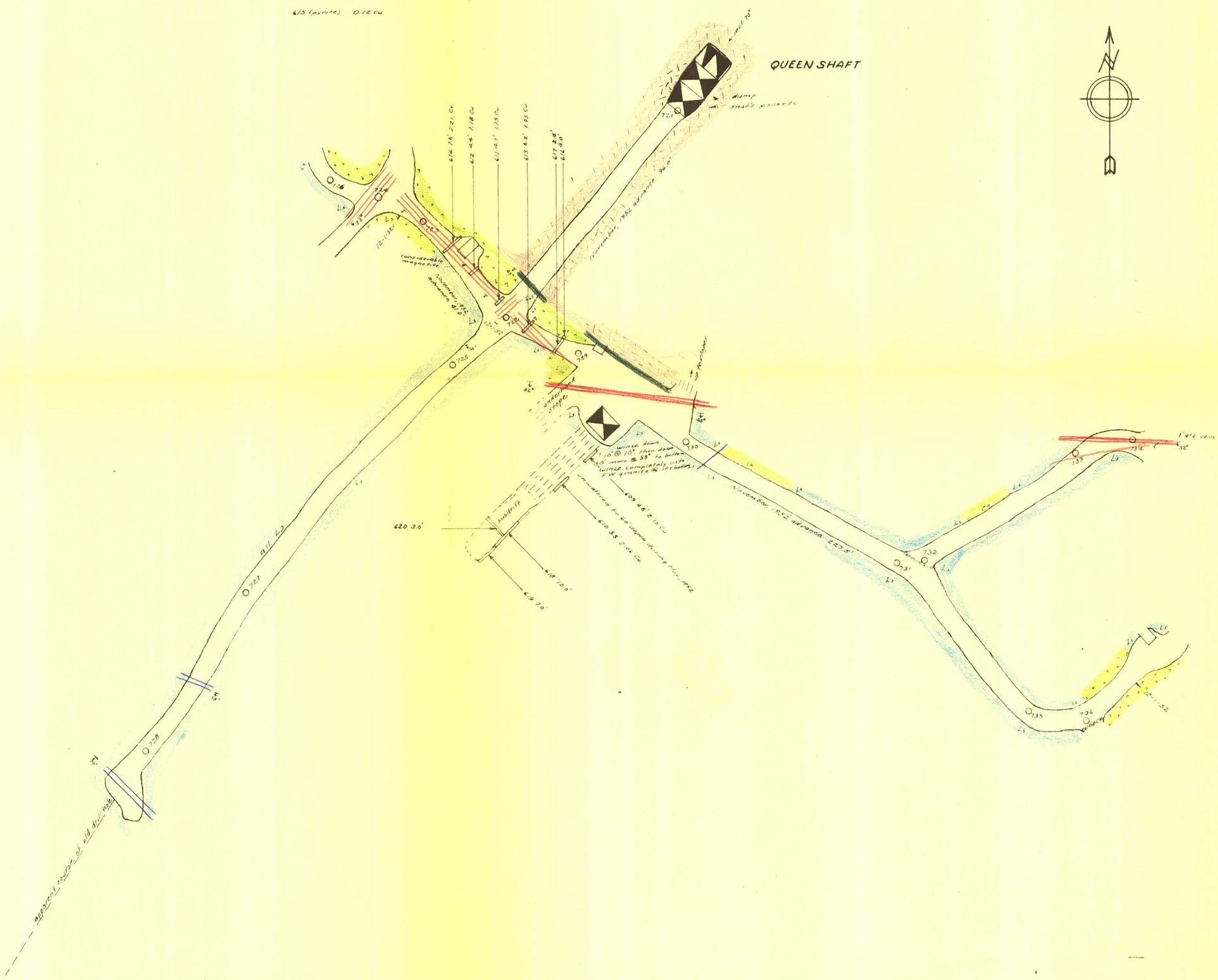


BANNER MINING CO.
QUEEN MINE - TWIN BUTTES, ARIZ.

700 (9TH) LEVEL

GEOLOGIC PLAN SKETCH MAP

SCALE 1 IN. = 20 FT. 12-4-52

B.W. VENABLE

Based on Brunton-tape traverse control.