IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 203

March 1, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 4 1968

| INITIALS | CODE |
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Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of MME Form 60 (Operator's Monthly Report), MME Form 61 (Operator's Progress Report) and Narrative with supporting documents for October, November, December, 1967 on the subject contract.

Also attached is administrative suspension statement 82711, and a copy of a February 5 letter from the operator asking for consideration for payment in the amount of $445.00 for the following:

| | |
|---|---|
| Disallowed 19 hrs. bulldozing @ $20.00 hr.<br>Repair of main access road not a contract item | $380.00 |
| Disallowed mobilization of bulldozer<br>Not in accordance with contract | 65.00 |
| | $445.00 |

As these two items are not in the terms of the contract, I recommend that reimbursement not be made.

J. William Hasler

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

Enclosures

3 Vouchers

Dec 67 5 6.4 0
Nov 67 3 0.2 0
Oct 67 2 8 3.2 0

14X0804 3 6 9.6 0 0

14X6875(08)

1 6 9.6 0 0

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No. 14-23-090-2231
Contract Amount $ 112,000.00
Gov't. Participation % 75 $84,000.00
Mineral(s) Silver

# OPERATOR'S MONTHLY VOUCHER

For Month of December, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield Court, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | $ 2,440.00 | $ 2,440.00 | | 2060.00 | 2060.00 |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Contracting~~ NC Drilling | -0- | 714.00 | 714.00 | | | |
| Drilling NXWL | -0- | 2,766.90 | 2,766.90 | | | |
| -500 FT BXWL | -0- | 27,177.20 | 27,177.20 | | | |
| +500 FT BXWL | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 FT BXWL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: | | | | | | |
| Geologist Engineer Supervision & Technical | 650.00 | 8,560.00 | 8,560.00 | | | |
| Outside Consultants | $75.00 | 2,025.00 | 2,100.00 | | | |
| Labor | -0- | 190.00 | 190.00 | | -0- | -0- |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| ~~Timber~~ Outside Consultant per Diem | -0- | 176.00 | 176.00 | | | |
| ~~Explosives~~ Labor (Miner) | -0- | 168.00 | 168.00 | | -0- | -0- |
| ~~Pipe~~ Core Boxes | -0- | 694.00 | 694.00 | | | |
| ~~Bits~~ Compressor Expense | 220.94 | 1,247.69 | 1,247.69 | X | | |
| Casing lost in hole | -0- | 560.65 | 560.65 | .20 | Disallowed | Dec 66 |
| Additives | -0- | 502.42 | 502.42 | | 490.50 | 490.50 |
| Air and Water line Rental | -0- | 97.20 | 97.20 | X | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | -0- | 1,784.00 | 1,784.00 | | | |
| ~~Purchase~~ Mileage | -0- | 1,611.36 | 1,611.36 | | | |
| ~~Depreciation~~ Cementing | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | -0- | 1,403.00 | 1,403.00 | | 1397.50 | 1397.50 |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping And Clerical | -0- | 427.50 | 427.50 | | | |
| Bulldozer Mobilization | -0- | 200.00 | 200.00 | | 85.00 | 85.00 |
| Water Truck Mileage | -0- | 31.32 | 31.32 | | | |
| TOTALS | $75.00 | $72,027.14 | $72,102.14 | | 71,156.72 | 71,231.72 |

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

Date Jan. 9, 1968* Payee Big Treasure Mining and Development Co.

Per David H Kimball Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 56.40 14X0804

Signature John
(Authorized Certifying Officer)

Date MAR 21 1968 Vou. No. 85815

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date 2/29/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 2/29/68

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

3/8/68 RMS.

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of December, 1967 Docket No. OME 6548

Operator's Name ~~Big Treasure Mining and Development Co.~~ Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| Casing left in hole | Ft | -0- | 276 | 560.65 | 0 | 276 | 560.65 |
| Additives | Sacks | -0- | 80 | 502.42 | 0 | 78 | 464.08 |
| Core Boxes | Boxes | -0- | 694 | 694.00 | 0 | 694 | 694.00 |
| Water Truck Rental | Months | -0- | 5 | 950.00 | 0 | 5 | 950.00 |
| Water Truck Mileage | Miles | -0- | 261 | 31.32 | 0 | 261 | 31.32 |
| Cementing Time | Hrs | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond A.C. | Ft | -0- | 95 | 714.00 | 0 | 95 | 714.00 |
| NXWL | Ft | -0- | 401 | 2,766.90 | 0 | 401 | 2,766.90 |
| Drilling, -500 FT BXWL | Ft | -0- | 4,324 | 27,177.20 | 0 | 4,324 | 27,177.20 |
| +500 FT BXWL | Ft | -0- | 1,680 | 11,612.70 | 0 | 1,680 | 11,612.70 |
| +1000 FT BXWL | Ft | -0- | 857 | 6,513.20 | 0 | 857 | 6,513.20 |
| Compressor Expense | Months | -0- | 1 3/8 | 1,247.69 | 0 | *1 3/8 | 1,247.69 |
| Bulldozer | Hours | -0- | 122 | 2,440.00 | 0 | 103 | 2,060.00 |
| Geologist Engineer | Months | -0- | 9½ | 8,560.00 | 0 | 9½ | 8,560.00 |
| 4 Wheel Drive Truck Rental | Months | -0- | 11.15 | 1,784.00 | 0 | 11.15 | 1,784.00 |
| 4 Wheel Drive Truck Mileage | Miles | -0- | 12,372 | 1,611.36 | 0 | 12,372 | 1,611.36 |
| Outside Consultant | Days | 1 | 28 | 2,100.00 | 1 | 28 | 2,100.00 |
| Bookkeeping And Clerical | Months | -0- | 10 27/100 | 427.50 | 0 | 10 27/100 | 427.50 |
| Bulldozer Mobilization | Flat | -0- | 2 | 200.00 | ½ | 1 | 100.00 |
| Labor (Miner) | Days | -0- | 7 | 168.00 | 0 | * 0 | 0 |
| Air And Water Line Rental | Months | -0- | 1 | 97.20 | 0 | * 97.20 | 97.20 |
| Labor (Laborer) | Days | -0- | 9½ | 190.00 | 0 | * 0 | 0 |
| Outside Consultant Per Diem | Days | -0- | 11 | 176.00 | 0 | * 11 | 176.00 |
| Analytical Work | | | | | | | 1,397.50 |
| TOTAL TO DATE (per MME Form 60) | | | | | | | # 71,220.30 |

REMARKS

(Continue on back)

REMARKS

# Assessment No. 3 Withheld $200.00 pending receipt of final report

(Continue on back)

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 Jan. 9, 1968 Operator Big Treasure Mining and Development Co.

Per Daniel H Kimball Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date Feb. 29 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee:

Big Treasure Mining and Development Co.
125 Sedgefield Court
San Ramon, Calif. 94583

| Amount Claimed: | Differences (Explained Below) | Amount Approved |
|---|---|---|
| $492.60 | $200.00 | $492.60<br>$369.60 Government Share<br>200.00 Less<br>$ 169.60 |
| Bu. Voucher No. | Payee's Invoice No. | Period |
| | Docket # 6548 Contract # 2231 | Oct., Nov., Dec. 1967 |

EXPLANATION

$200.00 withheld pending receipt of final report.

Any reclaim for items deducted must be included as a separate item on subsequent monthly voucher and supported by the original of this statement.

JDH

Branch of Budget and Finance

BIG TREASURE Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

February 5, 1968

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60, "Operator's Monthly Voucher" and MME Form 61, "Operator's Progress Report" for the months of October, November, and December, 1967. This letter constitutes the "Narrative Report" for these three months.

October, 1967---work on the property during this month consisted of further field geologic evaluation by our Consultant-Geologist, Spenst M. Hansen, for the purpose of consolidation and re-evaluation of the results of the drilling and sampling that had been carried on previously. The purpose of this field re-evaluation was to verify the accuracy of the existing records and core logs, and to obtain additional geologic data required to make a final appraisal of the property. No bulldozing or drilling was carried on during the month.

November, 1967---the office evaluation of the property continued during this month. No claim for geologic services or exploration on the property is entered for this month, although office evaluation of data obtained throughout the project was carried out. A claim is entered for one months' clerical and bookkeeping work which includes some work performed during the previous month.

December, 1967---the evaluation of the data obtained was completed and one day outside consultant fee is applied to the contract under the provisions of amendment number 3. No drilling, bulldozer work, or other exploration was carried out on the property during this month. Work on the contract ended on December 12, 1967, according to the provisions of amendment number 4.

Under separate cover is being forwarded to you three copies of a final report required under article 5, paragraph C of the original OME contract. We trust this final report will meet with your approval.

Enclosed herewith please find two copies of a letter reclaiming certain items disallowed on the August, 1967 voucher in the total amount of $445.00.

Sincerely,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Company

DHK:lc
Enclosure

MME FORM 60
SEPT. 1959

OFFICIAL COPY O. M. E. RECEIVED MAR 21 1968

INITIALS | CODE | 1210 | 1130 | 1120 | 1205

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No. 14-23-090-2231

## OPERATOR'S MONTHLY VOUCHER

For Month of November, 1967

Contract Amount $ 112,000.00
Gov't. Participation % 75 $84,000.00
Mineral(s) Silver

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield Court, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | $2,440.00 | $ 2,440.00 | | 2060.00 | 2060.00 |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Contracting~~ NC Drilling | -0- | 714.00 | 714.00 | | | |
| Drilling NXWL | -0- | 2,766.90 | 2,766.90 | | | |
| -500 FT BXWL | -0- | 27,177.20 | 27,177.20 | | | |
| +500 FT BXWL | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 FT BXWL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: | | | | | | |
| Geologist Engineer Supervision & Technical | -0- | 8,560.00 | 8,560.00 | | | |
| Outside Consultants | 225.00 | 2,025.00 | 2,025.00 | | | |
| Labor | -0- | 190.00 | 190.00 | | -0- | -0- |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| ~~Timber~~ Outside Consultant Rear Orem | -0- | 176.00 | 176.00 | | | |
| ~~Explosives~~ Labor (Miner) | -0- | 168.00 | 168.00 | | -0- | -0- |
| ~~Pipe~~ Core boxes | -0- | 694.00 | 694.00 | | | |
| ~~Fuel~~ Compressor Expense | -0- | 1,247.69 | 1,247.69 | | | |
| Casing lost in hole | -0- | 560.65 | 560.65 | | | |
| Additives | -0- | 502.42 | 502.42 | | 490.50 | 490.50 |
| Air and waterline Rental | -0- | 97.20 | 97.20 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive Truck | -0- | 1,784.00 | 1,784.00 | | | |
| ~~Purchase~~ 4 wheel drive truck mileage | -0- | 1,611.36 | 1,611.36 | | | |
| ~~Depreciation~~ Computing Time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | -0- | 1,403.00 | 1,403.00 | | 1397.50 | 1397.50 |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | 40.00 | 387.50 | 427.50 | | | |
| Bulldozer Mobilization | -0- | 200.00 | 200.00 | | 85.00 | 85.00 |
| Water Truck Mileage | -0- | 31.32 | 31.32 | | | |
| TOTALS | $40.00 | $71,987.14 | $72,027.14 | | 71,116.72 | 71,156.72 |

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

Date Jan. 9, 1968* Payee Big Treasure Mining and Development Co.

Per David H Kimball Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 30.00 14X0804

Signature JDM (Authorized Certifying Officer)

Date MAR 21 1968 Vou. No. 85875

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231C

Signature J. William Hooker Title Field Officer Date 2/29/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hooker Title Field Officer Date 2/29/68

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel; communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

3/8/68/R mA

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of November, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drifting~~ Casing last in hole | ft | -0- | 276 | $ 560.65 | 0 | 276 | 560.65 |
| ~~Crosscutting~~ Additives | Sacks | -0- | 80 | 502.42 | 0 | 78 | 464.08 |
| ~~Raising~~ Core Boxes | Boxes | -0- | 694 | 694.00 | 0 | 694 | 694.00 |
| ~~Shafts~~ Water Truck Rental | Months | -0- | 5 | 950.00 | 0 | 5 | 950.00 |
| ~~Winzes~~ Water Truck Mileage | Miles | -0- | 261 | 31.32 | 0 | 261 | 31.32 |
| ~~Other Underground~~ Cementing Time | Hrs | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, ~~Core~~-Diamond NQ | Ft | -0- | 95 | 714.00 | 0 | 95 | 714.00 |
| ~~Rotary~~ NXWL -500 FT BXWL | Ft | -0- | 401 | 2,766.90 | 0 | 401 | 2,766.90 |
| Drilling, ~~Churn Diamond~~ +500 FT BXWL | Ft | -0- | 4,324 | 27,177.20 | 0 | 4,324 | 4,649.20 |
| ~~Rotary~~ +1000 FT BXWL | Ft | -0- | 1,680 | 11,612.70 | 0 | 1,680 | 11,612.70 |
| ~~Other~~ Compressor Expense | Ft | -0- | 857 | 6,513.20 | 0 | 857 | 6,513.20 |
| ~~Power~~ | Months | -0- | 1 3/8 | 1,247.69 | 0 | 1 3/8 | 1,247.69 |
| ~~Miscellaneous~~ Bulldozer | Hrs | -0- | 122 | 2,440.00 | 0 | 103 | 2,060.00 |
| Geologist Engineer | Months | -0- | 9½ | 8,560.00 | 0 | 9½ | 8,560.00 |
| ~~Rental of Trailer~~ 4 Wheel Drive Truck Rental | Months | -0- | 10 11/150 | 1,784.00 | 0 | 10.15 | 1,784.00 |
| ~~Scraping~~ 4 Wheel Drive Truck Mileage | Miles | -0- | 12,372 | 1,611.36 | 0 | 12,372 | 1,611.36 |
| ~~Trenching~~ Outside Consultant | Days | -0- | 27 | 2,025.00 | 0 | 27 | 2,025.00 |
| ~~Land Putting~~ Book Keeping And Clerical | Months | 1 | 10 27/100 | 427.50 | 0 | 10 27/100 | 427.50 |
| ~~Other Salaried Work~~ Bulldozer Mobilization | Flat | -0- | 2 | 200.00 | 0 | ½ | 50.00 |
| ~~Hired Relief Miners & Repairmen~~ Labor (Miner) | days | -0- | 7 | 168.00 | 0 | # 0 | 0 |
| ~~Mobilization of Mine Working~~ Air And Water Line Rental | Months | -0- | 1 | 97.20 | 1 | # 97.20 | 97.20 |
| ~~Mine Building, Camps, etc.~~ Labor (Laborer) | Days | -0- | 9½ | 190.00 | 0 | # 0 | 0 |
| ~~Operating Equipment Purchased~~ Outside Consultant Per Diem | Days | -0- | 11 | 176.00 | 0 | # 11 | 176.00 |
| Analytical Work | | | | 1,403.00 | | | 1,397.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $72,027.14 | | | $48,567.30 |

REMARKS

(Continue on back)

REMARKS

Amendment No. 3

(Continue on back)

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 Jan. 9, 1968 Operator Big Treasure Mining and Development Co.

Per David H Kimball Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Harter

Title Field Officer
Government Representative

Date February 29, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

MME FORM 5
SEPT. 1959

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 21 1968
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RMD | 125

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No. 14-23-090-2231
Contract Amount $ 112,000.00
Gov't. Participation % 75 $ 84,000.00
Mineral(s) Silver

# OPERATOR'S MONTHLY VOUCHER

For Month of October, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield Court, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | $ -0- | $2,440.00 | $ 2,440.00 | | 2060.00 | 2060.00 |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Core drilling~~ NC Drilling | -0- | 714.00 | 714.00 | | | |
| Drilling NXWL | -0- | 2,766.90 | 2,766.90 | | | |
| -500 ft BXWL | -0- | 27,177.20 | 27,177.20 | | | |
| +500 ft BXWL | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 ft BXWL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: Geologist - Engineer | -0- | 8,560.00 | 8,560.00 | | | |
| Supervision & Technical | 150.00 | 1,875.00 | 2,025.00 | | | |
| Outside Consultants | | | | | | |
| Labor | -0- | 190.00 | 190.00 | | -0- | -0- |
| (3) Operating Mat'l. & Supplies: Outside Consultant | 32.00 | 144.00 | 176.00 | | | |
| ~~Timber~~ per diem | | | | | | |
| ~~Explosives~~ Labor (Miner) | -0- | 168.00 | 168.00 | | -0- | -0- |
| ~~Pipe~~ Core boxes | -0- | 694.00 | 694.00 | | | |
| ~~Fuel~~ Compressor Expense | -0- | 1,247.69 | 1,247.69 | | | |
| Casing lost in hole | -0- | 560.65 | 560.65 | | | |
| Additives | -0- | 502.42 | 502.42 | | 490.50 | 490.50 |
| Air and Water Line Rental | -0- | 97.20 | 97.20 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | 120.00 | 1,664.00 | 1,784.00 | | | |
| ~~Purchase~~ 4 wheel drive truck Mileage | 75.60 | 1,535.76 | 1,611.36 | | | |
| ~~Depreciation~~ Cementing Time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | -0- | 1,403.00 | 1,403.00 | | 1397.50 | 1397.50 |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | -0- | 387.50 | 387.50 | | | |
| Bulldozer Mobilization | -0- | 200.00 | 200.00 | | 85.00 | 85.00 |
| Water Truck Mileage | -0- | 31.32 | 31.32 | | | |
| TOTALS | $377.60 | $71,609.54 | $71,987.14 | | 70,739.12 | 71,116.72 |

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

Date Jan. 9, 1968 Payee Big Treasure Mining and Development Co.

Per David H. Kimball Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 283.20 14X0804

Signature Jdm
(Authorized Certifying Officer)

Date MAR 21 1968 Voucher No. 85815

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date 2/29/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 2/29/68

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

3/8/68/RMS

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of October, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drilling~~ Casing lost in Hole | Ft | -0- | 276 | $ 560.65 | 0 | 276 | 560.65 |
| ~~Cementing~~ Additives | Sacks | -0- | 80 | 502.42 | 0 | 78 | 464.08 |
| ~~Raising~~ Core Boxes | boxes | -0- | 694 | 694.00 | 0 | 694 | 694.00 |
| ~~Stake~~ Water Truck Rental | Months | -0- | 5 | 950.00 | 0 | 5 | 950.00 |
| ~~Water~~ Water Truck Mileage | Miles | -0- | 261 | 31.32 | 0 | 261 | 31.32 |
| ~~Other Underground~~ Cementing Time | Hrs | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond NC | Ft | -0- | 95 | 714.00 | 0 | 95 | 714.00 |
| ~~Rotary~~ NXWL -500 Ft. BXWL | Ft | -0- | 401 | 2,766.90 | 0 | 401 | 2 766.90 |
| Drilling, ~~Rotary Core-Diamond~~ +500 Ft BXWL | Ft | -0- | 4,324 | 27,177.20 | 0 | 4,324 | 4 649.20 UG |
| ~~Rotary~~ +1000 Ft. BXWL | Ft | -0- | 1,680 | 11,612.70 | 0 | 1 680 | 11,612.70 |
| ~~Other~~ Compressor Expense | Ft | -0- | 857 | 6,513.20 | 0 | 857 | 6 513.20 |
| ~~Percussion~~ | Months | -0- | 1 3/8 | 1,247.69 | 0 | 1 3/8 | 1,247.69 |
| ~~Miscellaneous~~ Bulldozer | Hrs | -0- | 122 | 2,440.00 | 0 | 103 | 2,060.00 |
| Geologist Engineer | Months | 210-30 | 9½ | 8,560.00 | 0 | 9½ | 8 560.00 |
| ~~Equipment Rental~~ 4 Wheel Drive Truck Rental | Months | 3/4 | 11.15 | 1,784.00 | 3/4 | 11.15 | 1 784.00 |
| ~~Shipping~~ 4 Wheel Drive Truck Mileage | Miles | 630 | 12,372 | 1,611.36 | 630 | 12 372 | 1,611.36 |
| ~~Geoanalysis~~ Outside Consultant | Days | 2 | 27 | 2,025.00 | 2 | 27 | 2,025.00 |
| ~~Text Printing~~ Book Keeping and Clerical | Month | -0- | 9 27/100 | 387.50 | 0 | 9 27/100 | 387.50 |
| Bulldozer Mobilization | Flat | -0- | 2 | 200.00 | 0 | 2 | 50.00 |
| ~~Other Surface Work~~ Labor (Miner) | Days | -0- | 7 | 168.00 | 0 | * | 0 |
| ~~Initial Rehabilitation and Repair~~ Air and Water Line Rental | Months | -0- | 1 | 97.20 | 1 | * 97.20 | 97.20 |
| ~~Rehabilitation of Mine Machinery~~ Labor (Laborer) | Days | -0- | 9½ | 190.00 | 0 | * 0 | 0 |
| ~~Mine Buildings, Shipping etc.~~ Outside Consultant Per Diem | Days | 2 | 11 | 176.00 | 0 | * 11 | 176.00 |
| ~~Operating Equipment Purchases~~ | | | | | | | |
| Analytical Work | | | | 1,403.00 | | | 1,397.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $71,987.14 | | | 48,527.30 |

REMARKS

(Continue on back)

REMARKS
*Amendment No. 3

(Continue on back)

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 Jan. 9, 1968 Operator Big Treasure Mining and Development Company

Per David H Kimball Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Fisher

Title Field Office Government Representative

Date February 29, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

IN REPLY REFER TO:

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

Office of Minerals Exploration

October 25, 1967

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O. M. E.
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Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure-Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the monthly report for the month of September, 1967 on the above-stated voucher.

A memorandum relative to the applicant's request for permission to deepen Diamond Drill Hole No. 3 which accompanies this voucher is pending additional field data from the operator.

J. William Hasler

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

Enclosures

10/31/67 F.O. will not recommend deepening hole 3 from 1857' to 2857

Hole 3 = 1500 ft. allowable. 357 ft. drilled at Operators expense? No
Amendment needed or disallow $2,998.80 on march 1967 Voucher. Amend

11/8/67 Did Hole 3 cut the "Marker" bed of conglomerate 30 ft. thick which is "a few hundred feet above the Naco ls? No
we have no log of hole 3 but diagram shows conglom. 120'-155'

MME FORM 60
SEPT. 1959

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# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No. 14-23-090-2231
Contract Amount $112,000.00
Gov't. Participation % 75 $ 84,000.00
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER For Month of SEPTEMBER, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield Court, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | 2,440.00 | 2,440.00 | | | |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Core Drilling~~ NC Drilling | -0- | 714.00 | 714.00 | | | |
| Drilling NXWL | -0- | 2,766.90 | 2,766.90 | | | |
| -500 ft BXWL | -0- | 27,177.20 | 27,177.20 | | | |
| +500 ft BXWL | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 ft BXWL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: | | | | | | |
| Supervision & Technical Geologist Engineer | 650.00 | 7,910.00 | 8,560.00 | | | |
| Outside Consultants | 225.00 | 1,650.00 | 1,875.00 | | | |
| Labor | -0- | 190.00 | 190.00 | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| ~~Explosives~~ Outside Consultant per diem | 48.00 | 96.00 | 144.00 | | | |
| ~~Explosives~~ Labor (Miner) | -0- | 168.00 | 168.00 | | | |
| ~~Pipe~~ Core Boxes | -0- | 694.00 | 694.00 | | | |
| ~~Fuel~~ Compressor Expense | 227.94 | 1,019.75 | 1,247.69 | | | |
| Casing lost in hole | -0- | 560.65 | 560.65 | | | |
| Additives | -0- | 502.42 | 502.42 | | | |
| Air and Water Line Rental | -0- | 97.20 | 97.20 | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive Truck | 160.00 | 1,504.00 | 1,664.00 | | | |
| ~~Rental~~ 4 wheel drive mileage | 144.00 | 1,391.79 | 1,535.76 | | | |
| ~~Depreciation~~ Cementing Time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | 66.00 | 1,337.00 | 1,403.00 | | | |
| Analytical Work | | | | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | 40.00 | 347.50 | 387.50 | | | |
| Bookkeeping and Clerical | -0- | 200.00 | 200.00 | | | |
| Bulldozer Mobilization | -0- | 31.32 | 31.32 | | | |
| Water Truck Mileage | | | | | | |
| TOTALS | $1,560.94 | $70,048.63 | $71,609.54 | | | |

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

Date Sept. 8, 1967 *Payee Big Treasure Mining and Development Co.

Per Daniel H. Turnbull Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 1,170.70 14X0804

Signature JDM
(Authorized Certifying Officer)

Date NOV 17 1967 Vou. No. 83570

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231.

Signature J. William Hasler Title Field Officer Date 10/23/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 10/23/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of ~~SEPTEMBER, 1967~~ Docket No. ~~OME 6548~~

Operator's Name ~~Big Treasure Mining and Development Company~~ Contract No. 14-23-090-~~2231~~

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drilling~~ Casing lost in hole | ft. | -0- | 276 | $ 560.65 | 0 | 276 | 560.65 |
| ~~Concrete~~ Additives | Sacks | -0- | 80 | 502.42 | 0 | 78 | 464.08 |
| ~~Drilling~~ Core Boxes | Boxes | -0- | 694 | 694.00 | 0 | 694 | 694.00 |
| ~~Stake~~ Water Truck Rental | Months | -0- | 5 | 950.00 | 0 | 5 | 950.00 |
| ~~Water~~ Water Truck Mileage | Miles | -0- | 261 | 31.32 | 0 | 261 | 31.32 |
| ~~Other Underground~~ Cementing time | Hrs. | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond N.C. | ft. | -0- | 95 | 714.00 | 0 | 95 | 714.00 |
| ~~Drilling~~ NXWL -500 ft. BXWL | ft. | -0- | 401 | 2,766.90 | 0 | 401 | 2,766.90 |
| Drilling, ~~Reverse Diamond~~ +500 ft BXWL | ft. | -0- | 4,324 | 27,177.20 | 0 | * 788 | 4,649.20 |
| ~~Drilling~~ +1000 ft BXWL | ft. | -0- | 1,680 | 11,612.70 | 0 | 1,680 | 11,612.70 |
| ~~Cost~~ Compressor Expense | ft. | -0- | 857 | 6,513.20 | 0 | 857 | 6,513.20 |
| ~~Processor~~ | Months | 1 | 1 3/8 | 1,247.69 | 1/4 | 1 3/8 | 1,247.94 |
| ~~Miscellaneous~~ Bulldozer | Hrs | -0- | 122 | 2,440.00 | 0 | 103 | 2,060.00 |
| Geologist Engineer 4 wheel drive | Months | 21/30 | 19 [illegible] | 8,560.00 | 21/30 | 9.5 | 8,560.00 |
| ~~Rental and Trails~~ Track Rental A wheel drive | Months | 1 | 10 12/30 | 1,664.00 | 1 | 10 12/30 | 1,664.00 |
| ~~Shipping~~ Track Mileage | Miles | 1,200 | 11,742 | 1,535.76 | 1200 | 11,742 | 1,535.76 |
| ~~Consulting~~ Outside Consultant Bookkeeping | Days | 3 | 25 | 1,875.00 | 3 | 25 | 1,875.00 |
| ~~Text Printing~~ and Clerical | Months | 1 | 9 27/100 | 387.50 | 1 | 9 27/100 | 387.50 |
| ~~Other Surface Work~~ Bulldozer Mobilization | Stat | -0- | 2 | 200.00 | 1/2 | 1/2 | 50.00 |
| Labor (Miner) | | | | | | | |
| ~~Mining Rehabilitation and Repairs~~ | Days | -0- | 7 | 168.00 | 0 | * 0 | 0 |
| Air and Water Line Rental | | | | | | | |
| ~~Rehabilitation of Mine Workings~~ Labor (Laborer) | Months | -0- | 1 | 97.20 | 1 | * 0 | 97.20 |
| ~~New Buildings, Mining Equipment~~ | Days | -0- | 9 | 190.00 | 0 | * 0 | 0 |
| ~~Operating Equipment Purchases~~ Outside Consultant Per Diem | Days | 3 | 9 | 144.00 | 3 | * 9 | 144.00 |
| Analytical Work | | | | 1,403.00 | | | 1,397.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $71,609.54 | | | $48,149.95 |

REMARKS

(Continue on back)

REMARKS

* Amendment No. 3

(Continue on back)

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 Oct. 6, 1967 Operator Big Treasure Mining and Development Company

Per David H. Kimball Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date October 23, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

BIG TREASURE
Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

October 7, 1967

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60, "Operator's Monthly Voucher" and MME Form 61, "Operator's Progress Report." This letter constitutes our "Narrative Report." These three reports cover our operations during the month of September, 1967.

Mr. Thomas S. Sterrett acted as our Engineer-Geologist during the period of September 1 through 21st. Mr. Sterrett relogged and sampled portions of the drill core, evaluated and sampled portions of the vein structures, and gathered considerable geologic data. The primary goal of Mr. Sterrett's work was to re-evaluate the goals of the exploration program on our property covered by OME Contract 2231, and to make recommendations based on data obtained during the exploration program thus far with regard to further work. Mr. Sterrett has prepared a report summarizing his work and his recommendations. Two copies of this report are enclosed herewith. The maps will be forwarded under separate cover when copies of them have been made.

No drilling or bulldozer work was done on the property during the month of September, since the drill holes 7A and 7B were completed during late August, as summarized in the August report.

Based on the information contained in Mr. Sterrett's report, and the other data available to us it is our recommendation that Drill Hole No. 3 be deepened sufficiently to intersect the Naco Limestone formation and to explore for the presence of replacement mineral deposits. The present depth of Drill Hole No. 3 is 1857 feet and is the deepest

hole on the property. This hole was originally drilled to explore for mineralization in the Naco Formation but was stopped prior to reaching the limestone.

It is our present estimate that the additional depth of hole required to reach the limestone is from 300 to 900 feet. The probability of silver-lead replacement deposits in the limestone in the area of Drill Hole No. 3 is good. Improved understanding of the geologic environment, and the nature of the hydrothermal vein deposits with their relationships to the intrusives have improved our estimates of the probability of replacement deposits being present.

It would seem rather unfortunate after having spent so much time and effort thus far in exploring the property to end our efforts just short of the most promising target.

Adequate unused funds remain in the Stage II portion of the contract to complete the deepening of this drill hole to the recommended depths. Bids were obtained from Boyles Brothers Drilling Company regarding the deepening of the drill hole on September 28, 1967 as follows:

(a) Mobilization charge----------$200.00
(b) Cleaning out the hole and re-installing casing to be charged at $15.00 per hour plus materials.
(c) Footage charges
---1500 to 2000 ft. depth range.....$8.40 per ft.
---2000 to 2500 ft. depth range.....$9.40 per ft.
---2500 to 2750 ft. depth range.....$10.40 per ft.

Boyles Brothers have indicated they can begin on about seven days notice, and the hole will probably take about twenty working days to complete (some time should be allowed in addition for contingencies).

Please give this request your early attention. Supplementary information including sketches and cross sections are being prepared and will be mailed to you within a few days. The contract is scheduled to expire on November 12, 1967, and if we are to complete this work by that time your early approval will be needed.

Very truly yours,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Co.

DHK:lc
Enclosures

FORM 60
1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No.
14-23-090- 2231
Contract Amount $ 112,000.00
Gov't. Participation % 75 $84,000.00
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER

For Month of AUGUST, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield, San Ramon, California 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing ~~Water Truck~~ | $ 380.00 | $ 2,060.00 | $ 2,440.00 | -0- | | |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Drilling~~ NC Drilling | 113.60 | 600.40 | 714.00 | | | |
| Drilling NXWL | -0- | 2,766.90 | 2,766.90 | | | |
| -500 ft BXWL | 4,649.20 | 22,528.00 | 27,177.20 | | | |
| +500 ft BXWL | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 ft BXWL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: Geologist - Engineer Supervision & Technical | 350.00 | 7,560.00 | 7,910.00 | | | |
| Outside Consultants | 450.00 | 1,200.00 | 1,650.00 | | | |
| Labor | 190.00 | -0- | 190.00 | -0- | | |
| (3) Operating Mat'l. & Supplies: ~~Timber~~ Outside Consultant per diem | 96.00 | -0- | 96.00 | | | |
| ~~Explosives~~ Labor (Miner) | 168.00 | -0- | 168.00 | -0- | | |
| ~~Pipe~~ Core boxes | -0- | 694.00 | 694.00 | | | |
| ~~Fuel~~ Compressor Expense | 1019.75 | -0- | 1019.75 | | | |
| Casing lost in hole | 24.00 | 536.65 | 560.65 | | | |
| Additives | 153.00 | 349.42 | 502.42 | | | |
| Air and Water Line rental | 97.20 | -0- | 97.20 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | 160.00 | 1,344.00 | 1,504.00 | | | |
| ~~Purchase~~ 4 wheel drive truck mileage | 144.00 | 1,247.76 | 1,391.76 | | | |
| ~~Depreciation~~ Cementing Time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | 97.50 | 1,239.50 | 1,337.00 | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | 40.00 | 307.50 | 347.50 | | | |
| Bulldozer Mobilization | 65.00 | 135.00 | 200.00 | -0- | | |
| Water Truck Mileage | -0- | 31.32 | 31.32 | | | |
| TOTALS | $8,197.25 | $61,851.35 | $70,048.60 | 7394.25 | | |

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

Date Sept. 15, 1967 Payee Big Treasure Mining and Development Co.

Per Daniel H. Kimball Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 5,545.69 14X0804

Signature John
(Authorized Certifying Officer)

Date OCT 6 1967 Vou. No. 82711

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Fisher Title Field Officer Date 9/29/67

Approved by OME Executive Officer or Alternate:

Signature J. William Fisher Title Field Officer Date 9/29/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of AUGUST, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drilling~~ Casing lost in hole | ft | 6 | 276 | $ 560.65 | 6 | 276 | 560.65 |
| ~~Cementing~~ Additives | Sacks | 34 | 80 | 502.42 | 34 | 78 | 464.08 |
| ~~Boring~~ Core boxes ** | boxes | -0- | 694 | 694.00 | 0 | 694 | 694.00 |
| ~~Scale~~ Water Truck Rental | months | -0- | 5 | 950.00 | 0 | 5 12/30 | 950.00 |
| ~~Water~~ Water Truck Mileage | miles | -0- | 261 | 31.32 | 0 | 261 | 31.32 |
| ~~Other Underground~~ cementing time | hrs | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond N.C. | ft | 16 | 95 | 714.00 | 16 | 95 | 714.00 |
| ~~Rotary~~ NXWL -500 ft BXWL | ft | -0- | 401 | 2,766.90 | 0 | 401 | 2766.90 |
| Drilling, ~~Diamond~~ +500 ft. BXWL | ft | 804 | 4,324 | 27,177.20 | 788 | * 788 | 4649.20 |
| ~~Rotary~~ +1000 ft. BXWL | ft | -0- | 1,680 | 11,612.70 | 0 | 1683 | 11 612.70 |
| ~~Other~~ Compressor Expense | ft | -0- | 857 | 6,513.20 | 0 | 857 | 6513.20 |
| ~~Maintenance~~ Bulldozer | months | 1 1/8 | 1 1/8 | 1,019.75 | 1.12 | * 1.12 | 1019.75 |
| Geologist-Engineer | hrs | 19 | 122 | 2,440.00 | 0 | 103 | 2060.00 |
| 4 wheel drive truck ~~Dump and Trailer~~ Rental | months | 2/5 | 8 4/5 | 7,910.00 | 2/5 | * 2/5 | 350.00 |
| 4 wheel drive truck ~~Shipping~~ Mileage | months | 1 | 9 12/30 | 1,504.00 | 1 | * 1 | 160.00 |
| ~~Trucking~~ Outside Consultant | miles | 1200 | 10,542 | 1,391.76 | 1 | * 1 | 144.00 |
| ~~Test Drilling~~ Bookkeeping and clerical | days | 6 | 22 | 1,650.00 | 6 | * 6 | 450.00 |
| ~~Other Surface Work~~ Bulldozer Mobilization | months | 1 | 8 27/100 | 347.50 | 1 | * 1 | 40.00 |
| Labor (Miner) * | flat | 65/100 | 2 | 200.00 | 0 | 0.5 | 50.00 |
| ~~Initial Rehabilitation and Repairs~~ Air and water line rental | days | 7 | 7 | 168.00 | 0 | * 0 | 0 |
| ~~Rehabilitation of Mine Workings~~ Labor (Laborer) | months | 1 | 1 | 97.20 | 1 | * 1 | 97.20 |
| ~~New Buildings, Fixtures, etc.~~ Outside Consultant per diem | days | 9½ | 9½ | 190.00 | 0 | * 0 | 0 |
| ~~Operating Equipment Purchases~~ | days | 6 | 6 | 96.00 | 6 | * 6 | 96.00 |
| Analytical Work | | | | 1,337.00 | 29+6+1 | | 1,351.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $70,048.60 | | | * 70 06.15 |
| | | | | | | Stage II | 388.10 |
| | | | | | | This Voucher | 7394.25 |

REMARKS * Boyles Bros. provided 2 men who worked as miners. They blasted out and constructed the drill station. Boyles Bros billed us for this crew at $11.50 per hour, and they worked parts of 4 days, totaling 54 man hours (see drill report copies attached). This includes only the time spent on mining work. Other work such as moving equipment to the drill station, etc. was covered by the flat $200. mobilization charge.

(Continue on back)

(over)

REMARKS
* Amendment 3.

(Continue on back)

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

Date Sept. 15, 1967 Operator Big Treasure Mining & Development Co.

Per [signature] Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature R. M. Smith

Title Geologist
Government Representative

Date Sept. 29, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

** We have not yet been billed for approximately 80 core boxes used. This item will appear on a later voucher.

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Big Treasure Mining and Development Co.
125 Sedgefield
San Ramon, Calif. 94583

| Amount Claimed: | Differences (Explained Below) | Amount Approved |
|---|---|---|
| $10,177.25 | $808.50 | $9,368.75<br>$7,026.56 Government Participation |
| Bu. Voucher No. | Payee's Invoice No. | Period |
| | Docket # 6548 Contract # 2231 | July & August 1967 |

EXPLANATION

**July Voucher**

| | |
|---|---|
| Disallowed 5 Silica samples | 5.50 |

**August Voucher**

| | |
|---|---|
| Disallowed 19 hrs. bulldozing @ $20.00 hr.<br>Repair of main access road not a contract item. | 380.00 |
| Disallowed mobilization of bulldozer<br>Not in accordance with contract. | 65.00 |
| Disallowed Labor (minor)<br>" Laborer<br>Drill station not a contract item. | 160.00<br>190.00 |
| | $ 808.50 |

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister
Branch of Budget and Finance

September 18, 1967

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

OME Region III
RECEIVED
SEP 20 1967
Denver, Colorado

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60, "Operator's Monthly Voucher" and MME Form 61, "Operator's Progress Report." This letter constitutes our "Narrative Report." These three reports summarize our operations during the month of August, 1967. Mr. Donald H. Jardine, our geologist-engineer on the property, left our employ on August 12, 1967, for personal and family reasons and returned to his home in Quebec. During the balance of the month, Dr. S. M. Hansen, our consultant geologist provided the necessary supervision for the drilling operation and performed the other necessary tasks, including core sampling and logging.

Underground drilling on hole number 7-A began on August 1, and continued until the hole was completed on August 16th. The drilling continued in a routine fashion with the 600 CF compressor providing adequate air for the underground operation, and no serious difficulty was encountered. The hole was stopped at the end of day shift on August 16 by S. M. Hansen at the depth of 417 feet. The surface casing, consisting of a five foot section and a one foot section could not be removed from the hole because of a broken surface coupling, and was thus left in the hole. The lithology at the bottom of the hole consisted of unaltered andesite flow breccia. Sulphide mineralization was noted in the hole from the depth of about 260 to about 409 feet. Assay information (assay report enclosed) indicates, however, that the sulphides present do not carry commercial silver values.

On August 17th and 18th, it was necessary to drill and blast considerable rock from the left side of the drift in order to permit the drill to swing to the position to drill hole number 7-B. A crew of two men were engaged a total of about 14 hours on these two days, in making the necessary enlargements to the drill station. Hole 7-B began on

August 19th and drilling continued without unusual incident or occurrence until the hole was completed on August 26th at a depth of 387 feet. The hole bottomed in unaltered andesite flow breccia. Considerable sulphide mineralization was also noted in this hole and samples were sent off for assay. As of this date, the assay results have not yet been received. They will be forwarded under separate cover as soon as they arrive.

Both holes 7-A and 7-B were drilled at an inclination of 45 degrees from a station situated approximately 250 feet towards the portal from the intersection of the Adjust tunnel and the Bluebird vein. The direction of hole 7-A was approximately S. 30° E. (Approximately 30 degrees easterly of the trend of the Adjust tunnel); and hole 7-B was drilled approximately S. 03° W. (Approximately 3 degrees to the west of the direction of the Adjust tunnel).

This portion of the operation was overseen by S. M. Hansen. Hole 7-B was completed at the depth of 387 feet. Some additional sampling of veins exposed in underground workings and surface cuts was also carried out. Preliminary field logs of the drill core from hole 7-B was prepared (a copy of which is enclosed).

Enclosed are receipts resulting from our performance of work under the contract, and Amendment No. 3 during the month of August. Should any questions arise, particularly from our interpretation of allowable cost under Amendment No. 3, please feel free to contact me by mail or telephone as necessary.

Yours very truly,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Company

DHK:lc
Enclosures

MMF FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OMR 6548
Contract No. 14-23-090-2231
Contract Amount $112,000.00
Gov't. Participation % 75 84,000.00
Mineral(s) Silver

# OPERATOR'S MONTHLY VOUCHER

For Month of JULY, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | $440.00 | $ 1,620.00 | $ 2,060.00 | | | |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Cementing~~ N.C. Drilling | -0- | 600.40 | 600.40 | | | |
| Drilling NXWL " | -0- | 2,766.90 | 2,766.90 | | | |
| -500 ft. BXWL " | -0- | 22,528.00 | 22,528.00 | | | |
| +500 ft. BXWL " | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 ft. BXWL " | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: | | | | | | |
| Geologist - Engineer Supervision & Technical | 900.00 | 6,660.00 | 7,560.00 | | | |
| Outside Consultants | 150.00 | 1,050.00 | 1,200.00 | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing lost in hole | -0- | 536.65 | 536.65 | | | |
| Additives | -0- | 349.42 | 349.42 | | | |
| Core Boxes | -0- | 694.00 | 694.00 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | 160.00 | 1,184.00 | 1,344.00 | | | |
| ~~Purchase~~ 4 wheel drive truck mileage | 144.00 | 1,103.76 | 1,247.76 | | | |
| ~~Depreciation~~ Cementing time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | 186.00 | 1,053.50 | 1,239.50 | 180.50 | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | -0- | 307.50 | 307.50 | | | |
| Bulldozer Mobilization | -0- | 135.00 | 135.00 | | | |
| Water Truck Mileage | -0- | 31.32 | 31.32 | | | |
| TOTALS | $1,980.00 | $59,871.35 | $61,851.35 | 1974.50 | | |

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

Date Sept. 5, 1967 Payee Big Treasure Mining and Development Co.

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 1,480.87 14X0804

Signature [signature]
(Authorized Certifying Officer)

Date Oct 6, 1967 Vou. No. 82 711

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploratio project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date 9/15/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 9/15/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of JULY, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| Casing lost in hole | ft. | -0- | 270 | $ 536.65 | — | 270 | 536.65 |
| Additives | sacks | -0- | 46 | 349.42 | — | 46 | 311.08 |
| Core boxes | boxes | -0- | 694 | 694.00 | — | 694 | 694.00 |
| Water Truck Rental | months | -0- | 5 | 950.00 | — | 5 | 950.00 |
| Water Truck Mileage | miles | -0- | 261 | 31.32 | — | 261 | 31.32 |
| Cementing Time | hours | -0- | 14 | 175.00 | — | 14 | 175.00 |
| N.C. | ft. | -0- | 79 | 600.40 | — | 79 | 600.40 |
| NXWL -500 ft BXWL | ft. | -0- | 401 | 2,766.90 | — | 401 | 2766.90 |
| +500 ft BXWL | ft. | -0- | 3,520 | 22,528.00 | — | 3520 | 22528.00 |
| +1000 ft BXWL | ft. | -0- | 1,680 | 11,612.70 | — | 1683 | 11612.70 |
| | ft. | -0- | 857 | 6,513.20 | — | 857 | 6,513.20 |
| **Percussion** | | | | | | | |
| Bulldozer | hours | 22 | 103 | 2,060.00 | 22 | 103 | 2060.00 |
| Geologist - Engineer | months | 1 | 8 12/30 | 7,560.00 | 1 | 8 12/30 | 7560.00 |
| 4 wheel Drive Truck Rental | months | 1 | 8 12/30 | 1,344.00 | 1 | 8 12/30 | 1344.00 |
| 4 wheel Drive Truck Mileage | miles | 1200 | 9342 | 1,247.76 | 1200 | 10,398 | 1247.76 |
| Outside Consultant | days | 2 | 16 | 1,200.00 | 2 | 16 | 1200.00 |
| Book Keeping and Clerical | months | -0- | 7 27/100 | 307.50 | — | 7.27 | 307.50 |
| Bulldozer mobilization | flat | -0- | 1.35/2 | 135.00 | — | 0.5 | 50.00 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | 1,239.50 | | | 1234.00 |
| TOTAL TO DATE (per MME Form 60) | | | | $61,851.35 | | | 61,722.51 |

REMARKS

(Continue on back)

REMARKS

Disallow 5 assays for silica $25.00 Rmk.

(Continue on back)

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

Date Sept. 5, 1967 Operator Big Treasure Mining and Development Co.

Per David H. Kimball Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date Sept. 15, 1967

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

**BIG TREASURE** *Mining and Development Company*

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

September 5, 1967

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60, "Operator's Monthly Voucher" and MME Form 61, "Operator's Progress Report." This letter constitutes our "Narrative Report." These three reports cover our operations during the month of July, 1967.

Mr. Donald H. Jardine, our geologist-engineer on the property spent the first portion of the month evaluating and re-entering the upper portions of the underground workings on the Bluebird vein. Considerable sampling and mapping was carried out. The results of the assays were forwarded to you under separate cover, along with copies of the underground mine and assay maps prepared by Jardine. Arrangements had been made to move in an underground diamond drill on July 17 along with the necessary equipment (including compressor, water line, air line, etc.) but on the evening of July 16th a violent cloudburst washed out portions of the road, rendering it impassable. The equipment was returned to Phoenix and bulldozer work was done during the week to clear the road. The access road was cleared by July 26th and on July 27th the compressor was brought to the property. We received no assistance from Pinal County in clearing the roads. The drilling equipment was moved out on July 28th. July 29th and 30th and 31st were spent in moving the drill into the Adjust Drift, laying water and air pipe, and accomplishing the miscellaneous work preliminary to beginning the drilling of holes 7A and 7B. The drilling began on Monday, July 31st, and continued into August.

Should any questions arise, please feel free to contact me by mail or telephone at any time.

Yours very truly,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Co.

DHK:lc
Enclosures

IN REPLY REFER TO:

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

Office of Minerals Exploration

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 2 1967

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September 29, 1967

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the monthly vouchers for August 1967 on the above-stated subject.

I certify that this account is correct and proper and recommend that payment be made.

R M Smith
for J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

IN REPLY REFER TO:

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

Office of Minerals Exploration

OFFICIAL COPY

September 15, 1967

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the MME Form 60 (Operator's Monthly Voucher), MME 61 (Operator's Progress Report) and Narrative Report for the month of ~~June~~ July ? on the above-stated contract.

I certify that the information is complete and accurate to the best of my knowledge and belief and recommend that payment be made.

R. W. Smith for

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

**BIG TREASURE** **Mining and Development Company**

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

September 5, 1967

OME Region III
RECEIVED
SEP 14 1967
Denver, Colorado

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60, "Operator's Monthly Voucher" and MME Form 61, "Operator's Progress Report." This letter constitutes our "Narrative Report." These three reports cover our operations during the month of July, 1967.

Mr. Donald H. Jardine, our geologist-engineer on the property spent the first portion of the month evaluating and re-entering the upper portions of the underground workings on the Bluebird vein. Considerable sampling and mapping was carried out. The results of the assays were forwarded to you under separate cover, along with copies of the underground mine and assay maps prepared by Jardine. Arrangements had been made to move in an underground diamond drill on July 17 along with the necessary equipment (including compressor, water line, air line, etc.) but on the evening of July 16th a violent cloudburst washed out portions of the road, rendering it impassable. The equipment was returned to Phoenix and bulldozer work was done during the week to clear the road. The access road was cleared by July 26th and on July 27th the compressor was brought to the property. We received no assistance from Pinal County in clearing the roads. The drilling equipment was moved out on July 28th. July 29th and 30th and 31st were spent in moving the drill into the Adjust Drift, laying water and air pipe, and accomplishing the miscellaneous work preliminary to beginning the drilling of holes 7A and 7B. The drilling began on Monday, July 31st, and continued into August.

Should any questions arise, please feel free to contact me by mail or telephone at any time.

Yours very truly,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Co.

DHK:lc
Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

July 28, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 31 1967

| INITIALS | CODE |
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| | 120 S |

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith is an original of the June monthly report (with substantiating documents) and two copies on the above-stated contract.

I certify that the information is complete and accurate to the best of my knowledge and belief and recommend that payment be made.

Also enclosed, please find a letter from Mr. Hansen, dated July 20, 1967 with copies of the following:

1. Generalized cross section of drill holes 7A and 7B
2. Elevation summary
3. Revised lithologic drill hole logs for holes 1, 2 and 3 (the upper portions).

Recommend no [illegible] for 2 [illegible] to August

J. William Hasler
mc

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

8/1/67 RMS.

MME FORM 60
SEPT. 1959

OFFICIAL COPY
O. M. E.
RECEIVED
AUG 16 1967
INITIALS | CODE

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No. 14-23-090-2231
Contract Amount $ 112,000.00
Gov't. Participation % 75 $84,000.00
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER

For Month of JUNE, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield, San Ramon, California 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | $ 1,620.00 | $ 1,620.00 | | | |
| ~~Drilling~~ Water Truck Rental | -0- | 950.00 | 950.00 | | | |
| ~~Core drilling~~ NQ Drilling | -0- | 600.40 | 600.40 | | | |
| ~~Drilling~~ NYWL " | -0- | 2,766.90 | 2,766.90 | | | |
| -500 ft BXWL " | -0- | 22,528.00 | 22,528.00 | | | |
| +500 ft BXWL " | -0- | 11,612.70 | 11,612.70 | | | |
| +1000 ft BXWL " | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: Geologist-Engineer Supervision & Technical | $900.00 | 5,760.00 | 6,660.00 | | | |
| Outside Consultants | 75.00 | 975.00 | 1,050.00 | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing lost in hole | -0- | 536.65 | 536.65 | | | |
| Additives | -0- | 349.42 | 349.42 | | | |
| Core boxes | -0- | 694.00 | 694.00 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | 160.00 | 1,024.00 | 1,184.00 | | | |
| ~~Purchase~~ 4 wheel drive truck mileage | 144.00 | 959.76 | 1,103.76 | | | |
| ~~Depreciation~~ Cementing time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | 78.00 | 975.50 | 1,053.50 | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | 40.00 | 267.50 | 307.50 | | | |
| Bulldozer Mobilization | -0- | 135.00 | 135.00 | | | |
| Water Truck Mileage | -0- | 31.32 | 31.32 | | | |
| TOTALS | $1,397.00 | $58,474.35 | $59,871.35 | | | |

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

Date July 17, 1967 Payee Big Treasure Mining and Development Co.

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 1,047.75 14X0804

Signature [signature]
(Authorized Certifying Officer)

Date AUG 7 1967 Vou. No. 81068
(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2234

Signature J. William Hasler Title Field Officer Date 7/28/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 7/28/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

RECEIVED JUL 1 3 47 PM '67 U.S. GEOLOGICAL SURVEY

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of JUNE, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drilling~~ Casing lost in hole | ft. | -0- | 270 | $ 536.65 | 0 | 270 | 536.65 |
| ~~Coarsecutting~~ Additives | Sacks | -0- | 467 | 349.42 | 0 | 46 | 311.08 |
| ~~Raising~~ Core boxes | Boxes | -0- | 694 | 694.00 | 0 | 694 | 694.00 |
| ~~Stulls~~ Water truck rental | Months | -0- | 5 | 950.00 | 0 | 5 | 950.00 |
| ~~Winzes~~ Water truck mileage | miles | -0- | 261 | 31.32 | 0 | 261 | 31.32 |
| ~~Other Underground~~ Cementing time | Hours | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond N.C. | ft. | -0- | 79 | 600.40 | 0 | 79 | 600.40 |
| ~~Rotary~~ NXWL -500 ft BXWL | ft. | -0- | 401 | 2,766.90 | 0 | 401 | 2,766.90 |
| ~~Drilling, Non-core-Diamond~~ + 500 ft BXWL | ft. | -0- | 3,520 | 22,528.00 | 0 | 3,520 | 22,528.00 |
| ~~Rotary~~ + 1000 ft BXWL | ft. | -0- | 1,683 | 11,612.70 | 0 | 1,683 | 11,612.70 |
| ~~Open~~ | ft. | -0- | 857 | 6,513.20 | 0 | 857 | 6,513.20 |
| Percussion | | | | | | | |
| Miscellaneous Bulldozer | Hours | -0- | 81 | 1,620.00 | 0 | 81 | 1,620.00 |
| Geologist-Engineer | Months | 1 | 7 12/30 | 6,660.00 | 1 | 7 12/30 | 6,660.00 |
| ~~Roads and Trails~~ 4 wheel drive truck rental | Months | 1 | 7 12/30 | 1,184.00 | 1 | 7 12/30 | 1,184.00 |
| ~~Stripping~~ 4 wheel drive truck mileage | Miles | 1200 | 8,142 | 1,103.76 | 1200 | 8142 | 1,103.76 |
| ~~Trenching~~ Outside Consultant | Days | 1 | 14 | 1,050.00 | 1 | 14 | 1,050.00 |
| ~~Test Pitting~~ Bookkeeping and clerical | Months | 1 | 7 27/100 | 307.50 | 1 | 7 27/100 | 307.50 |
| ~~Other Surface Work~~ Bulldozer Mobilization | Flat | -0- | 1.35/2 | 135.00 | 0 | 1.35/2 | 50.00 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | 1,053.50 | | | 1,053.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $59,871.35 | | | 59,748.01 |

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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

Date July 17, 1967 Operator Big Treasure Mining and Development Co.

Per David H. Kimball Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hesler

Title Field Office Government Representative

Date July 29, 1967

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

BUDGET & FINANCE BRANCH
AUG 1 3 47 PM '61
U.S. GEOLOGICAL SURVEY
RECEIVED

P. M. CRISMON, PRES.

# CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

229-231 SOUTH WEST TEMPLE STREET

PHONE 363-7417

P. O. BOX 1708

SALT LAKE CITY, UTAH 84110

## REPORT OF ASSAY

July 14, 1967

Big Treasure Mining & Develppment Co.

WE HAVE ASSAYED YOUR five SAMPLES AND FIND them TO CONTAIN AS FOLLOWS:

| DESCRIPTION | NO. | OZS. GOLD PER TON | OZS. SILVER PER TON | PER CENT LEAD | PER CENT COPPER | PER CENT ZINC | PER CENT INSOL. | PER CENT IRON | PER CENT | VALUE OF GOLD PER TON |
|---|---|---|---|---|---|---|---|---|---|---|
| Special | 3 | 0.05 | 44.75 | | | | | | | $ 1.75 |
| " | 4 | 0.06 | 25.55 | 0.30 | | | | | | $ 2.10 |
| " | 5 | 0.01 | 4.00 | | | | | | | 35¢ |
| " | 6 | 0.02 | 0.50 | | | | | | | 70¢ |
| " | 7 | Trace | 0.60 | | | | | | | |

REMARKS: Copies sent to California and Arizona.

CRISMON & NICHOLS

CHARGES $ 16.50

**BIG TREASURE** *Mining and Development Company*

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

July 18, 1967

OME Region III
RECEIVED
JUL 24 1967
Denver, Colorado

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60, "Operator's Monthly Voucher" and MME Form 61, "Operator's Progress Report." This letter constitutes our "Narrative Report." These three reports cover our operations during the month of June, 1967.

Mr. Donald H. Jardine, our geologist-engineer on the property, spent the month of June evaluating the information from the drilling program to date; sampling underground workings; re-entering, surveying and mapping the underground workings of the Adjust Mine, and preparing maps of the property. Two copies of these maps are enclosed showing the location of samples taken. Also, petrographic thin sections made from drill cores of the sedimentary interval believed to be centered about 250 feet below the adjust level were obtained and studied.

Based on the results of the above work from the latter part of May to the present, we are now prepared to recommend that underground drill holes 7-A and 7-B be drilled as shown on the enclosed map (Figure 1) to intersect the Bluebird Vein at about 250 feet beneath the level of the Adjust tunnel. Examination of drill core from holes 1, 2, 3, 4, and 8 have indicated the presence of a sequence of sedimentary beds interlayered with the volcanic rocks. These sediments consist mainly of interbedded shales and sandstones with two or three conglomerate beds. Also, some of the shaley sandstone intervals contain significant quantites of carbonate.

Detailed evaluation of the drill core and the study of petrographic thin sections made from this interval indicates that sulphide mineralization tends to permeate these beds and migrate along them, indicating that these intervals are particularly favorable for sulfide deposition.

An examination of the graphic log of these holes, which show per cent sulfide in the drill core, also point this out. An explanation for this might be that the sandstones particularly show greater permeability and several per cent porosity, in contrast with the volcanic rocks which typically have low porosity and are relatively impermeable.

An evaluation of the distribution of ore shoots along the Bluebird Vein has indicated that their distribution is somewhat irregular, but they are present on all levels explored thus far. On the level of the Adjust Tunnel (Silver King drift) two main ore shoots are present in the cross drifts and are marked by old stopes. One of these is situated from about 10 to 120 feet along the east drift from the Adjust tunnel, and the other is centered about 40 feet to the West, along the west drift. The vein at this level (about 450 feet below the surface outcrops) is still strong, even though the ore shoots do not have great length. It is proposed that holes 7-A and 7-B be drilled from the adjust cross-cut about 145 feet toward the portal from the intersection with the vein. The recommended angle of inclination of the holes is 60 degrees from the horizontal, with the holes spread about 30 degrees apart in direction as shown on the enclosed map. These holes should each intersect the Bluebird Vein at a depth of about 250 feet (which is the approximate mid point of the most favorable lithology) at the downward projection of the ore shoots from the Adjust tunnel level. The angle of inclination of 60 degrees is selected for the following reasons: (1) The holes will be a minimum distance from the vein as they transect the favorable sedimentary rocks; (2) A minimum hole depth will be required to reach the vein intersection with the most favorable lithology; and (3) The vein will be intersected at about 30 degrees, which will give a longer core sample from the vein interval.

On July 17, 1967 (Monday) arrangements were made with Boyles Bros. Drilling Co. to move in a compressor (size 600) and underground drilling equipment. Unfortunately, when Boyles Bros. arrived in Winkelman in the morning with the equipment, it was learned that on Sunday night a severe cloudburst had washed out substantial portions of the access road on the mine property, as well as portions of the county road leading to the mine area. The road was rendered virtually impassable by the storm, access being gained to the property on Monday only with considerable difficulty with a four-wheel drive Dodge Power Wagon. The Pinal County Road Commission has been contacted with the request that they make every possible effort to reopen the County road to the property area, and arrangements are being made to bring a bulldozer to the property to reopen the damaged access roads there. Every effort will be made to minimize the delay in carrying out this portion of the exploration program.

On July 5 you requested by telephone that we provide you with supplementary data regarding our need for additional time to carry out the exploration specified in the contract. Our original time estimates were based on completing the project in twelve months. The contract date was October 12, 1966, but an initial delay of nearly two

months was involved resulting from our legal review, making arrangements with contractors, etc. before the actual work could begin. The surface drilling proceeded at about the expected rate, however, shortage of crews, and equipment availability problems necessitated the reduction of effort from two shifts per day to one shift during part of the drilling, and some delay resulted. With the completion of the surface drilling about May 15, we have been evaluating the information obtained from this phase of the exploration program in order to permit us to take maximum advantage of the remaining drilling. This evaluation was expected to last three to four weeks. Unfortunately, it took an additional three to four weeks before arrangements could be made with equipment rental companies and Boyles Bros. to actually begin the work. Additional delay was caused yesterday as result of the cloudburst wash out of the roads on and leading to the property. With regard to the cloudburst, we feel very fortunate that the equipment was not situated such that it was washed away by the flooding. Had the cloudburst occurred twelve hours later, the result could have been substantial loss and damage to equipment.

Even with the above mentioned delays, we have re-evaluated the amount of time that will be required to finish the contract, and we would like to request that the contract be extended only to the end of October, 1967. Since the date of the original contract was October 12, this involves only a 19 day extension. Our best estimates now are that the underground drilling cannot begin before about the first of August, since it will take that long to repair the roads and get the equipment back in. The extension to the end of October will give us 90 days (the months of August, September, and October) to complete the contract. We feel that this is reasonable, and are confident that the work can be completed in this time. We would like to request also that we be permitted to transfer unused funds from other items of the contract to permit us to do the following: (1) Retain our supervisor-engineer-geologist through the end of October (this represents an additional 3 and 18/30 months at the rate of $900 per month); (2) Continue renting the four-wheel drive vehicle (with a mileage allowance of 1200 miles per month through the end of October (an additional 3 and 18/30 months at the rate specified in the contract); (3) Provide for accounting and office expense of $40 per month for an additional three months (through the end of October) (4) Extend the authorization for an outside consultant for an additional twelve days at the rate specified in the contract.

In carrying out the drilling of the underground holes (7-A and 7-B) as authorized in Contract Amendment No. 1, dated January 12, 1967, we will need authorization to do the following:

(1) Pay rental for a maximum of three months on the 600 compressor needed to provide air for the underground drilling. A suitable compressor is available from Equipment Sales Company at 720 South 19th Avenue, Phoenix at $700 per month. Transportation charges to and from the property are $100 each way.

(2) Purchase the necessary diesel fuel and lubricating oil for operation of the compressor (estimated at two hundred forty gallons of diesel fuel per week at a cost of twenty-two cents per gallon delivered, and one case each of lubricating and compressor oil per week, at a cost of $10.40 per case--for twelve weeks).

(3) Rent 700 feet of air and water line from Boyles Bros. at $10.80 per hundred feet per month for air line, and $5.40 per hundred feet per month for water line. This will be needed for a maximum of three months.

(4) Pay a drill mobilization charge of $200 to Boyles Bros.

(5) Pay for installing air and water lines and "drill set up" at $11.50 per hour (the crew to be furnished on a contract basis by Boyles Bros.) for a maximum of forty hours.

Adequate provision remains in the contract for water truck rental (if it is required) and such drilling contingency items as additives, casing, and cementing time.

Since this underground drilling is being performed in lieu of surface drilling originally specified in the contract, we would like to be permitted to transfer unused funds from the core drilling category, and use these funds for the purposes set forth above. We understand that this transfer of funds between categories and the proposed amendments will not change the total cost of the contract, nor the aggregate amount the Government will contribute. The location of holes 7-A and 7-B as outlined above are covered by the provisions of Amendment No 1, dated January 12, 1967: The main purpose for the above request is to permit us to utilize funds from the surface core drilling category to carry out the specified work authorized by this earlier amendment.

In view of the shortness of time remained to us before the end of the contract period, we would like to proceed as rapidly as arrangements can be made with regard to road repair, and movement of equipment to the property. We will appreciate your prompt consideration of the above requests, and will be grateful if you will contact us by telephone at the above number as soon as you have had opportunity to consider the aobve contract modifications.

It is our opinion that the best possibility of discovering substantial reserves of silver ore on the property will be investigated by the drilling of holes 7-A and 7-B as outlined. This opinion is substantiated by the results from diamond drilling to date from the surface, geological mapping, and our sampling program.

Enclosed are prints of two maps of the property we recently completed, along with assay sheets, and receipts resulting from our performance of work under the contract during the month of June.

Should any questions arise, please feel free to contact me by mail or telephone at any time.

Yours very truly,

David H. Kimball, President
Big Treasure Mining and Development Co.

DHK:lc

Enclosures

IN REPLY REFER TO:

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

Office of Minerals Exploration

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 23 1967

| INITIALS | CODE |
|---|---|
| gla | 120 M |
| JEN | 110 |
| RMS | 120 S |

June 19, 1967

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract No. 2231

Transmitted herewith are two reports of assay from Crismon & Nichols, the first sheet for thirty-one samples and the second sheet marked "Special", on the above-mentioned contract.

J. William Hasler

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

attach to May voucher
RMS,

ASTO P. M. CRISMON ORRIN FISHER HAROLD E. CULVER

# CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

PHONE EM 3-7417 239-231 SOUTH WEST TEMPLE STREET P. O. BOX 1708

## REPORT OF ASSAY

SALT LAKE CITY, UTAH May 23, 1967

Big Treasure Mining & Development Co.

WE HAVE ASSAYED YOUR thirty-one SAMPLES AND FIND them TO CONTAIN AS FOLLOWS:

| DESCRIPTION | NO. | OZS. GOLD PER TON | OZS. SILVER PER TON | PER CENT LEAD | PER CENT COPPER | PER CENT ZINC | PER CENT INSOL. | PER CENT IRON | PER CENT | VALUE OF GOLD PER TON |
|---|---|---|---|---|---|---|---|---|---|---|
| SM-9 | 1 | Trace | Trace | | | | | | | |
| -"- | 2 | Trace | Trace | | | | | | | |
| -"- | 3 | 0.05 | Trace | | | | | | | $ 1.75 |
| ADJ-2-E | 1 | 0.02 | 7.40 | | | | | | | 70¢ |
| -"- | 2 | 0.01 | 2.80 | | | | | | | 35¢ |
| -"- | 3 | 0.01 | Trace | | | | | | | 35¢ |
| -"- | 4 | 0.01 | 0.50 | | | | | | | 35¢ |
| -"- | 5 | 0.01 | 2.00 | | | | | | | 35¢ |
| -"- | 6 | 0.02 | 13.40 | | | | | | | 70¢ |
| -"- | 7 | Trace | 6.80 | | | | | | | |
| -"- | 8 | Trace | 0.40 | | | | | | | |
| -"- | 9 | Trace | 0.20 | | | | | | | |
| ADJ-2-W | 1 | Trace | Trace | | | | | | | |
| -"- | 2 | 0.02 | 0.80 | | | | | | | 70¢ |
| -"- | 3 | Trace | 0.40 | | | | | | | |
| -"- | 4 | Trace | 0.80 | | | | | | | |
| -"- | 5 | 0.01 | 4.20 | | | | | | | 35¢ |
| -"- | 6 | Trace | 0.20 | | | | | | | |
| -"- | 7 | Trace | 0.20 | | | | | | | |
| -"- | 8 | Trace | Trace | | | | | | | |
| -"- | 9 | Trace | Trace | | | | | | | |
| -"- | 10 | 0.01 | 0.60 | | | | | | | 35¢ |
| -"- | 11 | Trace | Trace | | | | | | | |
| -"- | 12 | Trace | Trace | | | | | | | |
| -"- | 13 | Trace | Trace | | | | | | | |
| -"- | 14 | Trace | 0.50 | | | | | | | |
| -"- | 15 | Trace | 0.20 | | | | | | | |
| -"- | 16 | 0.02 | 4.60 | | | | | | | 70¢ |
| -"- | 17 | Trace | Trace | | | | | | | |
| -"- | 18 | 0.01 | 0.20 | | | | | | | 35¢ |
| -"- | 19 | Trace | Trace | | | | | | | |

OME Region III RECEIVED JUN 19 1967 Denver, Colorado

REMARKS:

CHARGES $ 93.00

CRISMON & NICHOLS

BY P. M. Crismon

P. M. CRISMON, PRES.

# CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

PHONE 363-7417 — 229-231 SOUTH WEST TEMPLE STREET — P. O. BOX 1708

## REPORT OF ASSAY

SALT LAKE CITY, UTAH 84110 May 23, 1967

Big Treasure Mining & Development Co.

WE HAVE ASSAYED YOUR one SAMPLES AND FIND it TO CONTAIN AS FOLLOWS:

| DESCRIPTION | NO. | OZS. GOLD PER TON | OZS. SILVER PER TON | PER CENT LEAD | PER CENT COPPER | PER CENT ZINC | PER CENT INSOL. | PER CENT IRON | PER CENT | VALUE OF GOLD PER TON |
|---|---|---|---|---|---|---|---|---|---|---|
| Special | 1 | 0.19 | 48.80 | | | | | | | $ 6.65 |

OME Region III RECEIVED JUN 19 1967 Denver, Colorado

REMARKS:

CHARGES $ 3.00

CRISMON & NICHOLS

BY Crismon

IN REPLY REFER TO:

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

**Office of Minerals Exploration**

June 16, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 19 1967

| INITIALS | CODE |
|---|---|
| | 120 |
| | 110 |
| | 120 S |
| | |
| | |

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and Narrative vouchers with supporting documents for the month of May, 1967.

I certify that the information is complete and accurate to the best of my knowledge and belief, and recommend that payment be made.

J. William Hasler

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

6/19/67 RMS

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
O. E. RECEIVED
JUN 26 1967
MINERALS CODE

Docket No. OME 6548
Contract No.
14-23-090-2231
Contract Amount $12,000.00
Gov't. Participation 75 84,000.00
Mineral(s) Silver

# OPERATOR'S MONTHLY VOUCHER For Month of May, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | $1,620.00 | $1,620.00 | | | |
| ~~Drilling~~ Water Truck Rental | $190.00 | 760.00 | 950.00 | | | |
| ~~Core Drilling~~ NC Drilling | -0- | 600.40 | 600.40 | | | |
| ~~Drilling~~ NX WL | -0- | 2,766.90 | 2,766.90 | | | |
| -500 Ft. BX WL | 1,984.00 | 20,544.00 | 22,528.00 | | | |
| +500 Ft. BX WL | 828.00 | 10,784.70 | 11,612.70 | | | |
| +1000 Ft. BX WL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: Geologist-Engineer | | | | | | |
| Supervision & Technical | 900.00 | 4,860.00 | 5,760.00 | | | |
| Outside Consultants | 150.00 | 825.00 | 975.00 | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing lost in hole | 29.20 | 507.45 | 536.65 | | | |
| Additives | -0- | 349.42 | 349.42 | | | |
| Core Boxes | 45.00 | 649.00 | 694.00 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | 160.00 | 864.00 | 1,024.00 | | | |
| 4 Wheel Drive Truck Mileage | 144.00 | 815.76 | 959.76 | | | |
| ~~Fuel~~ Cementing Time | -0- | 175.00 | 175.00 | | | |
| ~~Depreciation~~ | | | | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | 99.00 | 876.50 | 975.50 | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | 80.00 | 187.50 | 267.50 | | | |
| Bulldozer Mobilization | -0- | 135.00 | 135.00 | | | |
| Water Truck Mileage | 25.32 | 6.00 | 31.32 | | | |
| TOTALS | $4,634.52 | $53,839.83 | $58,474.35 | | | |

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

Date June 11, 1967 Payee Big Treasure Mining and Development Co.

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$3,475.89 14X0804

Signature [signature]
(Authorized Certifying Officer)

Date JUN 22 1967 Vou. No. 9959

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date 6/16/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 6/16/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts,

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)" followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

JUN 20 1967
5 8 8 8 6 3

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of May, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drilling~~ Casing lost in hole | ft. | 10 | 270 | $ 536.65 | 10 | 270 | 536.65 |
| ~~Concentrating~~ Additives | Sacks | -0- | 46 | 349.42 | 0 | 44 | 311.08 |
| ~~Drilling~~ Core boxes | Boxes | 45 | 694 | 694.00 | 45 | 694 | 694.00 |
| ~~Stamps~~ Water Truck Rental | Months | 1 | 5 | 950.00 | 1 | 5 | 950.00 |
| ~~Wages~~ Water Truck Mileage | Miles | 211 | 261 | 31.32 | 211 | 261 | 31.32 |
| ~~Other Underground~~ Cementing Time | Hours | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond NC | ft. | -0- | 79 | 600.40 | 0 | 79 | 600.40 |
| ~~Rotary~~ NX WL | ft. | -0- | 401 | 2,766.90 | 0 | 401 | 2,766.90 |
| ~~Drilling, Non-core Diamond~~ -500 ft BX WL | ft. | 310 | 3,520 | 22,528.00 | 310 | 3,520 | 22,528.00 |
| ~~Rotary~~ +500 ft BX WL | ft. | 120 | 1,683 | 11,612.70 | 120 | 1,683 | 11,612.70 |
| ~~Other~~ +1000 ft BX WL | ft. | -0- | 857 | 6,513.20 | 0 | 857 | 6,513.20 |
| Percussion | | | | | | | |
| Miscellaneous Bulldozer | Hours | -0- | 81 | 1,620.00 | 0 | 81 | 1,620.00 |
| Geologist Engineer | Months | 1 | 6 12/30 | 5,760.00 | 1 | 6 12/30 | 5,760.00 |
| ~~Rental and Hauling~~ 4 wheel drive Truck rental | Months | 1 | 6 12/30 | 1,024.00 | 1 | 6 12/30 | 1,024.00 |
| ~~Equipment~~ 4 wheel drive Truck mileage | Miles | 1200 | 6,942 | 959.76 | 1200 | 7,998 | 959.76 |
| ~~Elevating~~ Outside Consultant | Days | 2* | 13 | 975.00 | 2 | 13 | 975.00 |
| ~~Text Drilling~~ Bookkeeping and Clerical | Months | 2 | 6 27/100 | 267.50 | 2 | 6 27/30 | 267.50 |
| ~~Other Surface Work~~ Bulldozer Mobilization | Flat | -0- | 1.35/2 | 135.00 | 0 | 1/2 | 50.00 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | 975.50 | | | 975.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $58,474.35 | | | $58,351.01 |

REMARKS

* This includes bookkeeping and clerical for both April and May. The April bill was received too late to include on the April voucher.

(Continue on back)

REMARKS

(Continue on back)

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

Date June 11, 1967 Operator Big Treasure Mining and Development Co.

Per [signature] Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date June 16, 1967

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

JUN 20 1 59 PM '69
BUDGET & FINANCE
SURVEY
588863

BIG TREASURE Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

June 11, 1967

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MME Form 60 "Operator's Monthly Voucher" and MME Form 61 "Operator's Progress Report." This letter constitutes our "Narrative Report." These three reports cover our operations during the month of May, 1967.

During this month, Drill Hole 9 was completed to a depth of 620 feet, on May 15th. Mr. Ron Janc left our employ at the end of April, and supervision of the project was taken over by Mr. Donald H. Jardine. Mr. Jardine is an Engineering Mine Geologist with considerable experience in development of underground precious metal properties, both in his native Canada and in the Western United States. After meeting Mr. Jardine, I am sure you will agree with us that we are very fortunate to have him.

We have chosen to spend the latter portion of May and as much of the month of June as necessary to re-evaluate the information obtained by our drilling and sampling operations thus far, and to re-enter for mapping and sampling purposes all the workings available to us. Mr. Jardine is now in the process of carrying on this work with considerable success. We have been able to re-excavate the portal to the No. 2 level of the Adjust Mine and are surveying and sampling the workings on this level. One of the old maps of the Adjust Mine (included with the original application materials) shows considerable mineralization of ore grade on this level. We have also been able to gain access to all the important workings of the "Little Treasure" mine.

We feel it is very much to the advantage of the project to carry on this work at this time in order to derive maximum advantage from the drill footage remaining to us in the contract, and to consolidate the data obtained thus far. We wish to delay our recommendations regarding the remaining drill footage until the present sampling and re-evaluation work is completed.

Summarized below is our performance under the contract to date.

(1) Total footage allowed----10,000 feet

(2) Footage drilled to date:

| Hole No. | Feet | Date Completed |
|---|---|---|
| 1 | 746 | 1-20-67 |
| 2 | 600 | 2-3-67 |
| 3 | 1857 | 4-1-67 |
| 4 | 700 | 1-3-67 |
| 5 | 757 | 12-12-66 |
| 6 | 601 -600 | 2-20-67 |
| 7A | Not yet drilled | |
| 7B | Not yet drilled | |
| 8 | 660 | 4-6-67 |
| 9 | 620 | 4-15-67 |
| | 6541 | |

Total footage drilled 6,541 feet

Government participation (including the enclosed May reports) has been requested for 6,530 feet, leaving 3,470 feet remaining in the contract.

Our costs, however, have been running somewhat below those allowed in the contract, with a total to date of $58,474.35 out of total allowable costs of $112,000. In other words we have accomplished more than 65 per cent of the drilling with only approximately 52 per cent of the total allowable costs. Much of this cost reduction has resulted from the excellent work of our drilling contractors, Boyles Bros, who have required only minimum costs for replacement of lost casing, reaming, cementing and redrilling, and additives. Of course, we have not as yet drilled holes 7A and 7B, nor have we prepared the underground station for these holes as allowed for in amendment No. 1 (January 12, 1967).

It is clear at this time, however, that our original estimate of time required to complete the project was inadequate. We therefore request that the completion date be extended from October 12, 1967 for 6 months to April 12, 1968. We are also finding that the 8 months (Stages I and II combined) for a supervisor-geologist-engineer will not be adequate to provide supervision to the end of the contract.

With the additional time required to complete the project, we therefore request that an amendment be executed granting this time extension and permitting our retention of: (1) A supervisor-geologist-engineer for an additional 6 months; (2) Rental for a 4-wheel drive vehicle and mileage (1,200 miles per month) for this six month period; (3) Accounting and office expense of $40 per month for an additional six months; and (4) An extension of the authorization for an outside consultant for an additional 12 days (an average of 2 days per month) during this six month extension period. We understand that this proposed amendment will not change the total cost of the contract, nor the aggregate amount which the government will contribute.

The results of drilling to date, favorable assay reports being obtained from our present systematic re-opening of formerly inaccessible underground workings, and our mapping and sampling program are indicative of reserves of minable silver ore. Also, the upward movement of the price has improved the economic outlook for silver, and will have a substantial effect on the lower cut-off grade of minable ore.

Enclosed are copies of receipts and statements resulting from our performance under the contract during May. Also enclosed are two copies of the assay report from the group of samples taken during the latter part of May.

Should any questions arise on any of the above material, please feel free to contact me by mail or telephone at any time.

Yours very truly,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Co.

DKH:lc

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

May 23, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 24 1967

| INITIALS | CODE |
|---|---|
| | 110 |
| | 110 |
| | 120 |

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME ~~6458~~ 6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Report of Interim Inspection

An interim inspection was made on the subject property April 20, 1967, in company with Mr. Spenst Hansen and Mr. Ronald A. Janc.

A letter from the operator dated April 8, 1967, accompanying the operator's monthly progress reports and vouchers noted as Appendix A, explains the fact that results of a recent survey the operator conducted of the Silver King Drift, and the exposures of the Blue Bird vein shows that the vein was intersected about 150 feet from the drift face and plots almost directly below the surface exposure of the Blue Bird vein. Since conducting the survey, the applicant has made an effort to re-enter the workings on this vein from the Silver King drift and has been partially successful. During an interim inspection, it was ascertained that the Blue Bird vein has been mined from the Silver King drift for a distance of a minimum of 130 feet to the west for a width of about 6 feet in places, and that some stoping has been done eastward for a distance from 60 to 80 feet. Stopes as long as 30 feet from 3 to 5 feet in width have been observed. The sample taken across the vein 75 feet east of the Silver King crosscut assayed 32.75 oz. silver and 0.03 gold. There is considerable water lying in the workings and it was also ascertained that there has been a winze on the Blue Bird vein in the east drift however, the winze was full of water and it could not be determined as to how deep the vein had been worked below this level. The vein to the west is caved full at approximately 130 feet from the Silver King drift making it impossible to further examine the westerly extent of the work on the Blue Bird vein from the Silver King level.

In the light of the most recent information established from the detailed survey the operator requests drilling two holes: hole 7-A is designed to be drilled in the direction S. 10° E. at an inclination of -45°. This hole will intersect the downward projection of the Blue Bird vein about 250 feet below the Silver King level and at a total length of approximately 350 feet. He also requests that the depth of the hole should be specified at 425 feet to allow for unexpected variation in vein dip. Hole No. 7-B is requested to be drilled from the same station S. 20° W. at an inclination of -45°. The operator states that because of the variation in the strike of the vein this drill hole should intersect the vein at a depth of about 300' below the lowest Silver King workings. The proposed hole length at the vein intersection would be about 425 feet. He estimates that drilling however, an additional 75 feet to insure the vein will be intersected in the event of an unsuspected variation in strike or dip.

The exploratinn program insofar as the Blue Bird Vein is concerned now appears to take on a completely different aspect in view of the fact that the proposed drilling from the Silver King tunnel was proposed to explore for the Blue Bird Vein in which the schematic cross section showed the vein to project, from the surface, to approximately 150' beyond the present face of the Silver King crosscut. This means now, that the Blue Bird vein has been discovered and mined even though prior to the present operator's application for request work on OME assistance. In a discussion with the operator he was advised that the extent of the Blue Bird vein workings from the Silver King drift should be determined and that the vein be thoroughly sampled and assayed to ascertain its potential as far as silver-bearing ore is concerned. It is felt that his request for two holes to penetrate the Blue Bird vein at depth from the Silver King drift does not appear warranted at this time. However, I would recommend that possibly one down hole be drilled from the Silver King drift on the same bearing as the Silver King drift. It could be drilled at a -45° angle in order to penetrate the vein at 250' below the present workings. This I believe would be a fair exploration proposal at this time.

The operator is presently sampling the Blue Bird vein on the Silver King level, and informed us that he would open up the Western portion of the vein from the caved area and attempt to determine the most westerly extent of the vein as well as eastward extent, and to unwater the winze to determine how deep the Blue Bird vein has been mined below this level.

It was thought possibly some of the funds remaining on the contract, could be converted to some exploration on the vein at an estimated cost of approximately $30,000.00. However, since the contract is primarily a drilling contract it would be best not to consider this proposal at this time.

A letter, noted "Appendix B", dated April 8, 1967, informs us that drill hole No. 6 failed to penetrate the expected vein projection but instead penetrated a microdiorite intrusive body which apparently terminates the Treasure vein system on the northeast. The production history of the

Little Treasure Mine, and the fact that the Little Treasure is a continuation of one of the vein systems exposed to the southwest on the Big Rock property indicates that further efforts to explore this vein system below the level of the existing workings is justified. Gold assay maps in the operator's possession indicates that values as high as 99 ounces of silver per ton came from the main level of the Little Treasure drift. The operator therefore proposes that drill hole No. 9, shown on Figure B-1 be drilled to penetrate the Little Treasure vein at a depth of some 500' below the Little Treasure workings. Hole No. 9 drilled on a bearing of N. 50° W. at an inclination of -25° should miss the microdiorite intrusive because of the nature of the terrain it is not practicable to move the drill hole No. 9 station further up the hill. It is believed that this is wise exploration and it is recommended that the operator be given permission to complete proposed diamond drill hole No. 9 as requested. started Apr. 22

A letter dated April 8 from the operator noted "Appendix C" indicates that diamond drill hole No. 4 did not penetrate the mineralized shear zone to test the veins included in the King Chester structure. The operator and the resident engineer were of the opinion that the depth footages indicated on the subject contract were maximum figures and therefore the driller was instructed to stop the hole at 700 feet. This, of course, was a misinterpretation of the contract by the operator; however, he may not have been informed that these footages were only estimates, and he should have drilled the hole deep enough to penetrate the King Chester structure. He now proposes to drill Hole No. 8 which is designed to penetrate the King Chester structure and the associated vein systems, exposed at the surface, at a depth between 200 and 300 feet.

The operator states that considerable time has been in mapping surface exposures of the veins along the King Chester structure system, and in spite of the poor exposures, it appears that these structures may be an easterly extension of the Blue Bird vein system. The mining done at the King Chester vein structure was done during the period from 1900 to 1910 and not during the 1920 - 1930 period.

Diamond Drill Hole No. 4 as drilled encountered no unusual difficulties as it is felt that the operator could re-establish his position on the Diamond Drill Hole No. 4 and extend the hole until it penetrates the King Chester vein structure. It may be wise to do this as he would gain some 700 feet of hole by not having to drill the first portion of Diamond Drill Hole No. 8; however, the proposed collar of the Diamond Drill No. 8 is considerably ahead of collar of Diamond Drill Hole No. 4. So?

It is recommended that the applicant be given permission to either deepen Diamond Drill Hole No. 4 or to drill from newly proposed hole, Diamond Drill Hole No. 8.

J. William Hasler

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

Encl: Appendix A, B, C
B-1 and B-2
C-1 and C-2

Phone F.O. 5/26/67
He will authorize DDH. 4 to 900 feet.

BIG TREASURE

Mining and Development Company

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Appendix A
April 8, 1967

Subject: OME - 6458 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

The results of a survey we recently conducted of the Silver King drift and the surface exposures of the Bluebird vein are summarized on figures A-1 and A-2. This survey disclosed that the Silver King drift intersects the Bluebird vein as indicated by the fact that the vein encountered about 150 feet from the drift face plots almost directly under the surface exposure of the Bluebird vein. Since conducting this survey, we have made an effort to re-enter these workings on this vein structure from the Silver King drift and have been partially successful. These workings are in a very bad state of repair, the timber is rotten and portions of them contain water. Results of our investigation however, substantiate the fact that the vein exposed and developed is probably the Bluebird vein. One three and one-half foot channel sample cut across the vein about 75 feet east of the Silver King ~~tunnel~~ drift assayed 32 ounces of silver.* Several raises and ore shoots are situated along this vein, but no evidence exists that the workings from the Silver King tunnel ever connected with the surface workings on the Bluebird vein.

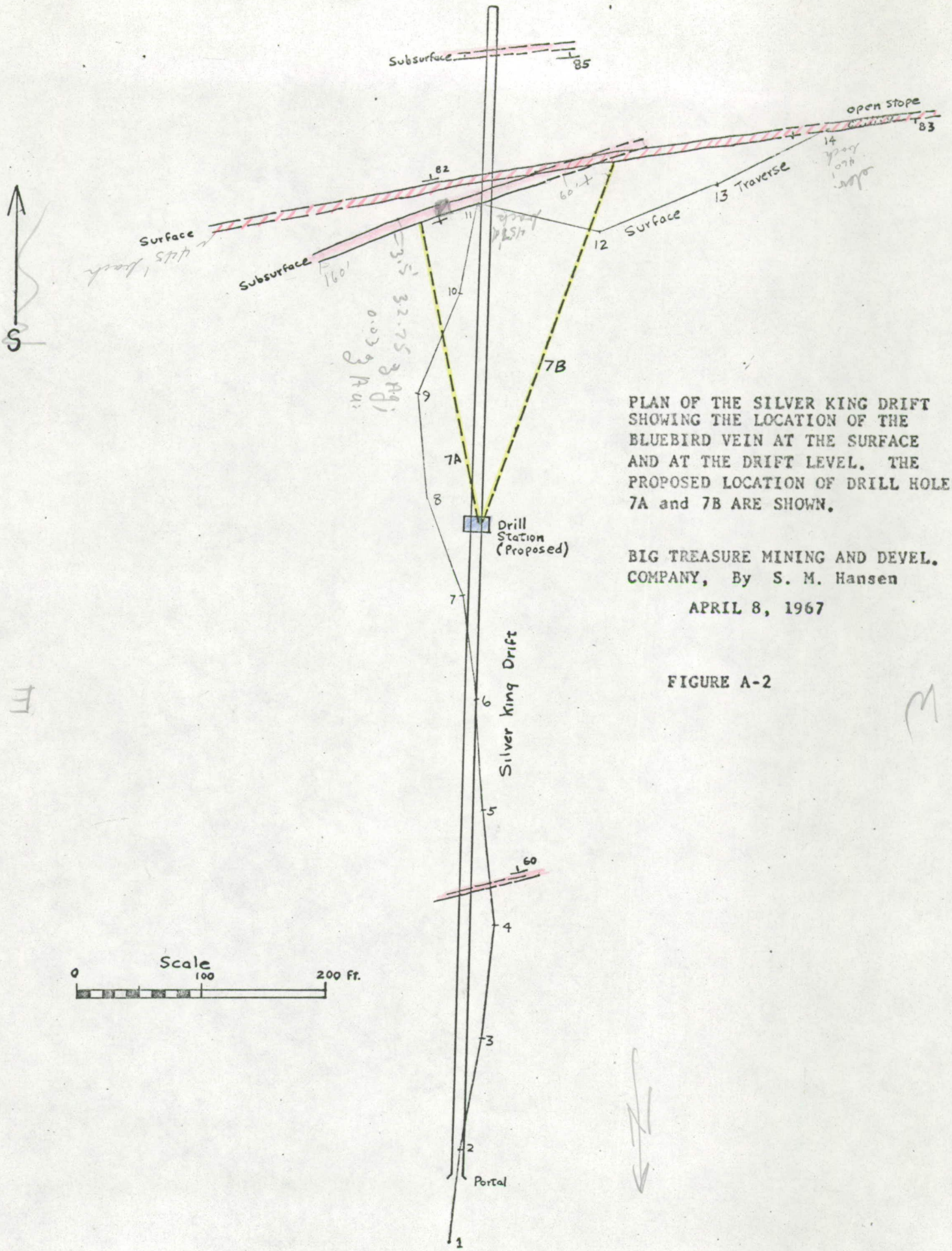
With this information in hand it seems to us that drill hole 7a and 7b can best advance the exploration goals of the project by being drilled as shown on figure A1. This will involve the construction of a station approximately 250 feet toward the portal from the underground intersection of the Bluebird vein. Hole 7a should be drilled in a direction south 10 degrees east at an inclination minus 45 degrees. This hole will then intersect the downward projection of the Bluebird vein about 250 feet below the lowest workings, and at a hole length of about 350 feet. The depth of the hole should be specified at 425 feet to allow for unexpected variations in vein dip.

Hole 7b should be drilled from the same station in a direction south 20 degrees west at an inclination of minus 45 degrees. Because of the variation in the strike of the vein this drill hole should intersect the vein at a depth of about 300 feet below the lowest workings on the vein in this area. The expected hole length at vein intersection should be about 425 feet. However, a hole length of 500 feet should be specified to be sure that vein will be intersected in the event of an unexpected variation in strike or dip.

* SM-20-3, 32.75 oz. Ag, 0.03 oz Au.

It should be emphasized that this Bluebird vein system is the most important silver bearing structure in the district and that a favorable intersection of the vein by holes 7a and 7b will substatially extend the known regions of mineralization. In the meantime, further efforts will be made to enter the partially caved workings from the Silver King drift and maping and sampling will be carried out. It is expected that the minor vein structure shown about 35 feet from the drift face is a parallel vein or a branch of the Bluebird vein. This portion of the property is characterized by series of parallel vein structures. Metal values in the veins consist entirely of unoxidized sulphide. No evidence of oxidized minerals, or secondary enrichment has been noted in either of the veins intersected by the Silver King drift.

In reading amendment number 1 (12 January, 1967) it appears that the requirements of paragraph 2 can be met by drilling holes 7a and 7b as proposed here. It seems to us that an amendment to the contract will not be required, although will be happy to agree to one if in your judgment it is needed. Paragraph 2 of amendment 1 states "In leiu of drilling hole 7a and 7b from the land surface, two holes may be drilled toward the same targets from the adit shown on figure one at inclinations modified to compensate for the different elevation". The target specified originally was the Bluebird vein in the vicinity of 200 to 300 feet below the lowest known workings. This is still our target, although we now have a better understanding of the downward development of the Bluebird vein system. It is clear to us that the drilling of holes 7a and 7b as suggested here will not increase the cost of the contract, and we expect to be able to complete these holes with the funds presently allotted. It may be necessary, however, to shift funds from one category to another in order to allow for the difference in the layout of these two holes.




PLAN OF THE SILVER KING DRIFT SHOWING THE LOCATION OF THE BLUEBIRD VEIN AT THE SURFACE AND AT THE DRIFT LEVEL. THE PROPOSED LOCATION OF DRILL HOLES 7A and 7B ARE SHOWN.

BIG TREASURE MINING AND DEVEL. COMPANY, By S. M. Hansen

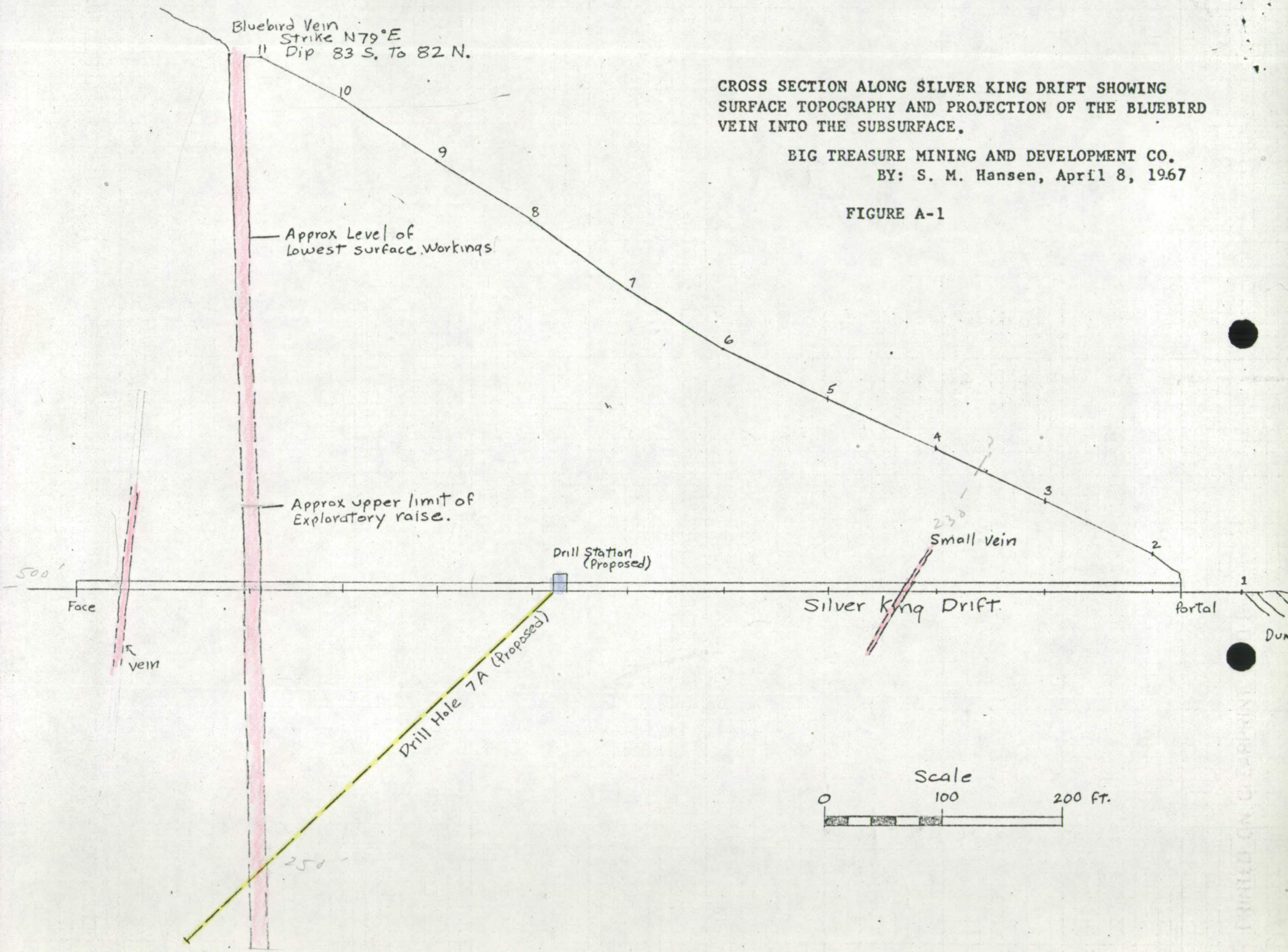
APRIL 8, 1967

FIGURE A-2

CROSS SECTION ALONG SILVER KING DRIFT SHOWING SURFACE TOPOGRAPHY AND PROJECTION OF THE BLUEBIRD VEIN INTO THE SUBSURFACE.

BIG TREASURE MINING AND DEVELOPMENT CO.
BY: S. M. Hansen, April 8, 1967

FIGURE A-1



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Appendix B
April 8, 1967

Subject: OME - 6458 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

The proposed location for drill hole number 9 is shown on figure B-1. Drill hole number 6 failed to encounter the expected vein projection, but instead penetrated a microdiorite intrusive body which apparently terminates the treasure vein system on the northeast. The production history of the Little Treasure Mine, and the fact that the Little Treasure vein probably is a continuation of one of the vein systems exposed to the southwest on the Big Rock property, indicates that further efforts to explore this vein system below the level of existing workings is justified. Old assay maps in our possession indicate values as high as 99 ounces of silver from the main level of the Little Treasure drift. Also, Ross reports the occurrence of wire silver in argentite in this property.

The proposed location for hole number 9 is such that by slight hole drilling both of the major veins exposed in the Little Treasure workings can be encountered. The direction of hole number 9 should permit the microdiorite intrusive penetrated by hole number 6 to be avoided. The veins should be intersected at depths between 250 and 350 feet below their lowest known intersection in the case of the minus 25 degree drill hole inclination.

The projections of minus 25 degree and minus 35 degree drill holes are both clotted, although the minus 25 degree is felt by us to be preferred because of the greater horizonal extension of the hole, and the improved chance of penetrating the vein even though an unexpected variation in vein dip may occur. Because of the nature of the terrane surrounding the drill station, it is not practicable to move drill hole number 9 station further up the hill because of steepness, and lack of loose fill material for construction.

Should the exploration of this region below the presently known occurrences of the vein in the Little Treasure working disclose depth development of these structures, this would substatially approve the known extension of silver mineralization on this property.

BIG TREASURE
Mining and Development Company

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Appendix C
April 8, 1967

Subject: OME - 6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Figures C1 and C2 show the location of the mineralized sheer zone and veins of the King Chester structure. Assays from surface exposures from this vein have shown values as high as seven ounces of silver per ton. The presence of the mine dumps showing considerable mineralized rock, and mine workings on several of the veins within the structure demonstrate the fact that silver is present. The most extensive of the workings is the tunnel shown on figure C-1 which extends to the southeast for more than 200 feet before it becomes inaccessible because of caving.

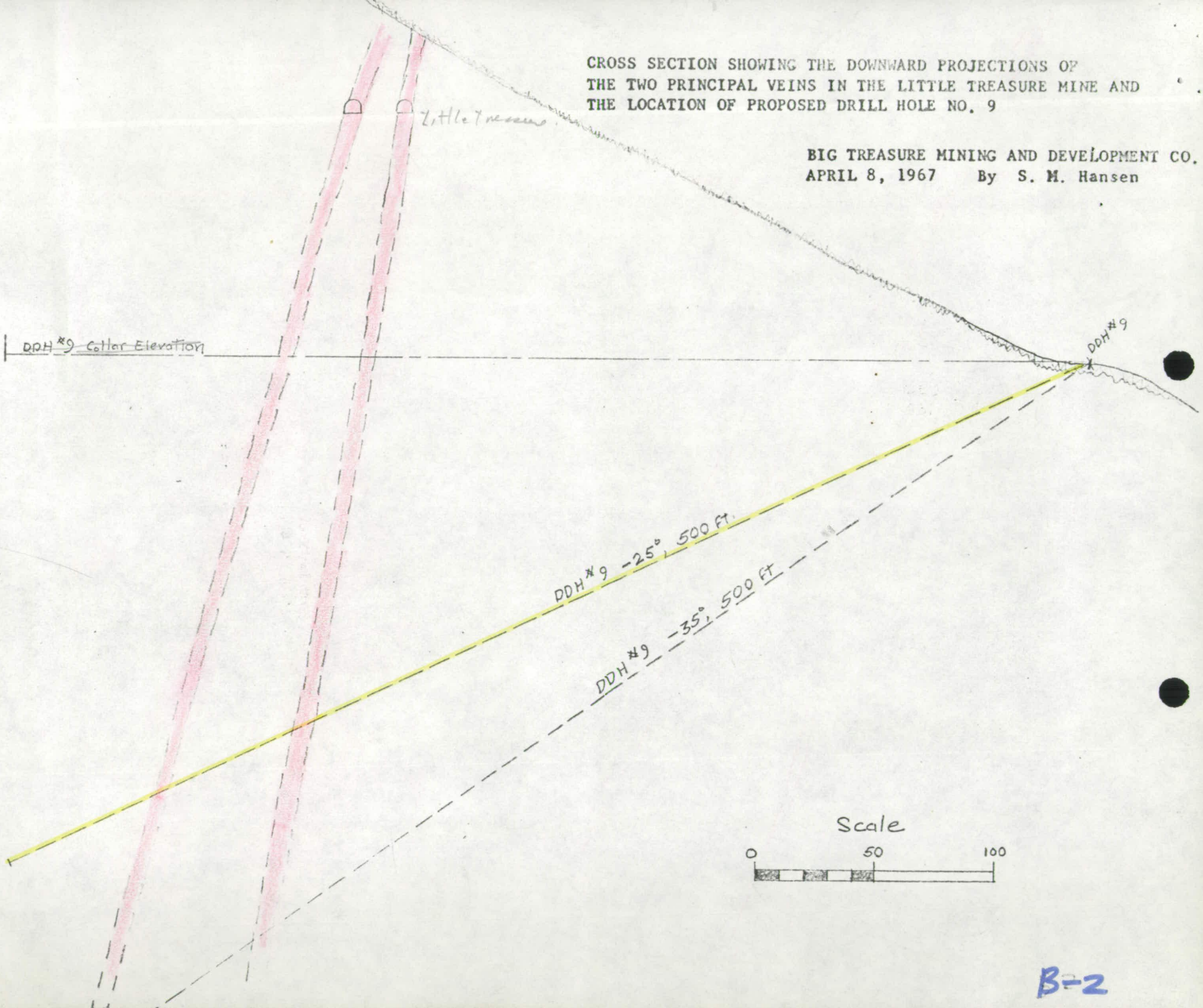
The location of drill hole number 4 is shown on both figures, and the lithology encountered in the hole is drawn in on figure C-2. The reason why drill hole number 4 did not penetrate the mineralized sheer zone is shown in figure C-2. We had originally requested that this hole be drilled 1,000 feet instead of the 700 that was approved. ? However, it should be pointed out, that the penetration of the King Chester structure was not the primary purpose of the hole, and hole number 4 is in good enough condition that it can be re-entered at a later time if necessary. We feel that the best way to explore the parallel veins of the King Chester structure is by drill hole number 8 (shown on figures C-1 and C-2). This drill hole should penetrate the vein systems exposed at the surface at depths of less than 200 to slightly more than 300 feet. From what we have learned about the variable nature of the veins in this area, this is preferred to the extension of drill hole number 4 which would penetrate these veins at depths of 500 or more feet.

Considerable time has been spent in following the surface exposures of the veins in the King Chester structure. In spite of poor exposures in some localities, and structural offsets, it appears highly probable that this structure is the easterly extension of the Bluebird vein system. The work done at the King Chester vein structure on the surface was probably done during the production period of from 1900 to about 1910, and not during the 1920 to 1930 production period during which the Bluebird and Little Treasure Mines were active. This is evidenced

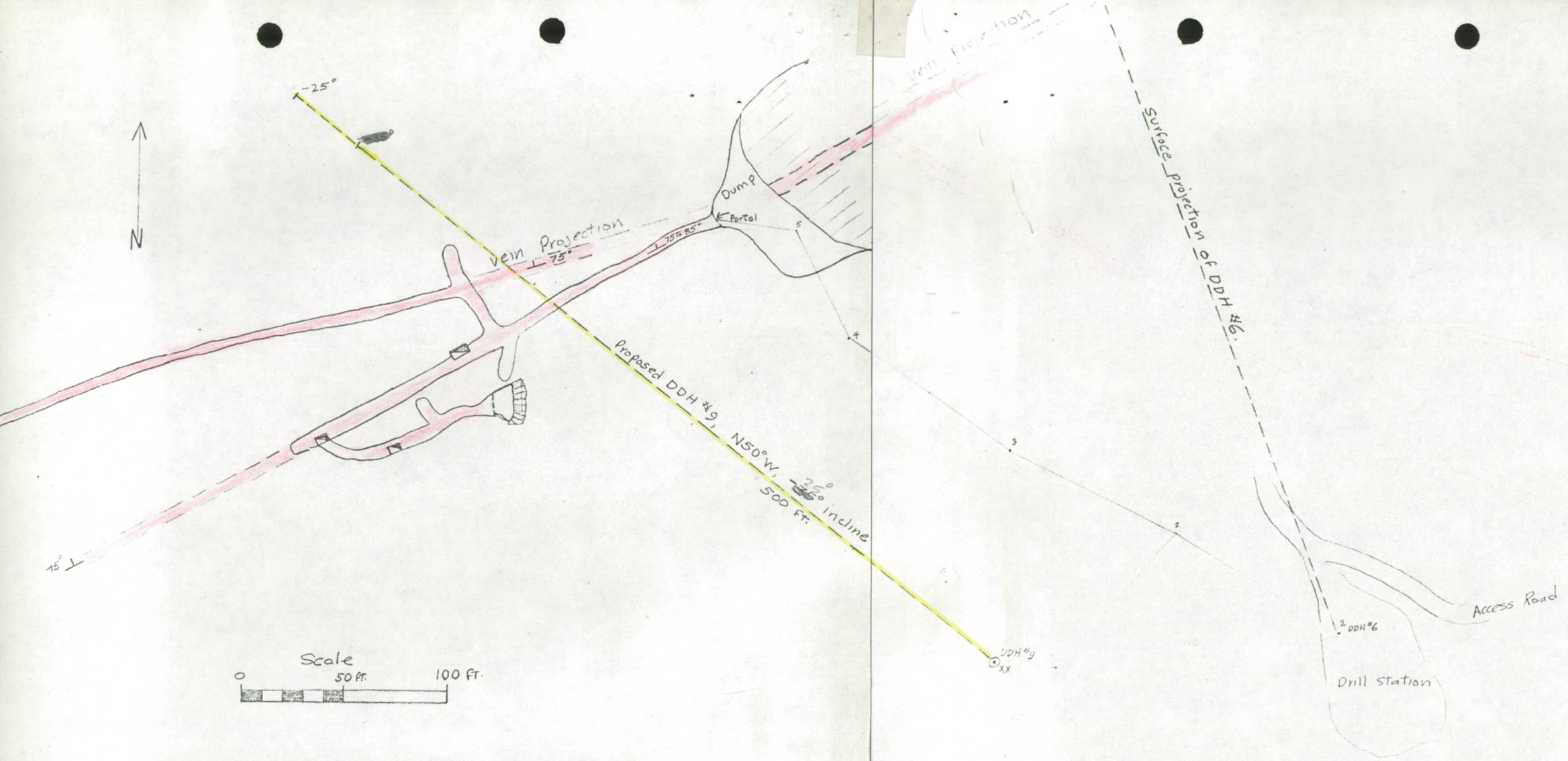
by the fact that the prospect holes seem much older and show more caving. The portal of the main drift was almost completely obscured by the trunk and foliage of a tree. Several days of searching were necessary to find it. The back portions contain from two to three feet of water.

CROSS SECTION SHOWING THE DOWNWARD PROJECTIONS OF THE TWO PRINCIPAL VEINS IN THE LITTLE TREASURE MINE AND THE LOCATION OF PROPOSED DRILL HOLE NO. 9

BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967 By S. M. Hansen




B-2




PLAN SHOWING SOME OF THE WORKINGS OF THE LITTLE TREASURE MINE
AND THE LOCATIONS OF DRILL HOLES 4 and 9 (Proposed).

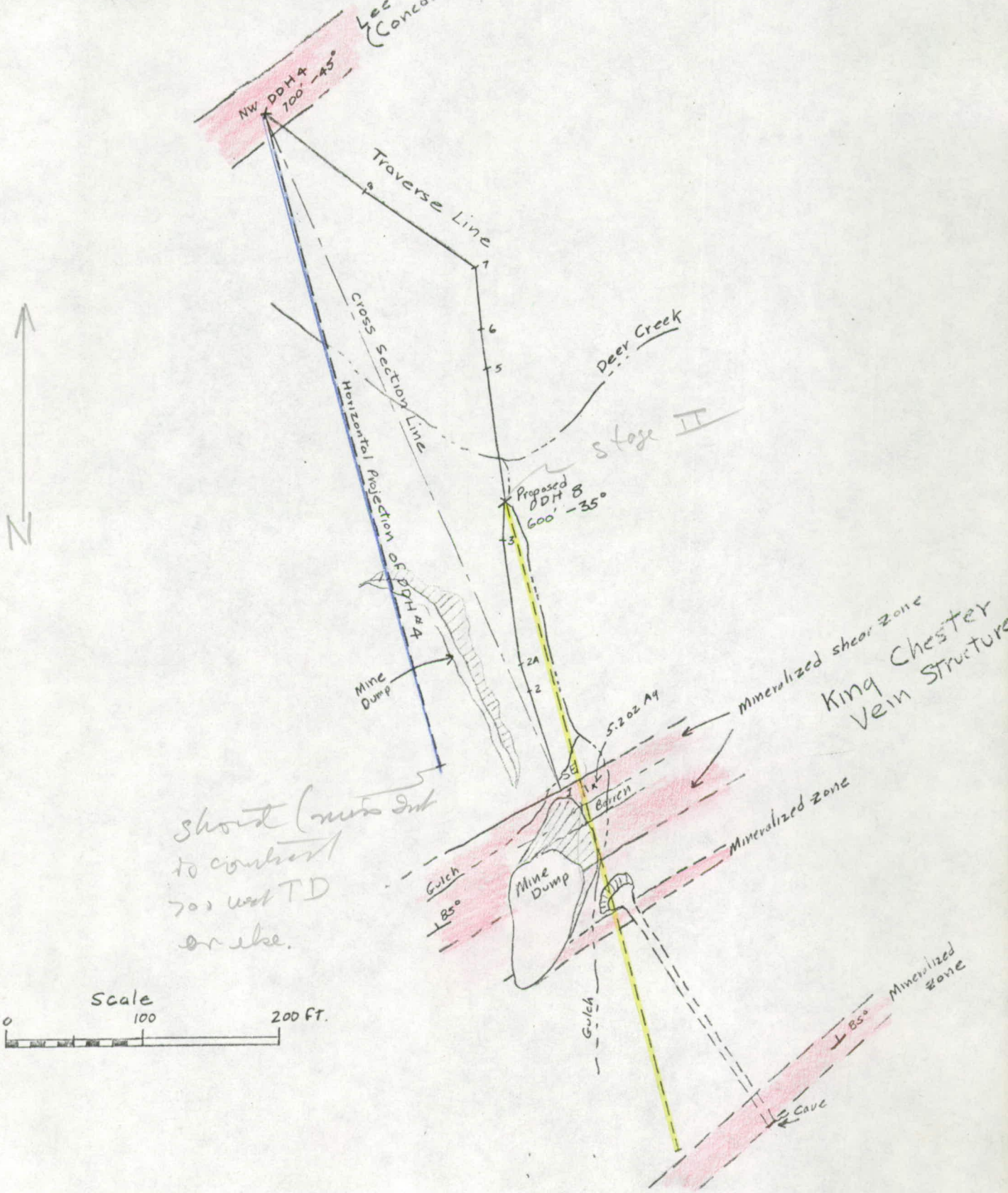
BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967 By S. M Hansen

B-1

PLAN OF KING CHESTER VEIN SYSTEM SHOWING
THE LOCATIONS OF DRILL HOLE 4 AND 8 (proposed)

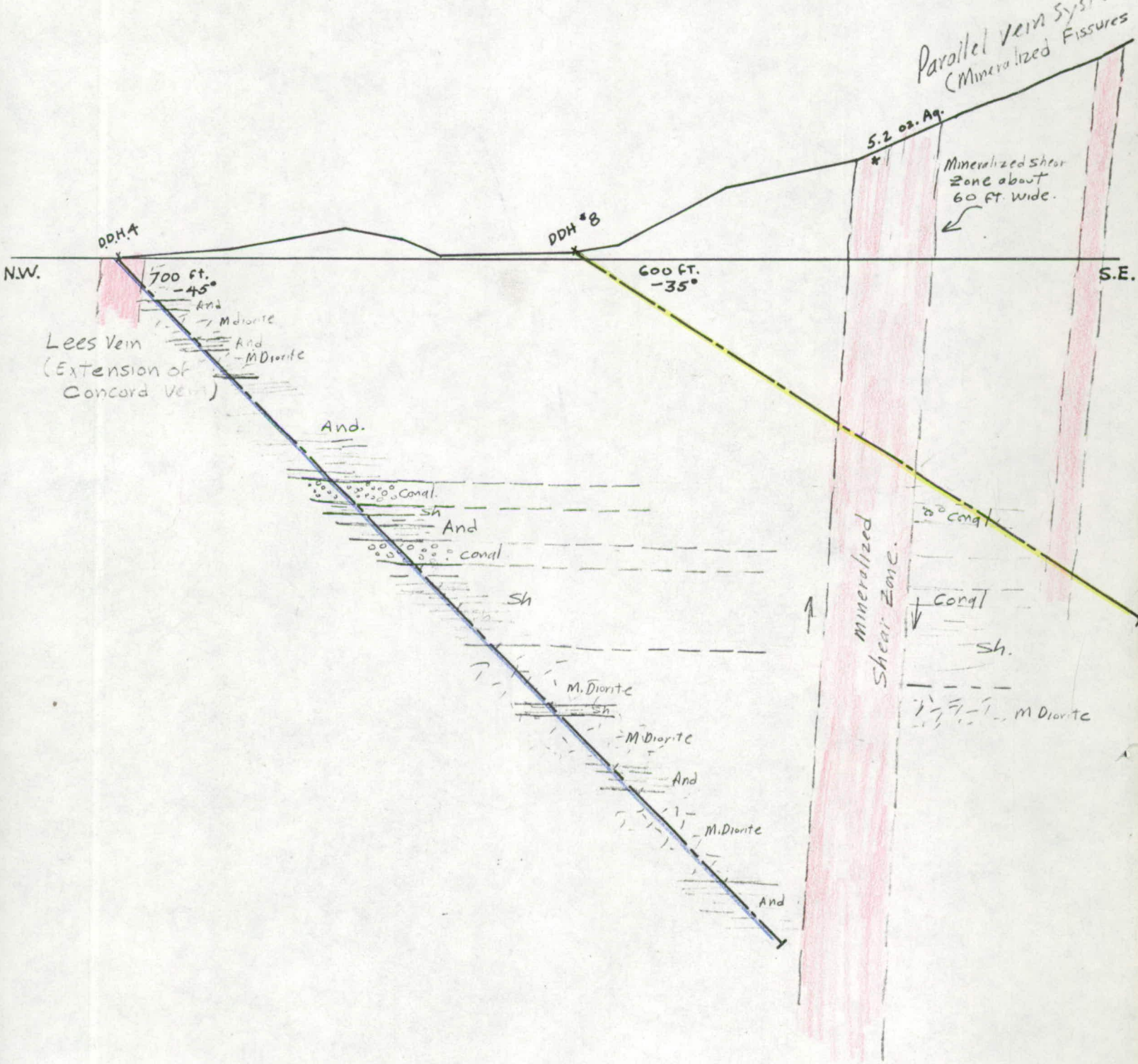
BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967, by: S. M. Hansen

C-1



BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967, by: S M Hansen

CROSS SECTION THROUGH KING CHESTER VEIN SYSTEM SHOWING LOCATION OF DRILL HOLE NO. 4 and LOCATION OF DRILL HOLE NO. 8 (Proposed).




C-2

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

May 19, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 2[illegible] 1967
INITIALS

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and narrative report for April, 1967 on the above-stated contract.

I certify that, to the best of my knowledge and belief, the foregoing are correct and just and recommend that payment be made.

J. William Hasler

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

MME FORM 60
SEPT. 1959

OFFICIAL COPY
M. E.
RECEIVED
JUN 9 1967

5/26/67/RMS

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No.
14-23-090- 2231
Contract Amount $112,000.00
Gov't. Participation % 75 $84,000.00
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER

For Month of April, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield, San Ramon, California

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | $ 1,620.00 | $ 1,620.00 | | | |
| ~~Drilling~~ Water Truck Rental | $ 190.00 | 570.00 | 760.00 | | | |
| ~~Crosscutting~~ NC Drilling | 152.00 | 448.40 | 600.40 | | | |
| Drilling NXWL | 345.00 | 2,421.90 | 2,766.90 | | | |
| -500 ft - BXWL | 14,412.80* | 6,131.20 | 20,544.00 | | | |
| +500 ft - BXWL | 1,104.00 | 9,680.70 | 10,784.70 | | | |
| +1000 ft - BXWL | -0- | 6,513.20 | 6,513.20 | | | |
| (2) Personal Services: | | | | | | |
| Geologist - Engineer Supervision & Technical | 900.00 | 3,960.00 | 4,860.00 | | | |
| Outside Consultants | 225.00 | 600.00 | 825.00 | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing lost in hole | 29.20 | 478.25 | 507.45 | | | |
| Additives | 157.50 | 191.92 | 349.42 | | | |
| Core boxes | 92.00 | 557.00 | 649.00 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive Truck | 160.00 | 704.00 | 864.00 | | | |
| ~~Purchase~~ " Mileage " | 144.00 | 671.76 | 815.76 | | | |
| ~~Depreciation~~ Cementing Time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | 193.50 | 683.00 | 876.50 | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical | -0- | 187.50 | 187.50 | | | |
| Bulldozer Mobilization | -0- | 135.00 | 135.00 | | | |
| Water Truck Mileage | -0- | 6.00 | 6.00 | | | |
| TOTALS | $18,105.00 | 35,734.83 | $53,839.83 | | | |

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

Date May 9, 1967 *Payee Big Treasure Mining and Development Co.

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 13,578.75 14X0804

Signature [signature]
(Authorized Certifying Officer)

Date JUN 8 1967 Vou. No. 9528

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 223

Signature J. William Hasler Title Field Officer Date May 17, 1967

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date May 17, 1967

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

99279

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of April, 1967 Docket No. OME 6548

Operator's Name ~~Big Treasure Mining and Development~~ Co. Contract No. 14-23-090- 2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drifting~~ Casing lost in hole | Ft | 10 | 260 | $ 507.45 | 10 | 260 | 507.45 |
| ~~Crosscutting~~ Additives | Sacks | 21 | 46 | 349.42 | 21 | 44 | 311.08 |
| ~~Raising~~ Core boxes | Boxes | 92 | 649 | 649.00 | 92 | 649 | 649.00 |
| ~~Shafts~~ Water Truck Rental | Months | 1 | 4 | 760.00 | 1 | 4 | 760.00 |
| ~~Winzes~~ Water Truck Mileage | Miles | -0- | 50 | 6.00 | 0 | 50 | 6.00 |
| ~~Other Underground~~ Cementing Time | Hours | -0- | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond NC | Ft | 20 | 79 | 600.40 | 20 | 79 | 600.40 |
| ~~Rotary~~ NXWL | Ft | 50 | 401 | 2,766.90 | 50 | 401 | 2,766.90 |
| Drilling, ~~Non-core Diamond~~ + 500 ft BXWL | Ft | 2,252* | 3,210 | 20,544.00 | 620 | 3,210 | 20,544.00 |
| ~~Rotary~~ + 1000 ft BXWL | Ft | 160 | 1,563 | 10,784.70 | 160 | 1,563 | 10,784.70 |
| ~~Churn~~ | Ft | -0- | 857 | 6,513.20 | 0 | 857 | 6,513.20 |
| Percussion | | | | | | | |
| ~~Miscellaneous~~ Bulldozer | Hrs | -0- | 81 | 1,620.00 | 0 | 81 | 1,620.00 |
| Geologist - Engineer | Months | 1 | 5 12/30 | 4,860.00 | 1 | 5 12/30 | 4,860.00 |
| ~~Roads and Trails~~ 4 Wheel Drive Truck Rental | Months | 1 | 5 12/30 | 864.00 | 1 | 5 12/30 | 864.00 |
| ~~Stripping~~ 4 Wheel Drive Truck Mileage | Miles | 1200 | 5,742 | 815.76 | 1200 | 6,798 | 815.76 |
| ~~Trenching~~ Outside Consultant | Days | 3 | 11 | 825.00 | 3 | 11 | 825.00 |
| ~~Test Pitting~~ Bookkeeping & Clerical | Months | -0- | 4 & 27/100 | 187.50 | 0 | 4 27/100 | 187.50 |
| ~~Other Surface Work~~ Bulldozer Mobilization | Flat | -0- | 1.35/2 | 135.00 | 0 | 1/2 | 50.00 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | 876.50 | | | 876.50 |
| TOTAL TO DATE (per MME Form 60) | | | | $53,839.83 | | | $53,716.49 |

REMARKS

(Continue on back)

REMARKS

(Continue on back)

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

Date May 9, 1967 Operator Big Treasure Mining and Development Co.

Per David H. Kimball Title President

David H. Kimball

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Fisher

Title Field Officer
Government Representative

Date May 17, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

**BIG TREASURE** *Mining and Development Company*

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

May 9, 1967

Mr. J. William Hasler
Field Officer, Region III
U.S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Subject: OMB-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed please find an original and four copies each of MMB Form 60 "Operators Monthly Voucher" and MMB Form 61 "Operators Progress Report". These report forms cover our operations for the month of April, 1967. Each copy is signed, dated and certified to be correct. Work on this contract continued throughout the month of April. During the month of April, Drill hole No. 8 was completed to a depth of 660 feet and Drill hole No. 9 was drilled to a partial depth of 190 feet. Both of these two holes are Stage II drill holes. Mr. Ron Janc, Geologist, remained on the property during the report period for the purpose of supervising the work, logging the core, taking samples and performing the necessary geologic tasks.

Below is given our narrative report of the work performed during the month of April, 1967.

(1) April 1 through April 6. Boyles Brothers drill crews rigged down on DDH No. 3 after completing the hole to a depth of 1,857 feet on April 1st, and moved the drill rig to the station for DDH No. 8. Difficulty was encountered in setting up on the new station because of the broken nature of the rock, and the slowness of setting the "dead men" anchors. During this period Ron Janc mapped and evaluated portions of the underground mine workings, and cut samples for assay.

(2) April 7 through April 17. Drilled DDH No. 8 to the depth of 660 feet, encountering several zones of sulphide mineralization.

(3) April 18 through April 21. The Boyles Brothers drillers completed the move of equipment to the station for DDH No. 9. Mr. J. William Hasler, OMS Field Officer, examined the property on April 20th. Hansen and Janc began underground mapping and sampling on April 21.

(4) April 22 through April 30. Drilling began on DDH No. 9. The hole had reached the depth of 190 feet by the end of April 30th. The drilling effort was reduced to a one shift basis at our request. During this period, considerable geologic work was done both underground and on the surface. Additional geologic interpretations were possible because view of the data obtained as a result of the drilling and sampling programs.

Enclosed are copies of lithologic logs prepared during the month, and assay reports from samples taken. Clarification was obtained from Crismon and Nichols (the assay company) on their charges, and copies of their most recent statement are enclosed. Other receipts and pertinent geologic data are also enclosed.

You will notice that a reclaim is made for footage drilled during December, 1966 and January 1967 in the category of BKWL between the depths of 0 and 500 feet. This category was omitted by mistake in the original contract, but was added by amendment No. 2. The amounts suspended are as follows: December, 1966--- $4,205.00 (disallowed 657 feet);
January, 1967--- $6,240.00 (disallowed 975 feet).

We are therefore claiming this footage which is now allowable. The forms MM60 and MM61 for April have been adjusted to include this footage and costs.

Yours very truly,

David H. Kimball, President
Big Treasure Mining and Development Co.

DHK:lc

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

OFFICIAL COPY
APR 19

April 17, 1967

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and narrative report for March, 1967 on the above-stated contract.

I certify that, to the best of my knowledge and belief, the foregoing are correct and just and recommend that payment be made.

J. William Hasler
mc

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

MEClark/mc/4/17/67

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No. 14-23-090-2231
Contract Amount $112,000.00
Gov't. Participation %75 $84,000.00
Mineral(s) Silver

# OPERATOR'S MONTHLY VOUCHER

For Month of March, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield, San Ramon, California

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | $420.00 | $1200.00 | $1,620.00 | | | |
| ~~Drifting~~ Water Truck Rental | 190.00 | 380.00 | 570.00 | | | |
| ~~Crosscutting~~ NC | -0- | 448.40 | 448.40 | | | |
| Drilling NXWL | 213.90 | 2,208.00 | 2,421.90 | | | |
| -500 ft BXWL | 2,688.00 | 13,888.00 | 16,576.00 | | | |
| +500 Ft. BXWL | 3,450.00 | 6,230.70 | 9,680.70 | | | |
| +1,000 Ft. BXWL | 6,513.20 | -0- | 6,513.20 | | | |
| (2) Personal Services: | | | | | | |
| Geologist - Engineer Supervision & Technical | 900.00 | ~~375.00~~ | ~~600.00~~ | | | |
| Outside Consultants | 225 | | | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing Lost in hole | 29.20 | 449.05 | 478.25 | | | |
| Additives | -0- | 191.92 | 191.92 | | | |
| Core Box | 191.00 | 366.00 | 557.00 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 Wheel Drive truck | 160.00 | 544.00 | 704.00 | | | |
| ~~Purchase~~ " " Mileage | 144.00 | 527.76 | 671.76 | | | |
| ~~Depreciation~~ Cementing time | -0- | 175.00 | 175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | 683.00 | -0- | 683.00 | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Book Keeping and Clerical | 40.00 | 147.50 | 187.50 | | | |
| Bulldozing Mobilization | 35.00 | 100.00 | 135.00 | | | |
| Water truck Mileage | -0- | 6.00 | 6.00 | | | |
| TOTALS | 15,882.30 | 30,297.33 | 46,179.63 | | | |

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

Date 4/10/67 *Payee Big Treasure Mining and Development Co.

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 11,911.73 14X0804

Signature [signature]
(Authorized Certifying Officer)

Date APR 25 1967 Vou. No. 8220

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date 4/16/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 4/16/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)" followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

APR 13 3 59 PM '67
RECEIVED
REGIONAL SURVEY
5 2 6 8 3 6

MME FORM 61
SEPT. 1959

4/19/67/RMS

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of March, 1967 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090- 2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drifting~~ Casing lost in hole | Ft | 10 | 250 | $478.25 | 10 | 250 | 478.25 |
| ~~Crosscutting~~ Additives | Sacks | 0 | 25 | 191.92 | 0 | 23 | 153.58 |
| ~~Raising~~ Core boxes | Boxes | 191 | 557 | 557.00 | 191 | 557 | 557.00 |
| ~~Shafts~~ Water Truck Rental | Months | 1 | 3 | 570.00 | 1 | 3 | 570.00 |
| ~~Winzes~~ Water Truck Mileage | Miles | 0 | 50 | 6.00 | 0 | 50 | 6.00 |
| ~~Other Underground~~ cementing time | Hours | 0 | 14 | 175.00 | 0 | 14 | 175.00 |
| Drilling, Core-Diamond NC | Ft | 0 | 59 | 448.40 | 0 | 59 | 448.40 |
| ~~Rotary~~ NXWL | Ft | 31 | 351 | 2,421.90 | 31 | 351 | 2,421.90 |
| Drilling, Non-core-Diamond 500 BXWL | Ft | 420 | 2,590 | 16,576.00 | 420 | 2,590 | 16,576.00 |
| + 500 To 1,000 ~~Rotary~~ BXWL | Ft | 500 | 1,403 | 9,680.70 | 500 | 1,403 | 9,680.70 |
| + 1,000 Ft. ~~Churn~~ BXWL | Ft | 857 | 857 | 6,513.20 | 857 | 857 | 6,513.20 |
| Percussion | | | | | | | |
| ~~Miscellaneous~~ Bulldozer | Hrs | 21 | 81 | 1,620.00 | 21 | 81 | 1,620.00 |
| Geologist Engineer | Months | 1 | 4 12/30 | 3,960.00 | 1 | 4 12/30 | 3,960.00 |
| 4 wheel drive Truck ~~Roads and Trails~~ Rental | Months | 1 | 4 12/30 | 704.00 | 1 | 4 12/30 | 704.00 |
| 4 wheel drive Truck ~~Stripping~~ mileage | Miles | 1200 | 4,542 | 671.76 | 1200 | 5,598 | 671.76 |
| Outside ~~Trenching~~ consultant | Days | 3 | 8 | 600.00 | 3 | 8 | 600.00 |
| Book Keeping ~~Test Pitting~~ and clerical | Months | 1 | 4 and 27/100 | 187.50 | 1 | 4 27/100 | 187.50 |
| Bulldozer Mobilization ~~Other Surface Work~~ | flat | 35/2 | 1.35/2 | 135.00 | 1/2 | 1/2 | 50.00 |
| Initial Rehabilitation and Repairs | amount | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | 683.00 | | | 683.00 |
| TOTAL TO DATE *(per MME Form 60)* | | | | $ 46,179.63 | | | 46,056.29 |

**REMARKS**

*(Continue on back)*

**REMARKS**

Allow only 50.00 for bulldozer mobilization. Operator can claim $50.00 for demobilization at end of contract. ???

They claim $35.00

RMS

*(Continue on back)*

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

Date April 8, 1967 Operator Big Treasure Mining & Development Co.

Per [signature] Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date April 16, 1967

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

APR 19 3 59 PM '61
RECEIVED
RECORDS MANAGEMENT
5 3 6 8 3 6

# VERN'S AUTO REPAIR
## AND
## SHELL SERVICE

PHONE 356-7796 WINKLEMAN, ARIZONA

CUSTOMER'S ORDER NO. Vern Mank DATE April 1 1967

SOLD TO Pleasure Mining & Developing Company

ADDRESS 125 Sedgefield Court

San Rafael California. C/o P.M. Box SALESMAN 663-Winkelman

| MDSE. SOLD | | | MDSE. RET'D. | | REC'D ON | |
|---|---|---|---|---|---|---|
| CASH | CHARGE | C.O.D. | CASH | CREDIT | ACC'T | NOTE |
| | | | | | | |

| QUANTITY | PARTS NUMBER | DESCRIPTION | PRICE | AMOUNT | |
|---|---|---|---|---|---|
| | | Hauled Dozer From: | | | |
| | | Winkelman To: Deer Creek | | 35 | 00 |
| 21 | Hrs. | @ 20.00 per. | | 420 | 00 |
| | | A/110 BULLDOZER | | | |
| | | 2 | | | |
| | 562 | RECEIVED BY Donald A. Jones. | TOTAL | 455 | 00 |

554 ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

Flatpaksil ® Moore Business Forms, Inc.

SPENST M. HANSEN
125 SEDGEFIELD COURT
SAN RAMON, CALIFORNIA 94583

Date ~~APRIL 8, 1967~~

STATEMENT TO BIG TREASURE MINING AND DEVELOPMENT COMPANY

| INVOICE DATE | INVOICE NO. | | AMOUNT |
|---|---|---|---|
| April 1, 1967 | | BALANCE FORWARD | |
| Rental and mileage of 4 wheel drive International Scout pickup truck for period March 1 through March 31, 1967, in the Saddle Mountain Mining District, Pinal County, Arizona. | | | |
| | | RENTAL (one month at $160.00) | $160.00 |
| | | MILEAGE (1,300 miles at 12¢ per mile) | $156.00 |
| | | TOTAL DUE | $316.00 |

Spenst M Hansen

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

# Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant

1624 Pioneer Road P. O. Box 58 Phone 487-7595

SALT LAKE CITY, UTAH 84110

Cable: BOYLESCO

BRANCH OFFICES
ARIZONA (PHOENIX)
CALIFORNIA (AUBURN
COLORADO (GOLDEN)
NEVADA (SPARKS)
WASHINGTON (SPOKANE
CHILE (SANTIAGO)
CABLE: BOYLESBROS
MEXICO, D.F.
PERU (LIMA)
CABLE: BOYLESCOP

INVOICE DATE: MARCH 31-1967
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 6-426
TERMS: SADDLE MT. AREA
LOCATION: WINKELMAN-ARIZ.

BIG TREASURE MINING & DEVELOPMENT CO
125 SEDGEFIELD COURT
SAN RAMON, CALIFORNIA 94583

| HOLE NO. | FROM | TO | FOOTAGE | RATE | TOTAL |
|---|---|---|---|---|---|
| HOLE #3 | 49' | 80' | 31' NX | 6.90 | 213.90 |
| | 80' | 500' | 420' BX | 6.40 | 2,688.00 |
| | 500' | 1000' | 500' BX | 6.90 | 3,450.00 |
| | 1000' | 1500' | 500' BX | 7.60 | 3,800.00 |
| | 1500' | 1857' | 357' BX | 8.40 | 2,998.80 |
| | | | | SUB TOTAL | 13,150.70 |
| | MATERIALS USED: | CORE BOXES | 191 BOXES | 1.00 | 191.00 |
| | | WATER TRUCK RENTAL | 1 MONTH | 190.00 | 190.00 |
| | | CASING STUCK IN HOLE | 1-10' JOINT | 29.20 | 29.20 |
| | | | | TOTAL | $13,560.90 |

April 8, 1967

STATEMENT

For clerical and bookkeeping work

March, 1967.....$40.00

Loretta L. Childers

Loretta L. Childers
8280 Davona Drive
Dublin, California

*Spenst M. Hansen, Ph.D.*
MINING GEOLOGIST
125 Sedgefield Court
San Ramon, California 94583
Phone (415) 828-4126

APRIL 8, 1967

STATEMENT: To BIG TREASURE MINING AND DEVELOPMENT COMPANY.

CONSULTING FEES FOR GEOLOGIC WORK ON THE LITTLE TREASURE-ADJUST MINING PROPERTY IN PINAL COUNTY, ARIZONA DURING THE PERIOD MARCH 1 and MARCH 31, 1967.

3 Days work at $75.00 per day - - - - - - $225.00
(March 22, 23 and 24)

Sincerely

Spenst M. Hansen

SPENST M. HANSEN
CONSULTANT MINING GEOLOGIST

BIG TREASURE

**Mining and Development Company**

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

April 8, 1967

Mr. J. William Hasler
Field Officer, Region III
Office of Minerals Exploration
U.S. Geological Survey
Federal Cent er
Denver, Colorado

Subject: OME - 6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler

Enclosed herewith please find four copies each of MME Form 60 "Operators Monthly Voucher" and MME Form 61 "Operators Progress Report". These report forms cover the month of March, 1967. Each copy is signed, dated and certified to be correct. Work on this contract continued throughout the month of March.

Below is given our narrative report of the work performed during March.

(1) Hole No. 3 wasat a depth of 49 feet at the beginning of the month and was completed at a depth of 1857 feet on April 1, 1967. Considerable sulphide mineralization was encountered near the original planned depth of 1,500 feet along with chlorite and serpentine similar to that encountered near mineralization in other parts of the district. A telephone conversation between Spenst M. Hansen and William Hasler on March 20th advised Mr. Hasler that we felt that the mineralized nature of the rock justified continued drilling. Mr. Hasler indicated that we should proceed to drill further, based on our best judgement, as long as the total approved drill footage for the project was not exceeded. The hole penetrated into and partly through the basal conglomerate underlying the andesite, but limestone was not encountered. Sulphide mineralization was noted in the basal conglomerate (see enclosed logs of hole No. 3). The hole was stopped at 1,857 feet because of the feeling that further depth was not justified by the observed minerilization, and because of drilling difficulties.

(2) Field surveys were conducted of the surface outcrops of the Bluebird vein and the Silver King drift (see appendix A); of the Treasure vein and workings (see appendix B); and at the vein outcrops and mineralized zones south of drill hole no. 4 (see appendix C). Recommendations are made in these three appendices for the location of two of the holes in stage II, and for a modification of the last two holes of stage I (7A and 7B).

(3) Bulldozer work began on Monday March 27th and was completed on April 1st for the construction of additional drill sites needed to drill the holes in Stage II (see appendices C and B for location of drill stations). Mr. Vern Mank of Winkelman, Arizona contracted the bulldozer work. His machine is an Allis Chalmers HD-10 (the equivalent of the Caterpillar Model D-7) and handled the work well.

Representatives of Big Treasure Mining and Development Company will be on hand on April 20 and 21 when you visit the property (as per your telephone conversation of several days ago). Mr. Janc and perhaps Mr. Hansen will meet you at the Lebanese Cafe in Winkelman at 9:30 A.M. on Friday, April 21st if this is convenient for you. They will have a four wheel drive vehicle to drive you to the property. If your plans change, or if another time is more convenient, please telephone Mr. Hansen at the number on the letter head and other arrangements will be made.

Enclosed please find a complete set of assay reports and copies of the lithologic logs from drill hole No. 3.

Work is presently continuing on the property with the beginning of drill hole No. 8 (see appendix C), which is one of the holes allowed for in stage II, but not defined. Mr. Janc is supervising the work and is still residing on the premises.

Yours Truly

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Company

DHK:b
Encl:

BIG TREASURE
Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

Appendix A
April 8, 1967

Subject: OME - 6458 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

The results of a survey we recently conducted of the Silver King drift and the surface exposures of the Bluebird vein are summarized on figures A-1 and A-2. This survey disclosed that the Silver King drift intersects the Bluebird vein as indicated by the fact that the vein encountered about 150 feet from the drift face plots almost directly under the surface exposure of the Bluebird vein. Since conducting this survey, we have made an effort to re-enter these workings on this vein structure from the Silver King drift and have been partially successful. These workings are in a very bad state of repair, the timber is rotten and portions of them contain water. Results of our investigation however, substantiate the fact that the vein exposed and developed is probably the Bluebird vein. One three and one-half foot channel sample cut across the vein about 75 feet east of the Silver King tunnel assayed 32 ounces of silver.* Several raises and ore shoots are situated along this vein, but no evidence exists that the workings from the Silver King tunnel ever connected with the surface workings on the Bluebird vein.

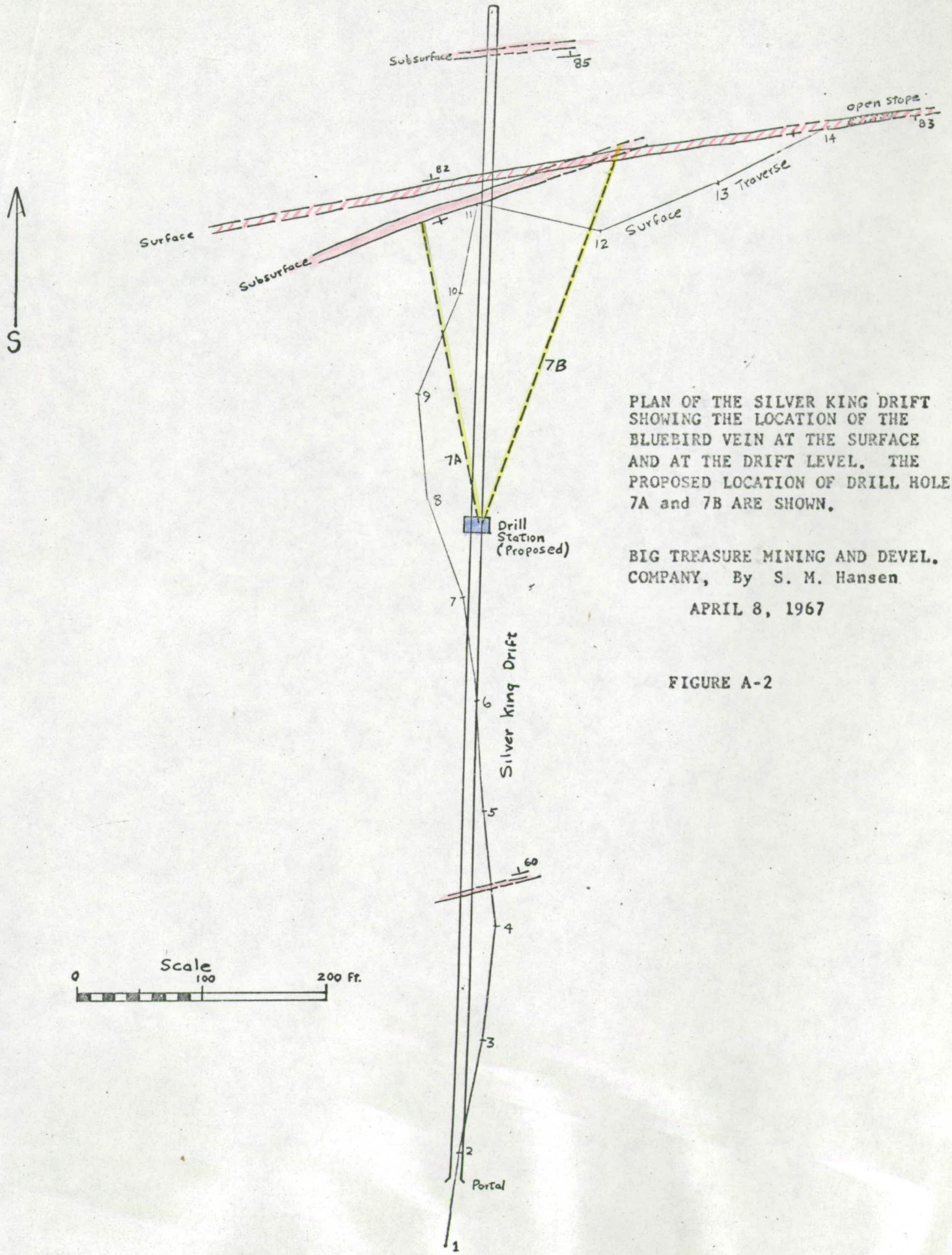
With this information in hand it seems to us that drill hole 7a and 7b can best advance the exploration goals of the project by being drilled as shown on figure A1. This will involve the construction of a station approximately 250 feet toward the portal from the underground intersection of the Bluebird vein. Hole 7a should be drilled in a direction south 10 degrees east at an inclination minus 45 degrees. This hole will then intersect the downward projection of the Bluebird vein about 250 feet below the lowest workings, and at a hole length of about 350 feet. The depth of the hole should be specified at 425 feet to allow for unexpected variations in vein dip.

Hole 7b should be drilled from the same station in a direction south 20 degrees west at an inclination of minus 45 degrees. Because of the variation in the strike of the vein this drill hole should intersect the vein at a depth of about 300 feet below the lowest workings on the vein in this area. The expected hole length at vein intersection should be about 425 feet. However, a hole length of 500 feet should be specified to be sure that vein will be intersected in the event of an unexpected variation in strike or dip.

* SM-20-3, 32.75 oz. Ag., 0.03 oz Au.

It should be emphasized that this Bluebird vein system is the most important silver bearing structure in the district and that a favorable intersection of the vein by holes 7a and 7b will substatially extend the known regions of mineralization. In the meantime, further efforts will be made to enter the partially caved workings from the Silver King drift and maping and sampling will be carried out. It is expected that the minor vein structure shown about 35 feet from the drift face is a parallel vein or a branch of the Bluebird vein. This portion of the property is characterized by series of parallel vein structures. Metal values in the veins consist entirely of unoxidized sulphide. No evidence of oxidized minerals, or secondary enrichment has been noted in either of the veins intersected by the Silver King drift.

In reading amendment number 1 (12 January, 1967) it appears that the requirements of paragraph 2 can be met by drilling holes 7a and 7b as proposed here. It seems to us that an amendment to the contract will not be required, although will be happy to agree to one if in your judgment it is needed. Paragraph 2 of amendment 1 states "In leiu of drilling hole 7a and 7b from the land surface, two holes may be drilled toward the same targets from the adit shown on figure one at inclinations modified to compensate for the different elevation". The target specified originally was the Bluebird vein in the vicinity of 200 to 300 feet below the lowest known workings. This is still our target, although we now have a better understanding of the downward development of the Bluebird vein system. It is clear to us that the drilling of holes 7a and 7b as suggested here will not increase the cost of the contract, and we expect to be able to complete these holes with the funds presently allotted. It may be necessary, however, to shift funds from one category to another in order to allow for the difference in the layout of these two holes.




PLAN OF THE SILVER KING DRIFT SHOWING THE LOCATION OF THE BLUEBIRD VEIN AT THE SURFACE AND AT THE DRIFT LEVEL. THE PROPOSED LOCATION OF DRILL HOLES 7A and 7B ARE SHOWN.

BIG TREASURE MINING AND DEVEL. COMPANY, By S. M. Hansen

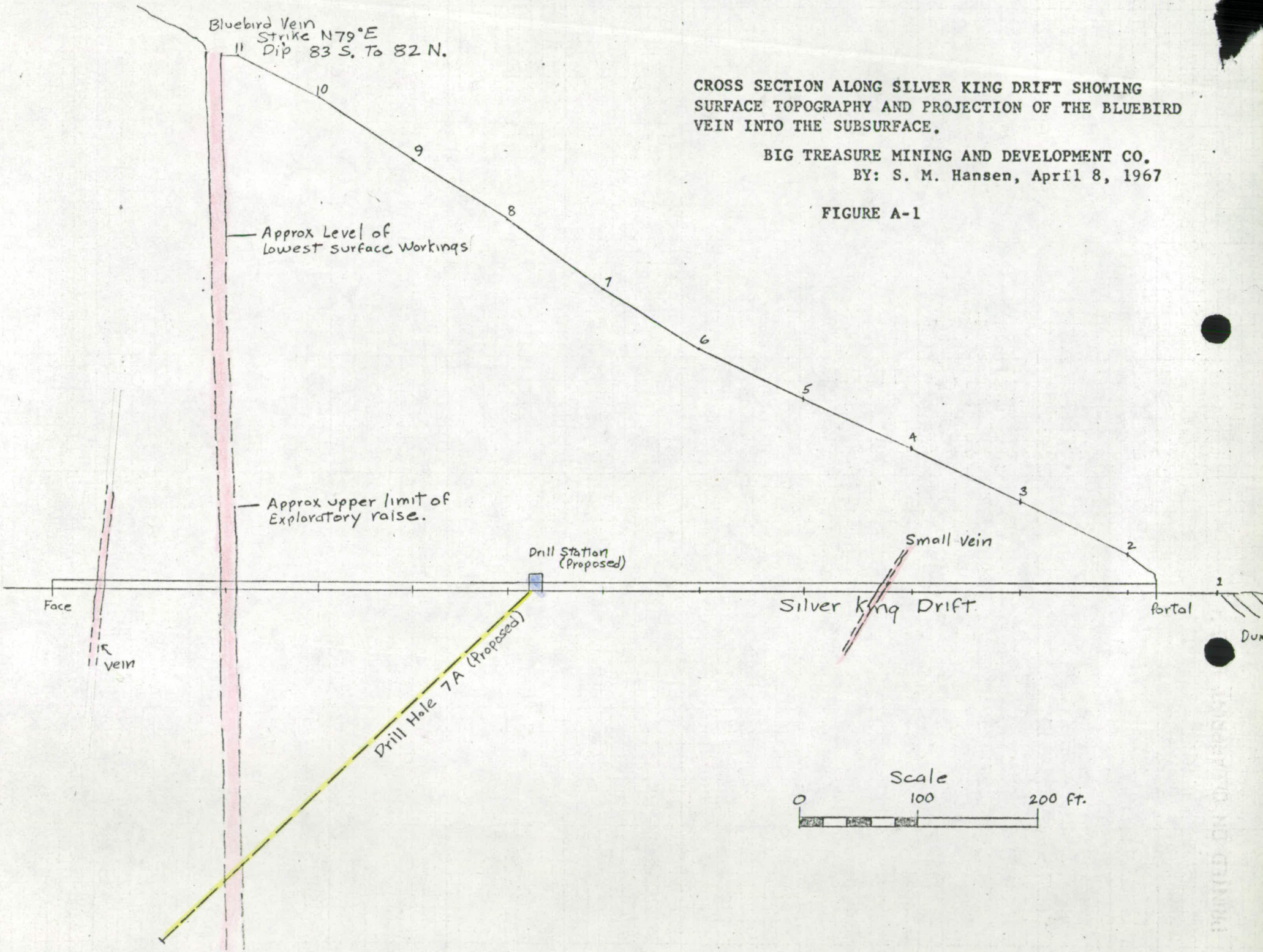
APRIL 8, 1967

FIGURE A-2

CROSS SECTION ALONG SILVER KING DRIFT SHOWING SURFACE TOPOGRAPHY AND PROJECTION OF THE BLUEBIRD VEIN INTO THE SUBSURFACE.

BIG TREASURE MINING AND DEVELOPMENT CO.
BY: S. M. Hansen, April 8, 1967

FIGURE A-1



BIG TREASURE

Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

Appendix B
April 8, 1967

Subject: OME - 6458 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

The proposed location for drill hole number 9 is shown on figure B-1. Drill hole number 6 failed to encounter the expected vein projection, but instead penetrated a microdiorite intrusive body which apparently terminates the treasure vein system on the northeast. The production history of the Little Treasure Mine, and the fact that the Little Treasure vein probably is a continuation of one of the vein systems exposed to the southwest on the Big Rock property, indicates that further efforts to explore this vein system below the level of existing workings is justified. Old assay maps in our possession indicate values as high as 99 ounces of silver from the main level of the Little Treasure drift. Also, Ross reports the occurrence of wire silver in argentite in this property.

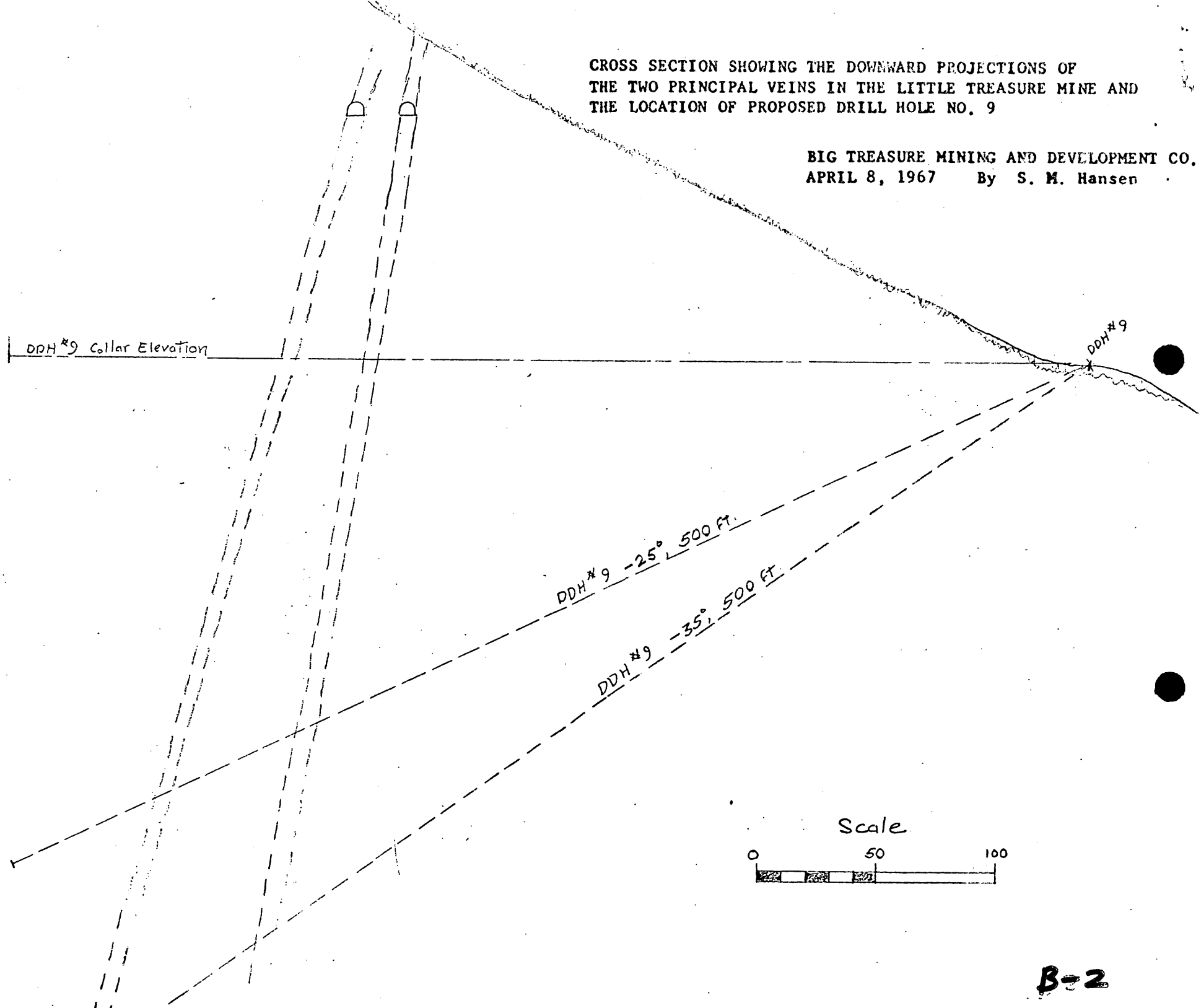
The proposed location for hole number 9 is such that by slight hole drilling both of the major veins exposed in the Little Treasure workings can be encountered. The direction of hole number 9 should permit the microdiorite intrusive penetrated by hole number 6 to be avoided. The veins should be intersected at depths between 250 and 350 feet below their lowest known intersection in the case of the minus 25 degree drill hole inclination.

The projections of minus 25 degree and minus 35 degree drill holes are both clotted, although the minus 25 degree is felt by us to be preferred because of the greater horizonal extension of the hole, and the improved chance of penetrating the vein even though an unexpected variation in vein dip may occur. Because of the nature of the terrane surrounding the drill station, it is not practicable to move drill hole number 9 station further up the hill because of steepness, and lack of loose fill material for construction.

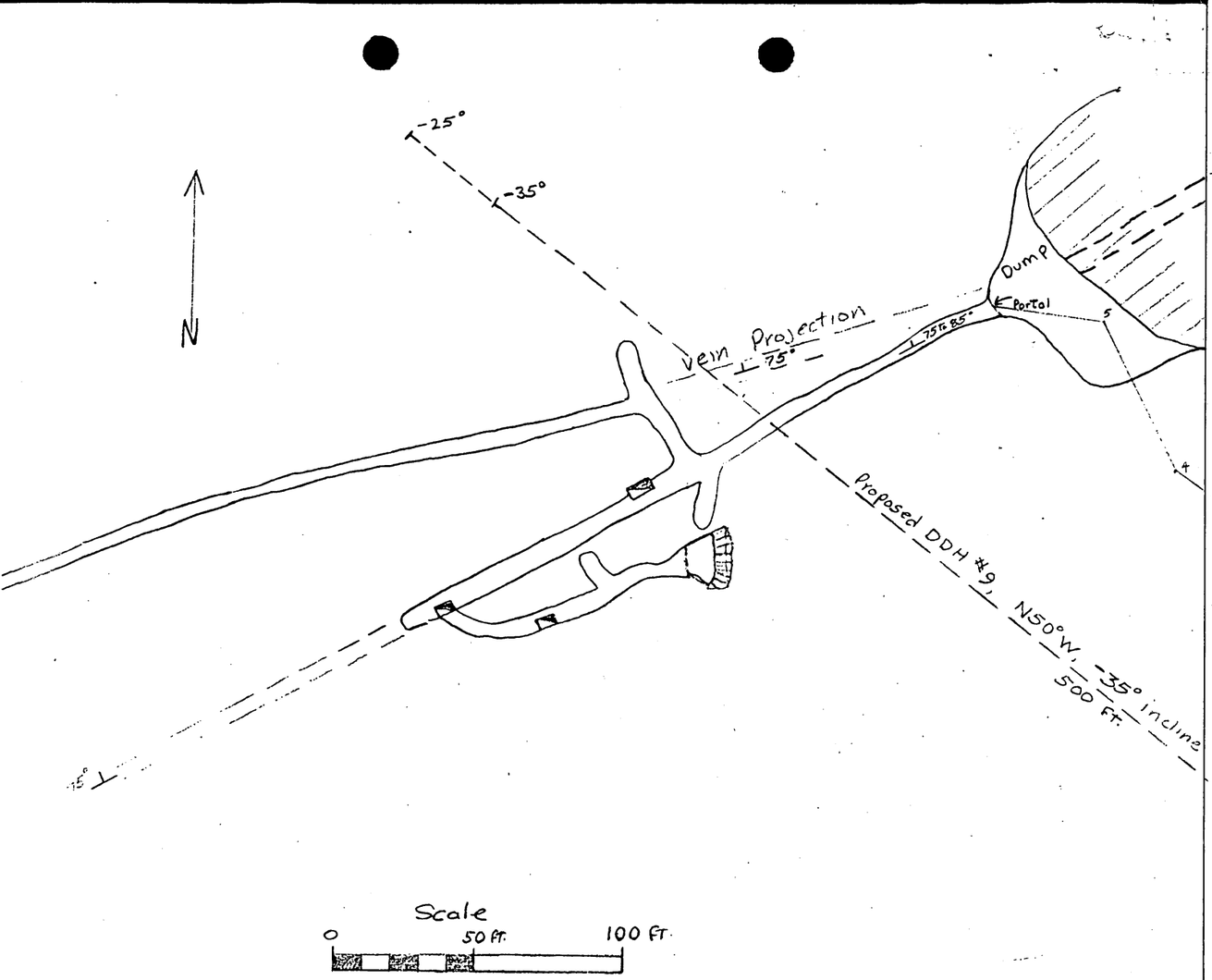
Should the exploration of this region below the presently known occurrences of the vein in the Little Treasure working disclose depth development of these structures, this would substatially approve the known extension of silver mineralization on this property.

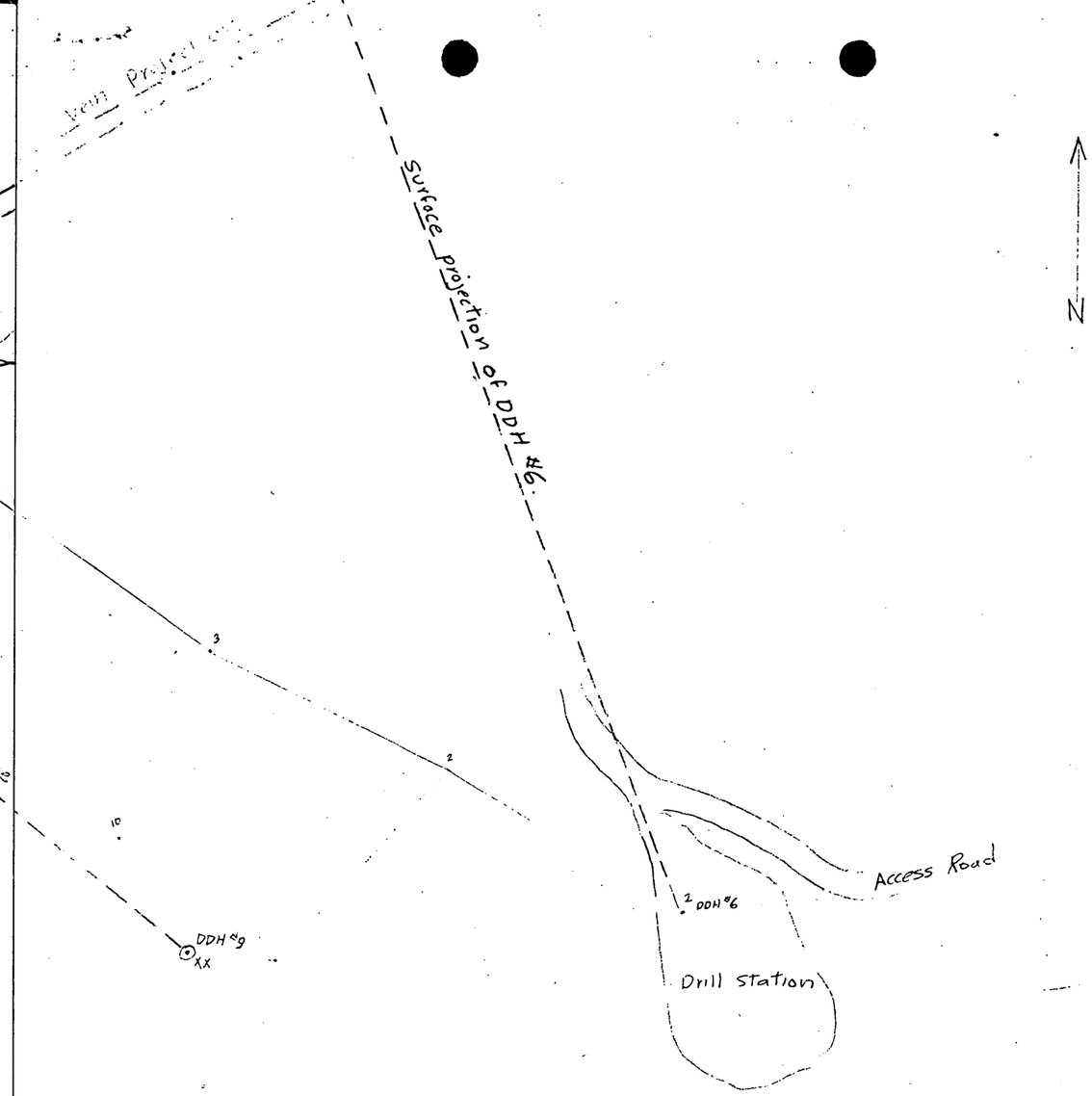
CROSS SECTION SHOWING THE DOWNWARD PROJECTIONS OF THE TWO PRINCIPAL VEINS IN THE LITTLE TREASURE MINE AND THE LOCATION OF PROPOSED DRILL HOLE NO. 9

BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967 By S. M. Hansen




B-2




PLAN SHOWING SOME OF THE WORKINGS OF THE LITTLE TREASURE MINE AND THE LOCATIONS OF DRILL HOLES 4 and 9 (Proposed).

BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967 By S. M Hansen

BIG TREASURE
Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

Appendix C
April 8, 1967

Subject: OME - 6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Figures C1 and C2 show the location of the mineralized sheer zone and veins of the King Chester structure. Assays from surface exposures from this vein have shown values as high as seven ounces of silver per ton. The presence of the mine dumps showing considerable mineralized rock, and mine workings on several of the veins within the structure demonstrate the fact that silver is present. The most extensive of the workings is the tunnel shown on figure C-1 which extends to the southeast for more than 200 feet before it becomes inaccessible because of caving.

The location of drill hole number 4 is shown on both figures, and the lithology encountered in the hole is drawn in on figure C-2. The reason why drill hole number 4 did not penetrate the mineralized sheer zone is shown in figure C-2. We had originally requested that this hole be drilled 1,000 feet instead of the 700 that was approved. However, it should be pointed out, that the penetration of the King Chester structure was not the primary purpose of the hole, and hole number 4 is in good enough condition that it can be re-entered at a later time if necessary. We feel that the best way to explore the parallel veins of the King Chester structure is by drill hole number 8 (shown on figures C-1 and C-2). This drill hole should penetrate the vein systems exposed at the surface at depths of less than 200 to slightly more than 300 feet. From what we have learned about the variable nature of the veins in this area, this is preferred to the extension of drill hole number 4 which would penetrate these veins at depths of 500 or more feet.

Considerable time has been spent in following the surface exposures of the veins in the King Chester structure. In spite of poor exposures in some localities, and structural offsets, it appears highly probable that this structure is the easterly extension of the Bluebird vein system. The work done at the King Chester vein structure on the surface was probably done during the production period of from 1900 to about 1910, and not during the 1920 to 1930 production period during which the Bluebird and Little Treasure Mines were active. This is evidenced

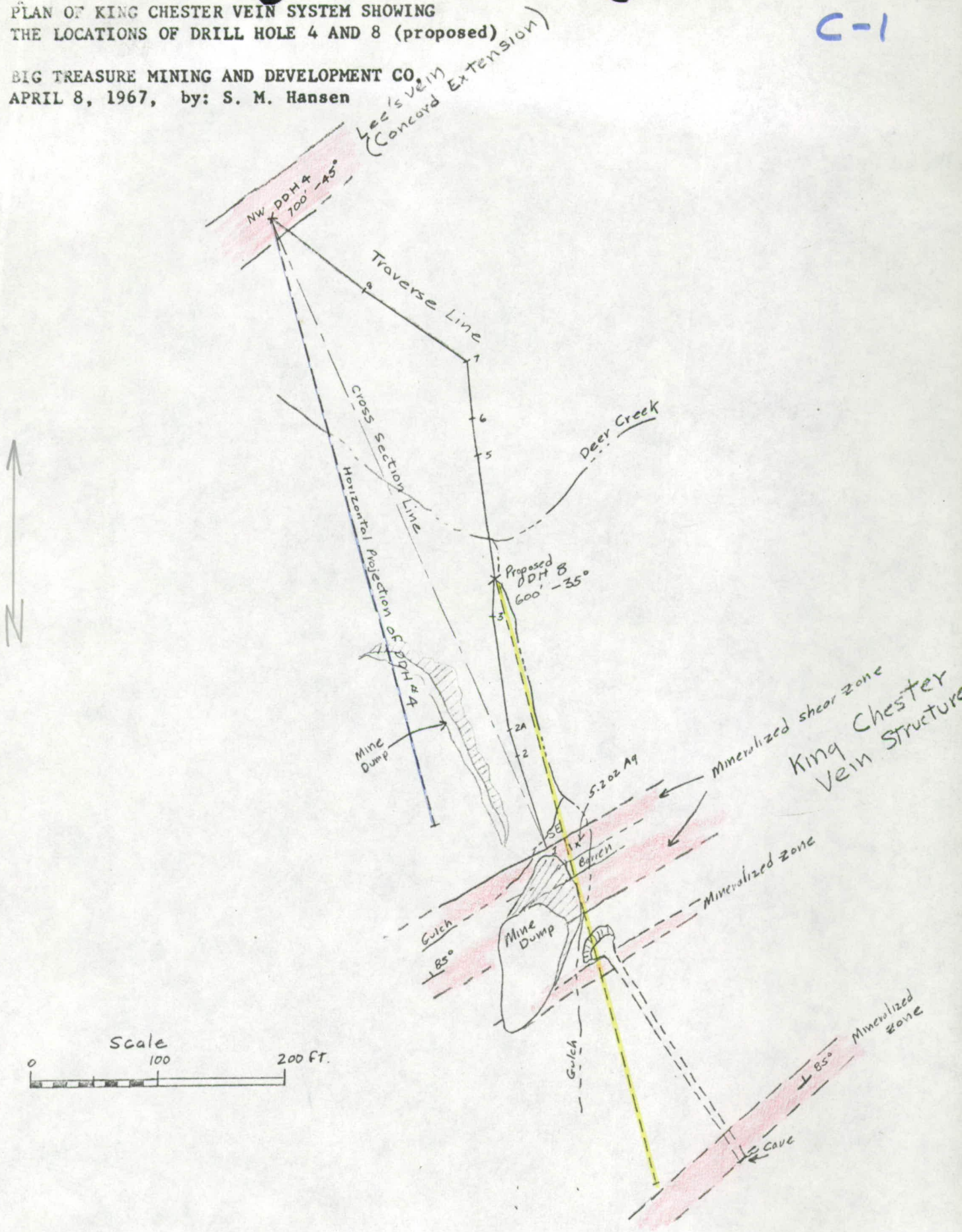
by the fact that the prospect holes seem much older and show more caving. The portal of the main drift was almost completely obscured by the trunk and foliage of a tree. Several days of searching were necessary to find it. The back portions contain from two to three feet of water.

by the fact that the prospect holes seem much older and show more caving. The portal of the main drift was almost completely obscured by the trunk and foliage of a tree. Several days of searching were necessary to find it. The back portions contain from two to three feet of water.

PLAN OF KING CHESTER VEIN SYSTEM SHOWING
THE LOCATIONS OF DRILL HOLE 4 AND 8 (proposed)

BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967, by: S. M. Hansen

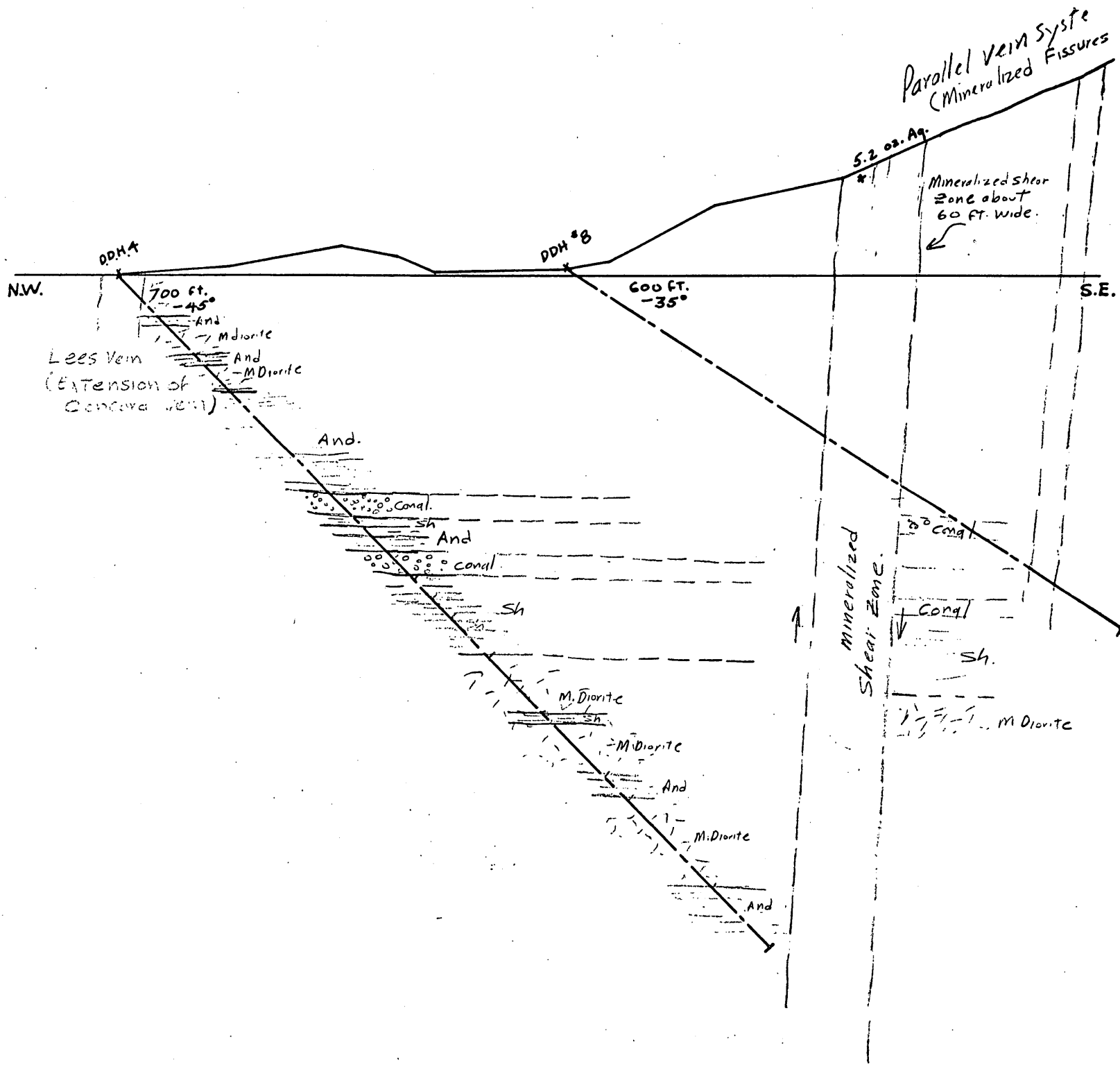
C-1




C1

BIG TREASURE MINING AND DEVELOPMENT CO.
APRIL 8, 1967, by: S M Hansen

CROSS SECTION THROUGH KING CHESTER VEIN SYSTEM SHOWING LOCATION OF DRILL HOLE NO. 4 and LOCATION OF DRILL HOLE NO. 8 (Proposed).




C-2

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

April 7, 1967

ORIG. & 2 COPY
O. M. E.
RECEIVED
APR 10 1967
MINERALS CODE

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and narrative report for February, 1967 on the above-stated contract.

The drill logs of Drill Hole Nos. 1, 2, 3, 4, 5, 6 are also transmitted herewith. The logs were received in this office April 3, 1967 and the vouchers were held up pending arrival of the geologic logs.

J. William Hasler

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

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No.
14-23-090- 2231
Contract Amount $112,000.00
Gov't. Participation % 75 $84,000.00
Mineral(s) Silver

# OPERATOR'S MONTHLY VOUCHER

For Month of February, 1967

Operator's Name Big Treasure Mining and Development Co.
Address 125 Sedgefield Ct., San Ramon, California 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | -0- | $1,200.00 | $1,200.00 | | | |
| ~~Drifting~~ | | | | | | |
| ~~Crosscutting~~ NC | $152.00 | $296.40 | $448.40 | | | |
| Drilling NX WL | $614.10 | $1,593.90 | $2,208.00 | | | |
| -500' BX WL | $3,443.20 | $10,444.80 | $13,888.00 | | | |
| +500' BX WL | $1,380.00 | $4,850.70 | $6,230.70 | | | |
| (2) Personal Services: | | | | | | |
| Supervision & Technical Geologist-Engineer | $900.00 | $2,160.00 | $3,060.00 | | | |
| Outside Consultants | $150.00 | $225.00 | $375.00 | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing Lost in hole | $183.25 | $265.80 | $449.05 | | | |
| Additives | $150.84 | $41.08 | $191.92 | 138.92 | | |
| Core boxes | $88.00 | $278.00 | $366.00 | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | $160.00 | $384.00 | $544.00 | | | |
| ~~Purchase~~ " " " Mileage | $144.00 | $383.76 | $527.76 | | | |
| ~~Depreciation~~ Cementing time | $175.00 | -0- | $175.00 | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | | | | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Book Keeping and Clerical | $40.00 | $107.50 | $147.50 | | | |
| Bulldozer mobilization | -0- | $100.00 | $100.00 | | | |
| | $6.00 | -0- | $6.00 | | | |
| TOTALS | $7776.39 | $22,520.94 | $30,297.33 | 7764.47 | | |

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

Date March 15, 1967 * Payee Big Treasure Mining and Dev. Co.

Per Irving H. Kimball Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 5,823.35 14X0804

Signature John
(Authorized Certifying Officer)

Date APR 25 1967 Vou. No. 8290

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date 3/22/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 3/22/67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill-hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of FEBRUARY, 1967 Docket No. OME 6548

Operator's Name BIG TREASURE MINING AND DEVELOPMENT CO. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| ~~Drifting~~ Casing Lost in hole | ft. | 100 | 240 | $449.05 | 100 | 240 | 449.05 |
| ~~Crosscutting~~ Additives | sacks | 17 | 25 | $191.92 | 15 | 23 | 153.58 |
| ~~Raising~~ Core boxes | boxes | 88 | 366 | $366.00 | 88 | 366 | 366.00 |
| ~~Shafts~~ Water Truck Rental | month | 1 | 2 | $380.00 | 1 | 2 | 380.00 |
| ~~Winzes~~ Water Truck Mileage | miles | 50 | 50 | $6.00 | 50 | 50 | 6.00 |
| ~~Other Underground~~ Cementing Time | hours | 14 | -0- | $175.00 | 14 | 14 | 175.00 |
| Drilling, Core-Diamond | | | | | | | |
| Rotary | | | | | | | |
| Drilling, ~~Non~~-core-Diamond NC | feet | 20 | 59 | $448.40 | 20 | 59 | 448.40 |
| ~~Rotary~~ NXWL | feet | 89 | 320 | $2,208.00 | 89 | 320 | 2,208.00 |
| ~~Churn~~ 0-500' BXWL | feet | 538 | 2170 | $13,888.00 | 538 | 2170 | 13,888.00 |
| ~~Percussion~~ +500' BXWL | feet | 200 | 903 | $6,230.70 | 200 | 903 | 6,230.70 |
| ~~Miscellaneous~~ Bulldozer | hours | -0- | 60 | $1,200.00 | — | 60 | 1,200.00 |
| Geologist-Engineer | months | 1 | 3 12/30 | $3,060.00 | 1 | 3 12/30 | 3,060.00 |
| ~~Roads and Trails~~ 4 wheel drive Truck rental | months | 1 | 3 12/30 | $544.00 | 1 | 3 12/30 | 544.00 |
| ~~Stripping~~ 4 wheel drive mileage | miles | 1200 | 4,398 | $527.76 | 1200 | 4398 | 527.76 |
| ~~Trenching~~ Outside Consultant | days | 2 | 5 | $375.00 | 2 | 5 | 375.00 |
| ~~Test Pitting~~ Bookkeeping - Clerical | months | 1 | 3 12/30 | $147.50 | 1 | 3 12/30 | 147.50 |
| ~~Other Surface Work~~ Bulldozer Mobilization | flat | -0- | all | $100.00 | — | ½ | 50.00 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | | | | |
| TOTAL TO DATE (per MME Form 60) | | | | $30,297.33 | | | 30,208.99 |

REMARKS

(Continue on back)

REMARKS

Allow only 15 sacks of additives @ 7.50/sack = 112.50, disallow 38.34.

OVER

(Continue on back)

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

Date March 15, 1967 Operator Big Treasure Mining and Dev. Co.

Per [signature] Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date March 22, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

The average unit cost is a maximum. So far 23 sacks of additives have been claimed and $41.08 has been paid.

23 sks
$7.50
$172.50 allowable to date
- 41.08 pd. Dec-Jan
$131.42 Allowable this voucher

Disallow $19.42
RMG.

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Dig Treasure Mining & Development Co.
125 Sedgefield
San Ramon, Calif. 94583

| Amount Claimed | Differences (Explained Below) | Amount Approved |
|---|---|---|
| $23,658.69 | $11.92 | $23,646.77<br>$17,735.08 Govt. Participation |
| Voucher No. | Payee's Invoice No. | Period |
| | Docket #6548 Contract #2231 | February and March 1967 |

EXPLANATION

| | | |
|---|---|---|
| Claimed 17 sacks additives | | 150.84 |
| Allowed 15 sacks additives @ 7.50 ea. | 112.50 | |
| Additional additives allowed on Jan. 67 voucher | 11.42 | |
| " " " " Dec. 66 " | 15.00 | |
| Total allowed | 138.92 | 138.92 |
| Amount Disallowed | | 11.92 |

Any recision for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister
Branch of Budget and Finance

BIG TREASURE

Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

March 14, 1967

Mr. J. William Hasler
Field Officer, Region 3
U. S. Geological Survey
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

Enclosed herewith please find four copies each of MME form 60 " Operators Monthly Voucher" and MME form 61 "Operators Progress Report" . These report forms cover the month of February 1967. You will notice that each of the four copies have been prepared in ink by hand and each is signed and certified to be correct. Work on the above exploration contract continued through the month of February during this period hole No. 2 was completed, hole No. 6 was begun and completed, and hole No. 3 was advanced to a depth of 49 feet.

Below is given our narrative report of the work performed during the month of February, 1967.

(1) February 1 through February 3 completed hole No. 2 to the contract depth of 600 feet. On February 3 the rig was moved to drill hole No. 6.

(2) February 4 through February 21. Drill hole No. 6 was begun and completed to the depth of 600 feet. Considerable difficulty was encountered in portions of the hole, and four joints of casing totaling 70 feet were stuck in the hole and could not be recovered. Considerable mineralization was noted in hole No. 6, including silver minerals tentatively identified as proustite.

(3) February 22 through February 28 moved to the location of hole No. 3 and by February 28 had completed 49 feet of hole. Authorization to drill hole No. 2 ( and begin the second stage of exploration) was given verbally by long distance telephone by William Hasler, field officer O. M. E. Region 3.

During the entire period covered by this report, Mr. Ronald A. Janod was in residence on the property, logged cored, cut samples for assay, and obtained all information from the exploration possible. Mr. Janod was provided during this period with the use of a 4-wheel drive International Scout vechile.

Descriptive logs and graphical summaries of the cores obtained thus far are being forwarded under separate cover. Also, the sketch maps and cross sections showing the locations of samples taken for assay are also being forwarded under separate cover. We have thus far been unable to determine the method for submitting our assay and analysis costs for reimbursement. You will notice that although we have had assay work done during December January and Feburary, we have not included this assay work on any of the vouchers. We will appreciate receiving instructions from your office with regard to the proper way to obtain reimbursement for these expenses.

Yours truly,

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Co.

DHK:r
encl

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN AND FABRICATION

# Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110
Cable: BOYLESCO

BRANCH OFFICES
ARIZONA (PHOENIX)
CALIFORNIA (AUBURN
COLORADO (GOLDEN)
NEVADA (SPARKS)
WASHINGTON (SPOKANI
CHILE (SANTIAGO)
CABLE: BOYLESBROS
MEXICO, D.F.
PERU (LIMA)
CABLE: BOYLESCOP

INVOICE DATE: February 28, 1967
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 6-426
TERMS: Saddle Mt. Area
LOCATION: Winkleman, Ariz.

Big Treasure Mining & Develpoment Co.
125 Sedgefield Court
San Ramon, California 94583

| HOLE NO. | | FROM | TO | FOOTAGE | RATE | TOTAL |
|---|---|---|---|---|---|---|
| # 2 | BX | 402 | 500 | 98 | 6.40 | 627.20 |
| | | 500 | 600 | 100 | 6.90 | 690.00 |
| Materials Used: | | Core boxes | | 20 | 1.00 | 20.00 |
| | | BX casing lost in hole, 10 ft. joints. | | 3 | 21.55 | 64.65 |
| | | | | | | 1,401.85 |
| # 3 | NC | 0 | 10 | 10 | 7.60 | 76.00 |
| | NX | 10 | 49 | 39 | 6.90 | 269.10 |
| Materials Used: | | Core boxes | | 5 | 1.00 | 5.00 |
| | | Drill mud | | 2 sacks | 2.50 | 5.00 |
| | | Cal-seal | | 2 " | 8.92 | 17.84 |
| | | Lumnite | | 2 " | 7.83 | 15.66 |
| | | Cement time | | 2 hrs. | 12.50 | 25.00 |
| | | Water truck rental | | 1 mo. | 190.00 | 190.00 |
| | | Water truck mileage | | 50 mi. | .12 | 6.00 |
| | | | | | | 609.60 |

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

**Boyles Bros. DRILLING COMPANY**

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110
Cable: BOYLESCO

BRANCH OFFICES
ARIZONA (PHOENIX)
CALIFORNIA (AUBURN
COLORADO (GOLDEN)
NEVADA (SPARKS)
WASHINGTON (SPOKANI
CHILE (SANTIAGO)
CABLE: BOYLESBROS
MEXICO, D.F.
PERU (LIMA)
CABLE: BOYLESCOP



INVOICE DATE: February 28, 1967
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 6-426
TERMS: Saddle Mtn. Area
LOCATION: Winkleman, Ariz.

Big Treasure Mining & Development Co.
125 Sedgefield Court
San Ramon, California 94583

| HOLE NO. | | FROM | TO | FOOTAGE | RATE | TOTAL |
|---|---|---|---|---|---|---|
| # 6 | NC | 0 | 10 | 10 | 7.60 | 76.00 |
| | NX | 10 | 60 | 50 | 6.90 | 345.00 |
| | BX | 60 | 500 | 440 | 6.40 | 2,816.00 |
| | BX | 500 | 600 | 100 | 6.90 | 690.00 |
| | | | | | | 3927.00 |
| | | NX casing lost in hole, 1 10' joint. | | 1 | 29.20 | 29.20 |
| | | BX casing lost in hole 3 20' joints | | 3 | 29.80 | 89.40 |
| | | Cementing time | | 12 hrs. | 12.50 | 150.00 |
| | | Standby time | | 8 hrs. | 12.50 | 100.00 |
| Materials Used: | | Cal-seal | | 1 bag | 8.92 | 8.92 |
| | | Portland | | 2 bags | 2.06 | 4.12 |
| | | Drill mud | | 4 " | 2.50 | 10.00 |
| | | Cellex | | 1 bag | 54.45 | 54.45 |
| | | Dextrid | | 1 " | 29.85 | 29.85 |
| | | Core boxes | | 63 | 1.00 | 63.00 |
| | | | | | | 4,465.94 |
| | | | | Total Billing — | | $6,477.39 |

SPENST M. HANSEN
SAN RAMON, CALIFORNIA

STATEMENT

Date March 14, 1967

TO: BIG TREASURE MINING AND DEVELOPMENT CO.
125 SEDGEFIELD
SAN RAMON, CALIFORNIA

| INVOICE DATE | INVOICE NO. | | AMOUNT |
|---|---|---|---|
| March 1, | 1967 | Rental of 4 wheel drive International Scout pickup truck for period February 1 through February 28, 1967 — BALANCE FORWARD | $160.00 |
| | | Mileage at 12¢ per mile (1,200 miles) | $144.00 |
| | | TOTAL | $304.00 |

To: Big Treasure Mining & Development Co.
125 Sedgefield Ct.
San Ramon, California

Clerical expense for month of February, 1967

$103.50

Mary K. Sandberg

Mary K. Sandberg
7728 San Sabana Ct
Dublin, California 94566

**Spenst M. Hansen, Ph.D.**
MINING GEOLOGIST
125 Sedgefield Court
San Ramon, California 94583
Phone (415) 828-4126

FEBRUARY 20, 1967

STATEMENT: To BIG TREASURE MINING AND DEVELOPMENT CO.

CONSULTING FEES FOR GEOLOGIC WORK ON THE LITTLE TREASURE-ADJUST MINING PROPERTY IN PINAL COUNTY, ARIZONA DURING THE PERIOD FEBRUARY 1 through FEBRUARY 20, 1967.

2 days work at $75.00 per day- - - - -$150.00

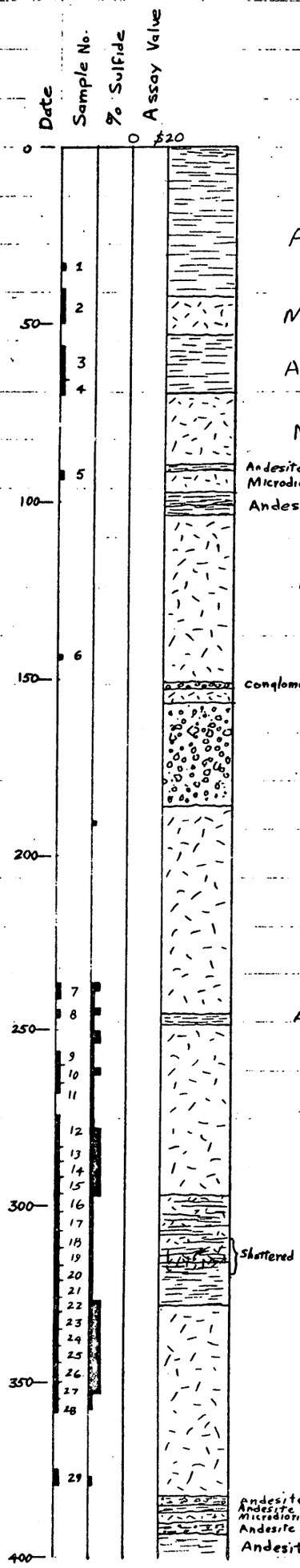
Sincerely

Spenst M. Hansen
Consultant Mining Geologist

DME-6548

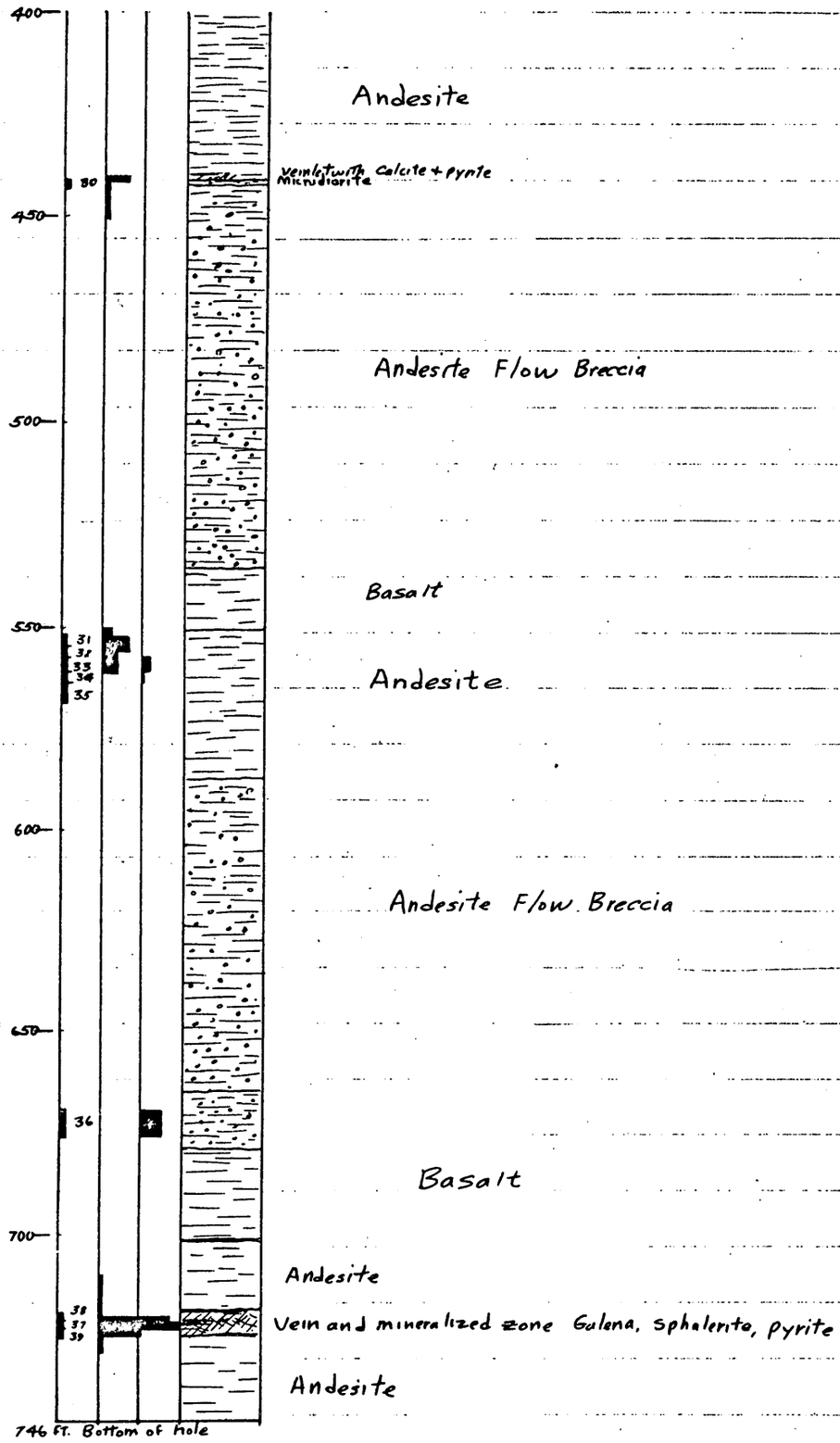
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

Pinal County, Arizona
Drill Hole No. 1
Hole Began--January 10, 1967
Hole Completed--January 20, 1967
Depth of Hole--746 feet.
Bearing of hole--S. 45° E.
Inclination--minus 60°
Core Logged by: R. Janc and S. Hansen
Sample designation for assay: SM-1-xx



**BIG TREASURE MINING AND DEVELOPMENT CO**
**SADDLE MOUNTAIN PROJECT**

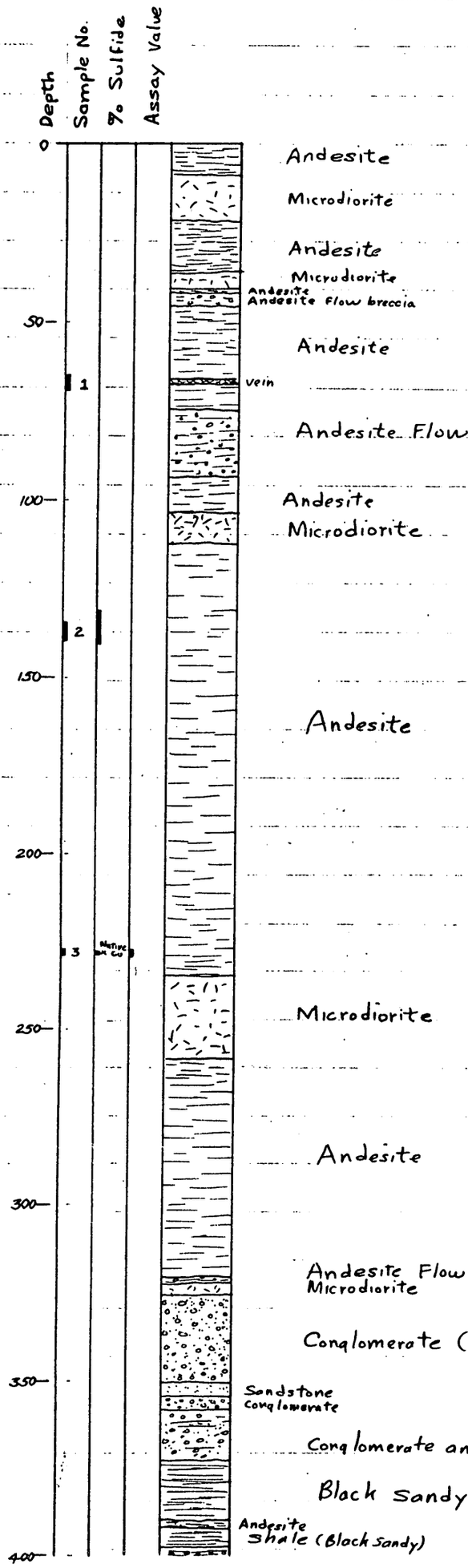
**Drill Hole No. 1 Continued**



**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

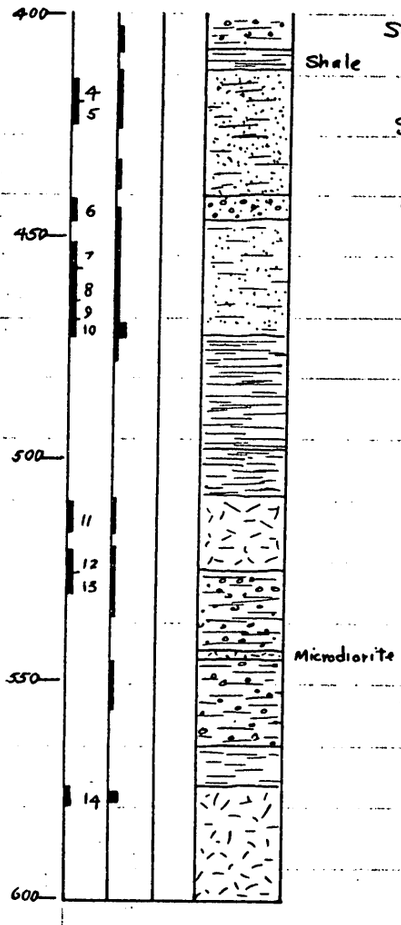
Pinal County, Arizona

Drill Hole No. 2
Hole Began--January 23, 1967
Hole Completed--February 3, 1967
Depth of hole--600 feet.
Bearing--S. 20° E.
Inclination-- minus 45°
Core Logged by: R. Janc and S. Hansen
Sample Designation for assay: SM-2-xx



**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Drill Hole No. 2 Continued**




Shale and Conglomerate Mixed

Shaley Sandstone

Conglomerate (Quartzite)

Shaley Sandstone

Shale

Microdiorite

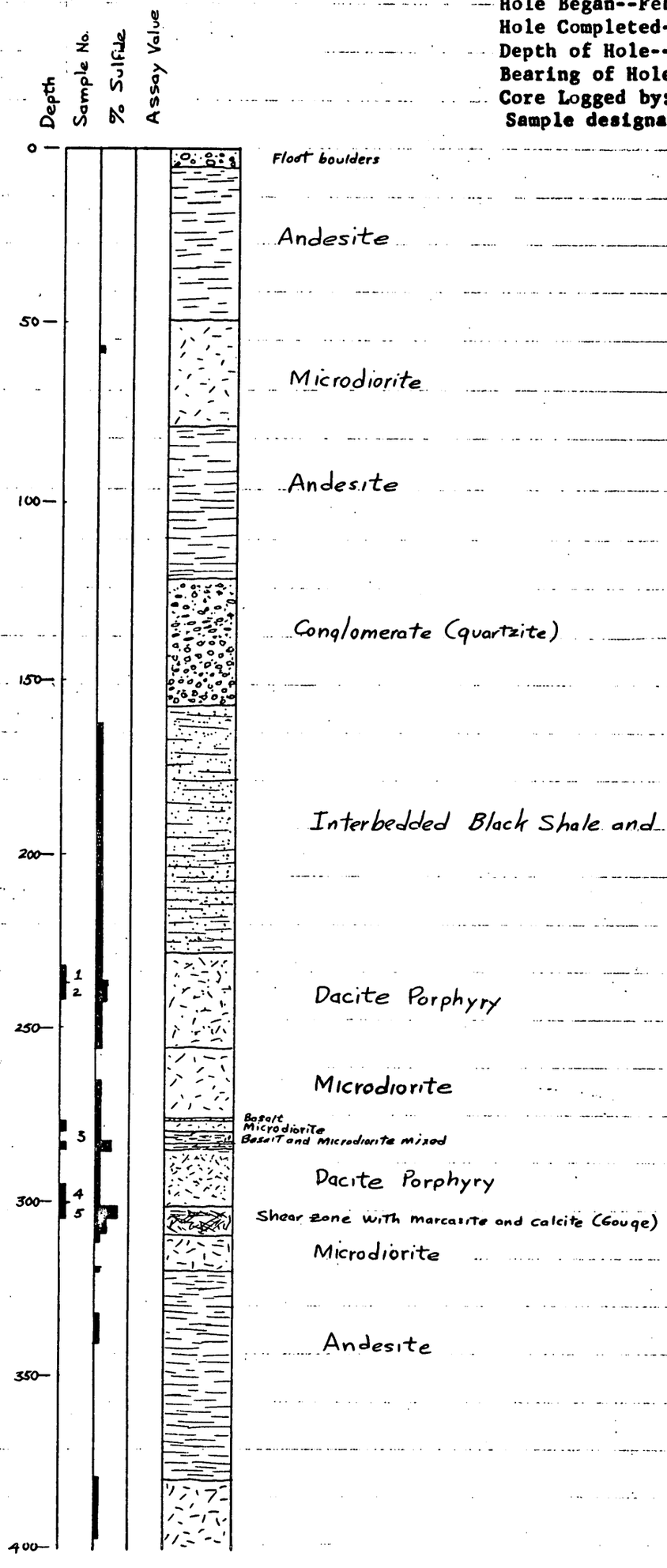
Andesite Flow Breccia

Andesite Flow Breccia

Andesite

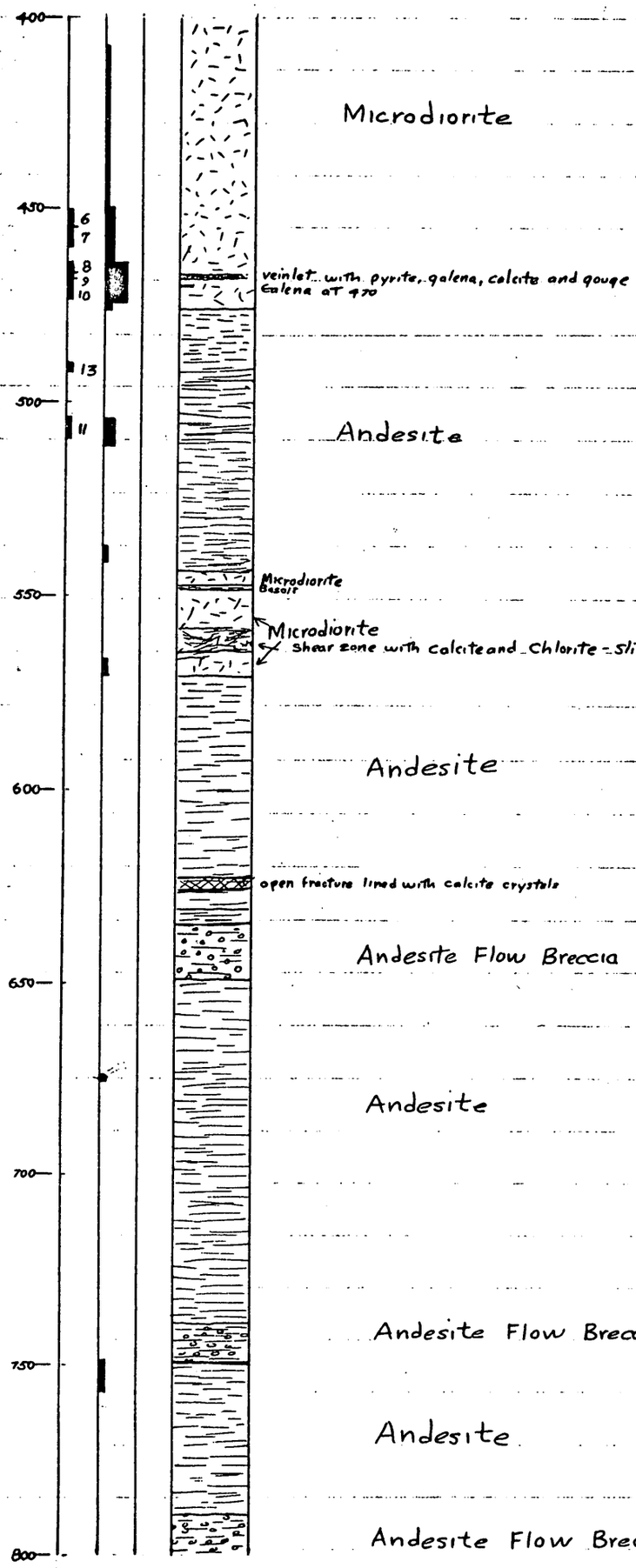
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

Pinal County, Arizona
Drill Hole No. 3
Hole Began--February 23, 1967
Hole Completed--
Depth of Hole--
Bearing of Hole--Vertical
Core Logged by: R. Janc and S. Hansen
Sample designation for assay: SM-3-xx



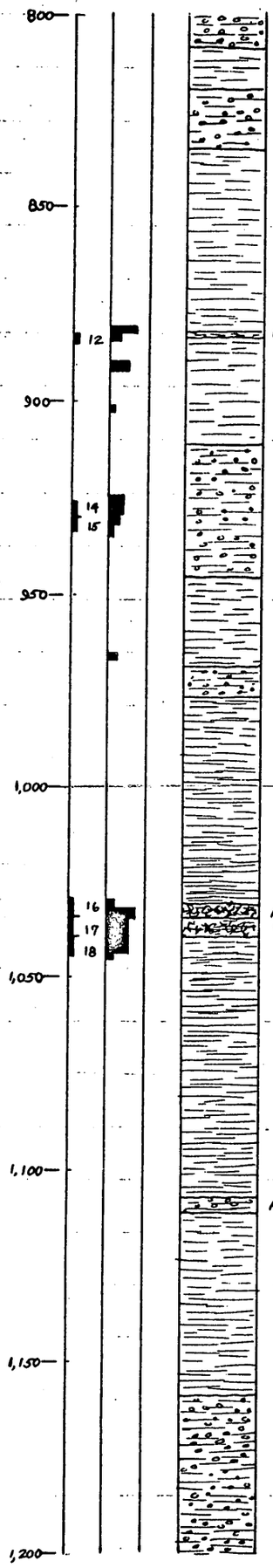
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Drill Hole No. 3 Continued**



**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Drill Hole No. 3 Continued**




Andesite

Andesite Flow Breccia

Andesite

Bleached andesite with calcite veinlet with pyrite

Andesite

Andesite Flow Breccia

Andesite

Andesite Flow Breccia

Andesite

Andesite breccia

Vein zone with brecciated qtz and calcite. Pyrite and galena 60° dip

Andesite

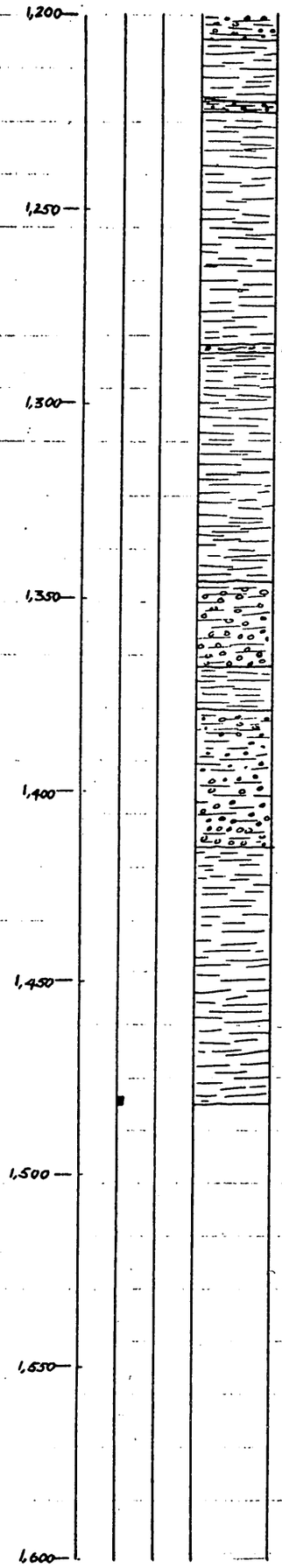
Andesite Flow breccia

Andesite

Andesite Flow Breccia

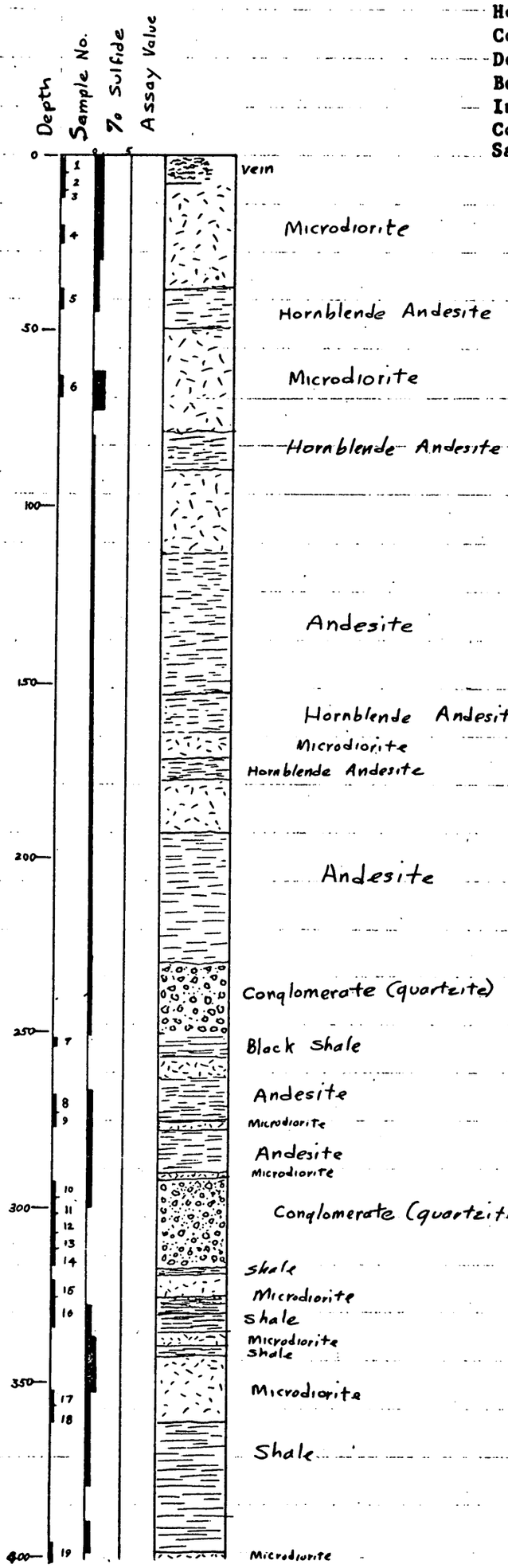
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Drill Hole No. 3 Continued**



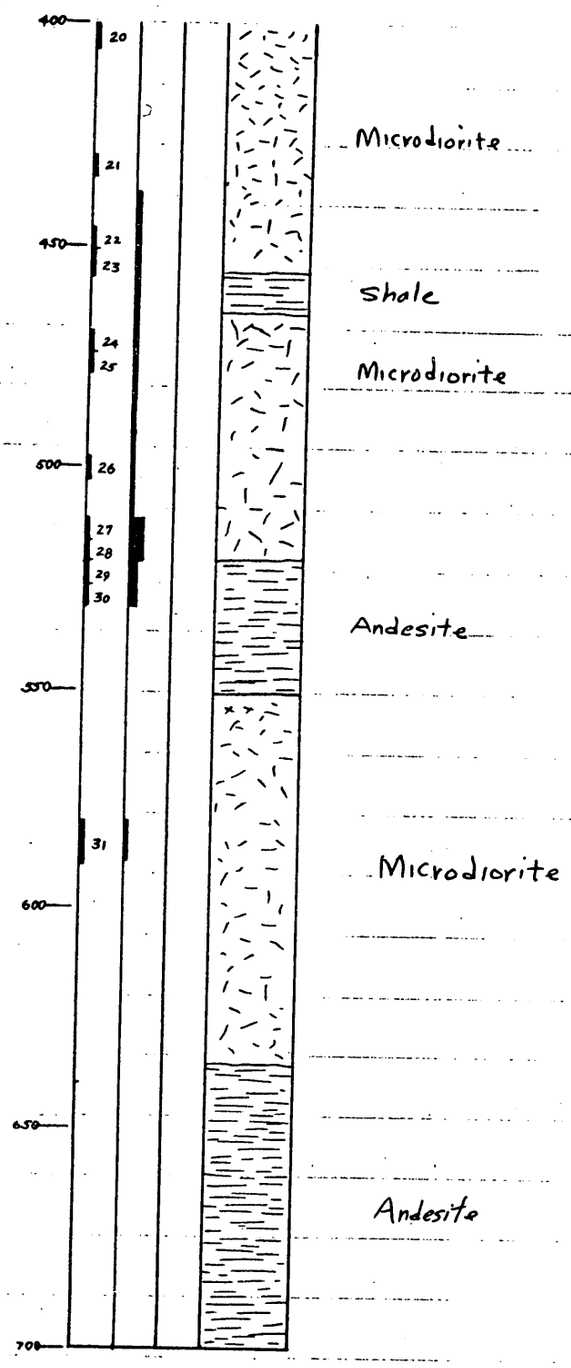
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

Pinal County, Arizona
Drill Hole No. 4
Hole Began--December 27, 1966
Completed--January 3, 1967
Depth of Hole 700 feet
Bearing of Hole--S. 15° E.
Inclination of Hole--minus 45°
Core Logged by: R Janc and S Hansen
Sample Designation for assay: SM-4-xx



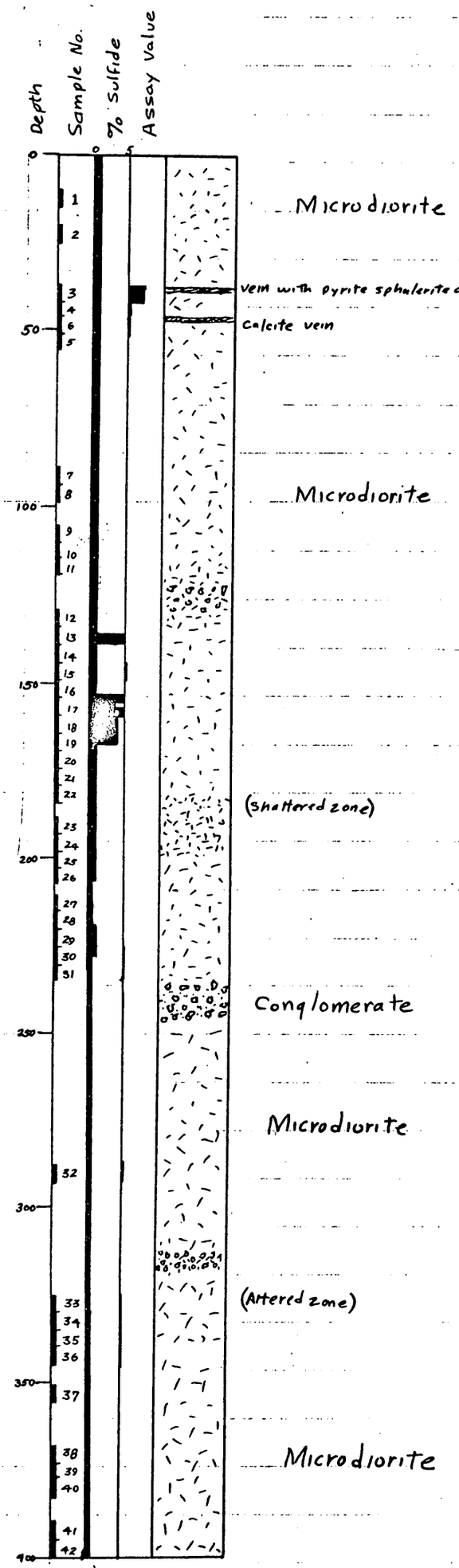
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Drill Hole No. 4 continued**



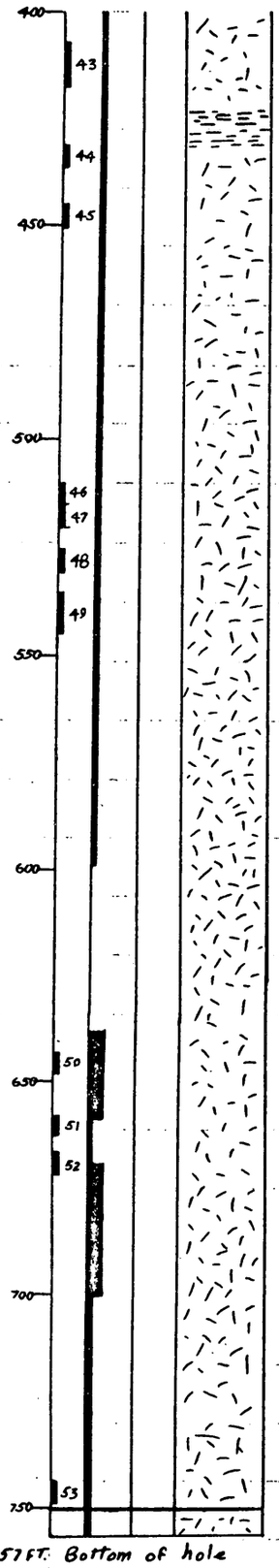
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

Pinal County, Arizona
Drill Hole No. 5
Hole Began--December 12, 1966
Hole Completed--December 23, 1966
Depth of Hole--757 feet.
Bearing of Hole--N. 10° W.
Inclination--minus 45°
Core Logged by: R. Janc and S. Hansen
Sample designation for assay--SM-5-xx



**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Drill Hole No. 5 Continued**




Microdiorite

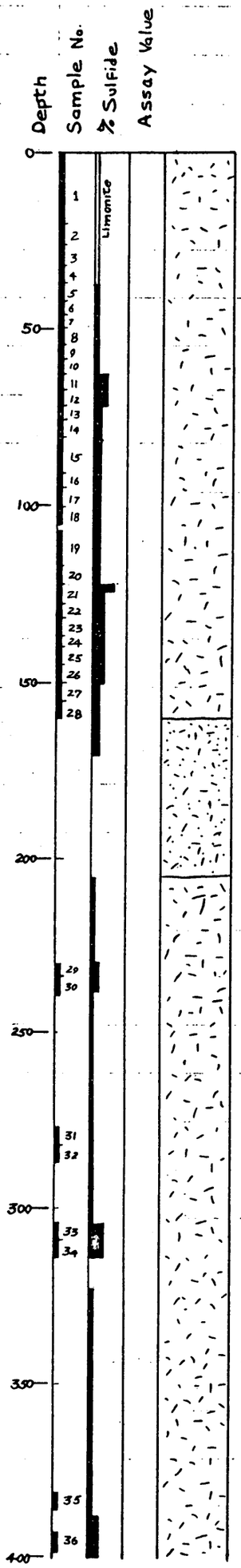
Hornblende Andesite

Microdiorite

757 FT. Bottom of hole

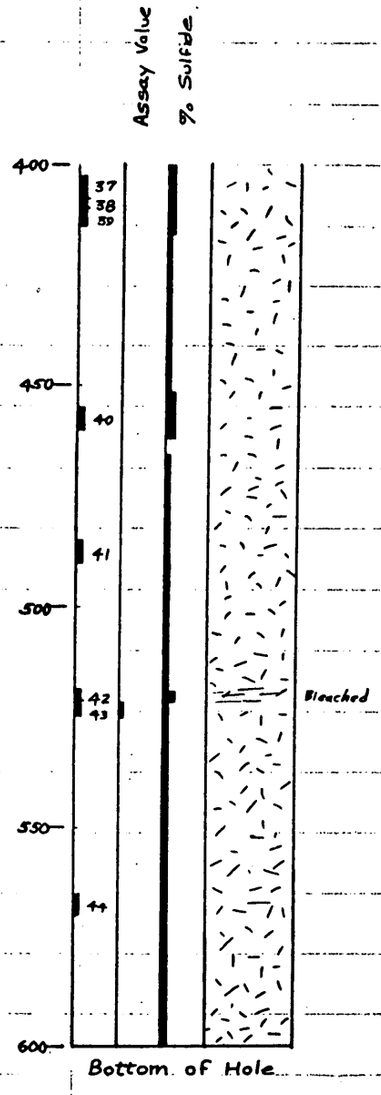
**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

Pinal County, Arizona
Hole No. 6
Hole Began--February 6, 1967
Hole Completed--February 20, 1967
Bearing of Hole--N. 10° W.
Inclination--minus 45°
Depth of Hole--601 feet.
Core Logged by: R. Janc and S. Hansen
Sample designation for assay: SM-6-xx



**BIG TREASURE MINING AND DEVELOPMENT CO.**
**SADDLE MOUNTAIN PROJECT**

**Hole No. 6 Continued**




Microdiorite

IN REPLY REFER TO:

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

Office of Minerals Exploration

March 3, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 6 1967

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Transmitted herewith are the original and two copies of the MME Form 60 (Operator's Monthly Voucher), MME Form 61 (Operator's Progress Report) and narrative for the month of January, 1967 on the above stated contract.

I certify the vouchers to be correct to the best of my knowledge and belief and recommend that payment be made.

J. William Hasler

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

MME FORM 60
SEPT. 1959

3/7/67/RMK

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 15 1967
INITIALS

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME-6548
Contract No.
14-23-090- 2231
Contract Amount $112,000.00
Gov't. Participation % 75 $84,000
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER For Month of January, 1967

Operator's Name Big Treasure Mining & Development Co.
Address 125 Sedgefield, San Ramon, Calif. 94583

| COST CATEGORIES | FOR OPERATOR'S USE | | | FOR GOVERNMENT APPROVAL ONLY | | |
|---|---|---|---|---|---|---|
| | MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| [redacted] Water Truck Rental | $ 190.00 | —0— | $ 190.00 | | | |
| [redacted] Bulldozing | —0— | $ 1,200.00 | $ 1,200.00 | | | |
| [redacted] NC | $ 144.40 | $ 152.00 | $ 296.40 | | | |
| Drilling NX WL | $ 351.90 | $ 1,242.00 | $ 1,593.90 | | | |
| —500' BX WL | $ 6,240.00 | $ 4,204.80 | $ 10,444.80 | | | |
| +500' BX WL | $ 3,077.40 | $ 1,773.30 | $ 4,850.70 | | | |
| (2) Personal Services: | 981390 | | | | | |
| Geologist-Engineer Supervision & Technical | $ 900.00 | $ 1,260.00 | $ 2,160.00 | | | |
| Outside Consultants | $ 225.00 | —0— | $ 225.00 | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| [redacted] Casing lost in hole | $ 87.60 | $178.20 | $ 265.80 | | | |
| [redacted] Additives-Cal Seal and Cement | $ 26.08 | $ 15.00 | $ 41.08 | | | |
| [redacted] Core boxes | $ 158.00 | $ 120.00 | $ 278.00 | | | |
| Rail | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4 wheel drive truck | $ 160.00 | $ 224.00 | $ 384.00 | | | |
| [redacted] " " Mileage | $ 144.00 | $ 239.76 | $ 383.76 | | | |
| Depreciation | | | | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Bulldozer Mobilization [redacted] | —0— | $ 100.00 | $ 100.00 | | | |
| Analytical Work | | | | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Book Keeping and Clerical Expense | $ 40.00 | $ 67.50 | $ 107.50 | | | |
| TOTALS | $11,744.38 | $10,776.56 | $22,520.94 | | | |

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

Date February 6, 1967* Payee Big Treasure Mining and Dev. Co.

Per [signature] Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 4128.29 14X0804

Signature JDM
(Authorized Certifying Officer)

Date MAR 15 1967 Vou. No. 7107

(SEE OTHER SIDE)

MAR 8 REC'D

MME FORM 60
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. _____
Contract No.
14-23-090- _____
Contract Amount $ _____
Gov't. Participation % _____ $ _____
Mineral(s) _____

## OPERATOR'S MONTHLY VOUCHER

For Month of _____

Operator's Name _____
Address _____

| COST CATEGORIES | FOR OPERATOR'S USE | | | FOR GOVERNMENT APPROVAL ONLY | | |
|---|---|---|---|---|---|---|
| | MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing | | | | | | |
| Drifting | | | | | | |
| Crosscutting | | | | | | |
| Drilling | | | | | | |
| | | | | | | |
| | | | | | | |
| (2) Personal Services: | | | | | | |
| Supervision & Technical | | | | | | |
| Outside Consultants | | | | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental | | | | | | |
| Purchase | | | | | | |
| Depreciation | | | | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | | | | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTALS | | | | | | |

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

Date _____ *Payee _____

Per _____ Title _____

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ _____

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. _____

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2236

Signature J. William Hasler Title Field Officer Date 2-23-67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 2-23-67

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of January, 1967 Docket No. OME. 6548

Operator's Name Big Treasure Mining and Development Co. Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| Casing lost in hole | Ft. | 30 | 140 | $265.80 | 30 | 140 | 265.80 |
| [redacted] Additives 2 Cal Seal 4 Cement | Sacks | 6 | 8 | $ 41.08 | 6 | 8 | 41.08 |
| Raising Core Boxes | boxes | 158 | 278 | $ 278.00 | 158 | 278 | 278.00 |
| Shafts Water Truck Rental | months | 1 month | 1 | $ 190.00 | 1 | 1 | 190.00 |
| Winzes | | | | | | | |
| Other Underground | | | | | | | |
| Drilling, Core-Diamond N.C. | Ft. | 19 | 39 | $ 296.40 | 19 | 39 | 296.40 |
| Rotary N.X. -500 | Ft | 51 | 231 | $ 1,593.90 | 51 | 231 | 1,593.90 |
| [redacted] BX | Ft. | 975 | 1,632 | $ 10,444.80 | 0 | 0 | 0 |
| +500 BX [redacted] | Ft. | 446 | 703 | $ 4,850.70 | 446 | 703 | 4,850.70 |
| Churn | | 1491 | | | | 9718 | |
| Percussion | | | | | | | |
| Miscellaneous Bulldozer | Hrs | -0- | 60 | $ 1,200.00 | 0 | 60 | 1,200.00 |
| Geologist-Engineer | months | 1 month | 2 and 12/30 | $ 2,160.00 | 1 | 2 12/30 | 2 160.00 |
| 4 wheel drive Truck rental [redacted] | months | 1 month | 2 and 12/30 | $ 384.00 | 1 | 2 12/30 | 384.00 |
| 4 wheel drive vehicle mileage [redacted] | miles | 1,200 | 3,198 | $ 383.76 | 1,200 | 3,198 | 383.76 |
| Outside Consultant [redacted] | Days | 3 | 3 | $ 225.00 | 3 | 3 | 225.00 |
| Book keeping and [redacted] Clerical | months | 1 month | 2 27/100 | $ 107.50 | 1 | 2 27/100 | 107.50 |
| Other Surface Work Bulldozer Mobilization | | -0- | all | $ 100.00 | | 1/2 | 50.00 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | | | | |
| TOTAL TO DATE (per MME Form 60) | | | | $22,520.94 | | | 12,026.14 |

**REMARKS**

(Continue on back)

**REMARKS**

Disallow 975 ft. BXWL @ $6.40/ft totalling $6,240 as no BXWL footage between 0-500 ft is provided in contract. An amendment is being prepared to include this category. The operator has furnished statements on analytical work but has not entered them on the ledger.

(Continue on back)

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

Date February 6, 1967 Operator Big Treasure Mining & Dev. Co.

Per [signature] Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasen

Title Field Officer
Government Representative

Date February 23, 1967

(INSTRUCTIONS ON REVERSE)

MAR 8 REC'D

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP., D.C.59- 27168

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Big Treasure Mining & Development Co.
125 Sedgefield
San Ramon, Calif. 94583

| Amount Claimed: | Differences (Explained Below) | Amount Approved |
|---|---|---|
| $11,744.38 | $6,240.00 | $5,504.38<br>$4,128.29 Govt. Participation |
| Bu. Voucher No. | Payee's Invoice No. | Period |
| | Docket #6548 Contract #2231 | January 1967 |

EXPLANATION

$6,240.00 - Disallowed 975 ft BKWL at $6.40 ft as no BKWL footage between 0-500 is provided in contract. An amendment is being prepared to include this category.

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister
Branch of Budget and Finance

To Big Treasure Mining and Development Co
125 Sedgefield
San Ramon, California

Bookkeeping and clerical expense for January, 1967

$49.51

Mary Sandberg

Mary Sandberg
7728 San Sabana Ct
Dublin, California 94566

SPENST M. HANSEN
SAN RAMON, CALIFORNIA

STATEMENT

TO: BIG TREASURE MINING AND DEVELOPMENT CO.
125 SEDGEFIELD
SAN RAMON, CALIFORNIA

Date February 6, 1967

| INVOICE DATE | INVOICE NO. | | AMOUNT |
|---|---|---|---|
| Feb. 1, 1967 | | BALANCE FORWARD | |
| | | Rental of 4 wheel drive International Scout pickup truck for period January 1 through January 31, 1967. | $160.00 |
| | | Mileage at 12¢ per mile (1,200 miles) | $144.00 |
| | | TOTAL | $304.00 |

JANC and LEWIS
Geologists
523 Colorado Building
Denver, Colorado
80202

222-9167

January 31, 1967

Mr. S. W. Hanson
Big Treasure Mining & Develop. Co.
125 Ridgefield Court
San Ramon, California

Dear Mr. Hanson:

I herewith submit a statement for geological services to Big Treasure Mining and Development Co. on the Adobe Mountain, Arizona, project for the month of January, 1967. Also included, is a statement for expenses incurred during the same month.

A. Geologists' retainer fee for January, 1967 ..... 900.00

B. Expenses for January, 1967

| | |
|---|---|
| 12/31/67. Lunch at Cedars Restaurant for Dr. R. Kimball, Mr. Ted Hanks and self. ..... | 3.57 |
| Postage stamps | 3.00 |
| Welding, seal caps for completed drill holes | 3.00 |
| Nails | .70 |
| Rat poison for core storage shed | .40 |
| Legal pads, envelopes, office supplies | 4.50 |
| Sample shipping charges | 5.35 |
| | 20.52 |

Reimbursement due 20.52

Respectfully submitted
Ronald A. Janc

Spenst M. Hansen, Ph.D.
MINING GEOLOGIST
125 Sedgefield Court
San Ramon, California 94583
Phone (415) 828-4126

JANUARY 31, 1967

STATEMENT:

CONSULTING FEES FOR GEOLOGIC WORK ON THE LITTLE TREASURE-ADJUST MINING PROPERTY IN PINAL COUNTY, ARIZONA DURING THE WEEK OF JANUARY 20 through 27, 1967.

3 days work at $75.00 per day- - - - - -$225.00

SINCERELY

Spenst M. Hansen

SPENST M. HANSEN
Consultant Mining Geologist

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

# Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN, CALIF.
SANTIAGO, CHILE
LIMA, PERU

INVOICE DATE: January 31-1967
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 6-426
TERMS:
LOCATION: Saddle Mtn area Winkelman arizona

Big Treasure Mining & Development Co.
125 Sedgefield Court
San Ramon, California 94583

| HOLE NO. | FROM | TO | FOOTAGE | RATE | TOTAL |
|---|---|---|---|---|---|
| Hole # 2 | 0 | 9' | 9' NCBW | 7.60 | 68.40 |
| | 9' | 30' | 21' NX | 6.90 | 144.90 |
| | 30' | 402' | 372 BX | 6.40 | 2380.80 |
| | | | | | 2594.10 |
| | Core Boxes | | 43 Boxes | 1.00 | 43.00 |
| | Portland | | 2 Bags | 2.06 | 4.12 |
| | Cal seal | | 1 Bag | 8.92 | 8.92 |
| | Casing Lost in Hole | | 1 10' Length | 29.20 | 29.20 |
| | | | | TOTAL = | 2679.34 |
| | | | Water Truck Rental | | 190.00 |
| | | | Hole # 4 | | 2360.40 |
| | | | Hole # 1 | | 5036.72 |
| | | | Hole # 2 | | 2679.34 |
| | | | | TOTAL = | 10,266.46 |

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

# Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN, CALIF.
SANTIAGO, CHILE
LIMA, PERU

INVOICE DATE: JANUARY 31 1967
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: 6-426
TERMS:
LOCATION: SADDLE MTN AREA WINKELMAN ARIZONA

BIG TREASURE MINING & DEVELOPMENT CO.
125 SEDGEFIELD COURT
SAN RAMON, CALIFORNIA 94583

| HOLE NO. | FROM | TO | FOOTAGE | RATE | TOTAL |
|---|---|---|---|---|---|
| Hole # 4 | 357' | 500' | 143' BX | 6.40 | 915.20 |
| | 500' | 700' | 200' BX | 6.90 | 1380.00 |
| | | | | | 2295.20 |
| | CASING LOST IN HOLE | | 1 10' LENGTH | 29.20 | 29.20 |
| | CORE BOXES | | 36 BOXES | 1.00 | 36.00 |
| | | | | TOTAL | $2,360.40 |

PJ.

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

# Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

General Offices and Plant
1624 Pioneer Road P. O. Box 58 Phone 487-7595
SALT LAKE CITY, UTAH 84110

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
AUBURN, CALIF.
SANTIAGO, CHILE
LIMA, PERU

INVOICE DATE: January 31 - 1969
ORDER NUMBER:
INVOICE NUMBER:
CONTRACT: L - 42L
TERMS:
LOCATION: Saddle Mtn area Wickelman Arizona

Big Treasure Mining + Development Co.
125 Sedgefield Court
San Ramon, California, 94583

| HOLE NO. | FROM | TO | FOOTAGE | RATE | TOTAL |
|---|---|---|---|---|---|
| Hole # 1 | 0 | 10' | 10' NCBW | $ 7.60 | 76.00 |
| | 10' | 40' | 30' NX | 6.90 | 207.00 |
| | 40' | 500' | 460' BX | 6.40 | 2944.00 |
| | 500' | 746' | 246' BX | 6.90 | 1697.40 |
| | | | | | 4974.40 |
| | Core Boxes | | 79 Boxes | 1.00 | 79.00 |
| | Casing Lost in Hole | | 1 - 10' Length | 29.20 | 29.20 |
| | Port Land Cement | | 2 Bags | 2.06 | 4.12 |
| | | | | Total | 5036.72 |

BIG TREASURE
Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

February 6, 1967

OME Region III
RECEIVED
FEB 10 1967
Denver, Colorado

Mr. J. William Hasler
Field Officer, Region 3
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado 80225

Subject: OME - 6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed herewith please find four copies each of MME Form 60 "Operators Monthly Voucher" and MME Form 61 "Operators Progress Report". These report forms cover the month of January, 1967. Each copy is signed, dated and certified to be correct. Work on this contract continued throughout the month of January, During the month holes No. 4 and No. 1 were completed. Approximately 400 feet of hole No. 2 was completed.

Below is given our narrative report of the work performed during the month of January, 1967.

(1) January 1 through January 7--Drill hole No. 4 was completed. The drill equipment was moved to the location of hole No. 1. The hole was completed on January 6 to the contract depth of 700 feet. Drilled during the month was the interval from 357 to 700 feet.

(2) January 9 through January 21--Drill hole No. 1 was begun and completed. Forty feet of hole was drilled NX size and cased. The remainder of the hole was drilled BX and uncased. Hole No. 1 was continued below the depth of 700 feet specified in the contract. The hole was terminated at 746 feet. Mineralized zones were encountered (see assay reports). The most important one of these was a six foot zone of pyritized and calcitized vein material with some silver mineralization from about 718 to 724 feet.

(3) January 23 through January 31--Four hundred and two (402) feet of hole was drilled at Site No. 2. Thirty feet of this was NX size and cased, the remainder was not cased and was BX size. At the end of the report period, the hole was continuing. Estimated time of completion is February 3 or 4.

(4) During this entire report period, the work was supervised in the field by Mr. Ronald A. Janc who directed and supervised the drilling

preserved and logged the core, cut samples for assay from the core and kept track of the project to guarantee that the provisions of the contract were followed and that all obtainable information was collected and evaluated.

The following listed appendices are attached to this letter:

Appendix A: Lithologic drill logs prepared by Ronald A. Janc and S. M. Hansen of cores obtained thus far from the drilling.

Appendix B: Assay results from sampling.

Appendix C: Requests for contract amendments.

Sincerely

David H. Kimball, President
Big Treasure Mining and Development Company.

SMH:s
Encl.

R. R. CASTO P. M. CRISMON ORRIN FISHER HAROLD E. CULVER

# CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

PHONE EM.3-7417 229-231 SOUTH WEST TEMPLE STREET P. O. BOX 1708

## REPORT OF ASSAY

SALT LAKE CITY, UTAH February 7, 1967

Big Treasure Mining Co.

WE HAVE ASSAYED YOUR nine SAMPLES AND FIND them TO CONTAIN AS FOLLOWS:

| DESCRIPTION | NO. | OZS. GOLD PER TON | OZS. SILVER PER TON | PER CENT LEAD | PER CENT COPPER | PER CENT ZINC | PER CENT INSOL. | PER CENT IRON | PER CENT | VALUE OF GOLD PER TON |
|---|---|---|---|---|---|---|---|---|---|---|
| SM-1 | 31 | Trace | Trace | | | | | | | |
| " | 32 | Trace | 0.10 | | | | | | | |
| " | 33 | 0.06 | 1.35 | | | | | | | $ 2.10 |
| " | 34 | 0.01 | 0.20 | | | | | | | 35¢ |
| " | 35 | Trace | Trace | | | | | | | |
| " | 36 | 0.07 | 6.35 | | | | | | | $ 2.45 |
| " | 37 | 0.18 | 15.80 | ✓ | | | | | | $ 6.30 |
| " | 38 | 0.09 | 9.50 | | | | | | | $ 3.15 |
| " | 39 | Trace | 0.10 | | | | | | | |

REMARKS:

CHARGES $ 27.00

CRISMON & NICHOLS

BY P. M. Crismon

R. R. CASTO P. M. CRISMON ORRIN FISHER HAROLD E. CULVER

CRISMON & NICHOLS
ASSAYERS AND CHEMISTS
229-231 SOUTH WEST TEMPLE STREET

PHONE EM 3-7417 P. O. BOX 1708

# REPORT OF ASSAY

SALT LAKE CITY, UTAH January 31, 1960

Big Treasure Mining & Development Co. PAGE ONE

WE HAVE ASSAYED YOUR sixty-six SAMPLES AND FIND them TO CONTAIN AS FOLLOWS:

| DESCRIPTION | NO. | OZS. GOLD PER TON | OZS. SILVER PER TON | PER CENT LEAD | PER CENT COPPER | PER CENT ZINC | PER CENT INSOL. | PER CENT IRON | PER CENT | VALUE OF GOLD PER TON |
|---|---|---|---|---|---|---|---|---|---|---|
| SM | 1-1 | Trace | Trace | | | | | | | |
| " | 1-2 | Trace | Trace | | | | | | | |
| " | 1-3 | Trace | Trace | | 0.05 | | | | | |
| " | 1-4 | Trace | Trace | | | | | | | |
| " | 1-5 | Trace | Trace | | | | | | | |
| " | 1-6 | Trace | Trace | | | | | | | |
| " | 1-7 | Trace | Trace | | | | | | | |
| " | 1-8 | Trace | Trace | | | | | | | |
| " | 1-9 | Trace | Trace | | | | | | | |
| " | 1-10 | Trace | Trace | | | | | | | |
| " | 1-11 | Trace | Trace | | | | | | | |
| " | 1-12 | Trace | Trace | | | | | | | |
| " | 1-13 | Trace | Trace | | | | | | | |
| " | 1-14 | Trace | Trace | | | | | | | |
| " | 1-15 | Trace | Trace | | | | | | | |
| " | 1-16 | Trace | Trace | | | | | | | |
| " | 1-17 | Trace | Trace | | | | | | | |
| " | 1-18 | Trace | Trace | | | | | | | |
| " | 1-19 | Trace | Trace | | | | | | | |
| " | 1-20 | Trace | Trace | | | | | | | |
| " | 1-21 | Trace | Trace | | | | | | | |
| " | 1-22 | Trace | Trace | | | | | | | |
| " | 1-23 | Trace | Trace | | | | | | | |
| " | 1-24 | Trace | Trace | | | | | | | |
| " | 1-25 | Trace | Trace | | | | | | | |
| " | 1-26 | Trace | Trace | | | | | | | |
| " | 1-27 | Trace | Trace | | | | | | | |
| " | 1-28 | Trace | Trace | | | | | | | |
| " | 1-29 | Trace | Trace | | | | | | | |
| " | 1-30 | Trace | Trace | | | | | | | |
| " | 4-1 | Trace | Trace | | | | | | | |
| " | 4-2 | Trace | Trace | | | | | | | |
| " | 4-3 | Trace | Trace | | | | | | | |

REMARKS:

CHARGES $ See Page Two

CRISMON & NICHOLS
BY [signature]

R. R. CASTO P. M. CRISMON ORRIN FISHER HAROLD E. CULVER

CRISMON & NICHOLS
ASSAYERS AND CHEMISTS
229-231 SOUTH WEST TEMPLE STREET

PHONE EM 3-7417 P. O. Box 1708

# REPORT OF ASSAY

SALT LAKE CITY, UTAH January 31, 1967

Big Treasure Mining & Development Co. PAGE TWO

WE HAVE ASSAYED YOUR sixty-six SAMPLES AND FIND them TO CONTAIN AS FOLLOWS:

| DESCRIPTION | NO. | OZS. GOLD PER TON | OZS. SILVER PER TON | PER CENT LEAD | PER CENT COPPER | PER CENT ZINC | PER CENT INSOL. | PER CENT IRON | PER CENT | VALUE OF GOLD PER TON |
|---|---|---|---|---|---|---|---|---|---|---|
| SM | 4-4 | Trace | Trace | | | | | | | |
| " | 4-5 | Trace | Trace | | | | | | | |
| " | 4-6 | Trace | Trace | | | | | | | |
| " | 4-7 | Trace | Trace | | | | | | | |
| " | 4-8 | Trace | Trace | | | | | | | |
| " | 4-9 | Trace | Trace | | | | | | | |
| " | 4-10 | Trace | Trace | | | | | | | |
| " | 4-11 | Trace | Trace | | | | | | | |
| " | 4-12 | Trace | Trace | | | | | | | |
| " | 4-13 | Trace | Trace | | | | | | | |
| " | 4-14 | Trace | Trace | | | | | | | |
| " | 4-15 | Trace | Trace | | | | | | | |
| " | 4-16 | Trace | Trace | | | | | | | |
| " | 4-17 | Trace | Trace | | | | | | | |
| " | 4-18 | Trace | Trace | | | | | | | |
| " | 4-19 | Trace | Trace | | | | | | | |
| " | 4-20 | Trace | Trace | | | | | | | |
| " | 4-21 | Trace | Trace | | | | | | | |
| " | 20-1 | 0.10 | 11.10 | | | | | | | $ 3.50 |
| " | 20-2 | Trace | Trace | | | | | | | |
| " | 20-3 | 0.03 | 32.75 | 1.95 | | | | | | $ 1.05 |
| " | 20-4 | 0.02 | 0.80 | None | | | | | | 70¢ |
| " | 20-5 | Trace | Trace | | | | | | | |
| " | 20-6 | Trace | Trace | | | | | | | |
| " | 20-7 | Trace | 0.20 | | | | | | | |
| " | 20-8 | Trace | 0.20 | | 0.60 | | | | | |
| " | 20-9 | 0.47 | 1.10 | | 4.40 | | | | | $ 16.45 |
| " | 20-10 | Trace | Trace | | 0.15 | | | | | |
| " | 20-11 | Trace | Trace | | | | | | | |
| " | 20-12 | Trace | Trace | | | None | | | | |
| " | 20-13 | 0.02 | 10.60 | 0.10 | | 0.20 | | | | 70¢ |
| " | 20-14 | Trace | 1.60 | | | | | | | |
| " | 20-15 | Trace | 0.20 | | | | | | | |

REMARKS:

CHARGES $ 211.50

CRISMON & NICHOLS
BY [signature]

# DIAMOND CORE HOLE NO. 1

Big Treasure Mining and Development Co.
125 Sedgefield, San Ramon, California

| | |
|---|---|
| Mining Property: | Saddle Mountain Mining District, Pinal County, Ariz |
| Location of Hole: | Approximately N.27°E., 1800 ft. from U.S.M.M. No. 2180. S.W. ¼ of Section 35, T.4.S., R. 16. E. |
| Depth of Hole: | 746 feet |
| Bearing: | S. 45° E. |
| Inclination: | -60° |
| Hole Size: | 10 ft. NC with 10 ft. collar pipe.<br>30 ft. NX with casing to 40 ft. |
| Began Coring: | January 9, 1967. Completed Hole: Jan. 21, 1967 |
| % Recovery: | 90 to 100% |
| Contractor: | Boyles Brothers Drilling Company |
| Core Description By: | Spenst M. Hansen, Consulting Geologist |
| Remarks: | Hole was drilled entirely with untreated creek water. No unusual problems were encountered. |

---

## LITHOLIGIC DESCRIPTION OF CORE

| Footage | Core Recovery | Assays | Description |
|---|---|---|---|
| 0-12 | 2½ ft. | | Brownish gray porphyritic ANDESITE with some narrow calcite veinlets and locally abundant phenocrysts of zeolite. Local reddish cast from iron and manganese oxides. Some local iron staining. Weathering and surface oxidation is apparent. |
| 12-18 | 7½ ft. | | Weathered gray to brown ANDESITE. Some local iron staining phenocrysts of ferro-magnesian minerals, probably mainly hornblende and chlorite make up as much as 20% of the rock. Phenocryst size varies from .08 to .2 of an inch. No mineralization apparent, although some of the iron staining could have resulted from oxidation of iron pyrites. |
| 18-20 | 2 ft.<br>100% | | Weathered brownish gray ANDESITE similiar to that described in the previous interval. Rock shows less weathering at the bottom of the interval. No mineralization apparent. |
| 20-23 | 3 ft.<br>100% | | Greenish gray ANDESITE fairly fresh. Plagioclase and chlorite phenocrysts up to ½ inch across. Iron staining along fractures. No mineralization apparent. |
| 23-27 | | | A litholigic change occurs at 23 ft. Chlorite phenocrysts are still present although not as abundant as above. Lath shaped phenocrysts of white mineral probably plagioclase make up approximately 15% of the rock. A greenish chlorite mineral is also present in abundance. Calcite is locally abundant, and is present in occasional veinlets as much as .2 of an inch thick. |
| 27-33 | 6 ft.<br>100% | | Reddish to gray porphyritic ANDESITE, similiar to the interval described above, with phenocrysts of dark green chlorite abundant in the lower 2 ft. of the interval. These phenocrysts make up approximately 20% of the total rock |

| Footage | Core Recovery | Assays | Description |
|---|---|---|---|
| | | | mass and vary from .05 to .2 inches across. No mineralization present but at the bottom of the interval a fracture inclined at 30° from the core direction is filled with hematite disseminated in calcite. |
| 33-40 | 7 ft. 100% | | A litholigic change occurs at 33 ft. grading over a distance of about one ft. The rock is a greenish gray fine grained ANDESITE tending towards basalt in composition. Phenocrysts of dark green ferromagnesian minerals, mainly chlorite, make up from 15 to 20% of the rock. These phenocrysts have a maximum dimension as great as 3/4". Fragments of serpentine resembling obsidian as large as ½" across are present near the bottom of the interval. Several fractures inclined about 30° from the direction of the core are filled with assorted carbonates, some of which contained disseminated hematite. Minor veinlets of rhodochrosite are present and rhodochrosite also fills some of the larger fractures. No mineralization noted. |
| 40-50 | 10 ft. 100% | | Very dark gray colored porphyritic basalt. Phenocrysts of calcite, plagioclase and hornblende. Texture resembles diabase. Local portions of the core contain disseminated pyrite occupying as much as 10% of the rock volume. Iron oxides are common along the fractures, constituting veinlets as much as ½ inch across. |
| 50-56 | 6 ft. 100% | | Very dark gray uniform basalt porphyry, similiar to that described in the previous interval. The later part of the interval grains into maroonish gray ANDESITE porphyry with laths of plagioclase up to 1/10 inch in length. |
| 56-66 | 10 ft. 100% | | Reddish gray ANDESITE porphyry with narrow lath shaped phenocrysts of plagioclase. Blebs of hematite about .03 inches across are disseminated throughout. Serpentine is locally abundant, as is also a blueish-green mineral presumed to be chlorite. The rock has a varigated mottled appearance. Irregular masses of carbonate (probably rhodoclosite) are locally abundant, particularly near the bottom of the interval. See sample SM-1-3. |
| 66-70 | 3½ ft. | | This rock is mottled in appearance and consists basically of reddish-gray ANDESITE with abundant blebs of red hematite and carbonate, (calcite and rhodocrosite). A green chlorite mineral is abundant. No sulphide minerals are noted. |
| 70-78 | 10 ft. 100% | | Dark gray ANDESITE to basalt. Contains veinlets and blebs of chlorite up to ⅛ inch across. Chlorite varies from dark green to very light green. Texture resembles diabase. Occasional very small particles disseminated pyrite. |
| 78-88 | 10 ft. 100% | | Dark gray ANDESITE to basalt. Similiar to above interval. Dark green chlorite masses are smaller. Near the base of the interval, serpentine resembling absidian coats some fracture planes. |
| 88-97 | 10 ft. 100% | | Dark gray ANDESITE to basalt similiar to above interval. Veinlets of reddish hematite up to ¼ inch thick locally present. Local veinlets and blebs of calcite and gypsum. Occasional blebs of zeolite typically ¼ inch across. Texture similiar to diabase |
| 96-107 | 10 ft. 100% | | Medium to dark gray ANDESITE. Diabasic texture local of chlorite, hematite and zeolite. One small fragment of mycrodiorite 6" thick at 98 ft. |

| Footage | Core Recovery | Assays | Description |
|---|---|---|---|
| 107 - 114 | 8ft. 100% | | Dark gray ANDESITE with diabasic texture. |
| 114-125½ | 12 ft. 100% | | Very fine grained maroonish gray colored ANDESITE. Uniform color and texture throughout. Texture appears like broken porcelain. Near 120 ft. irregular narrow veinlets of calcite were present. |
| 125½-134 | 10 ft. 100% | | Very fine grained maroonish gray ANDESITE. Similiar to above interval. Occasionally narrow veinlets of calcite. Occasional green chloritic mottling. No sulphide noted. |
| 134-144 | 10 ft. 100% | | Very fine grained maroonish gray ANDESITE similiar to above two intervals. Veinlets of calcite better developed. As much as .02 inch across. Green chloritic interval at 143 ft. with dissemination of very fine grained pyrite. |
| 144-151 | | | Fine to very fine grained gray ANDESITE. Some with maroonish cast. Some mottling with green chlorite. |
| 151-154 | 100% | | Poorly sorted lithic sandstone with chloritic matrix (graywocke). Fragments include ANDESITE basalt and other rock types. Largest fragments about ½ inch across. |
| 154½-158 | | | Lithic sandstone with size of fragments increasing towards base of interval. Fragments of ANDESITE and basement crystalline rock are common. Cobble conglomerate. Matrix consists of graywocke sandstone with cobbles as large as 6". The lithic fragments (cobbles) consist predominantly of basement rock including quartzite, granite, and arkosic sandstone. |
| 173-182 | 100% | | Pebble conglomerate similiar to above interval. Lithic fragments of ANDESITE common. |
| 181-186 | 100% | | Pebble conglomerate similiar to above interval except the size of lithic fragments increases downward. |
| 186-200 | 100% | | Fine grained dacite porphyry. Color is light gray. Contains irregular blebs and veinlets of calcite and phenocrysts of hornblende. |
| 200-208 | | | Fine grained, light gray microdiorite. Porphyry, similiar to above interval. |
| 208-218 | 100% | | Light gray microdiorite similiar to above interval except numerous veinlets of calcite as much as ⅛ inch thick are present. Some chlorite is also present along fracture surfaces. Irregular blebs of calcite are abundant throughout the rock mass, as large as ½" across. |
| 218-228 | 100% | | Medium gray fine grained microdiorite with irregular veinlets and blebs of calcite. Inclusions of zeolite also present. |
| 228-237 | 100% | | Fine grained medium gray basite porphyry. (This rock could possibly be a very fine grained intrusive equilevant). Numerous veinlets of pink calcite (rhodocrosite) transect the core at about 45°. These could represent veinlets along volcanic bedding planes. No mineralization. |

| | | |
|---|---|---|
| 237-246 | | Fine grained basite porphyrite. Lithic fragments in the central portion of the interval are as much as 2" across.and represent approximately the same composition. Numerous small veinlets of calcite are present particularly in the central part of the interval. Abundant disseminated pyrite is also present, some grains are .025 inches across, some about flour size. In the lower portion of the interval, the pyrite occurs in disseminations and streaks and is very abundant |
| 246-255 | | Very fine grained, even textured aphanitic rock. Irridescence indicates very fine grained SULPHIDE may be disseminated. Larger pyrite grains occur near the bottom of the interval. Chlorite occurs along fracture planes. Pyritic banding tends to be oriented about 45° to the direction of the core, as do most of the fractures, some of which are filled with calcite. Some textural banding with the same approximate orientation is also observed. |
| 255-260 | 100% | Medium to light gray colored very fine to medium grained aphanite. Pyrite disseminated throughout the interval. |
| 260-274 | 100% | Medium grained microdiorite.porphyry. Phenocrysts constitute about 40% of the rock and vary in size up to 1/10 inch. Veinlets of calcite are common. Pyrite disseminated throughout the interval. Other SULPHIDES are also present but are too fine grained to permit positive identification. |
| 274-279 | 100% | Medium grained gray microdiorite similiar to above interval. Blebs of pyrite up to 1/10 inch across are disseminated throughout the interval. Phenocrysts of quartz and feldspar are abundant. |
| 279-285 | 100% | Fine to medium grained microdiorite. Some disseminated pyrite. |
| 285-300 | | Interbedded layers 2 to 3 feet thick of black shale (?) and medium grained shaley sandstone. Pyrite disseminated abundantly throughout. Banding oriented from 15° to 25° from the direction of the core. Interbedded bands of almost pure pyrite along with irregular blebs common throughout the black shale. Numerous veinlets of calcite as much as ½ inch thick throughout the interval. |
| 300-310 | 100% | Very fine grained black massive shale interbedded with thin bands and layers of sandstone of medium gray color. Pyrite disseminated throughout. The shale near the lower part of the interval shows a concoidal fracture. |
| 310-321 | About 10' of badly broken core. Approximate recovery 70% | Brittle dark gray shale similiar to above intervals but with less gray sandstone. Fracture is concoidal. Fractures shows some calcite, but are poorly healed. Very fine grain pyrite disseminated throughout. |
| 321-330 | | Very dark gray to black very fine grained shale. Thin bands of sandy material oriented about 25° to the direction of the core. Occasional blebs and seamlets of calcite. Lithic fragments up to 2/10 inch becoming common near the bottom of the interval. Very fine grained pyrite disseminated throughout with seamlets up to 1/10 inch across and blebs up to 2/10 inches across also common. |

| | | |
|---|---|---|
| 331-333 | 100% | Dark gray to black siltstone containing lithic fragments up to 1 inch across. Abundant PYRITE in irregular fragments up to ¼ inch across. Bottom of the interval has sharp contact with light gray latite porphyry intrusive. |
| 333-340 | | Light gray latite porphyry with a distinct greenish cast. Pink feldspar phenocrysts. Abundant quartz. PYRITE disseminated throughout. |
| 340-348 | | Latite porphyry similiar to above interval. Disseminated PYRITE abundant, growing less common at the bottom of the interval. Sharp contact with the underlying rock. |
| 348-359 | | Fine grained hard rock, probably sedimentary origin. Very dark gray to black at base varying to medium gray at the top of the interval. Lithic fragments up to 2/10 inch consisting of volcanic rocks and basement rock, principally quartzite are common throughout. Occasional zones of abundant PYRITE are present. In general, however, PYRITE is scarce. |
| 359-369 | | Dark gray siltstone containing abundant lithic fragments of volcanic and basement rock. No visible PYRITE. Lithic fragments up to 1 inch across. Volcanic fragments predominate. No mineralization noted. |
| 369-371 | | Similiar to above interval. Lithic fragments contained in dark gray sandstone. The largest fragment is 3" across and consists of pink granite. A contact at 371 appears almost gradational but below this contact the rock is fine grained ANDESITE. |
| 371-387 | | Fine grained dark gray ANDESITE porphyry. Local bands maroonish red in color. Dissemated PYRITE noted throughout the interval becoming more prevalent between 375 and 380 feet. PYRITE scarce or absent near the base of the interval. |
| 387-396 | | Brownish gray ANDESITE porphyry shows flow breccia structure near the base. No PYRITE noted. |
| 396-406 | 100% | Dark gray to medium reddish gray ANDESITE flow breccia. No mineralization. |
| 406-416 | | Reddish gray ANDESITE flow breccia. Blebs of green chlorite and red oxidized fragments disseminated throughout. No mineralization noted. |
| 416-426 | 100% | Reddish gray ANDESITE flow breccia similiar to above intervals. Some epidote noted near the base. No mineralization. |
| 426-436 | | Similiar to above interval. Epidote and chlorite disseminated. |
| 436-445 | 100% | Reddish dark gray ANDESITE flow breccia similiar to above intervals. At 441 feet a PYRITIZED zone about 1 ft. wide containing abundant calcite is present. Rock here has a uniform fine grained texture and is bleached to light gray. Orientation of the calcite veinlet is about 45° to the direction of the core. |

| | | |
|---|---|---|
| 445-454 | 100% | Reddish gray ANDESITE flow breccia. Some zeolite near bottom of interval. No mineralization noted. |
| 454-464 | | Reddish gray ANDESITE flow breccia similiar to above interval. |
| 464-474 | | Medium gray ANDESITE flow breccia. Epidote increases in abundance over interval above. No mineralization. |
| 474-483 | 100% | Medium gray ANDESITE flow breccia similar to above interval. No mineralization. |
| 483-493 | 100% | Medium gray ANDESITE flow breccia similar to above interval. Irregular blebs and veinlets of a pinkish white mineral, presumed to be zeolite are present. |
| 493-502 | | Medium gray ANDESITE flow breccia. Irregular masses of white calcite several inches across occur near the center of the interval. No mineralization was noted. |
| 502-511 | | Medium gray ANDESITE flow breccia. Some of the fragments are as big as 4" across and are reddish in color. No mineralization. |
| 511-521 | | Medium reddish gray ANDESITE flow breccia similar to above intervals. Serpentine (talc) veinlets abundant near bottom of interval. No mineralization. |
| 521-530 | 100% | Medium gray ANDESITE flow breccia. Some calcite veinlets. No mineralization. |
| 530-536 | | Medium gray ANDESITE flow breccia, similar to above interval. |
| 536-550 | 75% | Fine grained massive diabase intrusive. Veinlets and blebs of calcite and zeolite are present. Higher density and greater hardness than the ANDESITE in the above intervals. |
| 550-552 | | Reddish dark gray ANDESITE porphyry. Some small grains of PYRITE visible in the top six inches. Sharp contact at any angle of about 45° with the direction of the core at the bottom. Veinlets of serpentine and calcite at contact. |
| 552-555 | | Bleached fine grained porphyry probably latite. Could be bleached ANDESITE. Abundant light green chlorite. Numerous veinlets of calcite, particularly at the lower portion. Abundant disseminated PYRITE. PYRITE veinlets up to 2/10 inch thick adjacent to calcite stringers. Attitude of veinlets is about 30° from core direction. |
| 555-561½ | | Reddish dark gray ANDESITE porphyry. Occasional narrow calcite veinlets. Irregular masses of green chlorite up to ½ inch across. Disseminated throughout bottom 1 ft. |
| 561½-564 | | Very fine grained light gray latite porphyry. Abundant PYRITE disseminated in fine grains. Near center of interval, numerous calcite veinlets oriented about 30° to direction of core. Indication of other very fine grained SULPHIDE mineralization. Towards the bottom of the interval grades laterally into reddish dark gray ANDESITE flow breccia. |

| | | |
|---|---|---|
| 564-569 | 100% | Very fine grain disseminated PYRITE and possibly other SULPHIDE mineralization. Thin veinlets of calcite usually oriented to about 45° to the direction of core. |
| 569-578 | 100% | Reddish dark gray ANDESITE porphyry. Occasional irregular masses of chlorite and epidote. Diabasic texture. No mineralization. |
| 578-587 | | Reddish dark gray ANDESITE porphyry. Similar to above interval. Lower portion appears to be flow breccia. Gradational contact with interval below. |
| 587-598 | 100% | Reddish dark gray ANDESITE porphyry. Shows flow breccia structure. The two feet between 587 and 589 is bleached to light gray and is finer textured. No mineralization noted throughout the interval. |
| 598-607 | 100% | Reddish medium ANDESITE flow breccia. Occasional fine grain zones 1 - 4 inches thick. No mineralization noted. |
| 607-617 | 100% | Dark gray to reddish dark gray ANDESITE flow breccia similar to above interval. No mineralization. |
| 617-626 | | Dark gray ANDESITE flow breccia similar to above interval. No mineralization noted. |
| 626-636 | 100% | Dark gray ANDESITE flow breccia. Breccia fragments have a maximum size of 6" across. No mineralization noted. |
| 636-645 | 100% | Dark gray to reddish dark gray ANDESITE flow breccia. Similar to above interval. Individual breccia fragments vary up to 6-8 inches across. No mineralization noted. |
| 645-655 | | Dark gray to reddish dark gray ANDESITE flow breccia. Occasional zones up to 1 ft. thick of very fine grained ANDESITE without the flow breccia structure. No mineralization noted. |
| 655-664 | | Dark gray ANDESITE flow breccia. Several fine grained bleached zones are present. No mineralization. |
| 664-671 | 100% | Fine grained dark gray ANDESITE porphyry. Near the bottom of the interval are irregular inclusions of volcanic porphyry rocks. The content of chlorite increases towards the bottom of the interval. No mineralization |
| 671-678 | | Irregular fragments of gray ANDESITE included within a bottlegreen matrix composed of epidote or perhaps chlorite (?). No mineralization noted. |
| 678-693 | 100% | Very fine grained ANDESITE to basalt porphyry. Veinlets and irregular masses of serpentive, calcite and zeolite. Seams of serpentine usually from about 45° to 60° from the direction of the core constitute planes of weakness. No mineralization was noted. |
| 692-701 | 100% | Very fine grained dark gray ANDESITE to basalt porphyry. Occasional fine veinlets of |

| | | |
|---|---|---|
| | | calcite oriented about 60° to the core direction. Numerous veinlets of serpentine oriented usually 30° or 60° from the direction of the core. These constitute planes of weakness as in the previous interval. No mineralization. |
| 701-702 | 100% | Very dark gray fine grained ANDESITE to basalt porphyry. Veinlets of calcite and serpentine along fractures similar to above interval. No PYRITE or other mineralization noted. |
| 710-720 | 100% | Fine grained very dark gray ANDESITE to basalt porphyry. Numerous veinlets of calcite. Last 2 ft. of the interval contained irregular masses and veinlets of light green chlorite with the matrix being reddish gray in color. The bottom 3/4 of the foot is heavily PYRITIZED. |
| 720-724 | 100% | Reddish gray to maroon gray ANDESITE porphyry. Heavily PYRITIZED. The 1 ft. interval between 721 and 722 feet consists of a calcite vein mineralized with galena, with pieces of galena up to ½ inch across and abundant PYRITE. Attitude of the vein is 30° from the direction of the core. Adjacent rock is heavily PYRITIZED both above and below for about 2 ft. Abundant blebs of light green chlorite are present. |
| 724-746 | 100% | Reddish gray to medium gray ANDESITE porphyry. Abundant epidote and chlorite with numerous narrow calcite veinlets. No mineralization was noted. |

Bottom of Drill Hole No. 1

# Generalized Core Description, Core Hole #4

Big Treasure Mining & Development Co. Saddle Mountain, Area, Arizona.

Depth of hole — 700 ft.

Bearing — S. 15° E.

Inclination — minus 45°

Hole size — 10 ft NC, 90 ft NX and cased to a depth of 100 ft, remainder BX and uncased

Began hole — Dec 27, 1966, Completed hole — Jan. 3, 1967

% core recovery — 90 to 100%

Hole location — King Chester No. 1 Claim, as shown on map.

Box #4 - 31-40' 31-39 Microdiorite, light grey with green mineral inclusions, Pyrite, Traces to absent. some gradation to quartz-microdiorite @ 34-35.

39-40' Hornblende andesite, light grey groundmass enclosing Phenocrysts of Hornblende. scattered throughout, also fine grains Pyrite scattered throughout.

Box #5 - 40-49 40-40.30' Hornblende andesite, as above. 40.3 - 45 Microdiorite Medium grey with green mineral inclusions, fine grains Pyrite throughout, decreasing downward to 45., Absent thereafter. 45-49 Quartz Microdiorite, Medium grey with green mineral inclusions, also minute blades of Hornblende scattered throughout, only traces Pyrite. Core broken through 43' interval due to closly spaced minute calcite filled veinlets.

Box # 6 - 49-59 Microdiorite, [redacted] Medium grey, finely crystalline, hard, with inclusions of green mineral scattered throughout, also minute blades of hornblend. Pyrite disseminated in fine grains, Rare to absent this interval.

Box # 7 - 59-68 59-62 Microdiorite, as above [redacted] 59-63' No Pyrite.

62-68 Microdiorite, light grey, finely crystalline with much fine grained Pyrite disseminated throughout. also few minute calcite veinlets.

Box # 8 - 68-77 68-69 Microdiorite with Pyrite, as above, Thereafter, through 69-77, Pyrite content zero. 69-77 Microdiorite, Medium grey, finely crystalline, hard with green mineral inclusions throughout. No visible Pyrite, few hairline thin calcite filled veinlets throughout.

Box # 9 - 77-86 77-79 Microdiorite as above 69-77.

79 - 86 Hornblende andesite, Medium grey, with large (up to 2 cm. x sec) Phenocrysts Hornblende, also green mineral inclusions throughout. No visible Pyrite in interval.

core #4 Hole, General core description

Box #10 - 86-95 — 86'-89'.75" Hornblende andesite as above (79'-86') (±11'). Grey with Hornblende Phenocrysts + inclusions of green mineral, No visible Pyrite.

89'.75" - 95 Microdiorite, light-Medium grey, finely crystalline, with much green mineral inclusions scattered Throughout, also minute blades Hornblend. only few grains Pyrite present Throughout interval.

Box #11 - 95-100 Bottom of Bx core — Microdiorite, Medium grey, finely crystalline, hard, with inclusions of yellow-green mineral, and minute blades of Hornblende scattered throughout. No visible Pyrite, except in bottom foot (100') very fine grains Pyrite disseminated.

Box #12 - 100-109 — Microdiorite, Medium grey, finely crystalline, with inclusions of yellow-green mineral scattered Throughout also minute blades of Hornblende. No visible Pyrite.

Box #13 - 109-119 Andesite — 109-113 Microdiorite as above, No Pyrite. Transitional gradation through 112 to andesite?
113 - 119 Andesite, Medium grey, dull, with few hornblende inclusions. with traces of green mineral inclusions, No visible pyrite.

Box #14 - 119-128 — ANDESITE, Medium-dark grey, finely crystalline, with traces green Mineral. overall dull lustre few hairline, calcite filled veinlets. No Pyrite.

Box #15 - 128-137 — Andesite, dull Medium grey, with dark grey aphanitic inclusions, Andesite grades To dull reddish-grey at 130 - 134, ~~[illegible]~~ irregular distribution of yellow-green Mineral scattered Throughout, No visible Pyrite., from 134-137 Andesite, dull Medium grey, as above.

Box #16 137-146 — (137-144)
Andesite, dull Medium grey, with small hornblende inclusions, also some yellow green inclusions Throughout, few thin calcite filled stringers.
144 - 146 ANDesite, as above with more calcite stringers + calcite, light green inclusions Throughout. Some iron staining on calcite, No visible Pyrite.

Box #17 - 146-156 — 146-148 Andesite, as above
148 - 154 Andesite, Medium grey, dull, with minute blades hornblende, heavily scattered Throughout. also some yellow green mineral, No Pyrite.
154 - 156 Hornblende andesite Medium grey with reddish tinge, enclosing Phenocrysts of hornblende, also much yellow green mineral scattered Throughout.

# General Core Description - Hole #4

| Footage interval | |
|---|---|
| Box #18 156-165 | 156-164, Hornblende andesite. Phenocrysts Hornblende in grey, finely crystalline groundmass also yellow-green mineral inclusions scattered Throughout - No visible Pyrite. |
| no microdiorite. | 164-165 Microdiorite, light grey, with green mineral inclusions scattered Throughout. No visible Pyrite, few hairline fracs with traces limonite stain. |
| Box #19 - 167-174 | 167-172 Microdiorite, light grey, finely crystalline, with greenish mineral inclusions. No visible Pyrite |
| | 172-174 - Hornblende andesite, Medium grey groundmass, enclosing Phenocrysts of Hornblende + inclusions of Yellow-green mineral. No Pyrite. |
| Box #20 - 174-183 | 174-178 - Hornblende andesite, as above, with some accessories, interval broken along thin, calcite filled veinlets, calcite having scattered iron staining, No visible Pyrite. |
| | 178-183 - Microdiorite, Medium grey, very finely crystalline, hard. No visible Pyrite. |
| 183-193 Box #21 [redacted] | 183-189 Microdiorite, light - Medium grey, all as above. No visible sulfides. |
| | 189-193 - Microdiorite, grading to Andesite dark, dull green-grey |
| Box #22 - 193-202 | Andesite, Med-dark dull grey, with dark grey dull inclusions. No visible sulfides. |
| Box #23 - 202-211 | Andesite, Medium-dark grey, with scattered dark grey inclusions, No visible sulfides. |
| Box #24 - 211-221 | Andesite, Medium-dark grey, as above, with scattered dark grey inclusions, also increase in disseminated green mineral. especially Near bottom of interval. No visible sulfides. |
| Box #25 221-230 Pebble zone → | 221-227, Andesite, [redacted] Medium grey with dull dark grey inclusions heavily scattered Throughout, also much yellowish green mineral Throughout, No vis. Sulfides. |
| | 227-230. Microdiorite, light grey, finely crystalline groundmass enclosing Pebbles quartzite, Pink-Tan also some yellow green mineral scattered Throughout. |
| Box #26 - 230-240 | Conglomerate, Pebbles of [redacted] cobble quartzite, Rounded with Rounded Microdiorite Pebbles, some yellow green Mineral scattered Throughout, No visible sulfides. |
| Box #27 240-249 | Conglomerate, as above, with occasional stringer of Microdiorite (241) light grey finely crystalline, some green mineral, No visible sulfides |

General core description Hole ~~Case~~ # 4

| Footage interval | |
|---|---|
| Box #28 249- greywacke-slate | 249-251 - Quartzite conglomerate as above |
| | 251-258 - Alternating zones of dark grey slate and light ~~gre~~-medium grey greywacke? (has grained texture, much quartz, trace calcite) also rare disseminated inclusions of Pyrite. |
| Box 29 - 258-267.5 | 258-264, Microdiorite light grey, finely crystalline, with darker grey microdiorite inclusions. @ 261 ~~[illegible]~~ -262 Microdiorite with inclusion of greywacke, A.A. |
| | 264-267 Microdiorite grading to ANdesite, dull dark grey with fine ~~[illegible]~~ ~~gre~~ light grey inclusions Microdiorite, No visible sulfides. |
| Box #30 267.5-277 | 267.5-269 Andesite, as above. |
| | 269-277 Microdiorite, light grey, finely crystalline, with fine grains Pyrite disseminated Throughout, occasional streaks of Dark grey, dull Aphanitic ~~[illegible]~~ felsite? in upper part of interval. |
| Box #31 277-286 | 277-279, Microdiorite as above, with Pyrite Throughout. |
| | 279-280 Andesite, dark grey, with rare grains Pyrite Throughout. |
| | 280- Andesite-Microdiorite interbanded, grading downward into dark grey Andesite-Felsite? with occasional crystal of Pyrite enclosed. |
| Box #32 286-295 | 286-291 Andesite-Felsite as above. |
| | 291-293 Microdiorite light grey, with finely disseminated Pyrite. |
| | 293-295 quartz Microdiorite conglomerate, light grey enclosing quartzite pebbles, fine grains Pyrite scattered Throughout. |
| Box #33 295-305 | 295-303 quartz Microdiorite conglomerate, light grey with quartz + Felsite inclusions slightly calcareous, much fine grained Pyrite scattered Throughout. |
| | 303-305 Microdiorite, light grey, finely crystalline, with much fine Pyrite disseminated Throughout + heavy concentration Pyrite along minute, calcite filled fracture. |
| Box #34 305-314 | 305-305.5 Microdiorite, as above |
| | 305.5-314 quartz-Microdiorite conglomerate, light grey groundmass, enclosing quartzite ~~felsite~~ pebbles + felsite inclusions, Pyrite scattered Throughout. |

# General Core Description, Hole # 4.

| Footage interval | |
|---|---|
| Box # 35 314-324 | 314-318 quartz-microdiorite conglomerate, light grey groundmass, with pebbles & inclusions quartzite & felsite, fine pyrite, and yellow-green mineral throughout.<br>318-320. Felsite, dark grey ~~&~~ aphanitic with few crystals pyrite throughout.<br>320-324 quartz microdiorite, light grey, very finely crystalline with fine grains pyrite disseminated throughout, and larger concentrations pyrite along minute fracture planes. |
| Box # 36 324-333 | 324-326 quartz microdiorite, as above.<br>326-328. Felsite, (dark grey, carbonaceous appearance, like slate.) barren of pyrite.<br>328-333 quartz-microdiorite, light grey with hairline streaks of dark grey felsite? becoming interbanded with felsite near base of interval. few grains pyrite. |
| Box # 37 333-343 | 333-337 Felsite, dark grey, dull with occasional large inclusion pyrite and pyrite along fracture planes.<br>337-340 Microdiorite, light grey, with very fine grains pyrite [redacted] scattered throughout.<br>341-343 [redacted] Felsite, dark grey, dull, aphanitic. |
| Box # 38 343-353 | Microdiorite, light grey, finely crystalline, with occasional thin streaks to bands of dark grey felsite. - Much very fine grained pyrite disseminated throughout. |
| Box # 39 353-362 | Microdiorite, light grey, as above, with very fine grained pyrite scattered throughout. few thin calcite filled fractures, grading to interbanded microdiorite-felsite near bottom. |
| Box # 40 362-371 | Felsite, dark grey, dull, aphanitic, with thin bands & occasional interval of microdiorite as above. Pyrite in microdiorite, but only along thin fracture planes in felsite. |
| Box # 41 371-380 | Felsite primarily with interbands of microdiorite, as above. Pyrite on frac planes. |
| Box # 42 380-390 | Felsite, dark grey, aphanitic, dull, hard, few hairline calcite streaks, ~~&~~ No pyrite sub-conchoidal fracture. |
| Box # 43 390-399 | 390-396 - Felsite, dark grey, as above, broken occasionally along thin calcite veinlets. No pyr.<br>396-399 Microdiorite, light grey with specs green yellow mineral & small inclusions felsite, some fine grains pyrite throughout. |

General Core description - Hole #4.

| Footage interval | |
|---|---|
| Box #44 ~~#39~~ 399-409 | Microdiorite, light grey, with fine Needles hornblende(?) disseminated throughout. slightly coarser ~~[illegible]~~ crystalline, with yellow green mineral & ~~green~~ grains to fine crystals of Pyrite scattered throughout. few hairline thin fracs filled w/calcite. |
| Box #45 409-419 | Microdiorite, light grey with heavy dissemination of hornblende Needles throughout, some yellow green mineral throughout. No visible sulfides. |
| Box #46 419-428 | Microdiorite & accessories, identical to above. |
| Box #47 428-437.5 | Microdiorite, with Hornblende "Needles" (laths) heavily disseminated throughout, some yellow-green mineral, No visible sulfides. |
| Box #48 437.5-448 | Microdiorite, etc, as above; hornblende inclusions decreasing toward bottom of interval. |
| Box #49 446-456 | 448-450.5 Microdiorite, light grey, finely crystalline with pyrite disseminated throughout<br>450.5-452 Felsite, dark grey, aphanitic, dull, broken along thin fracs.<br>452-456 quartz Microdiorite, medium grey, finely crystalline, hard, with occasional quartzite pebble inclusions, & traces pyrite throughout. |
| Box #50 456-465 | 456-457.5 qtz. Microdiorite, as above.<br>457.5-465 Felsite, dark grey, aphanitic dull, hard. No visible sulfides. few thin calcite veinlets. |
| Box #51 465-475 | 465-466 Felsite as above<br>466-475 Microdiorite medium grey, finely crystalline, hard with very fine grains of pyrite scattered throughout. + occ pebble inclusion of quartzite. |
| Box #52 475-489 | Microdiorite as above, with occasional pebble - cobble sized quartzite inclusions fine pyrite disseminated throughout |
| Box #53 489-493 | Microdiorite, light grey with inclusions of darker grey microdiorite, increase in yellow green mineral clusters scattered throughout, some pyrite throughout. & few thin calcite filled fractures. |

# General Core Description Hole #4.

| Footage interval | |
|---|---|
| Box #54 493-503 | 493-499. Microdiorite light-medium grey with inclusions of darker grey Microdiorite, also scattered yellow-green mineral, very little visible Pyrite. |
| | 499-502 : Microdiorite, light grey, with much scattered yellow green mineral containing grains & crystals of pyrite. |
| [redacted] Andesite. | 502-503 [redacted] Microdiorite Med. grey w/darker inclusions, little green mineral, some pyrite. |
| Box #55 503-512 | ~~Andesite~~ Microdiorite. 503-507.5. Med. grey w/darker grey inclusions, Pyrite rare. |
| | 507.5 - 512 Microdiorite. Medium grey with much yellow-green mineral throughout. increase in fine Pyrite throughout, especially along minute fracture planes. |
| Box #56 512-522 Prite | Microdiorite, Med. grey finely crystalline with specs of yellow-green mineral and <u>much finely disseminated pyrite</u> throughout. interval from 516.5 - 519.5 is shattered along thin, closly spaced, calcite veinlets, some traces of limonite staining on calcite fracture zone. Runs parallel with core. |
| Box #57 522-532 | Andesite. Dull medium grey with reddish tinge, some yellow green mineral & fine grains + flakes. Pyrite scattered throughout. few thin breaks parallel with core calcite filled. Trace limonite staining in break at 531. |
| Box #58 532-542 | Andesite, med. grey with reddish tinge, No Pyrite, has some yellow green mineral throughout, Core shattered 532 - 536 along thin calcite filled veinlet having slight limonite staining on fracture. |
| Box #59 542-552 | Andesite, med. grey carrying inclusions of dark grey microdiorite, quartzite pebbles & yellow green mineral, few thin calcite veinlets, No sulfides, appears to be grading into microdiorite. |
| Box #60 552-561 | Microdiorite, Med-dark grey, finely crystalline, with specks green mineral No visible sulfides, few thin calcite veinlets with traces limonite stain |
| Box #61 561-570 | Microdiorite, as above, with green mineral 561.5 - 567.5 badly shattered along closly spaced thin calcite veinlets parallel to core, No staining No Pyrite. |

General core description Hole # 4

Page 8

| Footage interval | |
|---|---|
| Box #62 570-580 | Microdiorite Med. grey, finely crystalline, hard. Traces yellow green mineral throughout, few thin calcite filled veinlets. No visible sulfides. |
| Box #63 580-589 | Microdiorite, medium grey, with very fine dark ferromagnesian inclusions. only few rare grains pyrite throughout. |
| Box #64 589-598 | Microdiorite, Medium-dark grey, hard, No visible sulfides. - Solid throughout. |
| Box #65 598-608 | Microdiorite, identical to above. |
| Box #66 608-617 | Microdiorite Med.-dark grey, Solid throughout, No visible sulfides. |
| Box #67 617-626 | 617-619, Microdiorite, as above.<br>619-622.5 Microdiorite, light greyish green, (due to finely disseminated green mineral No visible sulfides.<br>622.5-626 Microdiorite, Med-dark grey, finely crystalline, barren of sulfides; appears to be grading to andesite. |
| Box #68 626-636 | 626. Microdiorite-andesite. dull dark grey, barren.<br>627-636 Andesite dark reddish-grey with scattered grains green mineral, few thin calcite filled veinlets. No visible sulfides. |
| Box #69 636-645 | Andesite, dull grey with deep reddish tint. specks & inclusions of green mineral throughout, No visible ~~fer~~ sulfides. |
| Box #70 645-654 | Andesite, as above, grading to dark grey andesite near base, No visible sulfides. |
| Box #71 654-664 | Andesite, dull redish grey to 657, from 657-662 Andesite pale grey green to grey, 662-664 Andesite medium grey, No visible sulfides |
| Box #72 664-674 | Andesite, dull grey, grading through greenish grey, containing few inclusions, No sulfides. |
| Box #73 674-683 | Andesite, as above. No change. |
| Box #74 683-692 | Andesite, dull Med grey to greenish grey, has yellow green mineral incl. No visible sulfides. |
| Box #75 692-700 | Andesite, Light greenish grey - Medium grey, No visible sulfides. (Bottom core #4). |

DIAMOND CORE HOLE NO. 5
CORE DESCRIPTIONS

BIG TREASURE MINING & DEVELOPMENT COMPANY
125 Sedgefield, San Ramon, California

| | |
|---|---|
| Mining Property: | Saddle Mountain Mining District, Pinal County, Ariz. |
| Location of Hole: | Approximately NW/4 SE/4, Sec. 35, T.4 S., R. 16 E, Pinal County, Arizona, on King Chester claim, in Deer Creek Bottom about 100 feet west of first road crossing on Deer Creek. Map reference: Christmas Quadrangle 1:62,500 |
| Depth of Hole: | 750 ft. |
| Bearing: | N. 10° W. |
| Inclination: | -45° |
| Hole Size: | 10 ft. NC with 10 ft. collar pipe 100 ft. NX, ≠ 657 ft. |
| Began Coring: | December 12, 1966 |
| Completed Coring: | December 23, 1966 |
| % Core Recovery: | 80 to 100% |
| Contractor: | Boyles Bros. Drilling Company, Salt Lake City, Utah. |
| Drillers: | Daylight: Virgil Larios and Robert Sample<br>Swingshift: Don Snider and Rudolph Miranda |
| Core Description By: | Ronald A. Janc, Consulting Geologist |
| Remarks: | Hole was cored entirely with untreated creek water. Two bags of cal-seal were used during spudding of the hole. No unusual problems encountered during coring. Core recovery - excellent.<br>One Hundred feet of BX casing could not be removed from the hole, left 100 ft. BX casing in hole, from surface downward. |

# CORE DESCRIPTION - HOLE NO. 5

Footage Interval

Box #1 NX

1. Microdiorite Lt. greenish-gray. Fine grained, slightly weathered with few traces Pyrite.
2. Microdiorite as above, with cross fracturing, fracture faces Limonite stained.
3. Microdiorite as above fractured.
4. Microdiorite as above, shattered throughout, Limonitic staining on fracture planes.
5. Microdiorite medium gray with yellow-green inclusions associated with specs of Pyrite-Fracs.
6. Microdiorite as above, fractures with Limonitic staining.

Box #2 NX

7. Microdiorite as above, lower 6" fractured.
8. Microdiorite medium gray with greenish yellow crystalline inclusions associated with Pyrite specs.
9. Microdiorite as above shattered, Limonitic staining or fractures. Also white Calcite fillins.
10. Microdiorite as above, massive, two minor fractures.

Box #3 BX

11. Microdiorite medium gray-green, two fractures, Limonite stained, slight increase indisseminated Pyrite with darker gray inclusions. Thin calcite stringer.
12. Microdiorite, medium gray with increase in greenish yellow inclusions associated with Pyrite specs.
13. Microdiorite as above, fractured, Limonite stained faces and horizontal.
14. Microdiorite, medium gray scattered throughout with dark gray inclusions (½-1MM ≠ sec.) scattered throughout. One Calcite filled frac. - to core (45°) extending from 14½ - 15½".
15. Microdiorite, medium gray with (est.) 10% greenish-yellow inclusions, associated with finely dissem. Pyrite.
16. Microdiorite, medium gray, ± 5% greenish incl. and dark gray inclusions, ½ = 2MM + sec., one nearly vertical, thin (2MM) calcite filled stringer through middle of foot.
17. Microdiorite, as above, but with few gray and greenish inclusions, traces Pyrite.
18. Microdiorite as above, with two nearly horizontal fracs near bottom, Limonite stained faces.

Box #4 BX

19. Microdiorite, medium dark gray, mottled, with dark gray inclusions(± 1MM x sec.) + 5% green-yellow x ln. inclusions.
20. Microdiorite as above with dark gray inclusions, ½ - 2MM x sec. ∓ 2% greenish inclusions of disseminated Pyrite.
21. Microdiorite, medium gray with traces greenish inclusions associated with Pyrite.
22. Microdiorite as above with ± 40° thin (1MM) calcite filled fracture, Limonite stained.
23. Microdiorite, medium gray with scattered dark gray inclusions (½ - 3MM cross section). Trace green-gray inclusion.
24. Microdiorite, medium gray with dark gray inclusions (½ - 2MM cross section) scattered throughout, traces of green yellow inclusions. Traces Pyrite coarsly crystalline.
26. Microdiorite as above, fractured near base (26½ - 27½) calcite filled ( ± 1MM) slight Limonite staining.
27. Microdiorite with dark gray inclusions (½ - 2MM cross section) scattered throughout, hairline frac system at right angles calcite filled with Limonite staining.

CORE DESCRIPTION - HOLE NO. 5

Footage Interval

Box #5 BX
*

28. Microdiorite, as above, fractured throughout.
29. Microdiorite, med. gray, crystalline, with scattered dark gray inclusions (½ - 1MM cross section) Note: increase in Pyrite disseminated throughout. Few hairline fractures, slight Limonite staining on fracture faces.
30. Microdiorite, med. gray with scattered dark gray inclusions, (½ - 3MM cross section) hairline, calcite filled fractures, few specks Pyrite detectable.
31. Microdiorite, as above. Describes as above.
32. Microdiorite, med. gray, crystalline, with scattered inclusions dark gray, (½ - 4MM cross section) few hairline fractures, calcite filled. Little Limonite staining, intersticial Pyrite inclusions.
33. Microdiorite, as above, more coarsly crystalline, traces intersticial and disseminated Pyrite.
34. Microdiorite, med. gray with dark gray inclusions as above, Increase in disseminated Pyrite, (± 1%) thin (hairline) fractures, calcite filled, traces of Limonite staining.
35. Microdiorite, med. gray, finely crystalline, disseminated Pyrite rare, except along fracture planes.
36. Microdiorite, med. gray, finely grained, with disseminated and intersticial Pyrite, rare.

Box # 6 BX
*

37. Microdiorite, with dark gray inclusions also yellow green Pyrite alteration inclusions, Pyrite, finely disseminated also intersticial, throughout, and along fracture planes.
38. Microdiorite, med. gray grading into 5 inch zone of Microdiorite-quartz, with + 1 ½ inch vagular zone containing sphalerite and galena together with disseminated Pyrite. Limonite staining throughout.

Stained

39. Microdiorite, fine grained, with numerous hairline veinlets to 40%, Limonite stained throughout, with disseminated Pyrite where unoxidized.
40. Microdiorite, med. gray, with darker gray inclusions, very little Pyrite disseminated throughout.
41. Microdiorite, gray, as above, Pyrite dissemination rare, thin calcite fractures, some stain.
42. Microdiorite, med. dark gray, with traces Pyrite and green yellow specks, few calcite stringers 3MM wide.
43. Microdiorite, as above, with traces disseminated Pyrite with associated green calcite stringers.
44. Microdiorite, med gray, as above, with calcite stringers.
45. Microdiorite, gray with finely disseminated Pyrite, altered to Limonite. Limonite stained throughout.

Box #7 BX
(calcite vein)

46. Microdiorite, gray, grading to Calcite, heavily Limonite stained throughout with three calcite filled vugs. (dogtooth spar) some spar crystals with black coating. Zone is about one foot wide.

Page 3 Core Description, Core #5

Footage interval

47 Microdiorite, Med. grey, fine grained, speckled with dark grey inclusions and green, pyrite alteration specks, few calcite stringers, transitional from above zone.

48 Microdiorite, as above, few specs disseminated pyrite.

49. Microdiorite, greenish-grey with dark grey inclusions (½-2 MM x sec) scattered throughout disseminated pyrite scattered throughout.

50. Microdiorite, grey, finely porphyritic with dark inclusions, traces pyrite specs.

51. Microdiorite, Med. grey, finely crystalline with increase in disseminated pyrite.

52. Microdiorite, similar to above.

53. Microdiorite, as above.

54. Microdiorite, grey, fine grained, increase in disseminated pyrite, few calcite filled fractures with some limonite staining.

55. Microdiorite, grey, ~~finely porphyritic~~ with disseminated inclusions, dk. grey, as above, with few traces disem. pyrite.

Box #8 as 56 Microdiorite, Med. grey, finely crystalline, with pyrite associated green inclusions, visible pyrite, rare.

57. Microdiorite, as above, with fine disseminated pyrite, ~~[illegible]~~ 1 thin calcite frac parallell to core. scattered throughout.

58. Microdiorite, Med grey, finely crystalline, traces greenish, pyrite associated mineral, pyrite rare.

59. Microdiorite, as above, pyrite dissemination opposite hairline fracture 2-zone ±1 MM wide.

60. Microdiorite, as above, with green-~~grey~~ crystalline inclusions, ~~[illegible]~~ scattered throughout, several calcite filled fractures 2 MM wide, only slight traces of limonite staining

61. Microdiorite, light-medium grey, finely crystalline, with dark grey-greenish inclusions scattered throughout. Pyrite ¿ associated with greenish-olive inclusions

62. Microdiorite as above.

63. Microdiorite, as above, badly shattered, thin, hairline, calcite filled fractures throughout pyrite dissemination rare, except some on fracture faces

64. Microdiorite, grey, with pyrite associated olive-green inclusions, with thin fractures.

65. Microdiorite, as above, badly shattered along numerous hairline fractures as foot 63.

Box #9 as 66. Microdiorite, grey, finely crystalline, with olive green, pyrite associated inclusions scattered throughout

67 Microdiorite, as above, with few, thin fractures.

68 Microdiorite, grey, finely crystalline, no perceptible difference from above

69 Microdiorite, grey, with olive green inclusions, pyrite dissemination rare.

70. Microdiorite, as above, slightly more disseminated pyrite.

71 Microdiorite, grey, with ~~[illegible]~~ slight greenish caste on broken surface due to pyrite associated greenish mineral. with traces of pyrite dissemination

72. Microdiorite grey with olive green inclusions, pyrite dissemination rare.

73 Microdiorite, as above, with rare traces pyrite.

Core description, Core # 5

Footage interval

74 Microdiorite, Med. grey. finely crystalline, with some dark grey inclusions, and also olive-green inclusions scattered throughout, Traces of disseminated Pyrite, shattered along hairline, calcite filled fractures, traces limonite staining on calcite.

75 Microdiorite, as above, Pyrite rare, hairline fractures, slickenside effect in calcite.

Box #10, Ex. 76 Microdiorite, Med. grey, with dk. grey inclusions ±2MM x sec, also olive green inclusions scattered throughout. few. hairline fracs, No visible Pyrite. except on fracture faces.

77 Microdiorite, as above. few traces disseminated Pyrite. grading into [illegible] —

Texture (change) 78 Microdiorite, Med. grey, very finely crystalline, with large dark grey inclusions (2-15 MM x sec) also olive green inclusions scattered throughout. flecks of Pyrite on fracture faces.

80 Microdiorite, as above, with occasional traces of Pyrite scattered throughout.

81 Microdiorite, with large (4-10 MM, x sec) dark incl. scatt. throughout, also olive green mineral. very little Pyrite, occasional traces only.

82 Microdiorite, as above. few traces Pyrite.?

83 Microdiorite, Med. grey with large grey inclusions, also greenish mineral scattered throughout. giving core a greenish grey cast. Traces Pyrite (or possibly) Chalcopyrite, throughout. Tendency for core to shatter into elongate splinters along parallel planes of weakness.

Box #11 Ex 84 Microdiorite, as above. with green-olive mineral scattered throughout, also traces Pyrite(?)

85 Microdiorite, as above, with fewer dark inclusions, finely crystalline. No olive green mineral No Pyrite

86 Microdiorite, grey, finely crystalline, with darker grey inclusions, No visible Pyrite.

87 Microdiorite, as above, with few inclusions of olive green mineral, and traces Pyrite.

88 Microdiorite, as above, with increase in disseminated Pyrite(?) & olive green mineral

change - increase in sulfide. 89 Microdiorite, grey, with large dark grey inclusions, as above, which give core a "porphyritic" appearance. also inclusions of olive green mineral scattered throughout, together with associated disseminated Pyrite(?) - Amount of disseminated Pyrite(?) increasing

Pyrite(?) increase. * 90 Microdiorite, as above, with increase in Pyrite(?) content very finely disseminated throughout core - estimate about 1%

91 Microdiorite, with much disseminated Pyrite (?) as above.

calcite zone. 92 Microdiorite as above, leaner in Pyrite content, grading into soft, shattered calcite zone.

93 Microdiorite, heavily impregnated with calcite, Pyrite (?) disseminated throughout.

Box # 12. 94 Microdiorite - calcite, as above, loose, shattered. fine Pyrite (?) disseminated throughout

95 Microdiorite, Medium grey, with large (± 10 MM) dark grey inclusions, finely crystalline. with fine Pyrite disseminated throughout. calcite filled fracture parallell with core showing slickenside effect. No limonitic staining on fracture breaks.

Page No. [illegible] Core description, Core No. 5

Change mineral

96 Microdiorite, as above, with ±1% finely disseminated Pyrite throughout.

decrease sulfide 97 Microdiorite, grey, with dark grey inclusions, + olive-green mineral, normally associated with Pyrite, throughout. Pyrite content decreased to traces, from above.

98 Microdiorite as above, with fair distribution of disseminated Pyrite.

1¾" ↕ 1½" 99 Microdiorite, med. grey with <u>less</u> large dark grey inclusions, fine Pyrite scattered throughout.

Reduced core size. 100 Microdiorite, med. grey, finely crystalline, fair amount of Pyrite(?) distributed throughout.

101 Microdiorite, med. grey, with dk. grey inclusions (2-4 MM. x sec.) Pyrite scattered throughout

102 Microdiorite, grey, finely crystalline, no dark inclusions, fine flecks of Pyrite throughout.

103 Microdiorite, as above, Pyrite, as above.

Box #13 104 Microdiorite, med. grey, finely crystalline, with rare specs Pyrite throughout.

105 Microdiorite, as above, with large, dark grey inclusions and some yellow-green mineral with specs Pyrite scattered throughout.

106 Microdiorite, as above, with fine Pyrite distributed throughout.

107 Microdiorite, all as above.

* 108 Microdiorite, med. grey, finely crystalline, Pyrite(?) ±1% scattered throughout (note.) some sulfide flecs appear to have slight irridescence, may be chalcopyrite.

109 Microdiorite, grey, with darker grey inclusions, some yellow green - Pyrite associated mineral & Pyrite(?) liberally scattered throughout. Lower part shattered.

110 Microdiorite, composed of equal parts medium grey & dark grey inclusions. with Pyrite(?) scattered throughout.

111. Microdiorite, with Pyrite, as above.

112 Microdiorite, med. grey, finely crystalline, with flecs of Pyrite throughout.

Box #14 113 Microdiorite, grey with flecs Pyrite throughout, though less than above.

114 Microdiorite, med. grey, with olive green inclusions, Pyrite flecs throughout, shattered, by system of hairline, calcite veinlets, running parallel with core.

115 Microdiorite, as above, with ~~[illegible]~~ Pyrite flecs throughout

116 Microdiorite, grey with increase in yellow green & emrald green mineral, Pyrite inclusions (± 1MM x sec) scattered throughout.

117 Microdiorite, as above, with thin calcite filled fracture running parallel to core. Calcite shows some slickenslide effect.

118 Microdiorite, as above, with green mineral inclusions & Pyrite, upper part shattered.

119. Microdiorite, grey, with darker grey inclusions, green mineral + fine flecs Pyrite throughout.

Box 115. 120 Microdiorite as above, with Pyrite, - few thin fractures.

* 121. Microdiorite, as above, Pyrite distribution, <u>rare</u>.

Core Description, Core No. 5

Footage interval

(Texture change) 122 Microdiorite, grey, as above, grading into Microdiorite groundmass with ~~gravel~~ darker inclusions of varied composition & color, has appearance of conglomerate. Much mineral in groundmass together with disseminated Pyrite.

123 Microdiorite, as above, fewer inclusions, Pyrite in groundmass.

124 Microdiorite groundmass, grey with darker grey & yellow green inclusions also varicolored gravel-like inclusions. ~~Pyrite present~~ Pyrite disseminated throughout groundmass.

125 Microdiorite, & components, as above.

126 Microdiorite, grey, with green inclusions, Pyrite, & gravel-like inclusions

127 Microdiorite, med. grey, finely crystalline, with yellow-green mineral & dissem. Pyrite throughout. "gravel" inclusions, quartzite pebble.

128 Microdiorite, grey, as above, few gravel inclusions. finely disseminated Pyrite.

129 Microdiorite, as above, increase in gravel-like inclusions, Pyrite in micro-groundmass.

Box #16 130 Microdiorite, grey with traces green mineral, fair pyrite distribution throughout.

131 Microdiorite, light grey, finely crystalline, with Pyrite specs & stringers throughout.

132 ~~133~~ Microdiorite & components, as above.

Altered zone. * 133 Microdiorite, as above grading into limonite stained Altered zone toward base. to about 134.5' altered zone impregnated with calcite

134 Microdiorite, Altered zone, grading into grey Microdiorite, one vugular calcite veinlet iron stained spar crystals.

135 Microdiorite, with greenish-grey groundmass, containing disseminated Pyrite(?) and gravel-like inclusions of varied composition.

136 Microdiorite, grey groundmass, impregnated with disseminated Pyrite, the whole containing pebbles of varied composition to 136.5. Lithology changes abruptly to

* change. Inc. in Pyrite Microdiorite, light-greenish grey, finely crystalline, (The first 3 inches ~~bar~~ has a "bleached" appearance. some limonite staining) containing Pyrite inclusions (1-2 MM. x sec) heavily distributed throughout.

137 Microdiorite, light grey, finely crystalline with scattered Pyrite inclusions (1-2 MM x sec) scattered throughout. Pyrite 70 ± 5% (est)

138 Microdiorite, as above.

Box #17 139 Microdiorite, uniform with above.

140 Microdiorite, light grey-green with occasional Pyrite inclusion.

141 Microdiorite, as above, with Pyrite inclusions and crystals (1/2 - 1 1/2 MM. x sec) also inclusions of clear calcite.

Footage interval

142 Microdiorite, as above, to 142.5. Altered zone 142.5-143.5. Zone is impregnated with calcite & limonitic staining, crystal lined vug at center.

143 Microdiorite, ~~lower~~ upper half-foot as described above, lower portion very light grey bleached appearance, with few pyrite crystals and green inclusions associated with pyrite.

144 Microdiorite, as above, grading into med. grey color. Pyrite disemination less than above

145 Microdiorite, med-grey, finely crystalline, with inclusions of green mineral & traces pyrite.

146 Microdiorite, as above.

147 Microdiorite, light grey, with occasional pyrite inclusions scattered throughout.

148 Microdiorite, as above, with increase in pyrite distribution.

Box #18 149 Microdiorite, light grey, finely crystalline, with fine disseminated, pyrite, and pyrite inclusions (1/2-2 MM x sec) common.

150 Microdiorite, with pyrite, as above.

151 Microdiorite, very light grey, with less pyrite than above.

152 Microdiorite, identical to 151.

Much dissem. pyrite. * 153 Microdiorite, light grey with high concentration of disseminated pyrite. est. 6-7%.

" 154 Microdiorite. Very light grey, with much pyrite, as above. break tendency along parallell planes.

155 Microdiorite, as above, with slightly less pyrite than above.

* 156 Microdiorite, light tan-grey with scattered dark inclusions associated with pyrite (appears as a halo around pyrite inclusions). Core heavily charged with pyrite ±5%

High pyrite * 157 Microdiorite, identical to previous foot, very much pyrite throughout - est. 8-10%.

high pyrite. * 158 Microdiorite, as above, with ± 8-10% pyrite throughout. (view: preferred).

* 159 Microdiorite, lt. tan-grey, finely crystalline, hard. heavily disseminated throughout are flecks to inclusions of pyrite. (2-4 MM. x sec.) est 8-10%.

* 160 Microdiorite, as above, slightly less pyrite throughout. ±5%

* 161 Microdiorite, lt. tan-grey, with disseminated pyrite. - 3-4%

162 Microdiorite as above, with pyrite inclusions ±2% one large (8x10 MM.) x.

* 163 Microdiorite, lt-tan-grey, very finely crystalline. Pyrite scattered throughout, estimate ±4%.

* 164 Microdiorite, as above, with pyrite about same amount

Pyrite crystals. * 165 Microdiorite, lt. greenish-grey, finely crystalline. Pyrite scattered throughout ±5% - several well defined pyrite ~~crystals~~ crystals @ base 165' - (3-4 MM. x sec.)

166 Microdiorite as above, much less pyrite - about ± 2%

167 Microdiorite, as above, ± 1% scattered pyrite.

# Core Description, Core # 5

| Footage interval | | |
|---|---|---|
| Box # 20 | 168 | Microdiorite, light greenish grey, finely crystalline with small amount of Pyrite flecs and ~~crystals~~ crystals throughout. one calcite filled veinlet 3MM wide. |
| | 169 | Microdiorite, as above, slightly more disseminated Pyrite, est. about 1%. |
| | 170 | Microdiorite lt. grey with rare dark inclusions, very small amount of Pyrite ½ of 1%. |
| | 171 | Microdiorite, as above with Pyrite inclusions surrounded by halo of darker, altered material. |
| | 172 | Microdiorite lt. grey with slight pinkish cast. finely crystalline, with few scattered Pyrite inclusions. thin calcite vein with vugs, near bottom. |
| | 173 | Microdiorite, light grey, with darker altered inclusions containing Pyrite., about ½-1% Pyrite. |
| | 174 | Microdiorite, light grey, with small amount of finely disseminated Pyrite. |
| | 175 | Microdiorite, as above, with Pyrite, as above |
| | 176 | Microdiorite, as above, with finely disseminated Pyrite |
| | 177 | Microdiorite, light grey, finely crystalline, with about 1% finely disseminated Pyrite. |
| Box # 21 | 178 | Microdiorite, light greyish green, with occasional rare Pyrite inclusions. |
| | 179 | Microdiorite, as above, Pyrite rare. |
| Fractured zone | 180 | Microdiorite, light grey, with fine grains Pyrite disseminated throughout. few, closly spaced thin calcite filled veinlets with strong limonite staining. |
| " | 181 | Microdiorite, as above, fractured, limonitic staining, much calcite fill. visible Pyrite. |
| Frac zone | 182 | Microdiorite grey, badly shattered, thin calcite veinlets, no limonite stain. fine flakes Pyrite. |
| | 183 | Microdiorite, light grey, impregnated with calcite - vugs. fine flakes Pyrite dissem. throughout. |
| | 184 | Microdiorite, light grey. as above, much calcite, vugs, limonite staining, fine Pyrite throughout. |
| | 185 | Microdiorite, as above, several calcite veins, with crystal lined vugs, limonite staining light. |
| Frac. zone. | 186 | Microdiorite, light grey, with Pyrite dissem. throughout. fractured, few vuggy calcite veins. |
| | 187 | Microdiorite, grey with thin veinlets & impregnations calcite, Pyrite rare, fine flakes throughout. |
| Box # 22 | | |
| Frac. zone. | 188 | Microdiorite, tan-grey, with light grey inclusions, looks bleached, upper ½ foot badly fractured much calcite, no visible pyrite though some limonite stain present. |
| Shattered zone. | 189 | Microdiorite with inclusions, as above, but entire zone badly shattered, limonite staining |
| " | 190 | Microdiorite tan-grey, passing into Microdiorite med. grey, calcite filled, with finely dissem. Pyrite throughout. - badly broken core |
| " | 191 | Microdiorite as above, impregnated with calcite & veinlets, badly shattered. |
| " | 192 | Microdiorite as above, shattered |
| " | 193 | Microdiorite as above, shattered |
| " | 194 | Microdiorite, grey calcite veinlets & fill, badly broken, fine Pyrite throughout. |
| " | 195 | Microdiorite, grey broken, as above |
| " | 196 | Microdiorite, grey shattered, as above. |

Page # 8 Core description Core # 5

Footage interval

Frac. zone. 197 Microdiorite, light grey, grading into calcite with microdiorite fragments, thence back to microdiorite, the whole, badly shattered.

Box # 23 198 Microdiorite, light grey, with .5% dissem pyrite, calcite impregnated. with microdiorite fragments in calcite matrix in places

199 Microdiorite, light grey, finely crystalline, with flecks & inclusions of pyrite throughout.

200 Microdiorite, as above, with small amount of pyrite throughout.

201 Microdiorite, light grey, as above, with slight increase in disseminated pyrite.

202 Microdiorite, light grey, finely crystalline, with pyrite flecks & inclusions throughout.

203 Microdiorite, as above, pyrite rare. grading into microdiorite, medium grey at 204.

204 Microdiorite. Medium grey-green. Very finely crystalline, hard. with occasional pyrite inclusions.

205 Microdiorite, as above, with few thin 1-2MM wide calcite veinlets.

206 Microdiorite, medium grey-green. with pyrite specks throughout.

Box # 24 207 Microdiorite, lt greenish green, with specks pyrite throughout, few thin calcite veinlets.

208 Microdiorite, identical to above. few ~~the~~ pyrite inclusions.

209 Microdiorite, as above, fine flecks pyrite throughout.

210 Microdiorite, ~~med~~ light grey, with increase, in pyrite content, slickenslide on veinlet calcite.

211 Microdiorite, light grey with disseminated pyrite, also calcite inclusions & large pyrite crystals.

212 Microdiorite, as above, less pyrite., few hairline calcite veinlets.

213 Microdiorite, as above.

214 Microdiorite, light grey, finely crystalline, hard, with disseminated pyrite flecks & inclusions.

Box ~~#25~~ 25 215 Microdiorite, medium grey-green, few hairline veinlets, pyrite disseminated throughout.

216 Microdiorite, as above, hard, with pyrite specks & inclusions throughout.

217 Microdiorite, medium grey, traces pyrite throughout.

218 Microdiorite, as above, with large pyrite inclusions, (3-4 MM x sec) scattered throughout.

219 Microdiorite, medium grey, with pyrite inclusions throughout, also inclusions of yellow-green mineral which forms halo around pyrite inclusions.

220 Microdiorite, as above, increase in disseminated pyrite, est 1%.

221 Microdiorite, light grey, finely crystalline, with ± 1-2% pyrite dissem. throughout.

222 Microdiorite, light grey, few hairline calcite veinlets, less than .1% pyrite.

223 Microdiorite, as above, with fine grains pyrite throughout

224 Microdiorite, lt-med grey, with fine grains pyrite, as above about 1%.

Box # 26 225 Microdiorite, medium grey, finely crystalline, hard, small flecks of pyrite scattered throughout.

226 Microdiorite, lt grey, increase in pyrite content, total (est). 1%.

227 Microdiorite as above

Core Description, Core # 5

Footage interval

#44 (Pebble inclusions zone)

228 Microdiorite, light grey, finely crystalline, hard with Pyrite flecks and inclusions throughout

229 Microdiorite, as above. hairline fracture, at base, filled with calcite. showing slickenside

unusual staining effect. Reddish coating on calcite, unlike Limonite, similar to hematite.

" 230 Microdiorite, light grey, finely crystalline, with Pyrite grains + inclusions, several thin fractures filled with calcite, having limonitic and red (Hematite ?) staining

231 Microdiorite, as above, with about 1% Pyrite scattered throughout.

unusual stain 232 Microdiorite. light grey, cut by several calcite veinlets, showing crystal lined vugs Entire footage interval is shattered, Much limonite and red (hematite ?) staining on fragments, host rock ~~altered~~ stained by ~~weathering~~ oxidation.

stain 233 Microdiorite, light grey, in lower 2/3 of foot interval, contains Pyrite throughout upper 1/3 foot stained and broken, as above

234. Microdiorite, grey, with tan cast. few specks Pyrite, few fractures show limonite + red stain.

Box # 27. 235 Microdiorite, as above, few fractures, with above stain. Pyrite content Moderate.

#46

unusual inclusions 236 Microdiorite, light grey, as above, with calcite filled fracture, crystalline druse, + gouge like filling containing Rounded Pebble of brown quartzite, (2x4 cm. x sec)

" 237 Microdiorite, grey groundmass enclosing inclusions of Microdiorite + rounded Pebbles. Shattered in Places, fragments have limonite + unusual red staining, Pyrite rare.

" 238. Microdiorite, grey groundmass ~~with~~ enclosing Microdiorite fragments and brownish quartzite Pebbles, Pyrite disseminated throughout

239 Microdiorite, groundmass, pebbles, etc, as above, grading into Microdiorite, Med. grey

~~240~~ finely crystalline, barren of Pyrite.

240 Microdiorite, grey groundmass, containing fragments, Pyrite, rare. fractured, calcite filled. (large quartzite Pebbles)

Change 241 Microdiorite, as above first 1/2 foot, then grading to Lt. brown Quartzite. to 242.5

Change 242. Quartzite, as above for top 1/2 of foot grading to fragmented Microdiorite in Microdiorite groundmass, Thin fractures calcite filled limonite + (Hematite ?) stained face.

243 Microdiorite groundmass, grey with disseminated Pyrite, enclosing fragments of Microdiorite, as above, also Pebbles of Lt brown quartzite

244 Microdiorite groundmass, as above, with dissem. pyrite, containing Microdiorite frags. + qtz. Pebb

END OF PEBBLE INCLUSION ZONE. #45 ~~245~~ Through top 6". Lower part of foot is Microdiorite Med. grey, fine crystalline w/ Pyrite.

Box # 28 245 Microdiorite, Medium grey, finely crystalline, hard, with fine grains Pyrite throughout

246 Microdiorite, as above, with finely disseminated Pyrite throughout. few thin

~~247~~ fractures with calcite fill having limonitic staining

247 Microdiorite, Medium grey, with No visible Pyrite.

Core description, core #5

Footage interval

248 Microdiorite, light to medium grey, very finely crystalline, hard, broken, thin hairline veinlets with ~~calcite~~ calcite. Pyrite rare except of fracture faces as flakes.

249 Microdiorite + components, as above, all badly shattered.

250 Microdiorite, as above, badly shattered, Pyrite rare.

251 Microdiorite, medium grey, finely crystalline, hard, with grains + ~~crys~~ small crystalls Pyrite disseminated throughout. Broken, many thin calcite filled veinlets.

252 Microdiorite, as above, broken up. one calcite filled vein zone (closly spaced thin veins) at 252' 3". soft, eroded, lower section solid microdiorite.

253 Microdiorite, med. grey, finely crystalline, hard, with fine grains of Pyrite throughout.

254 Microdiorite, as above, with inclusions of olive green, Pyrite associated mineral,

255 Microdiorite, as above, with few dk. grey inclusions, plus green mineral + Pyrite.

Box #29 256 Microdiorite medium greenish grey with few small crystalls of Pyrite throughout

257 Microdiorite, as above, with green mineral inclusions, usually associated with Pyrite. also Pyrite grains + small crystals throughout

258 Microdiorite, as above, with accessories, as above

259 Microdiorite, medium grey, with green mineral, plus disseminated Pyrite.

260 Microdiorite, with accessories, as above. increase in disseminated Pyrite.

261 Microdiorite, medium grey, finely crystalline, with greenish cast due to disseminated yellow green to olive green, mineral, which is usually associated with the disseminated Pyrite.

262 Microdiorite, and accessories, as above. few thin fractures showing slickenside effect.

263 Microdiorite, and accessories, as above.

264 Microdiorite medium grey, finely crystalline, hard, with finely disseminated green mineral but Pyrite content very low.

265 Microdiorite + accessories as above, very little Pyrite.

Box #30 266 Microdiorite, medium grey, with disseminated green mineral, Pyrite flakes and grains localized on microscopic fracture faces

267 Microdiorite, and accessories, as above.

268 Microdiorite, medium grey, finely crystalline, hard, with green mineral finely disseminated throughout. Pyrite along minute fracture faces.

269 Microdiorite and accessories, as above

270 Microdiorite and accessories, as above.

271 Microdiorite. medium grey, with green mineral inclusions also a few grains of a black, ferromagnesian mineral (Hornblende ?) (1mm x 3cc) throughout. some Pyrite.

Core description, core #5

Package material

272 Microdiorite with accessories, as above.

273 Microdiorite, grey, with Hornblende grains, green disseminated mineral & traces pyrite.

274 Microdiorite, as above, Pyrite becoming scarce.

275 Microdiorite, grey, finely crystalline, with traces Pyrite + green disseminated mineral.

Box # 31 276 Microdiorite, as above, with accessories, as above. Core broken, by numerous calcite filled vienlets, limonite stain on calcite, moderate.

277. Microdiorite, Medium grey. Shattered by thin calcite vienlets. Pyrite inclusions rare.

~~278~~ 278 Microdiorite, as above, Pyrite concentrated as flakes along faces of minute fractures.

279. Microdiorite, Medium grey, with disseminated, green mineral, Pyrite along fracture faces, broken.

280 Microdiorite, and accessories, as above.

281 Microdiorite, and accessories, as above.

282 Microdiorite, Medium grey, hard, finely crystalline, with green, finely disseminated mineral & Pyrite flakes concentrated along minute fracture planes., broken.

283 Microdiorite, with accessories, as above.

Box # 32. 284 Microdiorite, light grey, finely crystalline, hard, with fine grains Pyrite disseminated throughout, few thin, calcite filled vienlets.

285 Microdiorite, and accessories, as above.

286 Microdiorite, as above, with few disseminated grains hornblende (?) Pyrite throughout.

287. Microdiorite, grey, as above, with accessories, Pyrite flakes along minute fracture planes.

288 Microdiorite, as above, with increase in needle like Hornblende inclusions, Pyrite, rare.

289 Microdiorite, Medium grey, containing fine Hornblende (?) laths. Pyrite flakes on fracture planes.

290 Microdiorite, with accessories, as above.

291 Microdiorite, as above, fine grains Pyrite scattered throughout

292 Microdiorite, light grey, ~~finely~~ finely crystalline, hard, with grains Pyrite throughout + Pyrite concentration along narrow fracture planes

293. Microdiorite, as above, with accessories, also thin hairline calcite vienlets.

Box #33 294. Microdiorite, light grey, finely crystalline, hard, with few grains pyrite throughout.

295 Microdiorite, with accessories, as above.

296 Microdiorite, Medium grey, fine, hard, with fine grains Pyrite disseminated throughout.

297 Microdiorite, and accessories, as above.

298 Microdiorite, etc., as above.

299 Microdiorite, Medium grey, finely crystalline, with fine disseminated Pyrite throughout.

300 Microdiorite + Pyrite, as above.

301 Microdiorite, grey, fine, hard, with fine grains Pyrite throughout.

Core Description. Core #5

Footage interval

302 Microdiorite, light grey, very finely crystalline, hard, with fine grains Pyrite disseminated throughout core, & flakes Pyrite concentrated on minute fracture planes.

Box #34 303 Microdiorite, as above, with accessories as above.

304 Microdiorite, Medium greenish grey, finely crystalline, green cast due to finely disseminated ~~gre~~ yellow-green Mineral, associated with Pyrite, - Pyrite, fine, Throughout.

305 Microdiorite, accessories + Pyrite, as above.

306 Microdiorite, Medium grey with greenish cast with fine grains Pyrite disseminated Throughout and especially along minute fracture planes,

307 Microdiorite, with above accessories, grey, finely crystalline, hard.

308 Microdiorite, grey with disseminated Pyrite, as above

309 Microdiorite, identical to above,

310 Microdiorite, Med. grey - Light grey, fine grains Pyrite throughout, with hairline calcite filled fractures.

311 Microdiorite, Light grey, finely crystalline, hard, fine grains Pyrite Throughout.

Box 35 312 Microdiorite, Light grey, with accessories, as above.

* 313 Microdiorite, grey groundmass enclosing, grey microdiorite fragments + fine pea-gravel quartzite inclusions, Pyrite disseminated Throughout.
(quartzite inclusions)

314 Microdiorite, grey, with some fragment inclusions, as above, with thin calcite veinlet running parallel to core. fine grains Pyrite Throughout core.

* 315 Microdiorite groundmass enclosing fragments quartz + Microdiorite.

* 316 Microdiorite groundmass, quartzite + Microdiorite, fragments, Pyrite, all badly broken.

* 317 Microdiorite groundmass, grey, with finely disseminated Pyrite, Mass encloses Pebbles quartzite, brown, and fragments of microdiorite.

318 Microdiorite, medium grey, finely crystalline, hard, with fine grains ~~Pyrite~~ Pyrite disseminated Throughout.

319 Microdiorite, with accessories, as above.

320 Microdiorite, Medium grey, with fine grains Pyrite, Less than above,

321 Microdiorite and accessories, as above.

Box #36 322 Microdiorite, grey, with dissem. Pyrite Throughout.

323 ~~322~~ Microdiorite, grey, finely crystalline fine grains ~~Pyrite~~ Pyrite on frac. faces.

324 Microdiorite, dark grey, very fine, very little Pyrite.

325 Microdiorite, Medium grey, very fine mica specs disseminated throughout.

326 Microdiorite, Medium grey, fine, hard, Traces Pyrite.

327 Microdiorite - Medium grey, fine ~~Pyrite~~ Pyrite Throughout.

Core Descriptions Core #5

Footage interval

328. Microdiorite, light-medium grey, hard with fine Pyrite specs throughout.

329. Microdiorite, as above.

330. Microdiorite, light grey, fine, hard, fine grains Pyrite throughout.

BOX #37 331. Microdiorite, with small grains Pyrite disseminated throughout.

332. Microdiorite, light grey, fine, hard. fine grained Pyrite throughout.

333. Microdiorite, with accessories, as above.

334. Microdiorite, light grey, fine Pyrite throughout.

335. Microdiorite with grains ~~crystals~~ crystals of Pyrite throughout.

336. Microdiorite, light grey, fine, hard. fine grained Pyrite.

337. Microdiorite, as above.

338. Microdiorite, grey, as above, with fine Pyrite throughout.

339. Microdiorite, light grey, looks bleached, with fine grained Pyrite throughout.

(Bleached appearance) 340. Microdiorite, as above.

BOX #38 341. Microdiorite, light grey, bleached. fine Pyrite throughout.

" 342. Microdiorite, with accessories, identical to above.

" 343. Microdiorite. Medium green-grey, hard. fine, Pyrite (fine) throughout.

" 344. Microdiorite, as above, slightly lighter color, with disseminated Pyrite.

" 345. Microdiorite, very light grey, bleached appearance, fine Pyrite throughout.

" 346. Microdiorite as above.

" 347. Microdiorite, identical to 346.

" 348. Microdiorite, light green grey, "bleached" few grains Pyrite throughout.

" 349. Microdiorite, very light grey, coarser texture, very fine Pyrite throughout.

BOX #39 350. Microdiorite, as above.

" 351. Microdiorite, light greyish green, bleached appearance, coarser texture, fine grains Pyrite throughout.

" 352. Microdiorite, as above.

" 353. Microdiorite as 351

354. Microdiorite, Med. grey, fine, hard, greenish cast, Pyrite throughout. fracture.

355. Microdiorite, Medium grey-green. Pyrite disseminated throughout.

356. Microdiorite, light grey, with green mineral inclusions, Pyrite throughout.

357. Microdiorite, with accessories, as above.

358. Microdiorite, light grey, fine grains Pyrite throughout.

359. Microdiorite, Med. grey hard, fine, with Pyrite grains

360. Microdiorite, light grey, banded. fine, hard.

Core description Core #5

Release interval

Box #40 361 Microdiorite, medium grey, fine, hard. traces of fine grains Pyrite throughout.

362 Microdiorite, light grey, banded 'flow' appearance, with finely disseminated Pyrite.

363 Microdiorite, similar to above.

364 Microdiorite, light grey, but coarser textured than above, with fine Pyrite.

365 Microdiorite, light grey, fine textured. with very finely disseminated Pyrite.

366 Microdiorite, light grey, coarser, "bleached" with fine grains Pyrite.

367 Microdiorite, light grey, finely ~~textur~~ crystalline, hard, traces Pyrite.

368 Microdiorite, medium grey, very fine, traces Pyrite.

369 Microdiorite, as above hard, fine, little Pyrite.

370 Microdiorite, light grey, fine, hard, with increase in Pyrite content & Pyrite in fracture zone, 4 mm. wide.

Box #41 371 Microdiorite, light grey, fine, hard, with finely disseminated Pyrite throughout.

372 Microdiorite, as above.

373. Microdiorite, as above.

374 Microdiorite, light grey, with greenish inclusions & fine grains Pyrite throughout.

375 Microdiorite, as above; increase in Pyrite content.

376 Microdiorite as above, with Pyrite, as above.

377 Microdiorite, light grey, hard, with finely disseminated Pyrite throughout.

378 Microdiorite, identical to above.

Box #42 379 Microdiorite, light grey, hard, with fine grains Pyrite throughout.

380 Microdiorite, as above, with Pyrite.

381 Microdiorite, as above, identical

382 Microdiorite, as above 3" then grading to microdiorite, light grey finely crystalline. with disseminated Pyrite.

383 Microdiorite, light grey hard, with fine grains Pyrite throughout.

384 Microdiorite, Med. grey, finely crystalline, hard. conchoidal fracture, with very fine Pyrite dissemination.

385 Microdiorite, as above, with accessories, one calcite veinlet

386 Microdiorite, as above.

387 Microdiorite, medium grey, finely crystalline, hard with finely disseminated Pyrite.

388 Microdiorite, medium grey, very fine textured. conchoidal, hard. finely disem. Pyrite.

Box #43 389. Microdiorite, with accessories, as above.

390 Microdiorite, light grey, hard, with very finely disseminated Pyrite.

391 Microdiorite, light grey, as above, with disem. Pyrite, also Pyrite concentration in minute fractures.

Page 16 Core Description, core #5.

Notes interval

392. Microdiorite, light grey, finely crystalline, hard, with specs pyrite finely disseminated throughout. Few thin calcite veinlets with pyrite concentration.

393 Microdiorite, light grey, with same accessories as above.

394. Microdiorite, light grey, with increase in Pyrite disemination throughout.

395 Microdiorite, as above, identical

396 Microdiorite, Medium grey, hard, conchoidal with very fine specs Pyrite + some larger grains throughout, Pyrite concentration along fracture faces.

397 Microdiorite, similar to above

Box #19 398 Microdiorite, ~~light~~ Medium grey, finely crystalline, hard, fine specs Pyrite disseminated thru.

399 Microdiorite, as above, with fine grains pyrite throughout.

400 Microdiorite, Medium grey, fine, conchoidal frac, very finely disem. Pyrite, + along minute fracs.

401 Microdiorite, as above with accessories as above.

402 Microdiorite, Medium grey, finely crystalline, with fine disseminated Pyrite.

403 Microdiorite, Medium grey, hard conchoidal, fine pyrite.

404. Microdiorite, Medium grey finely crystalline, with very fine grains Pyrite throughout.

405 Microdiorite, as above, with accessories, also Pyrite concentration on fracture planes.

406 Microdiorite, Medium grey, finely crystalline, hard, fine grains Pyrite throughout.

pyrite increase.

* 407 Microdiorite, as above, with increase in Pyrite content + size of grains.

Box #15 408. Microdiorite, Medium grey - greenish grey, finely crystalline, hard, with

hornblende needles. scattered inclusions of black, ferromagnesian mineral (hornblende?) about

" 2 MM. in x sec. also increase in pyrite inclusions 1-2 MM. x sec. -

" 409 Microdiorite, identical to above, with Pyrite concentration in minute fractures.

" 410 Microdiorite, with accessories as 408.

" 411 Microdiorite, Medium grey with blades of hornblende(?) + few calcite inclusions.

" with fine grains Pyrite throughout.

" 412. Microdiorite, as above, identical.

" 413 Microdiorite, as above, with concentration of Pyrite along fracture planes

" 414. Microdiorite, Medium grey, with blades of hornblend. (1x3 MM) scattered

" throughout, with finely disseminated Pyrite,

" 415 Microdiorite, as above. Pyrite concentration on fractures.

" 416 Microdiorite, Medium grey with hornblende needles scattered throughout some grains Pyrite disseminated throughout, with concentration on fractures.

Box #16 417 Microdiorite, Medium grey, hard, finely crystalline, with scattered hornblende needles and finely disseminated Pyrite.

Core Description, core #5

Footage interval

418. Microdiorite, medium grey, fine, hard, with finely disseminated Pyrite.

419 Microdiorite, identical to above.

420. Microdiorite, medium grey hard, with fine grains Pyrite throughout.

421 Microdiorite, as above.

422 Microdiorite, medium grey, finely crystalline hard, with scattered fine grains Pyrite.

423 Microdiorite, as above. grading into Microdiorite, medium grey with inclusions (Phenocrysts) of Hornblende, Pyrite rare.

(Hornblende Phenocrysts) 424 Hornblende Andesite, medium grey with Hornblende Phenocrysts (5X 8 MM. x sec) Largest, with Pyrite throughout

425 Hornblende andesite, with Pyrite, as above.

Box # 17 426 Hornblende andesite, with large Phenocrysts of Hornblend, Pyrite throughout core & on fracture planes.

427 Hornblende andesite, medium grey, with Phenocrysts & Pyrite as above

428 Hornblende andesite, and accessories, as above

429 Hornblende andesite, etc as above

430 Hornblende andesite, Med. grey with above accessories, grading to Microdiorite, grey at 430.9'

431 Microdiorite, medium grey, fine crystalline, with fine flakes disseminated Pyrite throughout.

432 Microdiorite, medium grey, and accessories, as above.

433 Microdiorite, etc, as above,

434 Microdiorite, etc. as above,

435 Microdiorite, light to medium grey, finely crystalline, with fine disseminated Pyrite throughout.

Box # 18 436 Microdiorite light grey, fine, with flakes & inclusions of Pyrite throughout.

437 Microdiorite, and accessories, as above grading into Microdiorite medium grey, very finely crystalline

438 Microdiorite, medium grey, very finely crystalline, with flecs of Pyrite throughout

439 Microdiorite, as above, becoming light grey, increase in Pyrite content, few calcite veinlets.

440 Microdiorite, as above, with 2" shattered, calcite filled zone, some iron staining, Pyrite throughout

441 Microdiorite, medium grey, very fine, pyritic.

442 Microdiorite, & accessories, as above.

443 Microdiorite, medium grey, very finely crystalline, with finely disseminated Pyrite.

Box #19. 444 Microdiorite, as above

445 Microdiorite medium grey, with greenish tinge, Pyrite, rare, only as occasional flecs throughout

446 Microdiorite, as above, grading to light colored Microdiorite, with more Pyrite

447 Microdiorite, light grey, with disseminated Pyrite.

448 Microdiorite, light grey, with much fine Pyrite scattered throughout, fine hairline flecs, slickenside

449 Microdiorite, As above. grading to darker Microdiorite with greenish tinge.

450 Microdiorite, Med. grey, very finely crystalline, greenish tinge, rare Pyrite, very fine, throughout.

Core Description, Core No 5

| Footage interval | | |
|---|---|---|
| | 151 | Microdiorite, light grey, very finely crystalline, greenish tinge, rare pyrite. |
| | 152 | Microdiorite, as above, with streaks dark grey Microdiorite, conchoidal frac. rare pyrite. |
| | 153 | Microdiorite, medium to dark grey, very fine, as above. |
| Broken interval | 154 | Microdiorite, as above, badly shattered. Pyrite rare, some calcite on thin fractures. |
| | 155 | Microdiorite, as above. |
| | 156 | Microdiorite, light grey, finely crystalline, with fine pyrite disseminated throughout. |
| | 157 | Microdiorite, with accessories as above. |
| | 158 | Microdiorite, light grey, finely crystalline, some fine disseminated pyrite |
| | 159 | Microdiorite, identical to above, with few hairline fractures. |
| | 160 | Microdiorite, light grey, very finely crystalline, few fine flakes pyrite throughout. |
| shattered | 161 | Microdiorite, as above. shattered, calcite filled fractures, traces iron stain. |
| | 162 | Microdiorite, light grey, very finely crystalline, greenish tinge. few thin fractures. |
| | 163 | Microdiorite, as above, fine pyrite throughout, with concentration on frac. planes. |
| shattered | 164 | Microdiorite, medium grey, fine crystalline, broken. |
| shattered | 165 | Microdiorite, as above, badly shattered, poor recovery, pyrite or staining rare. |

CORE NO. 5

466 - 476 Microdiorite, medium light gray, very fine, finely crystalline few thin calcite filled veinlets throughout. Pyrite dissemination throughout, more concentrated along fracture planes. Zone in lower part of 471 broken, Limonite and Hermatite staining on fracture faces. (2").

476 - 481.5 Microdiorite, light, medium gray. More coarsely crystalline. Pyrite in minor quantity disseminated throughout. A greater amount of Pyrite is concentrated along minute fracture planes. A few, hairline calcite filled veinlets.

481.5 - 486 Microdiorite, medium gray finely crystalline, with occasional thin (1-2 MM) calcite filled veinlets. Pyrite throughout but less common than above.

486 - 496 Microdiorite, medium gray, finely crystalline, with dark inclusions of Hornblende (± 2 MM cross section) scattered throughout. Few grains Pyrite scattered throughout, more along minute fracturefaces. Core from 492.5 - 495 shattered due to concentration of closely spaced calcite filled veinlets. No ironstaining.

496 - 505 Microdiorite, as above, with occasional breaks due to calcite filled fractures. Pyrite present, but rare.

505 - 515 Microdiorite, medium gray, finely crystalline, 505-507 with minute Hornblende (2) inclusions scattered throughout. Remainder of interval, shattered in places due to Calcite veinlets. Pyrite grains throughout, generally rare. More Pyrite concentrated along minute fracture planes.

515-525 515 - 517, Microdiorite medium gray, very finely crystalline, hard, with conchoidal fractures. Fine specks Pyrite throughout, grading into (517-525) Microdiorite, medium gray, finely crystalline with increase in Pyrite scattered throughout and more along minute fracture planes. Few thin, Calcite filled veinlets throughout interval.

525 - 535 525 - 531, Microdiorite ground mass, light gray with slight greenish tinge, Pyrite scattered throughout, groundmass encloses fragments of darker gray and light gray, very finely crystalline Microdiorite. 531.5 - 532, consists of a light tan gray quartzite inclusion. 532 - 535, Microdiorite, medium gray, very finely xln. Pyrite grains throughout but rare.

535 - 545 Microdiorite, light gray, finely crystalline, solid throughout with only one thin Calcite veinlet. Much finely disseminated Pyrite scattered throughout from 535 - 538, less thereafter.

545 - 554 Microdiorite, light gray finely crystalline, few grains Pyrite throughout, but with increase and concentration of Pyrite along minute fracture planes, in interval 546-548.

554 - 563 554 - 559, Microdiorite, medium gray, finely crystalline, pyrite rare except along minute fracture planes. One calcite filled shatter zone, ½" wide at 557. (No staining).
559 - 563, Microdiorite as above, enclosing occasional fragments of light medium gray Microdiorite.

563 - 572 Microdiorite, light gray, finely crystalline, with fair amount of scattered Pyrite grains and streaks throughout. Numerous hairline thin veinlets filled with Calcite.

572 - 582 Microdiorite, medium gray finely crystalline, uniform, hard, with very little detectable Pyrite.

582 - 592 Microdiorite, medium gray, as above, very little Pyrite except on occasional minute fracture face, 586 shattered, with numerous thin Calcite veinlets and Calcite inclusions, no iron staining.

5 92 - 602 Microdiorite, light, medium gray, finely crystalline, uniform, hard, with very little Pyrite. Slight increase in Pyrite from about 600 - 602.

602 - 612 Microdiorite, light gray (602) grading to medium gray, with occasional inclusions of gray Microdiorite, finer texture. Many thin Calcite veinlets throughout interval. Pyrite very rare, occasional concentration along minute fractures. Core shattered near base due to interval of closely spaced Calcite veinlets, some iron staining on Calcite.

612 - 621 Microdiorite, light gray with inclusions of darker gray Microdiorite. Thin Calcite veinlets throughout. One well developed vug, crystal lined at 616. Core broken in places along veinlets, with traces iron staining. Pyrite is very rare to absent in this interval.

621 - 630 Microdiorite, light medium gray enclosing fragments of darker gray Microdiorite. Hairline thin veinlets of Calcite throughout. Pyrite present only as rare occasional grain in upper part of interval, slight increase in grains Pyrite in lower part.

630 - 640 Microdiorite, as above, with inclusions of darker Microdiorite. Few Calcite filled veinlets, and occasional grains Pyrite throughout.

640 - 649 640 - Microdiorite. medium gray, finely crystalline, with (pebble) inclusion of tan-gray quartzite. Inclusions of darker gray Microdiorite scattered throughout interval (640 - 649). Few thin Calcite stringers. Fair amount of Pyrite disseminated throughout interval.

649 - 659 Microdiorite, light, medium gray with inclusions of darker gray Microdiorite scattered throughout. Pyrite concentration increasing with much disseminated Pyrite throughout interval.

659 - 668 Microdiorite, light gray, finely crystalline, hard. Occasional pebble inclusion of tan-gray quartzite, much fine grained Pyrite disseminated throughout interval, with concentrations along minute fracture planes.

668 - 677 668 - 672, Microdiorite, light gray, as above, with much disseminated Pyrite.
672 - 677, Microdiorite, medium gray, very finely crystalline, hard, with little to no Pyrite throughout.

677 - 686 677 - 679, Microdiorite, as 672 - 677.
679 - 686, Microdiorite, light gray with Pyrite well disseminated throughout.

686 - 695 Microdiorite, light gray with inclusions of darker gray Microdiorite, fair amount of Pyrite flakes and inclusions throughout.

| | |
|---|---|
| 695 - 706 | Microdiorite, light, medium gray, finely crystalline, hard, with pyrite content diminishing. |
| 706 - 715 | Microdiorite, light gray, finely crystalline, very little Pyrite throughout interval except some concentration along minute fracture planes. |
| 715 - 724.5 | Microdiorite, light gray, finely crystalline, uniform,hard, with inclusions of olive-green mineral ± 4MM cross sec. few grains Pyrite throughout but very rare. |
| 724.5-734 | Microdiorite, with accessory mineral as above, few grains rare Pyrite, few thin Calcite filled veinlets throughout. |
| 734 - 744 | Microdiorite, light, medium gray with occasional inclusions of olive-green, yellow-green mineral, few grains rare Pyrite throughout interval, few hairline thin Calcite veinlets. |
| 744 - 753 | Microdiorite, as above, with numerous thin Calcite veinlets, grains rare Pyrite throughout. Ironstaining on Calcite ⅛" veinlet 745 - 746. |
| 753 - 757 | Microdiorite, medium gray finely crystalline, broken, numerous thin Calcite veinlets. No visible Pyrite in this interval. |
| Bottom | Bottom of core 757' |

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Denver Federal Center - Building 25 - Room 2284
Denver, Colorado 80225

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JAN 16 1967
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January 13, 1967

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

one only rec'd 1-16-67 cac, agreed 1/18/67

Transmitted herewith are the original and ~~two~~ one copies of MME Form 60 (Operator's Monthly Voucher) and MME Form 61 (Operator's Progress Report) and narrative report for the month of December 1966 of the above mentioned docket.

The operator has billed us for 657 feet of BXWL drilling between 0 - 500 feet at a cost of $6.40 a foot which totals $4,204.80. I have disallowed this cost since the contract does not specify BX wireline footage in that category. See page 3 under description of the work, Stage 1, estimated cost of the work under diamond drill footage. However, under the general provisions of the contract it states "all drill holes shall be completed not less than BX wireline size and shall be cased as necessary. The Government will not contribute to the cost of casing left in a hole at the operator's request". The operator has also billed for 110 feet of casing which was left in the hole. However, the casing was not left in the hole at the operator's request, consequently, I have approved this for payment. ?

The claimed BX wireline footage between o - 500' may be recovered by an amendment. If this can be accomplished, I recommend that an amendment be executed to include this footage for payment.

J. William Hasler

MME FORM 50
SEPT. 1959

OFFICIAL COPY

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME-6548
Contract No.
14-23-090- 2231
Contract Amount $ 112,000.00
Gov't. Participation % 75 $ 84,000.00
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER

For Month of December, 1966

Operator's Name Big Treasure Mining & Development Co.
Address 125 Sedgefield Ct., San Ramon, Calif 94583

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing 24½ hrs | $ 490.00 | $ 710.00 | $ 1,200.00 | | | |
| Bulldozing mobilization chg Drifting | | 100.00 | | | | |
| ~~Crosscutting~~ NC | 152.00 | -0- | 152.00 | | | |
| Surface Drilling NX WL | 1,242.00 | -0- | 1,242.00 | | | |
| -500' BX WL | 4,204.80 | -0- | 4,204.80 | | | |
| +500' BX WL | 1,773.30 | -0- | 1,773.30 | | | |
| (2) Personal Services: | 7392.10 | | | | | |
| Geologist - Engineer ~~Supervision & Technical~~ | 900.00 | 360.00 | 1,260.00 | | | |
| Outside Consultants | | | | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| Casing lost in hole | 178.00 | -0- | 178.00 | | | |
| Additives (Cal Seal) | 15.00 | -0- | 15.00 | | | |
| Core boxes | 120.00 | -0- | 120.00 | | | |
| (4) Operating Equipment: | | | | | | |
| 4 wheel drive truck Rental | 160.00 | 64.00 | 224.00 | | | |
| ~~Purchase~~ Mileage | 144.00 | 95.76 | 239.76 | | | |
| Depreciation | | | | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | | | | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and Clerical expense | 40.00 | 27.50 | 67.50 | | | |
| TOTALS | $9,419.30 | $ 1,357.26 | $10,776.50 | | | |

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

Date Jan 7, 1967 *Payee Big Treasure Mining and Development Co.

Per David H. Kimball Title President

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$ 3,910.73

Signature John 14X0804
(Authorized Certifying Officer)

Date JAN 24 1967 Vou. No. 5660

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2231

Signature J. William Hasler Title Field Officer Date Jan. 12, 1967

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date Jan. 12, 1967

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of December, 1966 Docket No. OME 6548

Operator's Name Big Treasure Mining & Development Co Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| Casing Lost in hole ~~Drifting~~ | Ft. | 110 | 110 | $178.20 | 110 | 110 | 178.20 |
| ~~Crosscutting~~ Additives | Sacks | 2 | 2 | 15.00 | 2 | 2 | 15.00 |
| ~~Raising~~ Core boxes | Boxes | 120 | 120 | 120.00 | 120 | 120 | 120.00 |
| Shafts | | | | | | | |
| Winzes | | | | | | | |
| Other Underground NC | Ft | 20 | 20 | 152.00 | 20 | 20 | 152.00 |
| ~~Drilling, Core Diamond~~ NX | Ft | 180 | 180 | 1,242.00 | 180 | 180 | 1,242.00 |
| ~~Rotary~~ 0-500' BX | Ft | 657 | 657 | 4,204.80 | — | — | — |
| ~~Drilling, Non-core Diamond~~ 500-1000' BX | Ft | 257 | 257 | 1,773.30 | 257 | 257 | 1,773.30 |
| Rotary | | 114 | | | | | |
| Churn | | | | | | | |
| Percussion | | | | | | | |
| Miscellaneous | | | | | | | |
| Geologist - Engineer | Months | 1 Mo. | 1 and 12/30 | $1,260.00 | 1 | 1 12/30 | 1,260.00 |
| Roads and Trails Bulldozer | Hrs | 24½ | 60 | 1,200.00 | 24½ | 60 | 1200.00 |
| Bulldozing - mobilization ~~Stripping~~ Vehicle Rental | | all | all | 100.00 | — | 50.00 | 50.00 |
| ~~Trenching~~ Vehicle mileage | Months | 1 Mo | 1 12/30 | 224.00 | 1 | 1 12/30 | 224.00 |
| ~~Test Pitting~~ Bookkeeping & Clerical | Miles | 1,200 | 1998 | 239.76 | 1,200 | 1,998 | 239.76 |
| Other Surface Work | Month | 1 Mo | 1 27/40 | 67.50 | 1 | 1 27/40 | 67.50 |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | | | | |
| TOTAL TO DATE (per MME Form 60) | | | | $10,776.56 | | | $6,521.76 |

**REMARKS**

(Continue on back)

**REMARKS**

Disallow 657 Ft. BX WL 0-500' as no item for BX WL hole in that category is provided for in contract. Stage I, Actual Cost drill footage. Total cost disallowed $4,204.80

(Continue on back)

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 Jan 7, 1967 Operator Big Treasure Mining & Development Co.

Per [signature] Title President

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date January 12 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: **Big Treasure Mining and Development Co.**
**125 Sedgefield Court**
**San Ramon, California 94583**

| Amount Claimed: | Differences (Explained Below) | Amount Approved |
|---|---|---|
| **$9,419.30** | **$4,205.00** | **$5,214.30**<br>**$3,910.73 Gov't Participation** |
| Bu. Voucher No. | Payee's Invoice No.<br>**OME-6548**<br>**Contract # 2231** | Period<br>**December 1966** |

EXPLANATION

**$4,204.80 - Disallowed 657 feet BXWL 0-500 feet as no item for BXWL hole in that category is provided in contract.**

**- .20 - Error in calculation monthly total column.**
**$4,205.00**

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

**J. D. McAlister**
Branch of Budget and Finance

BIG TREASURE

Mining and Development Company

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

January 4, 1967

Mr. J. William Hasler
Field Officer, Region 3
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado 80225

Subject: OME - 6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

Dear Mr. Hasler:

Enclosed herewith are four copies each of MME Form 60 (Operator's Monthly Voucher) and MME Form 61 (Operator's Progress Report). These report forms cover the month of December, 1966. Each copy is signed, dated and certified to be correct. Also enclosed are copies of appropriate voucher, bills, and receipts which are certified to be correct. Work continued throughout the entire month of December. The construction of access roads and drill stations were completed with the D-7 bulldozer. Hole No. 5 was completed and was bottomed BX size, Hole No. 4 was begun and approximately 100' of hole was drilled NX size and cased (see attached statement from Boyles Bros. Drilling Company for the exact depth of hole completed at the end of December).

Below is given our narrative report of the work performed during December, 1966.

(1) December 1 and 2--Using the D-7 bulldozer, prepared diamond drill hole Station No. 1 and completed the access road to Station No. 2. Also completed work on drill site for hole No. 2. On December 1, Boyles Bros. representatives (Janco and Roberts) visited the property, examined all the drill stations and access roads constructed at that time, and suggested modifications necessary in some cases. They both felt that the proposed stations 7A and 7B were impractical due to difficulty of access up the steep mountainside and that a flat area of sufficient size for the tripod base could not be constructed at reasonable expense.

(2) December 5 thru December 9 (Monday thru Friday)--On Monday the bulldozer was used to improve the access road to drill station No. 3, and prepare site for drill station No. 3. On Tuesday the site for drill station No. 4 was modified as suggested by Boyles Bros. representatives. Boyles Bros. crew chief (Virgil Larios) came to the property to familiarize himself with the access roads

and the location of the first drill station. The bulldozer broke down after working only 2½ hours. Wednesday, a heavy rain storm washed all the ponds that had been constructed by the bulldozer to provide drill water along Deer Creek Wash. Several of the crossings, and some portions of the access road to the drill site were damaged. The bulldozer modified station 6 according to the suggestion made by Janco and Roberts of Boyles Bros. The bulldozer was needed in the afternoon to assist the drill rig in moving to the location because of road damage caused by the flood. The level of the water subsided in the afternoon. Thursday, the bulldozer improved access roads to drill sites to a satisfactory condition. The drill rig was positioned on station No. 5 and was set up without trouble. The bulldozer re-excavated the washed out water ponds. The bulldozer broke a blade lifter bracket at 4:00 p.m. and was down for the remainder of Thursday and all of Friday. Boyles Bros. drilled deadman holes, and did other work necessary to raising the tripod. Angle and direction of hole was set up by Janc. Two drill crews were working two shifts. The names of the personel were: Virgil Larios, Tool Pusher and Day Shift Driller, Don Snider, night shift Driller. On Sunday, Janc moved a house trailer to the property to provide permanent living accomodations there.

(3) December 12 thru 16 (Monday thru Friday)--Janc set the declination on the drill head (45°) on Monday and coring began on hole No. 5 at 9:30 a.m. Ten feet of NC casing was set. Drilling proceeded NX size. Hole footage at the end of the day was 46 feet. Bulldozer work on access roadways and drill stations had been completed the end of the previous week, and no more bulldozer work applicable under the OME contract was done during the week. Tuesday, the footage cored by the end of the day was 85 feet. At 38 feet in the hole an interval several feet wide of galena-sphalerite and pyrite in quartz gangue was noted. Wednesday, the core depth at the end of the day was 126 feet, NX casing was set to a depth of 100 feet. Below that depth, the hole size was BX. Thursday, the depth of the cored hole at the end of the day was 224 feet. Friday, depth of cored hole at the end of the day was 296 feet. Saturday, (drillers were working six days per week--two shifts per day) core depth at the end of the day was 386 feet.

(4) December 19 thru 24, (Monday thru Saturday)--Core depth at the end of Monday's shift was 466 feet. Core depth at the end of Tuesday's shift was 535 feet. On Wednesday, Manuel and Richard Sosa arrived at the property at 8:00 a.m. with tools and began repair work on core shed. The core depth at the end of Wednesday was 615 feet. Core depth at the end of Thursday was 658 feet. Work on repair of core shed continued during Thursday. On Friday, the core shed work was completed at noon. About 90 running feet of heavy plank shelving was constructed which will accomodate approximately 550 boxes of core. The evening shift stopped the hole at a depth of 757 feet. The bottom of the hole contained sulfide mineralization

and calcite vienlets. Saturday, the drill crew attempted to pull the casing from the hole unsuccessfully. After working all day Friday, the casing was left under tension over the holiday weekend. The full 100 feet of casing in the NX portion of the hole was stuck. All core boxes were moved to the core shed and stored there.

(5) December 27 thru Saturday, December 31-- The crew rigged down on hole No. 5 and moved the drilling equipment to the station for drill hole No. 4. The drill was set up on Monday and two deadman anchors were established. Drilling began on Tuesday and continued through the week. The first 100 feet of hole was drilled NX size, casing was set, and the hole was continued downward BX size.* Janc remained on the property during this period, set the angle and inclination of the drill hole, and logged and sampled the drill core. Drill core logs are not yet completed on the core drilled during the month, and will be forwarded to your office directly under separate cover as soon as they are finished, probably within the next few days.

Enclosed herewith are copies of vouchers, bills, etc., supporting the costs claimed during this report period.

I trust the above will be adequate to permit your office to forward to us a check for 75% of the costs listed during this report period. (Total costs incurred being $9,419.30 ). Please send the check for the government's portion of the costs directly to our office in San Ramon, California.

Sincerely yours

David H. Kimball

David H. Kimball, President
Big Treasure Mining and Development Co.

SMH:DHK:s

Enclosures

* total footage drilled on hole No. 4 through Dec. 31, 1966 was 357 ft.

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 25 - Room 2284

OFFICIAL COPY
O. M. E.
RECEIVED
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December 19, 1966

Memorandum

To: Assistant Chief, OME

From: Secretary to Field Officer, Region III, OME

Subject: OME-6548 (Silver)
Big Treasure Mining and Development Company
Little Treasure and Adjust Mines
Pinal County, Arizona
Contract 2231

In accordance with instructions in a December 2, 1966 memorandum from the Chief, OME to Field Officer, Region III, enclosed please find MME Form 60's, MME Form 61's and narrative reports with supporting documents for the month of November, 1966 on the above-mentioned subject.

One copy of each has been retained for the Denver OME files.

Mary E. Clark
Secretary, to Field Officer, Region III,
Office of Minerals Exploration

Enclosures

MME FORM 60
SEPT. 1959

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

Docket No. OME 6548
Contract No.
14-23-090- 2231
Contract Amount $112 000.00
Gov't. Participation % 75 $84000.00
Mineral(s) Silver

## OPERATOR'S MONTHLY VOUCHER

For Month of November, 1966

Operator's Name Big Treasure Mining and Development Co.
Address 725 Sedgefield Ct. Dublin, Calif 94566

| COST CATEGORIES | FOR OPERATOR'S USE: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE | FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL | PREVIOUSLY REPORTED | TOTALS TO DATE |
|---|---|---|---|---|---|---|
| Fixed Unit Costs and | | | | | | |
| (1) Independent Contracts: | | | | | | |
| Bulldozing 35½ hrs | $ 710.00 | -0- | $ 710.00 | | | |
| Drifting | | | | | | |
| Crosscutting | | | | | | |
| ~~Drilling~~ Bulldozing | | | | | | |
| Mobilization charge | 100.00 | -0- | 100.00 | | | |
| (2) Personal Services: | | | | | | |
| Supervision & Technical | 360.00 | -0- | 360.00 | | | |
| Geologist-Engineer | | | | | | |
| Outside Consultants | | | | | | |
| Labor | | | | | | |
| (3) Operating Mat'l. & Supplies: | | | | | | |
| Timber | | | | | | |
| Explosives | | | | | | |
| Pipe | | | | | | |
| Rail | | | | | | |
| (4) Operating Equipment: | | | | | | |
| Rental 4wheel drive Truck | 64.00 | -0- | 64.00 | | | |
| ~~Purchase~~ Mileage | 95.76 | -0- | 95.76 | | | |
| Depreciation | | | | | | |
| (5) Initial Rehab. & Repairs: | | | | | | |
| Buildings, Fixtures, etc. | | | | | | |
| Operating Equipment | | | | | | |
| (6) New Buildings, Fixtures, etc. | | | | | | |
| (7) Miscellaneous: | | | | | | |
| Repairs to Equipment | | | | | | |
| Analytical Work | | | | | | |
| Payroll Taxes | | | | | | |
| Employee's Liability Ins. | | | | | | |
| Bookkeeping and office expense | 27.50 | -0- | 27.50 | | | |
| TOTALS | $1357.26 | -0- | $1357.26 | | | |

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

Date Dec 15, 1966 *Payee Big Treasure

Per [signature] Title Pres.

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

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

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

$980.45

Signature [signature] 14X0804
(Authorized Certifying Officer)

Date JAN 6 1967 Vou. No. 5315

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. _____

Signature R. M. Smith Title Geologist Date 1/3/67

Approved by OME Executive Officer or Alternate:

Signature _____ Title _____ Date _____

## OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

## PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: **Big Treasure Mining and Development Co.**
**125 Sedgefield Ct.**
**Dubling, Calif. 94566**

| Amount Claimed: | Differences (Explained Below) | Amount Approved |
|---|---|---|
| **$1,357.26** | **$50.00** | **$1,307.26**<br>**$980.45 Govt. Participation** |
| Bur. Voucher No. | Payee's Invoice No.<br>**Docket # 6548 Contract # 2231** | Period<br>**November 1966** |

EXPLANATION

**$50.00 Demobilization not performed in November, per field officer.**

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

**B. E. McFarlane**

Branch of Budget and Finance

MME FORM 61
SEPT. 1959

12/21/66/13 RMS

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## OFFICE OF MINERALS EXPLORATION

**OPERATOR'S PROGRESS REPORT** For Month of November, 1966 Docket No. OME 6548

Operator's Name Big Treasure Mining and Development Co Contract No. 14-23-090-2231

| OPERATION | UNITS | FOR OPERATOR'S USE: UNITS THIS MONTH | UNITS TO DATE | COSTS TO DATE | FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH | APPROVED UNITS TO DATE | APPROVED COSTS TO DATE |
|---|---|---|---|---|---|---|---|
| Drifting | | | | | | | |
| Crosscutting | | | | | | | |
| Raising | | | | | | | |
| Shafts | | | | | | | |
| Winzes | | | | | | | |
| Other Underground | | | | | | | |
| Drilling, Core-Diamond | | | | | | | |
| Rotary | | | | | | | |
| Drilling, Non-core-Diamond | | | | | | | |
| Rotary | | | | | | | |
| Churn | | | | | | | |
| Percussion | | | | | | | |
| ~~Miscellaneous~~ | | | | | | | |
| Geologist-Engineer | months | 12/30 | 12/30 | $ 360.00 | | | |
| Roads and Trails Bulldozer | Hrs | 35½ | 35½ | 710.00 | | | |
| ~~Stripping~~ Bulldozer Mobilization | | all | all | 100.00 | | | |
| ~~Trenching~~ Vehicle rental | months | 12/30 | 12/30 | 64.00 | | | |
| Test Pitting Vehicle mileage | miles | 798 | 798 | 95.76 | | | |
| Other Surface Work Bookkeeping + Office | | 27/40 | 27/40 | 27.00 | | | |
| Initial Rehabilitation and Repairs | | | | | | | |
| Rehabilitation of Mine Workings | | | | | | | |
| New Buildings, Fixtures, etc. | | | | | | | |
| Operating Equipment Purchases | | | | | | | |
| Analytical Work | | | | | | | |
| TOTAL TO DATE (per MME Form 60) | | | | $ 1,357.26 | | | |

REMARKS
None

(Continue on back)

REMARKS
Disallow $50.00 Demobilization not performed in Nov. RMS.

(Continue on back)

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 Dec. 15, 1966 Operator Big Treasure

Per [signature] Title Pres.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature R M Smith

Title Geologist
Government Representative

Date 1/3/67

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

## INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

**BIG TREASURE** *Mining and Development Company*

ARIZONA OFFICE
P. O. Box 663 • Winkelman, Arizona

MAIN OFFICE
125 Sedgefield • San Ramon, California 94583
Phone (415) 828-4126

December 14, 1966

Mr. J. William Hasler
Field Officer, Region Three
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado 80225

Subject: OME - 6548 (Silver) Big Treasure Mining and Development Company, Little Treasure and Adjust Mines, Pinal County, Arizona, Contract 2231

Dear Mr. Hasler:

Enclosed herewith are four copies each of MME Form 60 "Operator's Monthly Voucher" and MME Form 61 "Operator's Progress Report". These report forms cover the month of November, 1966. Each copy is signed, dated, and certified to be correct. Work started under the provisions of the contract on November 18 and continued through the end of the month, November 30.

Below is given our narrative report of the work performed during this reporting period.

(1) On November 18 the bulldozer contractor, Charlie Nichols, of Globe, Arizona, moved the D-8 bulldozer to the property site in preparation to beginning the drill site construction and access road construction and repair. Actual bulldozer work on drill sites at access roads began on November 19. Work actually carried out during this period including the following: (a) Construction of drill site 6 with access road; (b) construction of drill site 5 with access road; (c) construction of drill site 4 with access road; (d) a portion of the access road to drill site2was completed; (e) water holding ponds were constructed for drill stations 5 and 6 to provide water for drilling according to the guidance provided by the drilling contractor (Boyles Brothers). Thirty-five and one half hours of bulldozer time was used to do the above described work.

(2) On November 18, Mr. Ronald Janc, supervisor-geologist-engineer, arrived at the property to begin his technical and supervisory duties. During this report period, Mr. Janc directed all work, made appropriate geologic observations and notes, and collected samples for assay.

(3) On November 18 a four wheel drive International Scout vehicle was delivered to the property to provide transportation thereon, and necessary transportation to the property site from the supply points in nearby portions of Ar izona. The four wheel drive vehicle remained until the end of the report period.

Mileage was 798 miles.

(4) A contract was arranged with a qualified bookkeeper to take care of the accounting and bookkeeping work. Preliminary books have been set up which will permit us to keep records of the contract as required by the OME.

Enclosed herewith are copies of vouchers, bills, etc., supporting the cost claimed during this report period.

I trust the above will be adequate to permit your office to forward to us a check for 75% of the costs listed. All these costs have been paid by us and we would like to have the check for the government's contribution sent directly to our office in San Ramon, California.

Sincerely yours

David H. Kimball, President
Big Treasure Mining and Development Co

SMH:DHK:s

Enclosures