DMEA Form 7
(12-56)

OFFICIAL FILE COPY

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	Kirkemo	
9/11	Selfridge	110
9-11	Ogdd	220
9-11	gad	225

SEP 11 1959

Memorandum

To: Executive Officer, OME Field Team, Region III

From ACTING Chairman, Operating Committee, OME

Subject: Docket No. DMEA-4214 (Copper)
Mercury, Uranium and Oil Company
San Pedro Mine
Santa Fe County, New Mexico
Contract No. Idm-E981

Regarding your September 1 memorandum concerning settlement sheets covering royalty payments (April 24, 1959, Lot 645), on the cited contract, we are enclosing three copies. Four copies had been sent to us.

W. R. Griswold

Enclosures

WRGriswold/gla 9-10-59
cc to: Director's Reading File
Operating Committee
Docket
Chron

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Harold Kirkemo

Member, Geological Survey

8623

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

Building 20 - Federal Center
Denver 25, Colorado

September 1, 1959

OFFICIAL FILE COPY O. M. E. RECEIVED SEP 3 1959		
DATE	INITIALS	CODE
9-3	gad	rro
		~~rro~~
9-9	Griswold	500
		225

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Docket No. DMEA 4214 (Copper) Contract No. Idm-E981
Mercury, Uranium and Oil Company (San Pedro mine)
Santa Fe County, New Mexico

By undated memorandum probably forwarded sometime in the fore part of May, 1959, we forwarded you a settlement sheet covering royalty payments under the subject contract. The settlement sheet was dated 4/24/59, liquidation number 645.

For some unknown reason, a copy of the settlement sheet is missing from the Finance Office and our files, therefore, it would be appreciated if you will make two copies of the settlement sheet and forward them at an early date.

J. W. Townsend

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

March 24, 1958

Memorandum

To: Wingfield N. Chamberlain, Statistics Branch
Division of Operation Control and Statistics

From: Director, Division of Base Metals

Subject: Report of Semi-Annual Reports of Certified Projects for the Period July 1, 1957 thru December 31, 1957.

Docket No.	Contract No.	Name
DMEA-744	Idm-E109	United Mining and Leasing Company
DMEA-2711	Idm-E478	Globe-Miami Copper Zinc Corporation
DMEA-4214	Idm-E981	Mercury Uranium & Oil Company

W. R. Griswold

W. R. Griswold

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

PROJECT SUMMARY REPORT (Incomplete)
(No Operator's final report, Field Team final report, or final Audit)

By: J. W. Alt June 19, 1957

1. Docket No. DMEA-4214 (Copper)
Contract No. Idm-E981
Property: San Pedro Mine
Santa Fe County, New Mexico

Operator: Mercury Uranium & Oil Company
San Pedro Mine Division
112 - 8th Street, N.W.
Albuquerque, New Mexico

Operator's Property Rights: Lessee
Lease and Option - dated February 9, 1956.
Consent to Lien - dated June 8, 1956.

2. Contract dated July 27, 1956. To complete - 18 months.

Work Authorized

The work is divided into two successive stages. The Operator shall perform the work under Stage I, and shall perform as much of the work under Stage II as is approved in advance by the Government.

STAGE I

1. Diamond drill 29 holes, AX size. The total amount of diamond drilling shall not exceed 5,700 feet.

2. Not to exceed 350 feet of drifting to the north from Stope 31-11.

3. Not to exceed 100 feet of drifting to the north from Stope No. 1

4. Not to exceed 50 feet of drifting for 10 diamond drill stations.

8623

Work Authorized (continued)

5. Not to exceed 100 feet of raising for 10 raises for diamond drill stations.

STAGE II

1. Not to exceed 2,000 feet of diamond drill, AX size.

2. Not to exceed 200 feet of drifting.

3. Not to exceed 150 feet of raising.

4. Not to exceed 150 feet of winzing.

Fixed Unit Costs

STAGE I

1.	5,700 feet of diamond drilling AX size, @ $7.50/ft.	$ 42,750.00
2.	350 feet of drifting @ $39.50/ft.	13,825.00
3.	100 feet of drifting @ $39.50/ft.	3,950.00
4.	50 feet of drifting @ $39.50/ft.	1,975.00
5.	100 feet of raising @ $39.50/ft.	3,950.00
6.	180 samples assayed for copper, gold, silver, and tungstrn trioxide of diamond drill core @ $5.00/sample	900.00
7.	60 samples assayed for copper, gold, silver and tungsten trioxide of drift mineralization @ $5.00/sample	300.00
	Estimated Total Cost, Stage I	$ 67,650.00

STAGE II

1.	2,000 feet of diamond drilling, AX size @ $7.50/ft.	$ 15,000.00
2.	200 feet of drifting @ $39.50/ft.	7,900.00
3.	150 feet of raising @ $39.50/ft.	5,925.00
4.	150 feet of winzing @ $55.00/ft.	8,250.00
5.	65 samples assayed for copper, gold, silver and tungsten trioxide of diamond drill core @ $5.00/sample	325.00
6.	50 samples assayed for copper, gold, silver and tungsten trioxide of mineralization in drifts, etc. @ $5.00/sample	250.00
	Estimated Total Cost, Stage II	$37,650.00

Estimated Total Cost for Stage I	$ 67,650.00
Estimated Total Cost for Stage II	37,650.00
Estimated Total Cost for the Project	$105,300.00
Government's participation @ 50%	$ 52,650.00

Amendments

No. 1 Agreed February 6, 1957.

1. In Exhibit "A", Item 1 of Stage I is revised to read as follows: "1. Diamond drilling 31 diamond drill holes. The diamond drilling shall not exceed 6,200 feet."

   Item 2 of Stage I is revised to read as follows: "Not to exceed 255 feet of drifting to the north from Stope 31-11".

   Under Fixed Unit Costs, Items 1 and 2 are revised to read as follows:

1. 6,200 feet of diamond drilling @ $7.50/ft.	$ 46,500.00
2. 255 feet of drifting @ $39.50/ft.	$ 10,075.00

Work Completed (As per MF-104 for the Month of March 1957)

Diamond drilling, 6,913 feet @ $7.50/ft.	$ 51,847.50
Drifting, 78.60 feet @ $39.50/ft.	3,104.70
Raising, 99.48 feet @ $39.50/ft.	3,929.46
Assays, 40 @ $5.00/sample	200.00
Total Cost (Subject to final Audit)	$59,081.66
Unexpended balance (Subject to final Audit)	$46,218.34

Work on the project was started in November 1956. The last work performed under the terms of the contract was in March 1957.

3. Audit Certificate - No final audit to date.

   Operator's final report - none required to date.
   Field Team's final report - none required to date.

4. Certification of Discovery or Development.

A certification will be issued when final reports, are received. The work done under the terms of the contract has resulted in the discovery of copper ore.

5. Comments:

The work was conducted in a satisfactory manner. Several of the holes drilled underground, namely diamond drill holes 9, 10, 12, 18, 23, 24, 25, 28 and 29, appear to indicate minable thicknesses and grades of ore. Future work to exploit the ore found by DMEA drilling would be of a development nature.

The Field Team states in their memorandum dated, May 27, 1957:

> "Complete logs and assay data are not yet available upon which to base estimated reserves found by DMEA exploration, but it is believed that the amount will be significant. It is recommended that a Certification of Discovery or Development be issued as a result of the exploration work performed."

J. W. Alt

J. W. Alt

JWAlt/er
Copy to: Docket
Chron.

OFFICE OF MINERALS EXPLORATION

REGION III

Statement in Lieu of Interim Report
of Certified Project

Amc

Reporting Period October 23, 1961 thru May 2, 1962

Docket and Contract Number DMEA-4214 Idm E981

Operator Mercury Uranium and Oil Company
San Pedro Mine
Santa Fe County, New Mexico

Copper

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

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

Remarks: Mr. Charles F. Williams, one of the owners of the property, told me May 3, 1962, that the property was inactive during the reporting period, and that Tom Scartaccini's lease with the owners was terminated in August 1961.

OFFICIAL FILE COPY
O. M. E
RECEIVED MAY 7 1962

DATE		
5/2		800
5-7		100
5/7		~~110~~
5/8	Received	~~120~~
		~~500~~
		220

Signed T M Romslo
T. M. Romslo

Date May 2, 1962

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

~~XXWASHINGTON 25XXD.XC.XX~~
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 11 1960

DATE	INITIALS	CODE
4-11	gad	VVO
"	[illegible]	110
4/12	[illegible]	800
4/25	[illegible]	500
		225

April 7, 1960

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Annual Reports of Certified Projects

Enclosed are the original and two copies of the following subject report for the period January 1, 1959 through December 31, 1959.

Docket No. DMEA-4214 (Copper)
Contract No. Idm-E981
Mercury Uranium and Oil Co.
(San Pedro mine)
Santa Fe County, New Mexico.

J. W. Townsend

J. W. Townsend

Enclosure

Annual [redacted] Report of Certified Projects

Reporting Period	January 1, 1959 to March 4, 1960
Docket and Contract Number	DMEA-4214, Idm-E981
Operator	Mercury Uranium and Oil Co.
Commodity	Copper
Mine Name	San Pedro
County and State	Santa Fe County, New Mexico

Date of Contract	July 27, 1956
Date of Certification	September 6, 1957
Expiration Date of Royalty Payments	July 27, 1966
Date of Examination for this Report	March 4, 1960

Total Amount of Contract	$105,300.00
Total Expenditures under Contract	$58,881.66
Amount of Government Participation at 50 %	$ 29,440.83

Royalty Payments this Period	$345.65
Previous Royalty Payments	$ 62.60
Total Royalty Payments to Date	$408.25 Thru smelter Lot. No. 482
% Loan Repayment Completed	1.39%

Amount of Royalty Due : Royalty due only on manganese ore produced this period.

Royalty Remarks Payment requested in letter to Mr. Tom B. Scartaccini dated March 10, 1960.

	Tons	Analysis %Cu
Original Estimate of DMEA Reserve (Field Team Final Report) Mines [ ] Survey [ ] Joint [x]	30,000	1.02
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [ ]		

Increase of Reserves by work performed subsequent to DMEA project work

		Manganese Ore Tons	Manganese Ore %Mn		% Cu	Oz/T Ag
Production DMEA ore	(This period)	15.6	32.5	253.626	7.8	2.57
	(Previous)	0.0	--	93.632	6.2	1.74
	(To Date)	15.6	32.5	347.278 *	7.2	1.95
" Operator's ore found subsequent to DMEA work	(This period)					
	(Previous)					
	(To Date)					

*Thru smelter Lot. No. 482

Percent Revised Reserves Mined _____

(For Uranium Ores Only)

Initial Production Bonus:

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

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Investment Data

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

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

Facilities

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

Remarks

Nobody was on the property during the inspection. The following information was obtained during conversations with Eugene Scartaccini, brother of Tom

Signed M Romolo (Engineer)

Scartaccini, Lessee, at Golden, New Mexico, and with Colonel Charles W. Williams, owner of the property, at Santa Fe, New Mexico:

1. Copper mining operations for the report period were conducted from February 1959 to August 1959, when terminated by the smelter strike and for a short period during January 1960 and February 1960 when a small amount of previously broken ore was shipped to the smelter.

2. Total production of copper ore for the report period is in agreement with DMEA records.

3. No ore is stockpiled.

4. Copper mining operations will be renewed shortly.

5. The McBride Blending Company, Box 615, Deming, New Mexico, under a working agreement with Tom Scartaccini, mined and made one shipment of manganese ore from the Baca Shaft of the Carnahan mine during the fall of 1959. The Company's settlement statement, received by Colonel Williams, showed the shipment contained 31,203 dry pounds of ore assaying 32.5 percent manganese. Net value of the ore was $533.96 before a royalty payment of $53.39 to Colonel Williams.

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
224 New Customhouse
Denver 2, Colorado
April 1, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 3 1959

DATE	INITIALS	CODE
4/3	C	
"	TU	220
4/6	EEJ	110
4/14	wpb	800
	alt.	500
	Klmg	

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1958 through December 31, 1958

DMEA Docket 4214 (Copper)
Contract Idm-E 981 (San Pedro mine)
Mercury Uranium & Oil Co.
Santa Fe County, New Mexico

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

J. W. Townsend

Enclosures
HMC/ff

cc: Semiannual Report File Idm-E 981
Harshman
Belser
Chron.

Semiannual Report of Certified Projects

Reporting Period July 1, 1958 through December 31, 1958

Docket and Contract Number DMEA 4214 - Idm-E981

Operator Mercury Uranium & Oil Co.

Commodity Copper

Mine Name San Pedro mine

County and State Santa Fe County, New Mexico

Date of Contract July 27, 1956

Date of Certification September 6, 1957

Expiration Date of Royalty Payments July 27, 1966

Date of Examination for this Report February 20, 1958

Total Amount of Contract $ 105,300.00

Total Expenditures under Contract $ 58,881.66

Amount of Government Participation at 50 % $ 29,440.83

Royalty Payments this Period $ 62.60

Previous Royalty Payments _____

Total Royalty Payments to Date $ 62.60

% Loan Repayment Completed 0.21%

Amount of Royalty Due None

Royalty Remarks

DMEA 4214 - Idm-[illegible]31

	Tons	Analysis % Cu.
Original Estimate of DMEA Reserves (Field Team Final Report) Mines [ ] Survey [ ] Joint [X]	30,000	1.02
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [ ]		
Increase of Reserves by work performed subsequent to DMEA project work		

Production DMEA (~~conc~~ ore)	(This period)	93.632	6.20% Cu.	1.74 oz. Ag.
	(Previous)	0.0	(11,614 lbs.)	(162.52 ounces)
	(To Date)	93.632		
" Operator's (conc ore)	(This period)	0.0		
	(Previous)	0.0		
	(To Date)	0.0		

Percent Revised Reserves Mined _____

(For Uranium Ores Only)

Initial Production Bonus:

Status Operator: Ineligible [ ] Not Applied [ ] Applied [ ] Rec'ing pmt [ ] Pd up [ ]

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $ _____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $ _____

Bonus Royalty Paid $ _____

Bonus Royalty Due $ _____

Investment Data

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

No new work on San Pedro copper mine.

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

Facilities

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

Contemplating moving old 100-ton mill to property.

Remarks

Have 45 tons hand-sorted ore (estimated to run 10% Cu.) from bottom of incline in 30 stope. At present installing 25 h.p. Hirsch-Alamo hoist on Baca shaft on Carnahan mine to work manganese. Baca shaft is included with the above property.

Signed Earl Baker (Engineer)

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~DEFENSE MINERALS EXPLORATION ADMINISTRATION~~
OFFICE OF MINERALS EXPLORATION
224 New Customhouse
Denver 2, Colorado
October 24, 1958

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 27 1958
INTERIOR MAIL CODE
10/27 C 220
" 110
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10/29 500

Memorandum

To: Chairman, Operating Committee, OME

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

Subject: Statement in Lieu of Semiannual Report for the period January 1, 1958 to June 30, 1958

Docket No. DMEA 4214 (Copper) Contract Idm-E981, Mercury Uranium and Oil Company, (San Pedro mine) Santa Fe County, New Mexico

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

E. N. Harshman

E. N. Harshman

Enclosures

OME
DEPARTMENT OF THE INTERIOR
OCT 23 1958
REGION III
DENVER, COLORADO

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period Jan. 1, 1958 to June 30, 1958
Docket and Contract Number DMEA 4214 (Copper) Contract Idm-E981
Operator Mercury Uranium and Oil Company
San Pedro mine, Santa Fe County, New Mexico

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

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

Remarks:

Ray Kornegay left his office at 615 San Mateo, S. E., Albuquerque, over three months ago. Mr. Kornegay was handling the San Pedro six months previously. Mercury Uranium and Oil Company was contacted and they stated that they had turned the San Pedro mine back to the owner on August 10, 1958. The owner is Col. Charles F. Williams, 110 Camina de la Pene, Santa Fe. Phone 3-8118. Col. Williams did not answer the phone and is said to be in France.

Signed Carl Belser Date 10/17/58

Carl Belser

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

March 13, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 17 1958

DATE		CODE
3/17	C	220
17	Copy	100
"		110
3/18		800
3/19		500

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

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

DMEA Docket DMEA 4214
Contract Idm-E 981
Mercury Uranium & Oil Co. (San Pedro Mine)
Santa Fe County, New Mexico

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

W. H. Ring
Executive Officer, DMEA
Field Team, Region III

Enclosures

MHM:dp

cc: Semiannual Report File E 981
DMEA/DFC (2)
Harshman
Chron.

Semiannual Report of Certified Projects

Reporting Period July 1, 1957 - December 31, 1957

Docket and Contract Number DMEA 4214 Idm-E981

Operator Mercury Uranium & Oil Co.

Commodity Copper

Mine Name San Pedro Mine

County and State Santa Fe County, New Mexico

ORIGINAL FILE COPY
DMEA
RECEIVED 17
DATE

Date of Contract July 27, 1956

Date of Certification September 6, 1957

Expiration Date of Royalty Payments July 27, 1966

Date of Examination for this Report February 20, 1958

Total Amount of Contract $105,300.00

Total Expenditures under Contract $58,881.66

Amount of Government Participation at 50 % $29,440.83

Royalty Payments this Period None

Previous Royalty Payments None

Total Royalty Payments to Date None

% Loan Repayment Completed ---

Amount of Royalty Due None

Royalty Remarks

Idm-E981

	Tons	Analysis % Cu
Original Estimate of DMEA Reserves (Field Team Final Report) Mines ☐ Survey ☐ Joint ☐	30,000	1.02+
Revised Estimate of DMEA Reserves (Field Team) Mines ☐ Survey ☐ Joint ☐		
Increase of Reserves by work performed subsequent to DMEA project work		
Production DMEA (conc/ore) (This period)		
(Previous)		
(To Date)		
" Operator's (conc/ore) (This period)		
(Previous)		
(To Date)		

Percent Revised Reserves Mined _____

(For Uranium Ores Only)

Initial Production Bonus:

Status Operator: Ineligible ☐ Not Applied ☐ Applied ☐ Rec'ing pmt ☐ Pd up ☐

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Investment Data

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

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

Facilities

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

Remarks

Office moved to 615 San Mateo S. E., Albuquerque, N. M. Stopped operations Oct. 5, 1957. No shipments. Rails still in place. No increase in DMEA reserves. Compressors were rented and returned. Other machinery in storage at mine. Ray Kornegay states that company has spent over $130,000.00 to date.

DMEA
DEPARTMENT OF THE INTERIOR
FEB 24 1958
REGION III
DENVER, COLORADO

Signed Carl Belser (Engineer)
Carl Belser 2/24/58

FINAL DISTRIBUTION
MADE MAY 2 2 1957

DMEA-4214

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

Administrative Audit Difference Statement

Date: [illegible]
Payee's
Reference: [illegible]

[illegible]

[illegible]

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

Amount Claimed $ [illegible]

Difference $ [illegible]

Amount Approved $ [illegible]

EXTRA COPY
D M E A
RECEIVED [illegible] 1957

DATE	INITIALS	CODE
		110
5/27	[illegible]	500

The reason for the difference was due to:

[illegible]

[illegible]

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

Very sincerely yours,

N. E. Stokes
Audit Section

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

204 New Customhouse
Denver 2, Colorado
May 17, 1957

Memorandum

To: T. A. Christensen

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

Subject: DMEA Docket-4214, (Copper), Contract Idm-E981
Mercury Uranium and Oil Company (San Pedro mine),
Santa Fe County, New Mexico - Operator's Monthly
Progress Report, for the month of March, 1957

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

Except as otherwise noted below, we consider that the Operator has complied with the intent of the contract and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made on the following basis, contingent on your verification of arithmetical accuracy within the report.

Disallowance, Assays

The Operator has reported the cost of 40 samples assayed at $5.00 per sample. The contract stipulates that the samples be assayed for Cu., Au. Ag., and WO_3. None of the samples were analyzed for WO_3 as required by the contract, and only 11 samples were analyzed for Au. and Ag.

Disallow the reported cost of 40 samples assayed, at $5.00 per sample---------- $200.00

Withhold an amount of $500.00 pending resumption of work under the terms of the contract, or if work is not resumed, continue to withhold this amount pending resolution of matters which are prerequisite to closing the account. Information available in this office indicates that the Operator may wish to terminate the contract work.

Reconciliation with the Amount Reported by the Operator on Form MF-104 for March, 1957

Amount reported on Form MF-104 for March, 1957	$10,100.00
Amount to be disallowed	200.00
Total accepted cost for March, 1957	$ 9,900.00
Government participation at 50 percent	4,950.00
Amount to be withheld	500.00
Balance due the Operator	$ 4,450.00

Remarks

Date of Report ---------- May 6, 1957
Date Received in Field Office ---------- May 9, 1957
Date Received in Region Office ---------- May 15, 1957

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

Enclosures

JEG:hh
cc: Comm. Op. Comm. (2)
Kennelmann
Harshman } w/copy of Engr's
Townsend } report
MF-104 file, Region III
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

MAY 15 1957
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
May 14, 1957

Memorandum

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

Through: Albert S. Konselman
Mining Engineer

From: W. D. McMillan

Subject: DMEA Docket 4214 (Copper) Contract IAm-2981, Mercury Oil and Uranium Company, San Pedro Copper Mine, Santa Fe County, New Mexico -- Progress report for March 1957

An inspection of progress for March was made on April 2, 1957, accompanied by F. R. Dunn, geologist and mining engineer, Ray Wood, general superintendent, of Mercury Oil and Uranium Company and William B. Emerick, of the Geological Survey.

The pertinent data on the holes completed, which completes the project, are given in the following table:

RECEIVED
DMEA
DATE 1957
CODE

Table No. 1 - Pertinent Data on March D. D. Holes

Hole No.	Coord. North	Coord. East	Bearing	Inclin.	Dates Start	Dates Finish	Depth feet	Core Rec. %	Mineralization
32	1455	2199	West	-70°	3/2/57	3/6/57	155	92.4	Fair to good chalcopyrite
33	1247	2198	West	-70°	3/8/57	3/10/57	135	97.0	Slight to none "
34	1134	3070	East	+80°	3/1/57	3/2/57	30	98.3	Fair "
* 36	1345	2254	S80°E	-70°	3/6/57	3/8/57	100	76.2	4 ft. fair min. 93.0 - 9[illegible]
**37	1597	3061	0	-90°	3/8/57	3/30/57	900	91.8	11 ft. min. 715 - 726

* Possible continuation of ore found in Hole 10 to be investigated from Richmond shaft.

** Mineralization between 715 and 726 feet to be investigated from bottom of winze.

Total drilling in March 1957 1320 feet

All Work was according to contract specifications with an adequate narrative report, Forms MF-104 and 104A, drill logs and maps in quintuplicate. All drilling was done with AX bits.

Approved costs are 1320 feet of core drilling at $7.50 per foot amounting to $9900.00 and 40 chemical analyses at $5.00 each amounting to $200.00 for samples shown in the February 1957 report, or a total of $10,100.00.

It is recommended that 50 percent of the approved total of $10,100.00 amounting to $5050.00 be approved for payment.

W. D. McMillan
Mining Engineer

WDM/mw
cc: 6
Idm-5981
Chron

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

Budget Bureau No. 42-R1036.5

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

Month of March 1957 Docket No. DMEA 4214 Contract No. IDM-2981
Operator's Name Mercury Uranium and Oil Company Minerals Copper
Address 600 Coal Ave., S. W. Albuquerque, N. M.
Contract Amount, $ 10,100.00 Government Participation: 50 % Amount, $ 5,050.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	$9900.00	$41,947.50	$51,847.50	8/21/57		
Bulldozing						
Crosscutting						
Drifting		3,104.70	3,104.70			
Raising		3,929.46	3,929.46			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	200.00	None	200.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	10,100.00	48,981.66	59,081.66	9,900.00	48,981.66	58,881.66

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DMEA
DEPARTMENT OF THE INTERIOR
MAY 8 - 1957
REGION III
DENVER, COLORADO

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 6, 1957 Payee Mercury Uranium & Oil Co.
Per [signature] Title Ch. Min. Engr. & Geol.

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$4450.00
Signature [signature] (Authorized Certifying Officer)
Date 5/21/57 Voucher DMA 57-126
(See other side)

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

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

(Instructions on reverse)

Note: Withheld 500.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E981 in accordance with the terms of the contract.

Signature Leonie McLean ($5050.00) Title Min Engr. Date 5/10/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature O. A. Haselman Title Acting Executive Officer Date MAY 17 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1957 Docket No. DMEA 4214 Contract No. IDM-E981
Operator's Name Mercury Uranium and Oil Company Minerals Copper
Address 600 Coal Ave., S. W., Albuquerque, N. M.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting				$3104.70	78.60	$39.50	350	$39.50
Crosscutting								
Raising				3929.46	99.48	39.50	150	39.50
Shafts								
Winzes								
Drilling: Core	Foot	$9900.00	1320	51847.50	6913	7.50	7700	7.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assays	Each	200.00	40	200.00	40	5.00	255	5.00
TOTAL DISTRIBUTED COSTS		10,100.00		59,081.66				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,100.00		59,081.66				$105,300.00

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

REMARKS:

Date May 6, 1957 Operator Mercury Uranium & Oil Co.

Per F. B. Baca Title Ch. Min. Engr. & Geol.

F. B. Baca

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

(Instructions on reverse)

(For Government use only)

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Wm E Mclin

INSTRUCTIONS

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

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

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

GPO 872894

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S.W. Albuquerque, N.M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

RESUME' OF OPERATIONS FOR MONTH OF MARCH, 1957, UNDER ABOVE DOCKET NUMBER.

Diamond drilling was completed in the following holes, during this month, at the coordinates shown and to the depths shown:

Hole No.	Coordinates		Started	Completed	Total Depth
32	1455N	2199E	Mar. 2, 1957	Mar. 6, 1957	155 Feet
33	1247N	2198E	Mar. 8, 1957	Mar. 10, 1957	135 Feet
34	1134N	3070E	Mar. 1, 1957	Mar. 2, 1957	30 Feet
36	1345N	2254E	Mar. 6, 1957	Mar. 8, 1957	100 Feet
37	1597N	3061E	Mar. 8, 1957	Mar. 30, 1957	900 Feet
TOTAL DIAMOND DRILLING IN MARCH					1320 Feet

Fair mineralization was found in hole #36 at 93 to 97 feet which does not occur at the right depth to be a continuation of either of the mineralized zones encountered in hole #10, west of the shaft fault. This horizon will be investigated further when the lower part of the Richman shaft is cleaned out.

Hole #37 showed a zone of mineraliztion between 715 feet and 726 feet that will be investigated further from the bottom of the winze in the lower part of the mine.

Forty samples have been assayed to date and their number is included in this month's "MF 104, Operators Monthly Report and Voucher.

MERCURY URANIUM AND OIL COMPANY

F. B. Baca, Chief Mining Engineer and Geologist

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DMEA
DEPARTMENT OF THE INTERIOR
MAY 8 - 1957
REGION III
DENVER, COLORADO

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

TRANSCRIPT OF ASSAY CERTIFICATE NO. 2436 MADE BY CHAPMAN AND WOOD OF ALBUQUERQUE, NEW MEXICO and DATED FEBRUARY 21, 1957.

D.D. Hole No.	C. & W. No.	Our No.	Footages	Copper %	Gold Oz.	Silver Oz.
4	7836	1	126.0-127.25	0.07	Nil	Trace
4	7837	2	89.25-90.5	0.18	Nil	Trace
4	7838	3	157.3-160.6	0.26	Nil	Trace
4	7839	4	170.5-172.0	0.60	Nil	0.2
9	7840	5	8.6-14.0	1.02	Nil	0.1
10	7841	6	75.5-77.0	0.54	Nil	Trace
10	7842	7	78.5-83.5	2.65	Trace	0.5
10	7843	8	116.5-122.5	11.36	Trace	0.6
11	7844	9	656.5-658.5	0.05	Nil	Nil
11	7845	10	378.0-384.0	0.05	Nil	Nil
11	7846	11	686.0-696.0	0.06	Nil	Trace
		CERTIFICATE 2450 DATED FEB. 26, 1957				
23	7887	12	0.0-12.8	3.26		
24	7888	13	0.8-6.8	0.54		
24	7889	14	18.6-21.95	0.48		
24	7890	15	51.75-55.75	0.42		
25	7891	16	0.85-13.45	1.97		
25	7892	17	13.45-19.00	0.54		
		CERTIFICATE 2458 DATED FEB. 25, 1957				
19	7905	18	2.0-4.2	20.09		
12	7906	19	40.0-44.6	0.60		
12	7907	20	83.5-85.75	0.60		
12	7908	21	87.9-92.00	0.84		
12	7909	22	111.0-113.20	0.30		
28	7910	23	98.5-103.00	3.35		
13	7911	24	95.8-102.00	0.48		
5	8110	25	120.7-124.9	0.08		
5	8111	26	135.0-138.4	0.10		
8	8112	27	154.5-156.8	0.11		
13	8113	28	790.2-799.2	0.02		
29	8114	29	6.0-8.0	0.41		
30	8115	30	5.35-11.05	2.22		
31	8116	31	0.0-9.0	2.32		

D. D. Hole No.	C. & W. No.	Our No.	Footages	Copper %	Gold Oz.	Silver Oz.
			CERTIFICATE 2779 DATED APRIL 3, 1957			
35	8273	38	13.5-17.7	8.45		
37	8274	32	715.0-716.5	0.06		
37	8275	33	716.5-719.0	0.12		
37	8276	34	719.0-721-5	0.18		
37	8277	35	721.5-723.5	0.18		
37	8278	36	723.5-725.5	0.35		
37	8279	37	725.5-726.0	0.44		
			CERTIFICATE 2807 DATED APRIL 10, 1957			
36	8319	39	93.0-97.0	0.91		
37	8320	40	349.5-351.0	0.09		

F. B. Baca, Geologist

DMEA
DEPARTMENT OF THE INTERIOR
MAY 16 1957
REGION III
DENVER, COLORADO

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Transcript of Assay Certificate No. 2898 made by Chapman & Wood of Albuquerque, New Mexico, May 8, 1957. The assays were made of samples cut from Sub-level Drift driven north out of Stope No. 1.

C. & W. No.	Our No.	Description	Copper %
8797	41	Sta. 00, Floor up to 0.9 Feet, W. Side	2.56
8798	42	Sta. 00, 0.9 up to 4.2 Feet, W. Side	0.56
8799	43	Sta. 00, 4.2 up to 5.4 Feet, W. Side	7.15
8800	44	Sta. 5, Floor up to 1.0 Feet, W. Side	0.32
8801	45	Sta. 5, 1.0 up to 4.5 Feet, W. Side	0.29
8802	46	Sta. 5, 4.5 up to 5.3 Feet, W. Side	9.72
8803	47	Sta. 10, Floor up to 3.2 Feet, W. Side	0.22
8804	48	Sta. 10, 3.2 up to 5.0 Feet, W. Side	5.18
8805	49	Sta. 15, Floor up to 4.7 Feet, W. Side	0.24
8806	50	Sta. 15, 4.7 up to 5.6 Feet, W. Side	18.61
8807	51	Sta. 20, Floor up to 3.0 Feet, W. Side	0.16
8808	52	Sta. 20, 3.0 up to 5.8 Feet, W. Side	8.63
8809	53	Sta. 25, Floor up to 4.1 Feet, W. Side	0.09
8810	54	Sta. 25, 4.0 up to 4.8 Feet, W. Side	6.41
8811	55	Sta. 30, Floor up to Back, W. Side	0.29
8812	56	Sta. 35, Floor up to Back, W. Side	0.09
8813	57	Sta. 40, Floor up to 5.8 Feet, W. Side	0.18
8814	58	Sta. 40, 5.8 up to 7.6 Feet, W. Side	16.02
8815	59	Sta. 45, Floor up to 3.9 Feet, W. Side	0.09
8816	60	Sta. 45, 3.9 up to 5.1 Feet, W. Side	3.62
8817	61	Sta. 50, Floor up to 3.3 Feet, W. Side	0.29
8818	62	Sta. 50, 3.3 up to 5.7 Feet, W. Side	0.08
8819	63	Sta. 55, Floor up to 5.6 Feet, W. Side	0.59

The stationing begins at the start of the drift (00) and progresses inward at 5 foot intervals.

F. B. Baca, Geologist

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MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 32 DIAMOND DRILL HOLE, 1455 N 2199 E, BEARING WEST, INCLINATION -70°, TOTAL DEPTH 155 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO_3	CORE RECOVERY & CONDITION
1	0.0 - 11.0	SILIC. LIMESTONE & SHALE	GREENISH GREY-MOTTL. ALL PYRITIC					8.0 PLUGS
2	11.0 - 17.5	" " " "	" " " " "					6.5 PLUGS TO GOOD
2	17.5 - 21.0	" " " "	" " " NO SULFIDES					3.5 BROKEN
3	21.0 - 22.0	" " " "	" " " " "					1.0 GOOD
3	22.0 - 23.0	LIMESTONE	STEEL GREY SOME CHALCO.					1.0
3	23.0 - 31.0	L.S. & SILICIFIED L.S.	ST'L GREY TO GRN'SH GREY SLIGHT. PYR.					8.0
4	31.0 - 35.3	SILIC. LIMESTONE & SHALE	" " " DARK BAND. " "					4.3
4	35.3 - 42.0	LIMESTONE & TACTITE	" " " BRN'SH GREY FAIR CHALCO.					5.7 PLUGS
5	42.0 - 53.0	" " "	" " " " " " "					10.0
6	53.0 - 63.0	LIMESTONE-TACTITE-GARNETITE	" " " " " SOME "					10.0 GOOD TO PLUGS
7	63.0 - 66.7	" " "	" " " " " " "					3.7 GOOD
7	66.7 - 73.0	MARBLE & SHALE	MOTTL. GREY TO DARK BAND SLIGHT. PYR.					6.3 "
8	73.0 - 75.0	" " "	" " " " " " "					2.0 "
8	75.0 - 83.0	LIMESTONE-TACTITE-GARNETITE	ST'L TO BRN'SH GREY SLIGHT. PYR-SOME CHAL.					8.0 "
9	83.0 - 93.0	" " "	" " " " " " " "					9.0 PLUGS TO GOOD
9	93.0 - 94.0	SILIC. LIMESTONE & SHALE	GRN'SH GREY-LT. MOTTL. NO SULFIDES					1.0 GOOD
10	94.0 - 96.0	" " " "	" " " " " "					2.0 "
10	96.0 - 99.6	LIMESTONE-TACTITE-GARNETITE	ST'L TO BRN'SH GREY SOME CHALCO.					3.6 PLUGS
10	96.6 - 105.0	SILICIFIED LIMESTONE	DK. GREY, MOTTL.- BLACK NO SULFIDES					4.4 100-104 BROKEN-REST GOOD
11	105.0 - 111.0	MARBLE & SILIC. LIMESTONE	LT. " " - GRN'SH SOME CHALCO.					6.0 GOOD
11	111.0 - 115.0	SILICIFIED LIMESTONE	DK. " TO BLACK NO SULFIDES					4.0 "
12	115.0 - 119.5	" "	" " " " " "					2.5 BROKEN
12	119.5 - 120.0	" "	LT. " " GRN'SH GOOD CHALCO.					0.2 PLUGS
12	120.0 - 124.0	SILIC. LIMESTONE & SHALE	DK. " " BLACK SLIGHT. PYRITIC					2.5 BROKEN PLUGS
12	124.0 - 129.0	QUARTZITE	LT. " " WHITE SECOND. PYRITE					5.0 GOOD
13	129.0 - 134.0	"	" " " " " "					5.0 "
13	134.0 - 140.0	SILIC. LIMESTONE & SHALE	" " GRN'SH-MOTTL. NO SULFIDES					5.0 "
14	140.0 - 150.0	QUARTZITE	LIGHT GREY " "					10.0 "
14	150.0 - 155.0	"	" " " "					5.0 "
								143.2 FEET
		HOLE STARTED MAR. 2, 1957						
		HOLE FINISHED MAR. 6, 1957						92.4% RECOVERY

E. B. [illegible]

DMEA EXHIBIT RECEIVED

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 33 DIAMOND DRILL HOLE, 1247 N 2198 E, BEARING WEST, INCLINATION -70°, TOTAL DEPTH 135 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION		%CU	AU	AG	%WO	CORE RECOVERY & CONDITION		
1	0.0 - 3.0	SILIC. LIMESTONE & SHALE	LIGHT TO GREENISH GREY	SLIGHT. PYR.					3.0		GOOD
1	3.0 - 3.5	" " " "	" " " "	FAIR CHALCO.					0.5		PLUGS
1	3.5 - 8.5	" " " "	" " " "	SLIGHT. PYR.					5.0		GOOD
2	8.5 - 10.5	LIMESTONE & TACTITE	STEEL GREY TO LT. BROWN	SOME CHALCO.					1.5		PLUGS
2	10.5 - 19.5	SILIC. LIMESTONE & MARBLE	DARK MOTTLED TO BLACK	NO SULFIDES					8.5		"
3	19.5 - 23.0	" " " "	LIGHT " " " "	" "					3.5		"
3	23.0 - 29.0	LIMESTONE	BROWNISH TO STEEL GREY	SOME CHALCO.					5.0		GOOD
4	29.0 - 31.0	"	" " " "	" "					2.0		"
4	31.0 - 39.0	SILIC. LIMESTONE & SHALE	LT. GRNSH TO MOTT. DARK	SLIGHT. PYR.					8.0		
5	39.0 - 44.0	" " " "	" " " "	" "					5.0		
5	44.0 - 48.0	" " " "	MOTT. DK. GREY TO BLACK	NO SULFIDES					3.0		
6	48.0 - 49.0	" " " "	" " " "	" "					2.0		PLUGS
6	49.0 - 56.5	SILICIFIED MARBLE	LT. GREY - MOTT. GRNSH	PYRITIC					7.5		CRUMBLED
6	56.5 - 57.0	QUARTZITE	" " TO WHITE	SECONDARY CHALCO.					0.5		GOOD
7	57.0 - 59.0	"	" " " "	" "					2.0		"
7	59.0 - 67.0	SILIC. MARBLE & SHALE	MOTT. GRNSH GREY TO BLACK	NO SULFIDES					8.0		"
8	67.0 - 77.0	" " " "	" " " "	" "					10.0		"
9	77.0 - 79.0	" " " "	" " " "	" "					2.0		"
9	79.0 - 82.0	QUARTZITE	LIGHT GREY TO WHITE	" "					3.0		"
9	82.0 - 87.0	MARBLE	" " " "	" "					5.0		"
10	87.0 - 91.0	"	" " " "	" "					4.0		"
10	91.0 - 98.0	SILIC. LIMESTONE & MARBLE	GREY TO DARK MOTTLED	" "					7.0		"
11	98.0 - 108.0	" " " "	" " " "	SOME CHALCO. PRESENT					5.0		PLUGS
12	108.0 - 120.0	" " " "	" " " "	NO SULFIDES					10.0		GOOD
13	120.0 - 123.0	" " " "	" " " "	" "					16.0	116-117	PLUGS
13	123.0 - 130.0	MONZONITE PORPHYRY	" " WHITE - GREY	PYRITIC					3.0		"
14	130.0 - 135.0	" "	" " " "	" "					7.0		GOOD
									5.0		"
		HOLE STARTED MAR. 8, 1957							131.0 FEET		
		HOLE FINISHED MAR. 10, 1957									
									97.0 % RECOVERY		

F. B. Daca

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

№ 34 DIAMOND DRILL HOLE, 1134 N 3070 E, BEARING EAST, INCLINATION +80°; TOTAL DEPTH 30 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%WO	CORE RECOVERY & CONDITION
1	0.0 - 10.0	GARNETITE	STEEL TO BROWNISH GREY SOME CHALCO.					10.0 GOOD
2	10.0 - 20.0	"	" " " " 13-18 FAIR CHALCO					10.0 "
3	20.0 - 30.0	"	" " " " SOME CHALCO					9.5 "
								29.5 FEET
		HOLE STARTED MAR. 1 1957						
		HOLE FINISHED MAR. 2, 1957						98.3% RECOVERY

F. B. Rose

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

Nº 36 DIAMOND DRILL HOLE, 1345 N 2254 E, BEARING S 80°E, INCLINATION -70°, TOTAL DEPTH 100 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO3	CORE RECOVERY & CONDITION
1	0.0 - 6.0	SILICIFIED LIMESTONE	STEEL TO GRNSH GREY NO SULFIDES					5.0 PLUGS
1	6.0 - 9.0	LIMESTONE & GARNETITE	LIGHT TO STEEL GREY SPECULARITE					3.0 "
2	9.0 - 22.0	" " "	" " " " SOME CHALCO & BO					10.0 "
3	22.0 - 31.0	" " "	" " " " SLIGHT. PYRITIC					7.5 "
3	31.0 - 41.0	SILIC. LIMESTONE & SHALE	GREY TO BLACK BAND NO SULFIDES					3.5 BROKEN & PLUGS
4	41.0 - 45.0	" " " "	" " " " " "					3.0 " " "
4	45.0 - 47.0	LIMESTONE	STEEL GREY STRONG PYRITES					3.0 GOOD
4	47.0 - 52.0	SILICIFIED LIMESTONE	DARK GREY TO BLACK SLIGHT. PYRITIC					5.0 "
5	52.0 - 55.0	" "	" " " " " "					3.0 BROKEN PLUGS
5	55.0 - 59.0	QUARTZITE	LIGHT GREY TO WHITE [illegible]					[illegible] GOOD
5	59.0 - 61.0	SILIC. LIMESTONE & SHALE	DARK GREY TO BLACK [illegible]					[illegible]
6	61.0 - 62.5	" " " "	" " " "					[illegible]
6	62.5 - 64.5	LIMESTONE	STEEL GREY [illegible]					[illegible]
	NOTE:	ASSUMED APPROX. 1.5 FEET	OF ORE TYPE LI[illegible]					
6	64.5 - 75.0	SILIC. LIMESTONE & SHALE	DARK GREY TO BLACK [illegible]					[illegible] GOOD - SOME PLUGS
7	75.0 - 91.0	" " " "	" " " " [illegible]					[illegible] PLUGS
8	91.0 - 98.0	LIMESTONE	STEEL GREY [illegible]					[illegible]
8	98.0 - 100.0	SILIC. LIMESTONE & SHALE	MOTT. GREY TO BLACK [illegible]					[illegible] GOOD
		HOLE STARTED MARCH 6, 1957						[illegible]
		HOLE FINISHED MARCH 8, 1957						[illegible] RECOVERY

E. B. Pace

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 37 DIAMOND DRILL HOLE, 1597N 3061E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 900 FEET.

SHEET 1 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO COLLAR ELEVATION 8084 FEET

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO3	CORE RECOVERY & CONDITION
1	0.0 - 8.0	SILIC. LIMESTONE & SHALE	DARK GREY TO BLACK NO SULFIDES					8.0 PLUGS
2	8.0 - 12.0	" " " "	" " " " " "					4.0
2	12.0 - 14.5	QUARTZITE	LIGHT GREY " "					2.5
3	14.5 - 20.0	"	" " " "					3.5
3	20.0 - 26.0	SILIC. LIMESTONE & SHALE	LT. TO GRNSH GREY-BANDED " "					4.5
4	26.0 - 38.0	" " " "	" " " " " " " " PYR.					10.0 GOOD TO PLUGS
5	38.0 - 45.0	" " " "	" " " " " DISSEM. PYR.					7.0 GOOD
5	45.0 - 47.0	" "	" " " " " "					2.0 PLUGS
5	47.0 - 50.0	" "	LT. GREY-MOTTL. RED, BROWN SOME CHALCO.					2.0 GOOD
6	50.0 - 51.0	" "	" " " " " "					1.0 "
6	51.0 - 57.0	" " & SHALE	DARK GREY TO BLACK NO SULFIDES					5.0 31"-34 PLUGS, 34-37 GOOD
6	57.0 - 61.0	" "	DK. TO STEEL GREY CALCITE					4.0 GOOD
7	61.0 - 69.0	" " " "	" " " " " "					8.0 "
7	69.0 - 70.0	" " & SHALE	" " BANDED NO SULFIDES					1.0 PLUGS
8	70.0 - 82.0	QUARTZITIC SHALE	BROWN BANDED TO BLACK SECONDS. PYR.					10.0 "
8	80.0 - 92.0	QUARTZITE & SHALE TO QUARTZITE	BLACK TO LIGHT GREY " "					10.0 GOOD
9	92.0 - 94.0	QUARTZITE	LIGHT GREY " "					2.0 "
10	94.0 - 98.0	HORNFELS	GREY SPOTTED NO SULFIDES					4.0 "
10	98.0 - 102.0	SILIC. LIMESTONE & SHALE	DK. TO BLACK " "					4.0 "
11	102.0 - 103.0	" " " "	" " " " " "					1.0 PLUGS
11	103.0 - 107.0	" " " "	" " " " " DISSEM. PYR.					4.0 GOOD
11	107.0 - 112.0	" " & SHALE	DK. GREY-SLIGHT MOTTL. " "					5.0 "
12	112.0 - 115.0	" " " "	LT. GRNSH GREY-BANDED SOME CHALCO.					3.0 "
12	115.0 - 122.0	" " & HORNFELS	LT. STL. GREY-SLIGHT. MOTTL. DISSEM. PYR.					7.0 GOOD
13	122.0 - 124.0	" " & SHALE	LT. GREY-MOTTL. REDDISH PYRITIC					2.0 PLUGS
13	124.0 - 132.0	" " " "	" " " " " "					8.0 GOOD
14	132.0 - 144.0	" " " "	" " " " " SLIGHT. PYRITIC					10.0 "
15	144.0 - 156.0	" " " "	" " " " " "					10.0 PLUGS
16	156.0 - 158.5	" " " "	" " " TO STL. GREY " "					2.5 GOOD
16	158.5 - 164.0	RHYOLITE	" " TO CREAM WHITE NO SULFIDES					5.5 "
16	164.0 - 166.0	SILICIFIED LIMESTONE	" " MOTTL. GRNSH TO REDSH " "					2.0 "
17	166.0 - 175.0	" "	LT. TO STL. GREY-MOTTL. GRNSH DISSEM. PYR.					8.0 PLUGS
17	175.0 - 177.0	SILIC. LIMESTONE & SHALE	GREY-MOTTL. GRNSH & REDSH " "					2.0 GOOD
18	177.0 - 181.0	" "	" " " " " NO SULFIDES					4.0 "
18	181.0 - 183.0	" " & CALCITE	LIGHT TO STEEL GREY " "					2.0 "

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 37 DIAMOND DRILL HOLE, 1597 N 3061 E, BEARING 0°; INCLINATION -90°; TOTAL DEPTH 900 FEET.

SHEET 2 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEVATION 8084. FEET

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO3	CORE RECOVERY	CONDITION
18	183.0-187.0	SILIC. LIMESTONE TO QUARTZITE	LT. REDSH GREY TO WHITE NO SULFIDES					[illegible]	GOOD
19	187.0-198.0	QUARTZITE	WHITE " "					10.0	"
20	198.0-207.0	"	" CALCITE 202-205 " "					10.0	"
21-22	207.0-226.0	SILIC. LIMESTONE & SHALE	LT. REDSH GREY TO BLACK SECOND. PYR.					10.0	"
22-23	226.0-237.0	QUARTZITE	LT. GREY TO WHITE NO SULFIDES					11.0	"
24	237.0-241.0	"	" " " " PYR. IN SEAMS					4.0	"
24	241.0-246.5	SILIC. LIMESTONE & SHALE	STL GREY-MOTTL. BAND. BLACK NO SULFIDES					5.5	"
25	246.5-256.5	" " " "	LT GREY-BANDING BLACK DISSEM. PYR.					10.0	"
26	256.5-261.0	" " " "	" " " " " "					3.0	BROKEN
26	261.0-269.0	" " " "	DARK GREY TO BLACK NO SULFIDES					7.0	PARTLY BROKEN
27	269.0-279.0	" " " "	" " " " " "					7.0	" "
28	279.0-281.5	" " " "	DK GREY TO GRNSH MOTTL. CALCITE & DISS PYR.					2.5	GOOD
28	281.5-289.0	" " " "	MOTTL. GREY TO BLACK " " DISSEM. PYR.					7.5	"
29	289.0-292.0	" " " "	LT. GREY-BANDED " " " "					3.0	"
29	292.0-292.5	" " " "	STL GREY-MOTTL. GRNSH & YEL. GOOD CHALCO.					0.5	"
29	292.5-299.0	" " " "	LT. GREY-SLIGHT. BANDED DISSEM. PYR.					6.5	"
30	299.0-308.0	" " " "	" " " " " "					9.0	"
31	308.0-317.5	" " " "	" " " " NO SULFIDES					9.5	"
32	317.5-318.5	" " " "	" " " " " "					1.0	"
32	318.5-327.5	SILICIFIED LIMESTONE	BLACK " "					9.0	"
33	327.5-338.0	" "	" " "					10.0	3' BROKEN
34	338.0-342.0	" "	" " "					10.0	GOOD
34	342.0-345.0	" "	LT. GREY TO CREAM WHITE DISSEM. PYR.					4.0	"
34	346.0-349.0	" "	LT. GRNSH TO DK. GREY FAIR CHALCO. 348-349					3.0	"
35	349.0-357.0	" "	" " " " " " SALT. TOUR BUT					8.0	"
35	357.0-358.0	SILIC. LIMESTONE & SHALE	REDSH GREY-SOME BAND. NO SULFIDES					1.0	"
36	358.0-366.0	" " " "	BLACK " "					7.0	4' PIECES REST GOOD
36	366.0-369.0	SILIC. L.S. SHALE & MARBLE	BLK BAND. TO STL GREY DISSEM. PYR.					3.0	GOOD
37	369.0-372.0	" " " " "	" " " " " "					3.0	"
37	372.0-379.0	QUARTZITE	LIGHT GREY TO WHITE SECOND. PYR. IN SEAMS					7.0	"
38	379.0-387.0	"	" " " " " " " "					8.0	"
38	387.0-396.5	SILIC. LIMESTONE & SHALE	BLACK TO GREY FAIR CHALCO. IN SEAMS					2.0	BADLY BROKEN
39	396.5-407.0	" " " "	BLK TO GREEN MOTTL. " " " "					10.0	GOOD TO BROKEN
40	407.0-410.0	" " " "	DK. GREY-SOME BAND. NO SULFIDES					3.0	GOOD
40	410.0-420.5	RHYOLITE	CREAM WHITE " "					[illegible]	

MERCURY URANIUM & OIL CO., 600 COAL AVE., ALBUQUERQUE, NEW MEXICO. DMEA [illegible]

№ 37 DIAMOND DRILL HOLE, 1597N 3061E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 900 FEET.

SHEET 3 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO COLLAR ELEVATION 8084 FEET

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%WO.	CORE RECOVERY & CONDITION
41	420.5-430.5	RHYOLITE	CREAM WHITE NO SULFIDES					10.0 GOOD SOME PLUGS
42	430.5-440.0	"	" " " "					9.5 [illegible] REST GOOD
43	440.0-450.0	"	" " " "					10.0 GOOD
44	450.0-454.0	"	" " " "					4.0 PLUGS
44	454.0-461.5	SILICIFIED LIMESTONE	BLACK " "					6.5 SOME BROKEN
45	461.5-471.0	" "	" " "					9.5 GOOD
46	471.0-480.0	SILIC. LIMESTONE & SHALE	" BANDED SECOND. PYR.					9.0
47	480.0-486.0	" " " "	" TO GREY BAND. " "					6.0
47	486.0-490.0	" " " "	GREY BAND.-GRN MOTTL. NO SULFIDES					4.0
48	490.0-492.0	" " " "	" " " " " "					2.0
48	492.0-494.0	GARNETITE & SILIC. LIMESTONE	ST'L GREY TO BROWNISH " "					2.0
48	494.0-501.0	SILIC. LIMESTONE & SHALE	GRN. MOTTL. TO BLK BAND " "					5.0
49	501.0-515.0	" " " "	" " " " " "					10.0 BROKEN 5-7 IN BLK LIME
50	515.0-517.5	" " " "	" " " " " "					2.5 GOOD
50	517.5-531.0	RHYOLITE (?)	CREAM WHITE - BLK DENDRITES NO SULF.					10.0 BROKEN
51	531.0-565.0	"	" " " " " "					8.0 BADLY BROKEN
51	565.0-566.0	SILICIFIED LIMESTONE	BLACK " "					1.0 GOOD
52	566.0-578.0	" "	" " "					10.0 GOOD-BROKEN IN SPOTS
53	578.0-588.0	" "	BLK TO MOTTLED BLK " "					10.0 GOOD
54	588.0-598.0	SILIC. LIMESTONE & SHALE	MOTTL. BLK-GREY BAND. " "					10.0 "
55	598.0-605.0	MARBLE	LT. GREY-DARK MOTTL. " "					7.0 "
55	605.0-608.0	TACTITE & GARNETITE	LT. TO BRNSH GREY " "					3.0 PLUGS
56	609.0-612.0	MARBLE	LT. GRNSH-MOTTLED " "					3.0 GOOD
56	612.0-619.0	GARNETITE & SILIC. L.S.	LT. ST'L TO BRNSH GREY " "					7.0 "
57	619.0-622.0	SILICIFIED LIMESTONE	LT. GRNSH-MOTTLED " "					3.0 "
57	622.0-625.0	SILIC. LIMESTONE & SHALE	LT. GREY-DARK BANDING " "					3.0 "
57	625.0-629.0	GARNETITE & SILIC. L.S.	LT. ST'L TO BRNSH GREY " "					4.0 "
58	629.0-638.0	" " " "	" " " " " "					9.0 "
59	638.0-645.0	" " " "	" " " " " " FAIR CHALCO. 641-643					7.0 "
59	645.0-648.0	MARBLE	" GREY TO DARK MOTTL. NO SULFIDES					3.0 "
60	648.0-655.0	"	" " " " " "					6.4 GOOD-SOME BROKEN
60	655.0-658.0	GARNETITE & SILIC. L.S.	" ST'L TO BRNSH GREY SPECULARITE					2.5 GOOD
60	658.0-659.0	MARBLE	" GREY TO DK. MOTTL. NO SULFIDES					1.0 "
61	659.0-669.0	"	" " " " " CHALCO. 671-671.5					10.0 "
62	669.0-679.0	"	" " " " " NO SULFIDES					10.0 "

218.4

MERC ANIUM & OIL CO., 600 COAL AVE., ALBUQUERQUE, NEW MEXICO

Nº 37 DIAMOND ILL HOLE, 1597N 3061E, BEARING 0°, INCLINATION -90° TOTAL DEPTH 900 FEET

SHEET 4 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEVATION 8084 FEET

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO3	CORE RECOVERY & CONDITION	
63	679.0-689.0	MARBLE	LT. GREY TO DK MOTTL. NO SULFIDES					10.0	GOOD
64	689.0-699.0	"	" " " " " " "					10.0	"
65	699.0-708.0	"	" " " " " " "					9.0	"
65	708.0-709.0	LIMESTONE & TACTITE	" " MOTTL. TO STL GREY " "					1.0	"
66	709.0-714.0	NETITE & TACTITE	STL GREY TO BROWNISH " "					3.0	BROKEN PLUGS
66	714.0-716.5	LIMESTONE & TACTITE	STEEL GREY DISSEM. PYRITES					2.0	GOOD
66	716.5-721.5	" & MARBLE	" " FAIR CHALCO.					5.0	"
67	721.5-726.5	" " "	" " " "					5.0	"
67	726.5-732.0	" " SHALE	BLACK TO STEEL GREY NO SULFIDES					5.0	"
68	732.0-738.0	" " "	" " GREY MOTTL. " "					6.0	"
68	738.0-740.5	ONZONITE PORPHYRY	GREY-LIGHT SPECKLED SOME PYR. & CHALCO					2.5	"
68	740.5-742.0	MARBLE	LT. GREY-MOTTL. DARK NO SULFIDES					1.5	"
69	742.0-746.0	"	" " " " " " "					4.0	"
69	746.0-750.0	LIMESTONE & GARNETITE	STEEL GREY SPECULARITE					4.0	"
70	750.0-756.5	" " "	" " "					6.5	"
70	756.5-760.0	" " SHALE	LT. GRNSH-MOTTL. DARK NO SULFIDES					3.5	"
71	760.0-770.0	" " "	" " " BLK BAND. " "					10.0	"
72	770.0-780.0	" " "	" " " " " " "					10.0	"
73	780.0-782.0	" " "	" " " " " " "					2.0	"
73	782.0-792.0	ONZONITE PORPHYRY	" TO SPECUL. BLUE GREY " "					8.0	SOME CRUMPLED TO GOOD
74,75,76	792.0-821.0	" "	" " " " " " "					28.0	GOOD
77	821.0-831.0	" "	" " " " " DISSEM. SULFIDES					10.0	"
78	831.0-840.0	" "	" " " " " NO SULFIDES					9.0	"
79	840.0-850.0	" "	" " " " " " "					10.0	"
80,81,82	850.0-880.0	" "	" " " " " DISSEM. SULFIDES					30.0	"
83,84,85	880.0-900.0	" "	" " " " " " "					20.0	"
								825.0 FEET	
		STARTED MARCH 8, 1957							
		FINISHED MARCH 30, 1957						91.8 % RECOVERY	

F. B. Baca

F. B. Baca

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 42[illegible].

Nº 12 DIAMOND DRILL HOLE, 1580N. 2220E, BEARING WEST, INCLINATION -70°; TOTAL DEPTH 173 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEV. 7541.10

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%WO₃	CORE RECOVERY & CONDITION
1	0.0 - 10.0	SILICIFIED LIMESTONE	LIGHT GREY PYRITIC					8.0 GOOD
2	10.0 - 20.0	"	" " "					10.0 "
3	20.0 - 31.0	SILIC. LIMESTONE - ORE TYPE	LT. TO ST'L GREY - BANDED SLIGHTLY PYR.					10.0 PLUGS
4	31.0 - 33.0	" " " "	" " " " " " "					2.0 "
4	33.0 - 40.0	" " " "	" " " " " PYRITE & CHALCO.					6.0 PLUGS
4	40.0 - 42.0	LIMESTONE - ORE TYPE	STEEL GREY " "					2.0 "
5	42.0 - 43.6	" " "	" " " "					1.6 "
5	43.6 - 52.0	" " "	" " PYRITIC					8.4
6	52.0 - 63.0	" " "	" " FAIR CHALCO.					10.0
7	63.0 - 68.0	" " "	" " PYRITIC					4.7
7	68.0 - 70.0	SILICIFIED L.S. & L.S.	YELLOWISH GREY NO SULFIDES					2.0
7	70.0 - 72.0	MARBLE & ORE TYPE L.S.	ST'L GREY TO BANDED PYRITIC					2.0
8	72.0 - 80.0	LIMESTONE - ORE TYPE	STEEL GREY "					4.0 "
8	80.0 - 83.0	ORE TYPE L.S & MARBLE	" " MOTTLED "					3.0 GOOD
8	83.0 - 90.0	" " " "	" " " " CHALCO & PYR.					7.0 "
10	90.0 - 103.0	" " " "	" " " " " " "					10.0 "
11	103.0 - 111.0	" " " "	ST'L GRAY TO MED. GRY. PYRITIC					7.0 "
11	111.0 - 112.0	ORE TYPE L.S.	" " BROWNISH CHALO.					1.0 "
12	112.0 - 115.0	" " "	" " " "					3.0 "
12	115.0 - 122.0	MARBLE TO SILIC. SHALE	DARK GREY TO BANDED SLIGHTLY PYR.					7.0 GOOD & PLUGS
13	122.0 - 133.0	" " " "	" " " " " " "					10.0 PLUGS
14	133.0 - 143.0	MARBLE & ORE TYPE L.S. SILIC. SH.	ST'L GREY - MOTTL. - BAND. PYR. SOME CHALCO.					10.0 GOOD
15	143.0 - 154.0	" " " " " "	" " " " " " "					10.0 "
16	154.0 - 164.0	ORE TYPE L.S. & GARNETITE	" " BROWNISH " " "					10.0 "
17	164.0 - 173.0*	" " " "	" " " SLIGHTLY PYR.					8.0 "
								160.7 FEET TOTAL
		HOLE STARTED FEB. 1, 1957						
		HOLE FINISHED FEB. 15, 1957						92.9% RECOVERY

F. B. Boggs

*ATTEMPTS TO RESTORE LOST CIRCULATION HAD FAILED.

RECEIVED MAY 15 1957 DWEY EXTRA COPY

[illegible] URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE; NEW MEXICO. DMEA DOCKET 4214.

Nº 10 DIAMOND DRILL HOLE, 1445 N 2280 E, BEARING S80E, INCLINATION +70°, TOTAL DEPTH 125 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEV. 7554.90

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	%WO₃	CORE RECOVERY & CONDITION	
1	0.0 - 7.0	TACTITE & LIMESTONE	STEEL GREY TO BR'SH DIFFUSE PYRITE					7.0	GOOD
2	7.0 - 9.0	SILIC. LIMESTONE & SHALE	LIGHT GREY BANDED NO SULFIDES					2.0	"
2	9.0 - 19.5	TACTITE & L.S. - ORE TYPE	STEEL " MOTTLED DIFFUSE PYRITE					9.0	PLUGS
2	19.5 - 20.5	" " " " "	" " " FAIR CHALCOPYRITE					1.0	"
3	20.5 - 30.0	" " " " "	" " " " "					9.5	GOOD - PLUGS 29-30
4	30.0 - 36.0	" " " " "	" " " " "					6.0	GOOD
4	36.0 - 43.0	TACTITE	" TO BR'SH GREY NO SULFIDES					4.0	PLUGS
5	43.0 - 56.5	TACTITE & L.S. - ORE TYPE	" " " " DIFFUSE PYRITE					10.0	"
6	56.5 - 67.0	" " " " "	" " " " NO SULFIDES					8.5	"
6	67.0 - 67.5	SILIC. LIMESTONE & SHALE	GREY BANDED " " "					0.5	GOOD
7	67.5 - 78.0	" " " "	" " PYRITIC - 73.5-75.5					10.0	"
8	78.0 - 80.0	TACTITE & CALCITE	" MOTT. TO BR'SH NO SULFIDES					2.0	"
8	80.0 - 85.0	SILIC. LIMESTONE & SHALE	MOTTLED - DARK GREY " "					5.0	"
8	85.0 - 91.0	RHYOLITE	YELLOWISH WHITE " "					5.0	BROKEN PLUGS
9	91.0 - 107.0	"	" " " "					10.0	6" PLUGS - 6' GOOD
10	107.0 - 117.0	"	" " " "					10.0	GOOD
11	117.0 - 125.0	"	" " " "					7.5	"
								100.0 FEET	
		HOLE STARTED FEB. 5, 1957							
		HOLE FINISHED FEB. 8, 1957						80.3% RECOVERY	

E. S. Boca

MERCURY URANIUM & OIL CO., 600 COAL AVE., ALBUQUERQUE, NEW MEXICO, DMEA DOCKET 4214

Nº 17 DIAMOND DRILL HOLE, 1520 N, 2300 E, BEARING S77°E, INCLINATION -70°, TOTAL DEPTH 60 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEV. 7540.50

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO_3	CORE RECOVERY & CONDITION
1	0.0 - 3.0	SILIC. LIMESTONE & SHALE	GREY TO BLACK BANDED NO SULFIDES					1.7 BROKEN & PLUGS
1	3.0 - 8.0	" " " "	" " " " " "					4.3 GOOD
1	8.0 - 11.0	LIMESTONE	" " GREENISH GREY SPARSE "					2.8 GOOD TO PLUGS
2	11.0 - 19.0	"	" " " " " "					6.0 PLUGS
2	19.0 - 23.0	SILIC. LIMESTONE & SHALE	BRN'SH GREY TO DARK BAND. " "					4.0
3	23.0 - 24.5	" " " GARNETITE	" TO DARK GREY NO "					1.2
3	24.5 - 29.0	" " " SHALE	DARK GREY - SOME BANDING " "					4.2
3	29.0 - 33.0	GARNETITE & CALCITE	" " TO BROWNISH GOOD PYR @ 32.5					3.0
3	33.0 - 35.0	SILIC. LIMESTONE & SHALE	" " BANDED NO SULFIDES					1.7
4	35.0 - 36.0	" " " "	" " " " "					1.0 BROKEN TO PLUGS
4	36.0 - 43.0	GARNETITE & CALCITE	STEEL " TO BROWNISH FAIR CHALCO.					7.0 GOOD
4	43.0 - 45.0	SILIC. LIMESTONE & SHALE	DARK " - BANDED SLIGHT. PYRITIC					2.0 "
5	45.0 - 48.0	" " - SOME GARNET.	" " " " "					3.0 "
5	48.0 - 49.0	LIMESTONE & GARNETITE	BROWNISH GREY FAIR CHALCO.					0.3 BROKEN PLUGS
5	49.0 - 51.5	" " "	STEEL " SPARSE SULFIDE					3.0 GOOD
5	51.5 - 53.0	" " SHALE	LIGHT " NO "					0.8 BROKEN
5	53.0 - 54.0	TACTITE	BROWNISH " " "					1.0 "
5	54.0 - 57.0	LIMESTONE & GARNETITE	" " " "					2.4 GOOD TO PLUGS
6	57.0 - 64.0	TACTITE " "	D'K GREY TO BROWNISH SLIGHT. PYRITIC					4.0 BROKEN PLUGS
6	64.0 - 69.0	GARNETITE & LIMESTONE	ST'L " BAND. " FAIR CHALCO.					5.0 GOOD
7	69.0 - 78.0	" " "	" " " " " "					9.0 "
7	78.0 - 81.0	SILIC. LIMESTONE & SHALE	D'K " " BLACK NO SULFIDES					1.0 BROKEN PLUGS
8	81.0 - 88.5	MARBLE	WHITE - DARK MOTTLED SULFIDE - 86-87					4.8 GOOD - 86 TO 87 BROKEN
8	88.5 - 89.5	GARNETITE & LIMESTONE	GREY TO DARK BROWN SLIGHT. PYRITIC					0.8 PLUGS
8	89.5 - 92.5	SILIC. LIMESTONE & SHALE	GRN'SH GREY - DARK BAND. NO SULFIDES					3.0 "
9	92.5 - 94.5	TACTITE & GARNETITE	MED. GREY TO BRN'SH SOME PYRITES					1.5 "
9	94.5 - 102.0	LIMESTONE & GARNETITE	ST'L " - DARK MOTTL. " "					7.5 GOOD
9	102.0 - 104.0	MARBLE & SILIC. SHALE	LT. " TO " " " "					1.0 PLUGS
10	104.0 - 114.0	" " "	" " " " " SLIGHT. PYRITIC					10.0 GOOD - SOME BROKEN
11	114.0 - 116.0	GARNETITE & LIMESTONE	GREY TO STEEL GREY " "					2.0 GOOD
11	116.0 - 133.0	MARBLE & SHALE	LT. GREY TO BLACK MOTTL. SULF. 126-131					8.0 GOOD TO BROKEN
12	133.0 - 150.0	" " "	" " " " " NO SULFIDES					10.0 BROKEN PLUGS
								116.3 FEET
		HOLE STARTED FEB 10, 1957						
		HOLE FINISHED FEB 13						77.2% RECOVERY

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MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO, DMEA DOCKET 4214

Nº 18 DIAMOND DRILL HOLE, 1680 N 2270 E, BEARING N84°W, INCLINATION +35°, TOTAL DEPTH 60 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEV. 7643.30

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%WO3	CORE RECOVERY & CONDITION
1	0.0 - 4.3	MARBLE & LIMESTONE	LIGHT TO STEEL GREY SLIGHT. PYR.					4.3 3' BROKEN - 1' GOOD
1	4.3 - 10.0	SILICIFIED LIMESTONE	" " BAND. " " "					5.7 GOOD
2	10.0 - 15.0	" "	" " STEEL " BAND. " "					5.0 "
2	15.0 - 20.0	SILIC. LIMESTONE & SHALE	BLACK BANDED NO SULFIDES					5.0 "
3	20.0 - 26.0	" " " "	" " " "					5.5 PLUGS
3	26.0 - 32.0	LIMESTONE & GARNETITE	STEEL GREY SLIGHTLY PYRITIC					4.5 "
4	32.0 - 36.0	GARNETITE & TACTITE - VUGS	LT. GREY TO BROWN NO SULFIDES					4.0 "
4	36.0 - 46.5	" " LIMESTONE	" " " " " "					5.7 FAIR TO GOOD
5	46.5 - 57.0	" " "	STEEL GREY " "					10.0 3' PLUGS - 7 GOOD
6	57.0 - 58.0	RHYOLITE	CREAM WHITE " "					1.0 BROKEN
6	58.0 - 60.0	GARNETITE	BROWNISH GREY " "					2.0 PLUGS
								60.0 FEET
		HOLE STARTED FEB. 14, 1957						
		HOLE FINISHED FEB. 15, 1957						87.8% RECOVERY

F. D. Baca

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ROBERT COSA

MERCURY URANIUM & OIL CO. 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO, DMEA DOCKET 4214.

Nº 19 DIAMOND DRILL HOLE, 1792 N 2190 E, BEARING WEST, INCLINATION +35; TOTAL DEPTH 60 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEV. 7644.60

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION		% CU	AU	AG	% WO_3	CORE RECOVERY & CONDITION
1	0.0 - 1.5	GARNETITE	BROWNISH GREY	PYRITIC					1.5
1	1.5 - 4.0	" "	YELLOW	CHALCOPYRITE					2.5
1	4.0 - 6.0	QUARTZITE TO RHYOLITE	LT. GREY TO CREAM WHITE	NO SULFIDES					2.0
1	6.0 - 11.0	RHYOLITE	CREAM WHITE	" "					5.0
2	11.0 - 21.0	"	" "	" "					10.0
3	21.0 - 31.0	"	" "	" "					10.0
4	31.0 - 50.0	"	" "	" "					10.0
5	50.0 - 60.0	"	" "	" "					1.5
									42.5 FEET
									70.8% RECOVERY

BROKEN

BROKEN TO GOOD

BROKEN

"

MERCURY URANIUM & OIL CO., 600 COAL AVE. S.W., ALBUQUERQUE, NEW MEXICO, DMEA DOCKET 4214

Nº 29 DIAMOND DRILL HOLE, 1220 N 3335 E, BEARING N80°E, INCLINATION +35°, TOTAL DEPTH 44 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO. COLLAR ELEV. 7405.90

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%Cu	AU	AG	%Pb	CORE RECOVERY & CONDITION
1	0.0 - 2.0	SILICIFIED LIMESTONE	WHITE NO SULFIDES					1.5 [redacted]
1	2.0 - 6.0	SILIC. LIMESTONE & SHALE	GREY TO BLACK BANDED " "					4.0 [redacted]
1	6.0 - 11.0	GARNETITE & CALCITE	STL GREY TO BRNSH MUCH CHALCO.					4.8 PLUGS TO GOOD
2	11.0 - 19.5	MARBLE & GARNETITE	GREY-BRNSH " SLIGHTLY PYRITIC					8.5 " " "
2	19.5 - 21.0	GARNETITE	BROWNISH GREY " "					1.5 PLUGS
3	21.0 - 25.0	"	" " " "					4.0 "
3	25.0 - 31.5	SILIC. LIMESTONE & SHALE	BRNSH GREY-BRNSH " "					5.0 PLUGS BROKEN
4	31.5 - 36.5	" " & MARBLE	[illegible]					4.5 BROKEN TO GOOD
4	36.5 - 43.0	LIMESTONE	[illegible] " "					4.5 PLUGS
4	43.0 - 44.0	SILIC. LIMESTONE & SHALE	GREY-BRNSH " "					1.0 "
								40.5 FEET
		HOLE STARTED FEB. 1, 1957						
		HOLE FINISHED FEB. 4, 1957						80.6% RECOVERY

J. Moss

MERCURY [illegible] & OIL CO., [illegible] ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 35 DIAMOND DRILL HOLE, 1098 N 3223 E, BEARING S80° W, INCLINATION -70°, TOTAL DEPTH 125 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

COLLAR ELEV. 7485.30

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO_3	CORE RECOVERY & CONDITION
1	0.0 - 3.0	LIMESTONE & TACTITE	STEEL GREY TO BRN'SH SOME CHALCO.					3.0 PLUGS
1	3.0 - 10.0	SILICIFIED LIMESTONE	LT. GREY TO GRN'SH GREY NO SUFIDES					7.0 GOOD
2	10.5 - 10.5	" "	" " " " " " "					0.5 "
2	10.5 - 13.5	LIMESTONE-TACTITE-GARNETITE	ST'L GREY-LT. BRN'SH SOME CHALCO.					3.0 PLUGS
2	13.5 - 18.0	LIMESTONE & GARNETITE	" " TO MET'L. YELLOW GOOD CHALCO.					4.5 "
2	18.0 - 20.0	SILIC. LIMESTONE & SHALE	LT. GRN'SH GREY TO DK. BAND. NO SULFIDES					2.0 GOOD
3	20.0 - 30.0	" " " "	" " " " " " " "					10.0 "
4	30.0 - 40.0	" " " "	" " " " " " " "					10.0 "
5	40.0 - 50.0	" " " "	" " " " " " " "					10.0 "
6	50.0 - 60.0	" " " "	" " " " " " " "					10.0 "
7	60.0 - 62.0	" " " "	" " " " " "					10.0 "
7	62.0 - 65.5	" " " "	" " " " " "					2.0 "
7	65.5 - 70.0	LIMESTONE	LT. GREY TO BLACK BANDED " "					3.5 PLUGS
8	70.0 - 76.0	SILIC. LIMESTONE & SHALE	" " " STEEL GREY " "					4.5 GOOD
8	76.0 - 79.0	" "	LT. TO GRN'SH GREY-BANDED " "					6.0 "
8	79.0 - 80.0	" " & SHALE	" " STEEL " GOOD CHALCO AT TT					3.0 "
9	80.0 - 88.0	LIMESTONE-TACTITE-GARNETITE	GREY-MOTTLED-GRN'SH NO SULFIDES					1.0 "
9	88.0 - 92.0	MARBLE SILICIFIED	STEEL GREY TO BRN'SH ALL PYRITIC-SPOT. CHALCO.					8.0 "
10	92.0 - 102.0	" "	LT. GREY TO DARK BANDED NO SULFIDES					2.0 PLUGS
11	102.0 - 108.0	" "	" " " " " " " "					10.0 "
11	108.0 - 112.0	" "	" " " " " " " "					6.0 GOOD
12	112.0 - 125.0	" "	" " " " " " " "					4.0 "
			" " " " " " " "					10.0 "
		HOLE STARTED FEB. 26, 1957						125.0 FEET
		HOLE FINISHED FEB. 28, 1957						98.0 % RECOVERY

F. B. Baca

MERCURY URANIUM & OIL CO., 600 COAL AVE, S.W, ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 31 DIAMOND DRILL HOLE, 1277 N 3320 E, S78°W, INCLINATION -60°, TOTAL DEPTH 250 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGE	LITHOLOGY		COLOR					RECOVERY & LOSS
	0.0 - 8.0	LIMEST	CORE TYPE						
	8.0 - 10.0								
	10.0 - 15.0	SILIC							
	15.0 - 17.0								
	17.0 - [illegible]								
	[illegible] - 33.0								
	33.0 - 35.0								
	[illegible] - [illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible] - 105.0								
	105.0 - 135.0								
	135.0 - 154.0								
	[illegible] - 165.0								
	[illegible] - 167.0								
	167.0 - 175.0								
	175.0 - 177.0								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								
	[illegible]								[illegible]
	[illegible]								[illegible] FEET
		HOLE STARTED [illegible] 1957							
		HOLE FINISHED [illegible] 17, 1957							95.3 % RECOVERY

F. B. Boca

F. B. Boca

URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

ND DRILL HOLE, 1277 N 5320 E, BEARING N 75° E, INCLINATION -60°, TOTAL DEPTH 250 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

HOLE STARTED

HOLE FINISHED

F. B. Baca

91.1% RECOVERY

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

Nº 28 DIAMOND DRILL HOLE, 1205 N. 3305 E, BEARING S80°W, INCLINATION -57°, TOTAL DEPTH 200 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO	CORE RECOVERY & CONDITION	
1	0.0 - 8.0	GARNETITE-CALCITE	BROWNISH GREY PYRITIC-[illegible]					7.0	PLUGS
1	8.0 - [illegible]	SILIC. L.S. & [illegible]	" " " " "					8.0	"
2	[illegible] - 15.0	" " " "	" " " " "					8.0	"
2	[illegible] - 23.0	" " " SHALE	GREY TO BLACK-BANDED [illegible]					7.0	GOOD
3	[illegible] - 28.0	SHALE TO SILIC. LIMESTONE	BLACK BANDED TO GREY " "					5.0	"
3	[illegible] - 33.0	MARBLE	LIGHT GREY [illegible] " "					[illegible]	"
4	[illegible] - 35.0	"	" " " " " "					3.0	"
4	[illegible] - 43.0	SILIC. LIMESTONE & SHALE	GREY W [illegible] " "					7.0	"
5	[illegible] - 52.0	" " " "	" " " " "					10.0	"
6	[illegible] - 62.0	" " " "	" " " " [illegible]					10.0	"
7	[illegible] - [illegible]	" "	LIGHT GREY					10.0	"
[illegible]	[illegible] - [illegible]	[illegible]	" " [illegible]					10.0	"
[illegible]	[illegible] - [illegible]	SHALE	BLACK [illegible]					4.0	PLUGS
9	[illegible] - [illegible]	SILIC. LIMESTONE & SHALE	GREY-[illegible]					[illegible]	"
10	[illegible] - 108.0	TACTITE & L.S. - ORE TYPE	STL GREY [illegible]					10.0	"
11	[illegible] - 111.0	" " " " "	" " " " [illegible]					3.0	"
11	[illegible] - 115.0	SILICIFIED LIMESTONE	LT. GREY [illegible]					4.0	"
11	[illegible] - 118.0	SUGARY "	" " [illegible]					3.0	"
12	[illegible] - 126.0	SILIC. LIMESTONE & SHALE	" " [illegible]					10.0	"
13	[illegible] - 132.0	" " " "	" " " "					4.0	"
13	[illegible] - 137.0	MARBLE	LT. " [illegible]					5.0	"
14	[illegible] - 147.0	MARBLE & SILIC. L.S.	" " " " [illegible]					10.0	GOOD
15	[illegible] - 150.5	" " " "	" " " " " "					3.5	"
15	[illegible] - 151.5	LIMESTONE - ORE TYPE	STEEL GREY SUGHTLY PYRITIC					1.0	"
15	[illegible] - [illegible]	SHALE & SILIC. L.S.	BLACK TO [illegible] [illegible]					4.5	BROKEN & PLUGS
16	[illegible] - 165.5	" " " "	" " " " "					9.7	" " "
17	[illegible] - 177.0	" " " "	" " " PYRITIC					10.0	PARTLY BROKEN
18	[illegible] - 180.0	TACTITE & L.S. - ORE TYPE	STEEL GREY "					3.5	PLUGS
19	[illegible] - 182.0	" " " " "	" " "					2.0	"
19	[illegible] - 200.0	SILIC. LIMESTONE & SHALE	GREY TO BLACK BAND. NO SULPHIDES					7.0	PARTLY BROKEN
								185.2 FEET	
		HOLE STARTED JAN. 16, 1957							
		HOLE FINISHED JAN. 22, 1957						92.6 % RECOVERY	
			F. B. Bo[illegible]						

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 42 4

№ 27 DIAMOND DRILL HOLE, 1195 N 3260 E, BEARING N30°E, INCLINATION +65°, TOTAL DEPTH 60 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION		%CU	AU	AG	%WO3	CORE RECOVERY & CONDITION	
1	0.0 - 10.0	TACTITE & CALCITE	BROWNISH GREY	NO SULFIDES					10.0	GOOD
2	10.0 - 16.0	GARNETITE & L.S. - ORE TYPE	BRNSH TO ST'L GREY	DIFFUSE PYRITE					6.0	"
2	16.0 - 18.5	SILIC. LIMESTONE & SHALE	LT. GREY - DARK BAND.	" "					2.5	"
2	18.5 - 20.0	" ORE TYPE	STEEL GREY	" "					1.5	"
3	20.0 - 24.5	" " "	" "	" "					4.5	"
3	24.5 - 29.0	SILIC. " & SHALE	LT. GREY - DARK BAND.	" "					4.5	"
4	29.0 - 32.5	" " ORE TYPE	" TO ST'L GREY	" "					3.5	"
4	32.5 - 33.0	" " " "	" " "	PYRITE - GOOD CHALCO					0.5	"
4	33.0 - 39.0	" " & SHALE	GREY - MOTTL. & BAND.	DIFFUSE PYRITE					5.6	"
5	39.0 - 40.7	TACTITE & " ORE TYPE	BRNSH TO ST'L GREY	" "					1.7	"
5	40.7 - 48.0	SILIC. " & SHALE	GREY - MOTTL - BAND - GRNSH	" "					7.0	"
5	48.0 - 50.0	" " " "	" " "	"					2.0	"
6	50.0 - 60.0	RHYOLITE	YELLOWISH WHITE	" "					5.5	BROKEN & PLUGS
									54.8 FEET	
		HOLE STARTED JAN. 14, 1957								
		HOLE FINISHED JAN. 16, 1957							31.3% RECOVERY	

D'WEY
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ALBUQUERQUE OFFICE

F. B. Baca

MERCURY URANIUM & OIL CO., 600 COAL AVE, S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4614.

Nº 26 DIAMOND DRILL HOLE, 1051 N 3045E, BEARING N80°E, INCLINATION +75°, TOTAL DEPTH 100 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FROM-TO	LITHOLOGY	COLOR & MINERALIZATION		% OX	% AU	% AG	% MN	CORE RECOVERY & CONDITION
1	0.0-	LIMESTONE-ORE TYPE	[illegible] GREY	CHALCOPYRITE					1.5 BROKEN TO GOOD
1	1.5-	" & GARNETITE	[illegible] DK. GREY	DIFFUSE PYRITE					4.0 GOOD
1	[illegible]	" ORE TYPE	[illegible] GREY	PYRITE-GOOD CHALCO					0.5 "
1	[illegible]	TACTITE	[illegible] BROWNISH GREY	NO SULFIDES					4.0 "
2	[illegible]		[illegible] GREY	"					2.5 "
2	[illegible]	[illegible] LIMESTONE & SHALE	[illegible]	"					5.0 "
2	[illegible]	LIMESTONE & GARNETITE	[illegible] DK. GREY	"					2.5 "
3	[illegible]	" "	[illegible]	"					1.0 "
3	[illegible]	[illegible] LIMESTONE & SHALE	[illegible]	"					[illegible] "
3	[illegible]	[illegible]TITE & [illegible]	[illegible]	"					[illegible] "
4	[illegible]	" "	[illegible]	"					[illegible]
4	[illegible]	[illegible]	[illegible]	"					[illegible]
4	[illegible]	[illegible] LIMESTONE	[illegible]	"					[illegible]
5	[illegible]	" " " "	" "	"					[illegible]
5	[illegible]	RHYOLITE	YELLOWISH WHITE	"					1.0
6	[illegible]	"	"	DIFFUSE PYRITE					[illegible] [illegible]
7	[illegible]	"	"	"					[illegible]
8	[illegible]	"	"	"					[illegible]
9	[illegible]	"	"	"					[illegible] [illegible]
10	[illegible]-100.0	"	"	"					[illegible] [illegible]
									90.1 FEET
		HOLE STARTED JAN. 14, 1957							
		HOLE FINISHED JAN. 16, 1957							90.1% RECOVERY

MERCURY URANIUM & OIL CO, 500 COAL AVE, S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

No 25 DIAMOND DRILL HOLE, 1135 N 2055 E, [illegible], INCLINATION [illegible] TOTAL DEPTH 70 FEET.

SAN [illegible] MINE, SANTA [illegible] NEW MEXICO.

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.
Nº 24 DIAMOND DRILL HOLE, 1130 N 2795 E, BEARING N80°E, INCLINATION +80°; TOTAL DEPTH 60 FEET.
SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	SOL	AU	AG	CORE RECOVERY & CONDITION	
1	0.0 - 6.7	GARNETITE SOME CALCITE	[illegible] CORE CHARCO.				6.7	GOOD
1	6.7 - 10.0	" MORE "	" " DIFFUSE PYRITE				3.3	"
2	10.0 - 13.5	" " "	" " PYRITIC-FAIR CHARCO.				3.5	"
3	13.5 - 23.5	" " "	" " " " "				9.5	"
3	23.5 - 28.5	MARBLE	[illegible]				4.0	"
4	28.5 - 33.0	"	" " " NO SULFIDES				5.0	"
5	[illegible] - [illegible]	MARBLE TO BANDED SHALE	" " " " "				9.5	"
5	[illegible]	CALCITE & GARNETITE	[illegible]				2.0	"
5	[illegible]	LIMESTONE [illegible]	[illegible]				2.0	"
6	[illegible]	"	[illegible]				3.0	"
6	[illegible]	"	"				3.3	"
6	[illegible]	"	"				[illegible]	
							[illegible] FEET	
		HOLE STARTED JAN. 9, 1957						
		HOLE FINISHED JAN. 10, 1957					96.5 % RECOVERY	

DMEA

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. UMEA DISTRICT

Nº 23 DIAMOND DRILL HOLE, 1065 N 2720 E, BEARING N 80° E, INCLINATION +80°, TOTAL DEPTH 55 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

1	0.0 - 10.0	TACTITE & LIMESTONE	STEEL GREY	GOOD CHARGE.				10.0	GOOD
2	10.0 - 14.0	" "	" "	" "				4.0	"
2	14.0 - 19.0	" "	" "	PYRITIC-SOME "				5.0	"
3	19.0 - 28.0	" "	" "	SLIGHTLY PYRITIC				8.0	"
3	28.0 - 29.0	SILIC. LIMESTONE & SHALE	LT. GREY - DARK BAND.	NO SULFIDES				0.7	"
4	29.0 - 30.0	" " "	" " " "	" "				1.0	"
4	30.0 - 39.0	MARBLE	" " - MOTTL. GEN'SH	DIFFUSE PYRITE				9.0	"
[illegible]	39.0 - 49.0	"	" " " "	NO SULFIDES				10.0	"
[illegible]	49.0 - 53.0	MARBLE TO SILIC. LIME & SHALE	" " " "	" "				4.0	"
[illegible]	53.0 - 55.0	SILIC. LIMESTONE & SHALE	" " TO DARK BAND	" "				2.0	BROKEN
								53.7 FEET	
		HOLE STARTED JAN. 8, 1957							
		HOLE FINISHED JAN. 9, 1957						97.6% FEET	

F. B. Baca

MERCURY URANIUM & OIL CO., [illegible] COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 42[illegible]

Nº [illegible] DIAMOND DRILL HOLE, [illegible], BEARING N80°E, INCLINATION +80°; TOTAL DEPTH 55 FEET

SAN [illegible] COUNTY, NEW MEXICO

| [illegible] | [illegible] | [illegible] |

MERCURY URANIUM & OIL CO. 600 COAL AVE., S.W. ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

NO. 24 DIAMOND DRILL HOLE [illegible] BEARING N80°E, INCLINATION +60° TOTAL DEPTH 50 FEET.

SAN PE[illegible] HOLE, SANTA FE COUNTY, NEW MEXICO.

| LITH[illegible] | [illegible] | [illegible] | [

MERCURY URANIUM & OIL CO., 600 COAL AVE. S.W. ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 20 DIAMOND DRILL HOLE, 1007 N. 2450 E., BEARING WEST, INCLINATION -70°, TOTAL DEPTH 150 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

DEPTH	PROPERTIES	LITHOLOGY	COLOR & MINERALIZATION	[illegible]	[illegible]	[illegible]	[illegible]	CORE RECOVERY & CONDITION
[illegible]	[illegible] - 4.0	[illegible]ACTITE-G[illegible]RITE-CALCITE	GREY-[illegible]					3.1 [illegible]
[illegible]	4.0 - [illegible]	" " "	" " [illegible]					4.5 BROKEN
[illegible]	[illegible].0 - 18.5	" " "	" " PYRITE-CHALCO.					8.5 GOOD
[illegible]	[illegible]5 - 19.0	" " "	" " NO SULFIDES					0.5 "
[illegible]	[illegible]0 - 21.0	PARTLY SILIC. LIMESTONE	GREY-GREENISH " "					2.0 "
[illegible]	[illegible]0 - 30.0	SILIC. LIMESTONE & SHALE	" " TO DARK BAND. " "					8.0 BROKEN & PLUGS
[illegible]	[illegible]0 - 42.0	" " " MUDSTONE	" - GREENISH " "					10.0 GOOD TO BROKEN 32-[illegible]
[illegible]	[illegible]0 - 45.0	" " " "	" " " "					2.0 BROKEN
[illegible]	[illegible]0 - 53.0	" " " "	" " " "					8.4 GOOD
[illegible]	[illegible]0 - 64.0	" " " "	" " " "					2.6 "
[illegible]	[illegible]0 - 70.5	" " SHALE	" BANDED " "					6.5 "
[illegible]	[illegible] - 74.0	" " ORE TYPE	[illegible] BANDED PYRITE					3.5 "
[illegible]	[illegible] - 81.0	" " " "	" " " NO SULFIDES					3.5 "
[illegible]	[illegible] - 85.0	" "	[illegible] GREY " "					3.7 "
[illegible]	[illegible] - 94.3	" "	" " " "					5.3 87-93 BROKEN-REST GOOD
[illegible]	[illegible]	" " ORE TYPE	[illegible] TO DK GREY " "					1.7 GOOD
[illegible]	[illegible]0.0	" " & SHALE	GREY-DARK BANDED " "					2.0 BROKEN
[illegible]	[illegible] - 100.0	[illegible]ATISI[illegible]ON TO RHYOLITE	" - BANDED TO LT GREY " "					1.0 GOOD
[illegible]	[illegible] - 102.5	[illegible]OLITE	VERY WHITE-MOTTLED PYRITIC					2.5 "
[illegible]	[illegible] - 110.0	[illegible]RALE	LIGHT GREY NO SULFIDES					1.4 "
[illegible]	[illegible]	"	" " " "					8.0 "
[illegible]	[illegible]	"	" " PYRITE-CHALCO.					2.0 "
[illegible]	[illegible]	SILIC[illegible]ESTONE	" " GREENISH NO SULFIDES					2.0 "
[illegible]	[illegible] - 123.0	" "	" " PYRITE-FAIR CHALCO.					1.0 "
[illegible]	[illegible] - 125.0	SILIC. LIME[illegible]NE & SHALE	" " NO SULFIDES					2.0 "
[illegible]	[illegible] - 127.5	" " ORE TYPE	" " SOME CHALCO.					2.5 "
[illegible]	[illegible] - 133.0	SILIC. " & SHALE	GREY BANDED NO SULFIDES					1.8 BROKEN
[illegible]	[illegible] - 136.5	" " "	[illegible] " "					3.5 GOOD
[illegible]	[illegible] - 139.0	[illegible]-ORE TYPE	[illegible] SOME CHALCO.					2.5 "
[illegible]	[illegible] - 147.0	SILIC. " & SHALE	[illegible] NO SULFIDES					8.0 "
[illegible]	[illegible] - 150.0	" " " "	" " " "					3.5 [illegible] BROKEN
								129.4 FEET
		HOLE STARTED JAN. 2, 1957						
		HOLE FINISHED JAN. 5, 1957						86.2% RECOVERY

F. S. Boco

RECEIVED
APR 8 1957
D.M.E.A.

MERCURY URANIUM & OIL CO., 600 COAL AVE., S. [redacted] ERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 13 DIAMOND DRILL HOLE 1350 N. 2840 E, [illegible] TOTAL DEPTH 600 FEET.

SHEET 1 OF 4 - SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	[illegible]	[illegible]	[illegible]	[illegible]	CORE RECOVERY & CONDITION
1	0.0 - 13.0	SILIC. LIMESTONE & SHALE	LT. GREY TO [illegible] SLIGHTLY PYRITIC					10.0 PLUGS
2	13.0 - 20.0	" " "	" " " "					2.4 BROKEN & PLUGS
3	20.0 - 27.0	LIMESTONE - ORE TYPE	GREY TO STL. GREY " "					7.0 " "
4	[illegible] - 36.0	" " "	" " " " "					10.0 GOOD TO PLUGS
5	[illegible] - 47.0	" " "	" " " " "					8.0 GOOD
6	[illegible] - 57.0	" " "	" " " " "					10.0 "
7	[illegible] - 67.0	SILIC. SHALE & LIMESTONE	BLACK TO MOTTLED GREY PYR.-CHALCO 65-67					10.0 "
8	[illegible] - 73.0	" " "	" " " SLIGHTLY PYRITIC					6.5 "
9	[illegible] - 78.0	" " "	LIGHT GREY NO SULFIDES					1.0 "
10	[illegible] - 77.0	" " & ORE TYPE L.S.	BLACK & MOTTL. GREY GOOD CHALCO 76-78					3.0 "
11	[illegible] - 78.0	SILICIFIED SHALE	" BANDED NO SULFIDES					1.0 "
12	[illegible] - 84.5	ORE TYPE L.S. & SOME SHALE	STL. GREY-SOME BAND. [illegible] PYRITE					6.5 "
13	[illegible] - 87.0	SHALE	BLACK " " NO SULFIDES					2.5 BROKEN & PLUGS
14	[illegible] - 88.0	LIMESTONE - ORE TYPE	GREY TO STEEL GREY MINUTE PYRITE					1.0 PLUGS
15	[illegible] - 90.0	SILIC. LIMESTONE & FAERIETTE	" " MOT. " NO SULFIDES					1.0 GOOD
16	[illegible] - 95.8	LIMESTONE - ORE TYPE	STEEL GREY SLIGHTLY PYRITIC					4.0 BROKEN & PLUGS
17	[illegible] - 100.0	" " "	" " " FAIR CHALCO.					4.2 GOOD
18	[illegible] - 102.2	" " "	" " "					2.2 "
19	[illegible] - 111.0	SILIC. [illegible] & SHALE	[illegible] NO SULFIDES					7.8 "
20	[illegible] - 120.0	" " "	" " " " "					10.0 "
21	[illegible] - 121.0	" " "	" " " " "					1.0 "
22	[illegible] - 122.0	" " ORE TYPE L.S.	" " " " GOOD CHALCO.					1.0 "
23	[illegible] - 128.0	" " & MARBLE	" " " MOT. GRE. NO SULFIDES					6.0 "
24	[illegible] - 129.0	SHALE & LIMESTONE	BLACK TO STL. GREY " "					1.0 "
25	[illegible] - 130.0	MONZONITE PORPHYRY	GREY SPECKLED MINUTE PYRITES					1.0 "
26	[illegible] - 140.0	" "	" " " "					9.8 "
[illegible]	[illegible]	"	"					8.0 "
[illegible]	[illegible]	"	"					[illegible]
[illegible]	[illegible]	"	"					[illegible]
[illegible]	[illegible]	"	"					[illegible]
[illegible]	[illegible]	"	"					[illegible]
[illegible]	[illegible]	"	"					[illegible]
18	[illegible] - [illegible]	"	"					[illegible]
20	[illegible] - 196.0	"	"					[illegible]
21	[illegible] - 206.0	"	"					[illegible]
22	[illegible] - 216.0	"	"					[illegible]
23	[illegible] - 226.0	"	"					[illegible]

213.7

MERCURY URANIUM & OIL [illegible] ALBUQU[illegible] [illegible] UMEA DOCKET 4214

[illegible] DIAMOND DRILL [illegible] [illegible]

[illegible] MINE, [illegible]

Footage		Lithology								Core recovery & condition	
[illegible]		[illegible]								10.0	GOOD
[illegible]		"	"							10.0	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			10.0	"
[illegible]		"	"			"	"			10.0	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			10.0	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			10.0	"
[illegible]		"	"			"	"			10.0	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		"	"			"	"			10.0	"
[illegible]		"	"			"				10.0	"
[illegible]		"	"			"				10.0	"
[illegible]		"	"			"				8.5	"
[illegible]		[illegible] SHALE	[illegible]			[illegible]				1.5	"
[illegible]		"	"			"	"			[illegible]	"
[illegible]		[illegible]ENY	[illegible]			[illegible]				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]		"	"			"				[illegible]	"
[illegible]1.0-530[illegible]		"	"			"				10.0	"

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 13 DIAMOND DRILL HOLE [illegible] N. [illegible] E. BEARING WEST, INCLINATION -70°, TOTAL DEPTH 300 FEET.

SHEET 3 OF 4. SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGE	LITHOLOGY	COLOR & MINERALIZATION	U3O8	AU	AG	[illegible]	CORE RECOVERY & CONDITION
37	[illegible]0 - 361.0	MONZONITE PORPHYRY	GREY SPECKLED PYRITIC					10.0 GOOD
38	[illegible] - 371.0	" "	" "					10.0 "
[illegible]	[illegible]1.0 - 381.0	" "	" "					10.0 "
[illegible]	[illegible]1.0 - 391.0	" "	" "					10.0 "
[illegible]	[illegible]1.0 - 397.0	" "	" "					6.0 "
[illegible]	[illegible]0 - 605.0	" "	" "					8.0 "
[illegible]	[illegible]0 - 608.0	SILIC. LIMESTONE & SHALE	BAND. GREY & BLACK NO SULFIDES					2.0 BROKEN
[illegible]	[illegible]0 - 621.0	" "	" " " "					3.0 BROKEN & PLUGS
[illegible]	[illegible]0 - 622.0	MONZONITE PORPHYRY	GREY SPECKLED " "					1.0 GOOD
[illegible]	[illegible]0 - 626.0	" "	" " " "					4.0 "
[illegible]	[illegible]0 - 628.0	SILICIFIED SHALE	BLACK BANDED " "					3.0 PLUGS
[illegible]	[illegible] - 631.0	MARBLE	LT. GREY-MOTTL. GREEN " "					2.0 GOOD
[illegible]	[illegible] - 642.0	"	" " " " PYRITIC					8.0 PLUGS
[illegible]	[illegible] - 651.0	SILIC. LIMESTONE & SHALE	GREY TO DARK BANDED NO SULFIDES					8.0 GOOD
[illegible]	[illegible] - 656.0	" " "	" " " " " "					2.8 PLUGS
[illegible]	[illegible] - 664.0	QUARTZITE	LIGHT GREY " "					7.2 "
[illegible]	[illegible] - 675.0	"	" " " "					10.0 GOOD
[illegible]	[illegible] - 680.0	"	" " " "					5.0 "
[illegible]	[illegible] - 684.0	SILIC. MARBLE	[illegible] MOTTL. GREEN " "					4.0 "
[illegible]	[illegible] - 686.0	RHYOLITE (?)	CREAM WHITE PYRITIC					1.0 "
[illegible]	[illegible] - 695.0	"	" " "					10.0 "
[illegible]	[illegible] - 718.0	"	" " "					8.0 BROKEN & PLUGS
[illegible]	[illegible] - 719.0	SILIC. LIMESTONE & SHALE	GREY TO DARK BANDED NO SULFIDES					1.0 GOOD
[illegible]	[illegible] - 729.0	" "	" " " " " "					10.0 "
[illegible]	[illegible] - 739.0	" "	" " " " " "					10.0 BROKEN & PLUGS
[illegible]	[illegible] - 741.5	" "	" " " " " "					2.5 "
[illegible]	[illegible] - 746.0	MARBLE	LT. CREAM-MOTTL. GREEN " "					4.5 "
[illegible]	[illegible] - [illegible]	[illegible]	[illegible]					10.0
[illegible]	[illegible] - [illegible]	DARK TYPE [illegible] SHALE	SILICEOUS-BLACK BANDED [illegible]					[illegible]
11	[illegible] - 775.0	" "						[illegible]
[illegible]	[illegible] - 780.0	MONZ[illegible]	[illegible]					[illegible]
[illegible]	[illegible] - 781.0	SILIC. LIME[illegible]	[illegible]					[illegible]
[illegible]	[illegible] - 786.0	" "	" [illegible]					[illegible]
18	[illegible] - 791.0	MONZONI[illegible]	[illegible]					[illegible]
19	[illegible] - 800.0	"	" " " "					[illegible]

MERCURY URANIUM & OIL CO, 505 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. AMEA DOCKET 4214

DRILL HOLE, 350 N. 22 [illegible], BEARING WEST, INCLINATION [illegible] TOTAL DEPTH 300 FEET

SAN [illegible] MINE, SANTA FE COUNTY, NEW MEXICO

[illegible]	LIT[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	SILIC. LIME[illegible]	[illegible]	[illegible]					8.0
[illegible]	" L.S.	[illegible]	[illegible]					7.0
[illegible]	" "	[illegible]	[illegible]					3.0
[illegible]	HARD	[illegible]	[illegible]					[illegible]
[illegible]	SILIC. LIME[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	"	[illegible]	[illegible]					[illegible]
[illegible]	HARD	[illegible]	[illegible]					[illegible]
[illegible]	"	[illegible]	[illegible]					[illegible]
[illegible]	"	[illegible]	[illegible]					[illegible]
[illegible]	SILIC. LIME[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	HARD	[illegible]	[illegible]					[illegible]
[illegible]	"	[illegible]	[illegible]					[illegible]
[illegible]	"	[illegible]	[illegible]					[illegible]
[illegible]	HOLE STARTED [illegible]							
[illegible]	HOLE FINISHED [illegible]							

MERCURY URANIUM & OIL CO. 600 COAL AVE., S.W. ALBUQUERQUE, NEW MEXICO. DMEA DOCK. 4214

Nº 11 DIAMOND DRILL HOLE, 10 TON 2755E, BEARING 0°, INCLINATION - 90°, TOTAL DEPTH 200 FT.

SHEET 1 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FROM - TO	LITHOLOGY	COLOR & MINERALOGY					RECOVERY & CONDITION
	1.25	TACTITE & LIMESTONE	LIGHT GREY				1.25 FT.	GOOD
	4.75	SILIC. LIMESTONE & SHALE	" "				3.50	GOOD TO BROKEN
	8.50	LIMESTONE - ORE TYPE	STEEL "				3.10	BROKEN PLUGS
	11.50	" " "	GREY SOME	PYRITIC			3.00	GOOD
	14.50	"	" BANDED				3.00	"
	17.50	"	" FAIR CHALCO - PYRITIC				3.00	"
	20.00	SILIC. LIMESTONE	GREY TO DK.G. SHALE BANDS				2.00	BROKEN PLUGS
	22.00	"	REDDISH GREY ORE TYPE - PYRITIC				2.00	GOOD
	24.0	SILIC. LIME - MUDSTONE	LIGHT GREY SLIGHTLY PYRITIC				2.00	FAIR TO PLUGS
	27.0	" " "	GREY				3.00	GOOD
	30.0	" " "	GREY-DARK [illegible]				3.00	BROKEN
	33.5	" " "	GREY				3.50	BROKEN - [illegible]
	36.3	LIMESTONE	" SLIGHTLY PYRITIC				2.80	GOOD
	39.0	SILIC. LIME - MUDSTONE	"				2.70	"
	42.0	" " SHALE	DARK GREY-BANDED PYRITIC				3.00	"
	45.0	" LIMESTONE	GREY ORE TYPE				3.00	"
	48.0	ALT'D LIMESTONE - ORE TYPE	" NO SULFIDES				3.00	"
	51.5	TACTITE - VUGGY	GREY-BROWN SPOTS GARNETS				3.00	BROKEN PLUGS
	54.0	ALT'D LIMESTONE - ORE TYPE	" - " BANDS CHALCO. OXIDE-PYR.				2.00	GOOD
	56.0	" " "	STEEL GREY SOME CHALCO & PYRITE				10.00	GOOD TO PLUGS
	60.0	" & SHALE	GREY SCATTERED PYRITE				2.00	" "
	63.0	SILIC. MARBLE	GREY MOTTLED NO SULFIDES				3.00	BROKEN - LAST 1' GOOD
	66.0	" LIMESTONE	" " " "				2.00	GOOD
	69.3	ALT'D - ORE TYPE	" " SOME CHALCO & PYRITE				5.70	GOOD TO PLUGS
	72.3	SILIC. LIMESTONE & SHALE	" BANDED NO SULFIDES				2.30	GOOD
	73.3	" " "	" " " "				1.00	"
	76.5	ALT'D - ORE TYPE	" SPOTTED FAIR PYRITE & CHALCO.				3.20	"
	82.5	SILIC. & SHALE	" BANDED NO SULFIDES				6.00	"
	84.5	" "	" TO BLACK [illegible]				2.00	BROKEN
	94.0	" "	[illegible]				10.00	[illegible] GOOD
	98.7	" "	[illegible]				4.70	GOOD
	150.0	" LESS "	[illegible]				[illegible]	[illegible]
	154.0	" LIMESTONE & MUDSTONE	[illegible]				4.00	[illegible]
	164.0	MONZONITE PORPHYRY	[illegible]				10.00	GOOD
	179.0	" "	" " " " "				5.00	"

MERCURY URANIUM & OIL CO., 500 COAL AVE., S.W. ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 11 DIAMOND DRILL HOLE, 1070 N 2755 E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 800 FEET

SHEET 3 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	SOLOR	SHINE	FRACTURE	CALCITE	[illegible]	[illegible]	[illegible]	RECOVERY %	CONDITION
[illegible]	[illegible]	MONZONITE PORPHYRY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] - 185.0	"	"	"	"	"	"	"	"	[illegible]	"
[illegible]	[illegible].0 - 189.0	"	"	"	"	"	"	"	"	4.0	GOOD
[illegible]	[illegible].0 - 198.0	"	"	"	"	"	"	"	"	[illegible]	"
[illegible]	[illegible].0 - 208.5	"	"	"	"	"	"	"	"	[illegible]	"
[illegible]	[illegible].5 - 215.3	"	"	"	"	"	"	"	"	[illegible]	"
[illegible]	[illegible] - 218.0	"	"	"	"	"	"	"	"	2.7	CRUMBLING
[illegible]	[illegible].0 - 223.0	"	"	"	"	"	"	"	"	5.0	"
[illegible]	[illegible].0 - 224.5	"	"	"	"	"	"	"	"	1.5	GOOD
[illegible]	[illegible].5 - 225.0	"	"	"	"	"	"	"	"	[illegible]	CRUMBLING
[illegible]	[illegible].0 - 224.0	"	"	"	"	"	"	"	"	[illegible]	"
[illegible]	[illegible].0 - 235.0	"	"	"	"	"	"	"	"	[illegible]	[illegible]
[illegible]	[illegible].0 - 238.0	"	"	"	"	"	"	"	"	[illegible]	GOOD
[illegible]	[illegible].0 - 249.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 260.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 270.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible] - 280.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 290.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 297.0	"	"	"	"	"	"	"	"	7.0	"
[illegible]	[illegible] - 307.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible] - 317.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible] - 327.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible] - 337.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 349.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 359.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	[illegible].0 - 362.0	"	"	"	"	"	"	"	"	3.0	"
[illegible]	[illegible].0 - 364.0	"	"	"	"	"	"	"	"	2.0	CRUMBLING
[illegible]	[illegible].0 - 369.0	"	"	"	"	"	"	"	"	[illegible]	GOOD
[illegible]	[illegible].0 - 374.0	"	"	"	"	"	"	"	"	[illegible]	"
[illegible]	374.0 - 384.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	384.0 - 394.0	"	"	"	"	"	"	"	"	10.0	"
[illegible]	394.0 - 404.0	"	"	"	"	"	"	"	"	10.0	"
41	404.0 - 414.0	"	"	"	"	"	"	"	"	10.0	"
42	414.0 - 423.0	"	"	"	"	"	"	"	"	9.0	"
43	423.0 - 433.0	"	"	"	"	"	"	"	"	10.0	"

260-8

MERCURY URANIUM & OIL CO., 600 COAL AVE., SW ALBUQUERQUE, NEW MEXICO. SHEET 42A

Nº 11 DIAMOND DRILL HOLE, 1070N 2155E, BEARING 0°, INCLINATION [illegible]

SHEET 2 OF 2 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

| BOX | DEPTH | LITHOLOGY | COLOR & [illegible] | | |

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. OMA DOCKET 4214

NO 11 DIAMOND DRILL HOLE, 1020 N 3955 E, BEARING 0°, INCLINATION [illegible] TOTAL DEPTH [illegible] FEET

SHEET 4 OF 4 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

DEPTH	LITHOLOGY	[illegible] MINERALIZATION	[illegible] ALTERATION
[illegible]	[illegible]		
[illegible] - 577.5	[illegible]		
577.5 - 587.0	[illegible]		
[illegible] - [illegible]	[illegible]		
[illegible]	[illegible]		
[illegible]	[illegible]		
[illegible]	[illegible]		
[illegible]	[illegible]		
[illegible] - [illegible]	[illegible]		[illegible]
[illegible] - [illegible]	[illegible]		[illegible]
[illegible] - [illegible]	[illegible]		[illegible]
[illegible] - 776.3	[illegible]		[illegible]
[illegible] - [illegible]	[illegible]		[illegible]
[illegible] - [illegible]	[illegible]		[illegible]
[illegible] - 803.3	[illegible]		
[illegible] - 816.0	LIMESTONE		
816.0 - 826.0	[illegible]		
826.0 - 836.0	[illegible]		
836.0 - 846.0	[illegible]		
846.0 - 856.0	[illegible]		
[illegible] - [illegible]	[illegible]		[illegible]
[illegible] - 866.0	[illegible]		[illegible]
[illegible] - 876.0	[illegible]		
[illegible] - 886.0	[illegible]		
[illegible] - 896.0	[illegible]		
[illegible] - 900.0	[illegible]		
	HOLE [illegible]		
	HOLE [illegible]		

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

Nº 8 DIAMOND DRILL HOLE, 1195 N 1800 E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 225 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	MO	CORE RECOVERY & CONDITION
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] BROKEN & PLUGS
[illegible]	[illegible]	ORE [illegible]	[illegible]					[illegible] PLUGS
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] BROKEN & PLUGS
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] GOOD
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] PLUGS
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] BROKEN & PLUGS
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] GOOD
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]					[illegible] AFTER PLUGS - REST GOOD
[illegible]	135.5-145.5	[illegible]	[illegible]					[illegible] GOOD
[illegible]	145.5-150.5	MARBLE & [illegible]	[illegible]					[illegible] BROKEN & PLUGS
10	150.5-152.0	[illegible]	[illegible]					1.5 150.5-151 PLUGS - REST GOOD
11	152.0-159.0	[illegible]	[illegible]					[illegible] GOOD - BROKEN & PLUGS
11	159.0-173.5	MARBLE & SILIC. LIMESTONE	[illegible]					[illegible] GOOD
[illegible]	173.5-183.5	[illegible]	[illegible]					[illegible]
[illegible]	183.5-192.5	SILIC. LIMESTONE & SHALE	[illegible]					[illegible]
[illegible]	192.5-202.5	LIMESTONE & SILIC. [illegible]	[illegible]					[illegible]
[illegible]	202.5-216.0	SILIC. & DIKE TYPE - SHALE	GREY & BLACK					[illegible] GOOD - 4' PLUGS
[illegible]	216.0-225.0	SHALE & FACTURE - L.S. ORE [illegible]	[illegible]					[illegible] 2' PLUGS - REST GOOD
								[illegible] TOTAL
		HOLE STARTED JAN. 12, 1957						
		HOLE FINISHED JAN. 23, 1957						68.4% RECOVERY

E. D. Boco

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 7 DIAMOND DRILL HOLE, 1110 N 1795 E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 225 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AG	AU	%Mn	CORE RECOVERY & CONDITION	
1	0.0 - 18.0	RHYOLITE	YELLOWISH-WHITE SPOT NO SULFIDE					18.0	BROKEN & PLUGS
1	18.0 - 20.0	SILIC. LIMESTONE & SHALE	BLUE-GREY " "					1.0	" "
2	20.0 - [illegible]	" " " "	" " " "					[illegible]	" "
2	[illegible] - [illegible]	RHYOLITE	SPOTTED WHITE " "					[illegible]	" "
3	[illegible] - [illegible]	SILIC. LIMESTONE & SHALE	BANDED GREY [illegible]					[illegible]	" "
3	[illegible]	RHYOLITE & [illegible]	WHITE-SP[illegible] [illegible]					[illegible]	" "
4	[illegible]	" " " "	" " " "					[illegible]	" "
4	[illegible] - 75.0	SILIC. LIM[illegible]	LIGHT TO DARK GREY " "					[illegible]	" "
4	[illegible]	[illegible]	WHITE " "					[illegible]	" "
5	[illegible]	[illegible]	" "					[illegible]	" "
5	[illegible]	[illegible]	" "					[illegible]	" "
6	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]
6	[illegible] - 97.0	[illegible]	[illegible]					[illegible]	
6	[illegible] - 103.0	LIMESTO[illegible]	" " [illegible]					[illegible]	"
7,8,9	103.0 - 127.5	SILIC. LIM[illegible]	[illegible]					[illegible]	"
9	127.5 - 128.0	" " " "	" " " " [illegible]					[illegible]	"
9,10,11	128.0 - 148.0	" " " "	" " " " NO SULFIDES					20.0	"
11	148.0 - 150.0	LIMESTONE & SHALE	MOTTLED GREY [illegible]					[illegible]	"
11	150.0 - 153.0	" "	" " NO SULFIDES					[illegible]	"
12	153.0 - 161.0	L.S. & SHALE TO L.S.	" " TO GREY " "					8.0	"
13	161.0 - 165.0	LIMESTONE	GREY " "					3.5	"
13	165.0 - 173.0	" ORE TYPE	MOTTLED GREY CONC. PYR. AT 166.5					8.5	PARTLY BROKEN
14	173.0 - 175.0	" " "	" " DIFFUSE PYRITE					2.0	BROKEN
14	175.0 - 180.0	SILIC. LIMESTONE & SHALE	GREY TO DARK BANDED NO SULFIDES					5.0	GOOD
14	180.0 - 183.0	LIMESTONE - ORE TYPE	STEEL GREY DIFFUSE PYRITE					3.0	"
15	183.0 - 193.0	AT 183.5 FEET L.S. TO QUARTZITE	GREY TO LT. GREY NO SULFIDES					[illegible]	"
17	193.0 - 204.0	QUARTZITE	LIGHT GREY " "					[illegible]	LAST 2' BROKEN & PLUGS
18	204.0 - 207.0	"	" " " "					2.5	BROKEN
18	207.0 - 215.6	LIMESTONE - ORE TYPE	MOTTLED TO STEEL GREY " "					7.5	GOOD
19	215.6 - 224.5	" " "	" " " "					8.5	"
19	224.5 - 225.0	SILIC. LIMESTONE & SHALE	DARK BANDED " "					0.5	"
								[illegible] FEET	
		HOLE STARTED JAN. 1, 1957							
		HOLE FINISHED JAN. 12, 1957						82.82 RECOVERY	

* THERE IS NO BOX 16

F.B. Boca

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214.

Nº 6 DIAMOND DRILL HOLE, 933 N. 1985 E., BEARING 0°, INCLINATION -90°, TOTAL DEPTH 225 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%U	CORE RECOVERY & CONDITION
1	0.0 - 12.0	TAILINGS	[illegible]					[illegible]
2	12.0 - [illegible]	"	"					[illegible]
3	[illegible]	"	"					[illegible]
4	[illegible]	SILIC. [illegible]	[illegible]					[illegible]
5	[illegible]	" "	[illegible]					[illegible]
6	[illegible]	[illegible]	[illegible]					[illegible]
7	[illegible]	[illegible]	[illegible]					[illegible]
8	[illegible]	[illegible]	[illegible]					[illegible]
9	[illegible]	[illegible]	[illegible]					[illegible]
10	[illegible]	[illegible]	[illegible]					[illegible]
11	[illegible]	[illegible]	[illegible]					[illegible]
12	[illegible]	[illegible]	[illegible]					[illegible]
13	[illegible]	[illegible]	[illegible]					[illegible]
14	[illegible]	[illegible]	[illegible]					[illegible]
		SHOLE STANDARD [illegible]						
		HOLE FINISHED [illegible]						

[illegible]

R.L. Boca

MERCURY URANIUM & OIL CO., 600 COAL AVE, S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 5 DIAMOND DRILL HOLE, 944.19 N 1881.91 E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 225 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%WO	CORE RECOVERY & CONDITION	
1	0.0 - 5.0	RHYOLITE	CREAM WHITE-DENDRITIC NO SULFIDE					5.0	PARTLY BROKEN
1	5.0 - 21.0	GARNETITE & TACTITE	LT. GREY TO BROWNISH MALACHITE					5.0	VUGGY PLUGS
2	21.0 - 23.0	SILIC. MARBLE & LIMESTONE	" " " MOTTL. GREEN NO SULFIDES					2.0	GOOD TO BROKEN
2	23.0 - 28.0	ORE TYPE LIMEST. & GARNET.	" " " BROWNISH " "					4.4	BROKEN PLUGS
2	28.0 - 40.0	SILIC. LIMESTONE & TACTITE	" " BANDED " "					3.8	PLUGS
3	40.0 - 47.0	" " - SHALE	" " " " "					4.6	PLUGS TO GOOD
3	47.0 - 48.0	" " POWDERED	" " SPECKLED " "					1.5	POWDER
3	48.0 - 53.0	" "	" " TO GREENISH " "					4.0	GOOD
4	53.0 - 63.0	" " & GARNETITE	" " " " " "					10.0	1' PLUGS 9' GOOD
5	63.0 - 68.0	" " & SHALE	" " " DK. GREY PYRITIC					3.6	PARTLY BROKEN
5	68.0 - 8[illegible]	" TACTITE	GREY-[illegible] NO SULFIDES					[illegible]	PLUGS & GRANULES
6	8[illegible] - [illegible]	TACTITE & ORE TYPE L.S.	" " " "					[illegible]	PLUGS
7	[illegible] - 10[illegible]	" " " "	" " " "					[illegible]	"
8	10[illegible] - [illegible]	" " " "	" " PYRITIC					1.[illegible]	"
8	11[illegible] - [illegible]	LIMESTONE - ORE TYPE	ST. GREY TO GREY PYR-SOME CHALCO.					3.5	"
9	1[illegible] - 1[illegible]	" " "	" " " " " "					10.0	"
10	[illegible] - 1[illegible]	" " "	" " " " " "					10.0	"
11	1[illegible] - 1[illegible]	MONZONITE PORPHYRY	LT. GREY-SPECKLED PYRITIC					3.0	GOOD
12	1[illegible] - 1[illegible]	" "	" " " "					2.0	"
12	[illegible]	SILIC. LIMESTONE & SHALE	GREY CHALKY BAND - SOME PYRITE					10.0	"
13	[illegible]	ORE TYPE L.S. & MARBLE	LT. TO ST. GREY SOME CHALCO.					10.0	"
14	17[illegible]	MARBLE	LT. GREY NO SULFIDES					8.0	"
14	17[illegible] - 18[illegible]	SILIC. L.S.	" " -MOTTLED " "					2.0	"
15	18[illegible] - 19[illegible]	" "	" " " " "					10.0	"
16	19[illegible] - 19[illegible]	" "	" " " PYRITIC					4.0	"
16	19[illegible] - 201.5	MONZONITE PORPHYRY	" " SPECKLED PYR-SOME CHALC.					6.0	"
17	201.5 - 211.0	" "	" " " " " "					10.0	"
18	211.0 - 2[illegible]	" "	" " " " " "					10.0	"
19	2[illegible] - 2[illegible]	" "	" " " " " "					1.5	"
								175.5 FEET	
		HOLE STARTED OCT. 1, 1957							
		HOLE FINISHED JAN. 24, 1957						78.0% RECOVERY	

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MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 9 DIAMOND DRILL HOLE 1135 N 2125 E, BEARING N12°E INCLINATION +75°, TOTAL DEPTH 80 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% MO	CORE RECOVERY & CONDITION
1	0 - 5.0	TACTITE	GREY TO BROWN SOME CHALCOPYRITE					1.50 FT BROKEN
								1.50 " GOOD CORE
1	5.0 - 8.8	"	DARK GREY " "					3.15 " " "
2 ϕ	8.8 - 17.0	"	" " GARNET, SPECULARITE					
			PYRITE, CHALCOPYRITE					7.50 " FAIR [illegible]
2	17.0 - 19.0	SILICIFIED LIMESTONE	LIGHT GREY NO SULFIDES					1.75 " GOOD [illegible]
3	19.0 - 22.0	" "	" " SOME PYRITE					2.75 " "
3 ϕ	22.0 - 26.4	TACTITE	DARK GREY PYRITE & CHALCOPYRITE					4.40 "
3	26.4 - 28.0	SILICIFIED LIMESTONE	" " FINE CHALCOPYRITE					[illegible] "
4	28.0 - 30.0	" "	" " " "					[illegible] "
4	30.0 - 35.5	" "	LIGHT GREY [illegible]					[illegible] " [illegible]
4	35.5 - 37.0	TACTITE	DARK GREY [illegible]					[illegible] "
5	37.0 - 47.5	SILICIFIED LIMESTONE	LIGHT GREY [illegible]					[illegible] " [illegible]
6	47.5 - 57.5	" " "	" " FINE [illegible]					[illegible] " " "
7	57.5 - 58.5	" "	" " " "					[illegible] " " "
7	58.5 - 66.5	" "	" " " "					[illegible] " [illegible]
7	66.5 - 68.0	" "	" " " "					[illegible] " [illegible]
8	68.0 - 74.7	" "	" " " "					[illegible] " [illegible]
8	74.7 - 79.0	TACTITE	" " NO [illegible]					[illegible] " " "
8	79.0 - 80.0	"	" " " "					[illegible] " " "

HOLE STARTED 12-28-56

HOLE FINISHED 12-31-56

E. B. Roca

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MAR 1 - 1957
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MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE NEW MEXICO. DMEA DOCKET 4214

№ 4 DIAMOND DRILL HOLE, 1020 N 1820 E, BEARING 0°; INCLINATION -90°; TOTAL DEPTH 226 FEET

SHEET 2 OF 2 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO	CORE RECOVERY & CONDITION
14	172.0 - 176.0	SILICIFIED LIMESTONE	DARK GREY FINE PYRITE					4.00 FT. GOOD CORE
15	176.0 - 180.0	" "	" " " "					3.20 " CORE & FRAGMENTS
15	180.0 - 189.0	QUARTZITE	LIGHT GREY MICACEOUS					6.00 " " "
16	189.0 - 200.0	"	" " MICA & SOME FINE PYRITE					10.00 " GOOD CORE
17	200.0 - 202.5	"	" " " " " "					2.50 " " "
17	202.5 - 202.8	CRYSTALLINE LIMESTONE	" " MUCH CHALCOPYRITE					.30 " " "
17	202.8 - 209.0	" "	" " NO SULFIDES					6.24 " " "
18	209.0 - 218.5	" "	" " " "					9.50 " " "
19	218.5 - 218.8	" "	" " MUCH CHALCOPYRITE					.30 " " "
19	218.8 - 226	SILICIFIED LIMESTONE	" " THIN SHALE INCLUSIONS					7.20 " " "

HOLE STARTED 12-15-56
HOLE FINISHED 12-31-56

F. B. Baca

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 14 DIAMOND DRILL HOLE, 1103 N, 2190 E, BEARING S70°E, INCLINATION -70°, TOTAL DEPTH 150 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG		CORE RECOVERY & CONDITION
1	0 - 7.5	SILICIFIED LIMESTONE	MEDIUM GREY SPARSE PYRITE					5.85 FT 1' FRAG. RES GOOD CORE
2	7.5 - 14.0	" "	" " GARNETITE					5.92.5 " GOOD CORE
3	14.0 - 17.0	" "	" " "					4.75 " " "
3	17.0 - 21.0	SHALEY LIMESTONE ALT'D	GREY TO BLACK NO SULFIDES					3.50 " " "
3	21.0 - 24.0	ALTERED LIMESTONE	LIGHT GREY " "					2.10 " FAIR CORE
4	24.0 - 27.0	LIMESTONE	" " " "					.15 FRAGMENTS
4	27.0 - 28.5	SHALEY LIMESTONE	DARK GREY " "					.85 CORE & FRAGMENTS
4 ◆	28.5 - 34.0	ALTERED LIMESTONE	LIGHT GREY MUCH PYRITE & CHALCO.					5.00 GOOD CORE
5 ◆	34.0 - 40.0	SHALEY LIMESTONE	LIGHT TO DARK GREY SOME CHALCO.					3.60 FAIR CORE
5	40.0 - 50.0	" "	DARK GREY TO BLACK FINE PYRITE					3.30 FRAGMENTS
5	50.0 - 51.0	BURNT SHALE	BLACK " "					.30 SMALL PLUGS
6	51.0 - 81.0	ALTERED LIMESTONE	LIGHT GREY " "					5.30 CORE & FRAGMENTS
7	81.0 - 91.0	" "	" " NO SULFIDES					5.00 " "
7	91.0 - 98.0	" "	DARK GREY FINE PYRITE					3.80 " "
7	98.0 - 102.0	SILICIFIED LIMESTONE	" " " "					3.80 GOOD CORE
8	102.0 - 109.0	" "	" " " "					5.30 CORE & FRAGMENTS
8	109.0 - 110.7	QUARTZITE	" " MUCH " "					1.70 GOOD CORE
8	110.7 - 115.0	PORPHYRY	LIGHT GREY NO SULFIDES					3.25 FAIR CORE
9	115.0 - 125.0	"	" FINE PYRITES					3.85 GOOD CORE & FRAGMENTS
10	125.0 - 135.0	"	" " " "					3.40 GOOD CORE
11	135.0 - 146.0	"	" " " "					3.25 " "
12	146.0 - 150.0	"	" " " "					3.90 " "

HOLE STARTED 12-12-56
HOLE FINISHED 12-21-56

F. B. Baca

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

Nº 4 DIAMOND DRILL HOLE, 1020 N 1820 E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 226 FEET

SHEET 1 OF 2 SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	TOTS	CORE RECOVERY & CONDITION
1	0 - 2.5	SILICIFIED LIMESTONE	LIGHT TO DARK GREY NO SULFIDES					1.85 FT. GOOD CORE
1	2.5 - 3.5	TACTITE	DARK GREY " "					.50 " FRAGMENTS
1	3.5 - 14.2	"	" " " "					3.75 " CORE & FRAGMENTS
2	14.2 - 23.0	"	" " " "					.20 " FRAGMENTS
2	23.0 - 28.0	"	" " " "					3.20 " CORE & FRAGMENTS
2	28.0 - 33.0	"	" " " "					3.20 " " "
2	33.0 - 34.5	"	" " " "					1.25 " GOOD CORE
3	34.5 - 36.5	"	" " " "					1.[illegible] " CORE & FRAGMENTS
3	36.5 - 43.0	"	LIGHT TO DARK GREY SOME CALCITE					1.[illegible] " GOOD CORE
3	43.0 - 46.0	"	" " " "					3.[illegible] " " "
3	46.0 - 47.0	"	GREY TO BROWN " DISSEMINATED					.75 " " "
3	47.0 - 53.0	"	BROWN NO SULFIDES					.[illegible] " FRAGMENTS
3	53.0 - 58.0	"	BROWN TO GREY " "					3.75 " CORE & FRAGMENTS
4	58.0 - 77.5	"	LIGHT TO DARK GREY " "					1.[illegible] " " "
5	77.5 - 83.0	"	" " " " "					4.[illegible] " " "
5	83.0 - 88.3	SILICIFIED LIMESTONE	LIGHT GREY FINE PYRITE & CALCITE					5.[illegible] " GOOD CORE
6	88.3 - 88.5	" "	" " NO SULFIDES					[illegible] " " "
6	88.5 - 91.5	" "	" " DARK STRING SULFIDES					2.75 " " "
6	91.5 - 93.0	" "	" " NO SULFIDES					1.[illegible] " " "
6	93.0 - 98.5	CRYSTALLINE LIMESTONE	" " " "					5.[illegible] " CORE & FRAGMENTS
7	98.5 - 102.0	" "	" " FINE PYRITE					2.[illegible] " GOOD CORE
7	102.0 - 108.5	" "	" " MUCH PYRITE & CALCITE					5.50 " " "
8	108.5 - 111.5	" "	" " " " "					3.00 " " "
8	111.5 - 116.0	" "	" " FINE PYRITE					4.35 " " "
9	116.0 - 121.0	" "	" " " "					5.50 " " "
9	121.0 - 124.0	SHALE	BLACK NO SULFIDES					1.60 " CORE & FRAGMENTS
9	124.0 - 126.0	CRYSTALLINE LIMESTONE	LIGHT GREY MUCH PYRITE					2.00 " GOOD CORE
10	126.0 - 130.2	" "	" " " "					4.20 " " "
10	130.2 - 133.0	SHALE & TACTITE	DARK GREY NO SULFIDES					1.75 " CORE & FRAGMENTS
10	133.0 - 135.0	SILICIFIED LIMESTONE	LIGHT GREY " "					1.90 " " "
10	135.0 - 137.0	CRYSTALLINE LIMESTONE	" " MUCH PYRITE					1.25 " GOOD CORE
11	137.0 - 147.0	" "	" " " "					10.00 " " "
12	147.0 - 157.0	" "	" " " "					10.00 " " "
13	157.0 - 162.0	" "	" " " "					5.00 " " "
[illegible]	162.0 - 166.0	SHALE	BLACK NO SULFIDES					4.00 "
[illegible]	166.0 - 172.0	CRYSTALLINE LIMESTONE	LIGHT GREY MUCH PYRITE					

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 4214

10 DIAMOND DRILL HOLE, 1120 N, 2125 E, BEARING N81°W, INCLINATION -65°, TOTAL DEPTH 125 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%MO	CORE RECOVERY & CONDITION
0 - 9.5	SILIC[illegible] LIMESTONE	DARK GREY [illegible] & CHALCOPYRITE					[illegible] FT. FAIR CORE
9.5 - 16.5	[illegible]	[illegible]					[illegible] " GOOD CORE
16.5 - 18.8	[illegible]	[illegible]					[illegible] " [illegible]
18.8 - 31.0	[illegible]	[illegible] [illegible] COLOR					[illegible] " [illegible]
31.0 - 31.5	[illegible]	[illegible]					[illegible] " [illegible]
31.5 - 35.0	SILI[illegible] SHALE	[illegible] PYRITE					[illegible] " [illegible]
35.0 - 39.5	SILI[illegible]	[illegible]					[illegible] " [illegible]
39.5 - 43.0	[illegible]	LIGHT [illegible] CHALCOPYRITE					[illegible] " [illegible]
43.0 - 49.5	[illegible]	DARK [illegible] PYRITE					[illegible] " [illegible]
49.5 - 50.3	[illegible]	[illegible]					[illegible] " [illegible]
50.3 - 57.0	[illegible]	LIGHT [illegible]					[illegible] " FRAGMENTS
57.0 - 60.0	[illegible]	[illegible]					[illegible] " [illegible]
60.0 - 62.1	M[illegible] [illegible]NYKY	[illegible]					[illegible] " GOOD CORE
62.1 - 66.0	[illegible]	DARK [illegible] [illegible]					[illegible] " [illegible]
66.0 - 74.0	[illegible]	GREY TO [illegible]					[illegible] " GOOD TO BROKEN
74.0 - 77.0	SILIC[illegible] [illegible]STONE	LIGHT [illegible] CHALCOPYRITE					[illegible] " GOOD CORE
77.0 - 84.0	[illegible]	[illegible]					[illegible] " [illegible]
84.0 - 87.0	[illegible]	[illegible] PYRITE					[illegible] " [illegible]
87.0 - 97.0	[illegible]	[illegible]					[illegible] " [illegible]
97.0 - 108.5	[illegible]	[illegible]					[illegible] " [illegible]
108.5 - 115.5	[illegible]	DARK [illegible] [illegible]					[illegible] " [illegible]
115.5 - 123.5	[illegible]	LIGHT [illegible] CHALCOPYRITE					[illegible] " [illegible]
123.5 - 125.0	[illegible]	[illegible]					[illegible] " [illegible]
	[illegible]	0.1-86					
	[illegible]	0.1-56					

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO. DMEA DOCKET 42.4

Nº 3 DIAMOND DRILL HOLE 1800 N 1400 E, BEARING 0°; INCLINATION -90°; TOTAL DEPTH 50 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO	CORE RECOVERY & CONDITION
	0 - 3	SURFACE DETRITUS						
1	3 - 5.0	TACTITE & SILICIFIED LME.	DARK GREY NO SULFIDES					.50 FT. BROKEN
1	5.0 - 7.5	SILICIFIED LIMESTONE	" " " "					1.00 " "
1	7.5 - 8.5	" "	LIGHT GREY FINE PYRITE					.80 " "
1	8.5 - 11.0	" "	" " NO SULFIDES					.50 "
1	11.0 - 14.0	CRYSTALLINE LIMESTONE	" " " "					1.35 " GOOD CORE
1	14.0 - 17.5	" "	" " " "					.10 " FRAGMENTS
1	17.5 - 21.0	" "	" " " "					.10 " "
1	21.0 - 24.0	" "	" " " "					.80 " CORE & FRAGMENTS
1	24.0 - 25.0	" "	" " " "					.90 " GOOD CORE
2	25.0 - 29.5	" "	" " " "					3.33 " " "
2	29.5 - 30.5	TACTITE	" " " "					.60 " " "
2	30.5 - 38.0	CRYSTALLINE LIMESTONE	" " " "					2.75 " CORE & FRAGMENTS
2	38.0 - 40.0	" "	" " " "					.80 " FRAGMENTS
2	40.0 - 42.0	" "	" " " "					1.25 " GOOD CORE
3	42.0 - 43.0	" "	" " " "					1.10 " " "
3	44.0 - 47.5	" "	" " " "					1.10 " CORE & FRAGMENTS
3	47.5 - 50.0	" "	" " " "					.18 " FRAGMENTS

HOLE STARTED 12-12-56
HOLE FINISHED 12-14-56

E. B. Baca

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[illegible] COAL AVE., S.W. ALBUQUERQUE, NEW MEXICO. DMEA [illegible] 42'4

#2 DIAMOND DRILL HOLE, 1320 N, 1309 E, BEARING C: INCLINATION-90°; TOTAL DEPTH 50 FEET

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

X	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	%CU	AU	AG	%WO	CORE RECOVERY & CONDITION
1	0 - 2.6	SILICIFIED LIMESTONE	LIGHT GREY NO SULFIDES					1.10 FT. BROKEN
1	2.6 - 7.0	" "	" " " "					.50 "
1	7.0 - 8.6	" "	" " " "					.15 " "
1	8.6 - 13.6	NO CORE						NONE
1	13.6 - 18.6	SILICIFIED LIMESTONE	LIGHT GREY FINE PYRITE					1.00 FT. SMALL FRAGMENTS
1	18.6 - 23.0	" "	" " " "					.50 " " "
1	23.0 - 24.6	" "	" " " "					.15 " " "
1	24.6 - 27.0	" "	" " " "					.15 " " "
1	27.0 - 34.6	" "	" " " "					.60 " " "
1	34.6 - 37.0	" "	" " " "					.75 " " "
1	37.0 - 38.9	" "	DARK GREY " "					1.80 " GOOD CORE
2	38.9 - 39.0	" "	" " " "					.10 " " "
2	39.0 - 43.0	" "	" " " "					2.90 " " "
2	43.0 - 48.2	" "	DARK TO LIGHT GREY FINE PYRITE					5.20 " " "
2	48.2 - 50.0	" "	LIGHT GREY " "					.85 " " "

HOLE STARTED 12-5-[illegible]

HOLE FINISHED 12-11-[illegible]

F. B. Baca

[illegible] NEW MEXICO. [illegible] COAL AVE, SANTA FE, NEW MEXICO. [illegible] DOCKET [illegible]
Nº 1 DIAMOND DRILL HOLE, 1805 N 1302 E, BEARING 0°, INCLINATION -90°, TOTAL DEPTH 50 FEET.
SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	%WO	CORE RECOVERY & CONDITION	
1	0 - 3	SURFACE DETRITUS							
1	3 - 12.1	SILICIFIED LIMESTONE	LIGHT GREY NO SULFIDES					3.33 FT.	BROKEN
1	12.1-13.4	" "	" " " "					1.00 "	"
1	13.4-14.4	" "	" " " "					.80 "	"
1	14.4-14.11	" "	" " " "					.40 "	"
1	14.11-15.7	" "	" " " "					.40 "	"
1	15.7-16.6	" "	" " FINE PYRITE					.50 "	"
1	16.6-19.6	" "	" " " "					.25 "	"
1	19.6-22.2	" "	" " " "					.20 "	"
1	22.2-24.6	" "	" " " "					.35 "	"
1	24.6-28.6	" "	" " " "					.10 "	"
1	28.6-31.6	" "	" " " "					.05 "	"
1	31.6-34.6	" "	DARK GREY SHALE INCLUSIONS					.10 "	"
1	34.6-35.8	" "	" " " "					.20 "	"
2	35.6-39.6	" "	" " FINE PYRITES					2.25 "	3" PLUGS
2	39.6-43.6	" "	" " " "					2.50 "	1" to 4" "
2	43.6-50.0	" "	" " " "					1.50 "	FRAGMENTS & 3" PLUGS

HOLE STARTED 11-22-56
HOLE FINISHED 12-4-56

F. B. Baca

RECEIVED MAR 19 1957 D.M.E.A. ASSESSMENT OFFICE

MERCURY URANIUM & OIL CO., 600 COAL AVE., S.W., ALBUQUERQUE, NEW MEXICO, DMEA DOCKET 4214

Nº 15 DIAMOND DRILL HOLE, 1265N 2230E, BEARING S80°E, INCLINATION +70°, TOTAL DEPTH 125 FEET.

SAN PEDRO MINE, SANTA FE COUNTY, NEW MEXICO.

BOX	FOOTAGES	LITHOLOGY	COLOR & MINERALIZATION	% CU	AU	AG	% WO3	CORE RECOVERY & CONDITION	
1	0.0 - 13.5	GARNETITE & TACTITE	BROWNISH GREY PYRITIC-SOME CHALCO.					4.5	BROKEN PLUGS
1	13.5 - 17.0	SILIC. LIMESTONE & SHALE	GREY TO DARK BANDS NO SULFIDES					8.5	GOOD
2	17.0 - 25.0	TACTITE & SILICIFIED SHALE	" BROWNISH-BANDED " "					10.0	BROKEN PLUGS
3	25.0 - 32.0	LIMESTONE	" - " GARNET & CALCITE					6.5	PLUGS
4	32.0 - 37.0	"	" - " " "					4.0	"
4	37.0 - 48.5	SILIC. LIMESTONE & SHALE	" TO DARK BANDED NO SULFIDES					5.7	"
5	48.5 - 58.0	" " "	" " " " " "					10.0	"
6	58.0 - 68.5	" " "	" " " " " "					1.0	"
6	68.5 - 84.0	TACTITE	BROWNISH GREY-YELLOWS " "					4.5	"
6	84.0 - 100.0	RHYOLITE	CREAMY WHITE " "					3.5	"
7	100.0 - 108.0	"	" " " "					4.5	"
8	108.0 - 125.0	"	" " " "					10.0	"

HOLE STARTED NOV. 26, 1956
HOLE FINISHED DEC. 12, 1956

F. B. Baca

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MADE MAY 23 1957

224 New Customhouse
Denver 2, Colorado

May 17, 1957

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Memorandum

To: T. A. Christensen

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

Subject: DMEA Docket 4F14, (Copper) Contract I4n-2981
Mercury Uranium and Oil Company, (San Pedro mine)
Santa Fe County, New Mexico - Operator's Monthly
Progress Report, for the month of February, 1957

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

We consider that the Operator has complied with the intent of the contract and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 50 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks

Date of Report----------April 3, 1957
Date Received in Field Office--------- May 9, 1957
Date Received in Region Office-------- May 15, 1957

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

Enclosures
JDC:kh
cc: Chmn. Op. Comm. (2)
Bonselman (2)
Harshman w/copy Engr's. report
MF-104 file, Reg. III
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

MAY 15 1957
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
May 14, 1957

Memorandum

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

Through: Albert S. Kesselman
Mining Engineer

From: W. D. McMillan

Subject: DMEA Docket 4214 (Copper) Contract Idm-2981, Mercury Oil and Uranium Company, San Pedro Copper Mine, Santa Fe County, New Mexico -- Progress report for February 1957

An inspection of progress for February 1957 was made on February 28, and March 1, 1957, accompanied by F. B. Bass, geologist and mining engineer, and Ray Wood, general superintendent of Mercury Oil and Uranium Company. The pertinent data on the 7 holes completed are given in the following table:

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DATE

Table No. 1 - Pertinent Data on February D. D. Holes

Hole No.	Coord. North	Coord. East	Bearing	Inclin.	Dates Start	Dates Finish	Total Depth	Core Rec. %	Preparation Drifts	Preparation Raises	Mineralization
12	1580	2220	West	-70°	2/1/57	2/13/57	173	92.9	none		13.15 ft. - 0.624 %Cu
16	1445	2280	S80°E	+70°	2/5/57	2/9/57	125	84.8	"		none
17	1520	2300	S77°E	-70°	2/10/57	2/13/57	150	77.9	"		none
18	1680	2270	N84°W	+35°	2/14/57	2/15/57	60	87.8	"		none
19	1792	2190	West	+35°	2/16/57	2/17/57	60	70.8	"		2.2 ft. - 20.09%
29	1820	3335	N80°E	+35°	2/1/57	2/4/57	44	80.6	"		2.0 ft. - 0.41%
35	1098	3225	N80°W	-70°	2/26/57	2/28/57	125	96.0	"	4.0	4.2 ft. - 0.45%
							737		"	4.0	

All work was according to contract specifications; holes were drilled with AX bits. An adequate narrative report, Forms MF-104 and 104A, drill logs, maps, transcript of assay certificates, and drill-hole collar elevations were submitted in quintuplicate.

The operator claims but 57.6 feet of drive in the north drift from Stope No. 1. The contract allows 100 feet of drifting, but work was stopped when the drift was advanced 76 feet as measured by the writer on February 27, 1957.

The following items are recommended for approval:

57.6 feet drifting (North Drift) at $39.50 a foot	$2275.20
4.0 feet raise (Drill Station No. 32) at $39.50 a foot	158.00
737 feet core drilling at $7.50 a foot	5527.50
Total	$7960.70
Government's share at 50 percent	$3980.35

W. D. McMillan
Mining Engineer

WDM/mw
Idm-E981
cc: 6
Chron

EXTRA COPY
D M E A
RECEIVED MAY 27 1957
DATE | INITIALS | CODE

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

Budget Bureau No. 42-R1036.5

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

Month of February 195 7 Docket No. DMEA 4214 Contract No. DMA-E981
Operator's Name Mercury Uranium & Oil Company Minerals Copper
Address 600 Coal Ave., S. W., Albuquerque, N. M.
Contract Amount, $ 7960.70 Government Participation: 50 % Amount, $ 3,980.35

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	5527.50	36,420.00	41,947.50	8/21/57		
Bulldozing						
Crosscutting						
Drifting	2275.20	829.50	3,104.70			
Casing	158.00	3,771.46	3,929.46			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7960.70	41,020.96	48,981.66	7960.70	41,020.96	48,981.66

RECEIVED MAY 27 1957 DMEA

DMEA
DEPARTMENT OF THE INTERIOR
MAY 8 - 1957
REGION III
DENVER, COLORADO

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

Date Apr. 3, 1957 *Payee Mercury Uranium & Oil Co.

Per R. A. Baca Title Ch. Min. Engr. & Geol.

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

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

(Instructions on reverse)

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

$ 3980.35

Signature
(Authorized Certifying Officer)

Date 5/21/57 Voucher No. DMA 57-126

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 981 in accordance with the terms of the contract.

Signature W. W. McMillan (93280.35) Title Min. Engr. Date 5/10/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title acting Executive Officer Date MAY 17 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1957 Docket No. DMEA 4214 Contract No. DM-2991

Operator's Name Mercury Uranium & Oil Company Minerals Copper

Address 600 Coal Ave., S. W., Albuquerque, N. M.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Foot	$2275.20	57.6	$3104.70	78.60	$39.50	350	$39.50
Crosscutting								
Raising	Foot	158.00	4.0	3929.46	99.48	39.50	150	39.50
Shafts								
Winzes								
Drilling: Core	Foot	5527.50	737	41,947.50	5593	7.50	7700	7.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		7960.70		48,981.66				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		7960.70		48,981.66				$105,300.00

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

Date Apr. 3, 1957 Operator Mercury Uranium & Oil Co.

Per F. D. Baca Title Ch. Min. Engr. & Geol.

REMARKS:

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

(Instructions on reverse)

(For Government use only)

RECEIVED MAY 27 1957 D.M.E.A.

George Mellon

INSTRUCTIONS

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

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

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

GPO 872894

MERCURY URANIUM AND OIL CO.
600 Coal Avenue, S.W.
Albuquerque, New Mexico
San Pedro Mine, Santa Fe County, New Mexico

D.M.E.A. Docket 4214

CODE

Elevations of Collars of Diamond Drill Holes.

Hole No.	Coordinates	Bearing	Inclination	Depth	Elevation
1	1905N 1302E	0°	-90°	50 Ft.	7765.40
2	1920N 1309E	0°	-90°	50 Ft.	7765.90
3	1800N 1400E	0°	-90°	50 Ft.	7804.90
4	1020N 1880E	0°	-90°	226 Ft.	7743.20
5	944.19N 1881.91E	0°	-90°	225 Ft.	7712.40
6	933N 1985E	0°	-90°	225 Ft.	7669.00
7	1110N 1795E	0°	-90°	225 Ft.	7777.70
8	1195N 1800E	0°	-90°	225 Ft.	7809.00
9	1135N 2125E	N12°E	+75°	80 Ft.	7550.00
10	1120N 2125E	N81°E	-65°	125 Ft.	7539.30
11	1070N 2755E	0°	-90°	900 Ft.	7506.00
12	1360N 2220E	West	-70°	900 Ft.	7541.10
13	1350N 2240E	West	-70°	900 Ft.	7539.20
14	1103N 2190E	S70°E	-70°	150 Ft.	7538.30
15	1265N 2230E	S60°E	+70°	125 Ft.	7551.10
16	1445N 2280E	S60°E	+70°	125 Ft.	7554.90
17	1580N 2300E	S77°E	-70°	150 Ft.	7540.50
18	1680N 2270E	N84°W	+35°	60 Ft.	7643.30
19	1792N 2190E	West	+35°	60 Ft.	7644.60
20	1007N 2490E	West	-70°	150 Ft.	7561.00
21	1050N 2520E	N60°E	+80°	50 Ft.	7580.10
22	1072N 2616E	N60°E	+80°	55 Ft.	7565.00
23	1065N 2720E	N60°E	+80°	55 Ft.	7539.10
24	1130N 2795E	N60°E	+80°	60 Ft.	7527.30
25	1135N 2895E	N80°E	+75°	70 Ft.	7499.30
26	1051N 3045E	N60°E	+75°	100 Ft.	7450.40
27	1195N 3260E	N80°E	+65°	60 Ft.	7419.70
28	1205N 3305E	S80°W	-57°	200 Ft.	7408.30
29	1280N 3335E	N80°E	+35°	44 Ft.	7405.90
30	1277N 3320E	N76°E	-60°	250 Ft.	7396.00
31	1277N 3320E	S76°W	-60°	250 Ft.	7396.00
32	1455N 2199E	West	-70°	155 Ft.	7540.40
33	1247N 2198E	West	-70°	135 Ft.	7538.50
34	1134N 3070E	East	+60°	30 Ft.	7447.50
35	1098N 3226E	S80°W	-70°	125 Ft.	7495.30
36	1345N 2254E	S80°E	-70°	100 Ft	7539.00
37	1597N 3061E	0°	-90°	900 Ft.	8084.00

F. B. Baca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W.
Albuquerque, New Mexico
San Pedro Mine Santa Fe County, N. M.

DMEA
DEPARTMENT OF THE INTERIOR
MAY 8 - 1957
REGIONAL
DENVER, COLORADO

DMEA DOCKET 4214

RESUME OF OPERATIONS FOR MONTH OF FEBRUARY, 1957, UNDER ABOVE DOCKET NUMBER.

The following operations were performed during this month on the preparation of drilling sites at the coordinates shown:-

Hole No.	Coordinates	Raising
32	1455N, 2199E	4 Ft.

The drift North out of Stope No. 1 was driven 57.6 feet and then stopped, as the ore had pinched down to a width that would not be commercial. It was originally porposed to drive this drift 100 feet.

Diamond drilling was completed in the following holes, during this month, at the coordinates shown and to the depths shown:

Hole No.	Coordinates	Started	Completed	Total Depth
12	1580N, 2220E	2-1-57	2-15-57	173 Feet
16	1445N, 2280E	2-5-57	2-9-57	125 Feet
17	1520N, 2300E	2-10-57	2-13-57	150 Feet
18	1680N, 2270E	2-14-57	2-15-57	60 Feet
19	1792N, 2190E	2-16-57	2-17-57	60 Feet
29	1220N, 3335E	2-1-57	2-4-57	44 Feet
35	1098N, 3226E	2-26-57	2-28-57	125 Feet
	TOTAL DIAMOND DRILLING - FEBRUARY			737 Feet

Hole No. 12 encountered soft material and solution cavities from 150 feet on down which resulted in lost water circulation. There were three days spent in trying to restore circulation by every known method but all failed so the hole was abandoned. The information obtained to a depth of 164 feet confirms that of Hole 13 and will be useful in future exploration.

Hole No. 18 showed about 2.5 feet of almost pure chalcopyrite. This appears to be an isolated pocket and will be investigated further.

Hole No. 29 showed strong chalcopyrite at 6.0 to 11.0 feet which appears to be an extension of the ore above 31 stope.

MERCURY URANIUM AND OIL COMPANY

F. B. Baca, Chief Mining Engineer & Geologist

FINAL DISTRIBUTION
MADE APR 5 1957

224 New Customhouse
Denver 2, Colorado

April 3, 1957

EXTRA COPY DMEA RECEIVED APR 8 1957		
DATE	INITIALS	CODE
4/8	C	220
4	JEJ	110
4/9	Jwa	500

Memorandum

To: T. A. Christensen

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

Subject: DMEA Docket 4214, (Copper), Contract Idm-E981, Mercury Uranium and Oil Company (San Pedro mine) Santa Fe County, New Mexico - Operator's Monthly Progress Report, for the month of January, 1957

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

We consider that the Operator has complied with the intent of the contract and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 50 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks

Date of Report——————————March 20, 1957
Date Received in Field Office————March 25, 1957
Date Received in Region Office———— April 1, 1957

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enclosures
JDC:hh
cc: Chmn. Op. Comm. (2)
Shaw (2)
Harshman) w/copy of engr's report
MF-104 File E981
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION III

DMEA
DEPARTMENT OF THE INTERIOR
APR 1 - 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado

March 29, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: W. D. McMillan

Subject: DMEA Docket 4214 (Copper), Contract I4m-2981, Mercury Uranium & Oil Company, San Pedro mine, Santa Fe County, New Mexico - Progress report for January 1957

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D M E A
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DATE	INITIALS	CODE

An examination of progress made under the subject contract during January 1957 was made on February 11, 1957, accompanied by F. B. Baca, chief mining engineer and geologist, and Ray Wood, mining engineer, and on February 27, 1957, accompanied by F. B. Baca and Mr. Callahan, mine superintendent of Mercury Oil & Uranium Company. The pertinent data on the 17 completed holes are given below:

Hole No.	Coordinates North	Coordinates East	Dates Start	Dates Completed	Total depth feet	Core Recovery Percent	Drifting feet	Raising feet	Bearing	Inclination
5	944.19	1881.91	10/1/56	1/24/57	225	78.0			0	-90
6	933	1985	1/25/57	1/31/57	225	55.6			0	-90
7	1110	1795	1/1/57	1/12/57	225	82.8			0	-90
8	1195	1800	1/12/57	1/23/57	225	66.4			0	-90
11	1070	2755	12/10/56	1/11/57	900	92.2			0	-90
13	1350	2240	1/11/57	1/31/57	900	93.4		10.00	W	-90
20	1007	2490	1/2/57	1/5/57	150	86.2		6.10	W	-70
21	1050	2580	12/31/56	1/2/57	50	90.0			N.80°E.	+80
22	1072	2616	1/7/57	1/8/57	55	64.0	4.0		N.80°E.	+80
23	1065	2720	1/8/57	1/9/57	55	97.6			N.80°E.	+80
24	1130	2795	1/9/57	1/10/57	60	96.5			N.80°E.	+80
25	1135	2895	1/10/57	1/12/57	70	96.8			N.80°E.	+80
26	1051	3045	1/12/57	1/14/57	100	90.1		5.00	N.80°E.	+75
27	1195	3260	1/14/57	1/16/57	60	91.3		4.60	N.80°E.	+55
28	1205	3305	1/10/57	1/22/57	200	92.6		10.30	S.80°W.	-57
30	1277	3320	1/28/57	1/31/57	250	91.1		6.30	N.78°E.	-60
31	1277	3320	1/22/57	1/27/57	250	96.8		6.10	S.78°E.	-60
Preparation of Drilling Sites for Holes to be Drilled										
12	1580	2220					5.0	8.60	W	-70
16	1350	2240						9.25	S.80°E.	+70

Preparation of Drilling Sites for Holes
to be Drilled (Cont.)

17	1520	2300		4.0		S.77°E.	-70
18	1880	2270			7.35	N.84°W.	+35
19	1792	2190			7.33	W.	+35
29	1220	3335		5.0		N.80°E.	+35
Totals			4,000	18.0	80.93		

All holes, drifts and raises were in accordance with locations, direction, inclination, and depth of contract specifications. Core recovery was good except in the surface holes.

Results of the holes drilled to January 31, 1957, are given below:

Hole No.	Interval From	Interval To	Total feet	Copper Percent
4	126.0	127.25	1.25	0.07
	89.25	90.50	1.25	0.18
	157.30	160.80	3.50	0.26
	170.50	172.00	1.50	0.60
5	120.70	124.90	4.20	0.08
	135.00	138.00	3.00	0.10
8	154.50	156.80	2.30	0.11
9	170.50	172.00	1.50	1.02
10	75.50	77.00	1.50	0.54
10	78.50	83.50	5.00	2.65
10	116.50	122.50	6.00	11.36
11	656.50	658.50	2.50	0.05
11	378.00	384.00	6.00	0.05
11	688.00	698.00	10.00	0.06
12	40.00	44.60	4.60	0.60
12	83.50	85.75	2.25	0.60
12	87.90	92.00	4.10	0.84
12	111.00	113.20	2.20	0.30
12	98.50	103.00	4.50	3.35
13	95.80	102.00	6.20	0.48
13	790.20	799.20	9.00	0.02
29	6.00	8.00	2.00	0.41
30	5.35	11.05	6.30	2.22
31	0.00	9.00	9.00	2.32

All holes were drilled with AX diamond core bits. The bearing of Hole No. 11 is 0, although it was omitted from the drill log. I believe that vertical control has been established at the San Pedro Copper mine, but altitudes of holes are not given.

The applicant submitted in quintuplicate an adequate narrative report, MF-104's, drill logs, map and assay certificate.

Approved costs are for 4001 feet of diamond-core drilling at $7.50 per foot ($30,007.50), 18 feet of drifting at $39.50 per foot ($711.00) and 80.93 feet of raising at $39.50 per foot ($196.74) a total of $33,913.24. The extra foot in drilling was done in December 1956 and not claimed.

According to information received in this office, all work on Contract Idm-2981 will be completed by the end of March 1957 with the exception of the proposed winze and drift.

It is recommended that 50 percent of the approved total cost amounting to $16,957.62 be approved for payment.

W. D. McMillan
Mining Engineer

cc: 6
Idm-2981
Chron

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

Budget Bureau No. 42-R1036.5

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

Month of January 1957 Docket No. DMEA 4214 Contract No. DMA-2901
Operator's Name Mercury Uranium & Oil Company Minerals Copper
Address 600 Coal Ave. S.W., Albuquerque, N. M.
Contract Amount, $33,915.24 Government Participation: 50 % Amount, $16,957.62

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	30,007.50	6412.50	36,420.00	8/21/57		
Bulldozing						
Crosscutting						
Drifting	711.00	118.50	829.50			
Raising	3196.74	574.72	3771.46			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	~~33,915.24~~	~~7,105.72~~	~~41,020.96~~	33,915.24	7,105.72	41,020.96

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

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

Date 4/20/57 *Payee Mercury Uranium & Oil Company

Per E. H. Dace Title Ch. Min. Engr. & Geol.

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

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

(Instructions on reverse)

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

$16,957.62

Signature (Authorized Certifying Officer)

Date 4/5/57 Vou. No. 57-108

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Tdm-E 98 in accordance with the terms of the contract.

Signature Leon C. Mellom ($25,496.95) Title Min. Engr Date 3/28/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature E. N. Hausman Title acting Executive Officer Date APR 3 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1957 Docket No. DMEA 4214 Contract No. DDM-2991

Operator's Name Mercury Uranium & Oil Company Minerals Copper

Address 600 Coal Ave., S. W., Albuquerque, N. M.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Foot	$711.00	18.00	$ 829.50	21.00	$39.50	350	$ 39.50
Crosscutting								
Raising	Foot	3196.74	80.93	3771.46	95.48	39.50	100	39.50
Shafts								
Winzes								
Drilling: Core	Foot	30,007.50	4001.00	36,420.00	4856.00	7.50	5700	7.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		33,915.24						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		33,915.24		41,020.96				$67,650.00

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

Date Mar. 20, 1957 Operator Mercury Uranium & Oil Co.

Per F. B. Baca Title Chief Mining Engr. & Geologist.

REMARKS: One foot of core drilling is included in this report that was drilled during the month of December, 1956 and was not included in the report for that month.

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

(Instructions on reverse)

(For Government use only)

RECEIVED APR 8 1957 D.M.E.A.

Wm Mullen

INSTRUCTIONS

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

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

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

GPO 872894

DMEA
DEPARTMENT OF THE INTERIOR
APR 1 - 1957
REGION III
DENVER, COLORADO

DMEA
DEPARTMENT OF THE INTERIOR
MAR 22 1957
REGION III
DENVER, COLORADO

MERCURY URANIUM AND OIL COMPANY
600 Coal Avenue, S. W.
Albuquerque, New Mexico
San Pedro Mine - Santa Fe County, N. M.

DMEA DOCKET 4214

RESUME OF OPERATIONS FOR MONTH OF JANUARY, 1957 UNDER ABOVE DOCKET NO.

The following operations were performed during this month on the preparation of drilling sites at the coordinates shown:-

Hole No.	Coordinates	Drifting	Raising
12	1580N, 2220E	5.0Ft.	8.60 Ft.
13	1350N, 2240E		10.00 Ft.
16	1445N, 2280E		9.25 Ft.
17	1520N, 2300E	4.0 Ft.	
18	1680N, 2270E		7.35 Ft.
19	1792N, 2190E		7.33 Ft.
20	1007N, 2490E		6.10 Ft.
22	1072N, 2616E	4.0 Ft.	
26	1051N, 3045E		5.00 Ft.
27	1195N, 3260E		4.60 Ft.
28	1205N, 3305E		10.30 Ft.
29	1220N, 3335E	5.0 Ft.	
30	1277N, 3320E		6.30 Ft.
31	1277N, 3320E		6.10 Ft.
		18.0 Ft.	80.93 Ft.

Diamond drilling was completed on the following holes, during this month, at the coordinates shown and to the depths shown:-

Hole No.	Coordinates	Started	Completed	Total Depth
5	944.19N, 1881.91E	10-1-57	1-24-57	225 Ft.
6	933N, 1985E	1-25-57	1-31-57	225 Ft.
7	1110N, 1795E	1-1-57	1-12-57	225 Ft.
8	1195N, 1800E	1-12-57	1-23-57	225 Ft.
11	1070N, 2755E	12-10-56	1-11-57	900 Ft.
13	1350N, 2240E	1-11-57	1-31-57	900 Ft.
20	1007N, 2490E	1-2-57	1-5-57	150 Ft.
21	1050N, 2520E	12-31-56	1-2-57	50 Ft.
22	1072N, 2616E	1-7-57	1-8-57	55 Ft.
23	1065N, 2720E	1-8-57	1-9-57	55 Ft.
24	1130N, 2795E	1-9-57	1-10-57	60 Ft.
25	1135N, 2895E	1-10-57	1-12-57	70 Ft.

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Hole No.	Coordinates	Started	Completed	Total Depth
26	1083N, 3045E	1-12-57	1-14-57	100 Ft.
27	1195N, 3260E	1-14-57	1-16-57	60 Ft.
28	1205N, 3305E	1-16-57	1-22-57	200 Ft.
30	1277N, 3320E	1-26-57	1-31-57	250 Ft.
31	1277N, 3320E	1-22-57	1-27-57	250 Ft.
	Total Diamond Drilling-January, 1957			4000 Ft.

Good chalcopyrite was encountered in Holes Nos. 9, 10, 23, 24, 25 and 26. Herewith is a transcript of assays made of samples taken from footages indicated.

Some difficulty was encountered at the surface holes, in obtaining good core recovery due to weathered condition of the surface outcrop. Uniformly good recovery was obtained from the underground holes because of the unaltered condition of the rocks encountered.

MERCURY URANIUM AND OIL COMPANY

F. B. Baca

F. B. Baca, Chief Mining Engineer & Geologist

DMEA
DEPARTMENT OF THE INTERIOR
APR 1 - 1957
REGION III
DENVER, COLORADO

DMEA
DEPARTMENT OF THE INTERIOR
MAR 22 1957
REGION III
DENVER, COLORADO

MERCURY URANIUM AND OIL COMPANY
600 Coal Avenue, S. W.
Albuquerque, New Mexico
San Pedro Mine - Santa Fe County, N. M.

DMEA DOCKET 4214

Transcript of assay certificate No. 2436 made by Chapman and Wood of Albuquerque, New Mexico from analysis of core samples from the San Pedro Mine.

Cur No.	C&W No.	Hole No.	Footages	Copper %
1	7836	4	126.0-127.25	0.07
2	7837	4	89.25-90.50	0.18
3	7838	4	157.30-160.80	0.26
4	7839	4	170.50-172.00	0.60
5	7840	9	8.60-14.00	1.02
6	7841	10	75.50-77.00	0.54
7	7842	10	78.50-83.50	2.65
8	7843	10	116.50-122.50	11.36
9	7844	11	656.50-658.50	0.05
10	7845	11	378.00-384.00	0.05
11	7846	11	688.00-698.00	0.06

Following are from assay certificate No. 2450:-

12	7887	23	0.00-12.80	3.26
13	7888	24	0.80-6.80	0.54
14	7889	24	18.60-21.95	0.48
15	7890	24	51.75-55.75	0.42
16	7891	25	0.85-13.45	1.97
17	7892	25	13.45-19.00	0.54

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Following are from assay certificate No. 2458:-

18	7905	19	2.00-4.20	20.09
19	7906	12	40.00-44.60	0.60
20	7907	12	83.50-85.75	0.60
21	7908	12	87.90-92.00	0.84
22	7909	12	111.00-113.20	0.30
23	7910	12	98.50-103.00	3.35
24	7911	13	95.80-102.00	0.48

Following are from assay certificate No. 2708:-

25	8110	5	120.70-124.90	0.08
26	8111	5	135.00-138.40	0.10
27	8112	8	154.50-156.80	0.11
28	8113	13	790.20-799.20	0.02
29	8114	29	6.00-8.00	0.41
30	8115	30	5.35-11.05	2.22
31	8116	31	0.00-9.00	2.32

MERCURY URANIUM AND OIL COMPANY

F. B. Baca, chief Mining Engineer & Geologist

FINAL DISTRIBUTION
MADE MAR 15 1957

224 New Customhouse
Denver 2, Colorado

March 13, 1957

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DATE	INITIALS	CODE
3/18		110
3/18		500
Region III		

Memorandum

To: T. A. Christensen

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

Subject: DMEA Docket-4214, (Copper) Contract Idm-E981
Mercury Uranium and Oil Company, (San Pedro mine)
Santa Fe County, New Mexico - Operator's Monthly
Progress Report, for the month of December, 1956

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

We consider that the Operator has complied with the intent of the contract and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A; therefore, we recommend that payment be made for 50 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

The inspecting engineer recommends disallowance of 124 feet of diamond drilling which was not supported by drill logs. We have now received the drill log for hole No. 15, which was completed at a depth of 125 feet during the reporting period; therefore, no disallowance is recommended by this office.

The footage shown on the drill logs for December, 1956 totals 856 feet but the Operator has reported only 855 feet on Form MF-104A. We have notified the Operator of the discrepancy.

Remarks

Date of Report——————————February 14, 1957
Date Received in Field: Office——————February 18, 1957
Date Received in Region Office——————February 26, 1956
Reason for delay: Held in Region Office pending receipt of maps and other required data from the Operator.

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

Enclosures

JDG:hh
cc: Chmn. Op. Comm. (2)
Shaw (2)
Harshman)w/copy engr's report
MT-104 File E981
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION III

DMEA
DEPARTMENT OF THE INTERIOR
FEB 26 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado

February 25, 1957

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DATE	INITIALS	CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: W. D. McMillan

Subject: Docket DMEA 4214 (Copper) Contract Idm-8981, Mercury Uranium and Oil Company, (San Pedro mine), Santa Fe County, New Mexico -- Progress report for December 1956

An examination of progress made under the subject contract during December 1956, was made on January 7, 1957, accompanied by Ray Wood, general superintendent, F. B. Baca, geologist and mining engineer, and Colonel Charles Williams, co-owner of the San Pedro Copper Mine. The pertinent data on the completed holes are given below:

Hole No.	Location N.	Location E.	Bearing	Total depth (feet)	Remarks
1	1905	1302	0, - 90°	50	No ore
2	1920	1309	0, - 90°	50	No ore
3	1800	1400	0, - 90°	50	No ore
9	1135	2125	N.12°E.-75°	80	No ore
10	1120	2125	N.81°W.-65°	125	35.0' ore
14	1103	2190	S.70°E.-70°	150	4.0' ore
4	1020	1820	0, - 90°	226	No ore
7 holes				731	

All holes were drilled with AX bits. Except at the start with drilling done by the company in the first 4 holes, core recovery was over 80 percent.

In addition to core drilling, Hole No. 11 required 3 feet of drifting; Hole No. 14, 5 feet of raising, Hole No. 9, 6.3 feet of raising, and Hole No. 10, 3.25 feet of raising for totals of 3.00 feet of drifting and 14.55 feet of raising.

On MF-104A the operator claims 855.0 feet of core drilling, but the logs of the 7 holes sub-show only 731 feet of core drilling.

Approved costs are for 731 feet of core drilling at $7.50 per foot ($5,482.50), 3.00 feet of drifting at $39.50 per foot ($118.50) and 14.55 feet of raising at $39.50 per foot ($574.78) a total of $6,175.50.

It is recommended that 50 percent of the total, or $3,087.75 be approved for payment. All holes reached the objective of the contract. The operator submitted adequate logs of the 7 holes in quintuplicate and one copy of a location map.

W. D. McMillan
Mining Engineer

cc 6
Idm-R981
Chron.

WDM:ph

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

Budget Bureau No. 42-R1036.5

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

Month of December 1956 Docket No. DMEA 4214 Contract No. IDM-E981
Operator's Name Mercury Uranium & Oil Company Minerals Copper
Address 600 Coal Avenue, S. W., Albuquerque, N. M.
Contract Amount, $ 7105.72 Government Participation: 50 % Amount, $ 3552.86

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:	✓					3/26/57 J. W. [illegible]
Drilling	6412.50	None	6412.50	8/21/57 [illegible]		
Bulldozing						
Crosscutting	✓					
Drifting	118.50	None	118.50			
Raising	574.72	None	574.72			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7105.72	None	7105.72	7105.72	—	7105.72

RECEIVED MAR 18 1957 D.M.E.A.

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

Date 2/14/57 *Payee Mercury Uranium & Oil Co.

Per [signature] Title Geologist & Mining Eng.

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

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

(Instructions on reverse)

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

$ 3552.86

Signature [signature]
(Authorized Certifying Officer)

Date 3/14/57 Vou. No. DMEA 57-100

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Fdm-E-981 in accordance with the terms of the contract.

Signature Leon McMillan #3087.75 Title Min. Engr Date 2/18/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature E. M. Hess Jr. Title Acting Executive Officer Date MAR 12 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED MAR 1 1957 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1956 Docket No. DMEA 4214 Contract No. IDM-E981
Operator's Name Mercury Uranium & Oil Company Minerals Copper
Address 600 Coal Avenue, S. W., Albuquerque, N. M.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Foot	118.50	3.0	118.50	3.0	39.50	350	$ 39.50
Crosscutting								
Raising	Foot	574.72	14.55	574.72	14.55	39.50	100	39.50
Shafts								
Winzes								
Drilling: Core	Foot	6412.50	855.00	6412.50	855.0	7.50	5700	7.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		7105.72		7105.72				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		7105.72		7105.72				$67,650.00

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

Date 2/14/57 Operator Mercury Uranium & Oil Co.

Per F. B. Baca Title Geologist & Mining Eng.

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Wm McMillan

INSTRUCTIONS

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

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

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

GPO 872894

Mercury Uranium and Oil Co.
600 COAL AVE., SW
ALBUQUERQUE, NEW MEXICO

CARL C. ANDERSON, SR.
PRESIDENT

PHONE 2-3040
2-1489

DMEA
DEPARTMENT OF THE INTERIOR
FEB 26 1957
REGION III
DENVER, COLORADO

February 14, 1957

REFER TO:

RECEIVED
1957

Mr. John F. Shaw
United States Bureau of Mines
Room 137, Building 20
Denver Federal Center
Denver 2, Colorado

Re: Docket DMEA 4214 (Copper)
Contract IDM-E981
Mercury Uranium & Oil Company
(San Pedro Mine)
Santa Fe County, New Mexico

Dear Mr. Shaw:

Supplementing our first "Unit Cost and Progress Report", herewith are descriptions of the location and extend of "Raising" and "Drifting" that was done on preparing sites for diamond drill holes.

Hole No.	Coordinates	Drifting	Raising
11	N1070-E2755	3.00 Feet	
14	N1103-E2190		5.00 Feet
9	N1135-E2125		6.30 Feet
10	N1120-E2125		3.25 Feet
Totals		3.00 Feet	14.55 Feet

EXTRA COPY
DMEA
RECEIVED MAR 18 1957

DATE	INITIALS	[illegible]

Very truly yours,

MERCURY URANIUM & OIL COMPANY

F. B. Baca, Geologist & Mining Engineer

Anderson Development Corporation

CARL C. ANDERSON, SR.
PRESIDENT

600 COAL AVE., SW
ALBUQUERQUE, NEW MEXICO
PHONE 2-3040
2-1489

March 8, 1957

REFER TO:

DMEA
DEPARTMENT OF THE INTERIOR
MAR 11 1957
REGION III
DENVER, COLORADO

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

Re: Docket DMEA-4214 (Copper)
Contract Idm-E-981
Mercury Uranium & Oil Company
(San Pedro Mine)
Santa Fe County, New Mexico

Dear Mr. Harshman:

I have your letter of February 28, 1957, regarding omissions and apparent errors in the data submitted with Form MF-104, Operator's Monthly Report and Voucher for December, 1956.

Referring to the numbered items of your letter, we submit the following:

(1) Five copies of narrative reports on Diamond Drill Holes Nos. 1, 2, 3, 4, 9, 10, 14 and 15.

(2) Four copies of the mine map.

(3) Five copies of the log on Hole No. 15. The footage of 125 feet, drilled in this hole, was included in the Monthly Report and Voucher but somehow copies of the log were not sent with the others.

Trusting that this will complete the data sheet you require, I am

Very truly yours,

MERCURY URANIUM & OIL COMPANY

F. B. Baca

F. B. Baca, Geologist & Mining Engineer

FBB:vmj

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 1, 1905 N 1302E, Vertical hole from Surface.

11-22-56	Moved drill rig to site and set it up. Unloaded compressor off of lowboy	4 men	6 hours
11-23-56	Drilled to 3.0 feet with NX bit. Set 3 feet of 2 1/2" pipe. Drilled to 6.0 feet with BX bit.	2 men	9 hours
11-24-56	Two hours reaming 6 feet to set pipe. Drilled from 6.0 feet to 13.0 feet with BX bit.	2 men	9 hours
11-25-56	Drilled from 13.0 feet to 15.0 feet with BXbit. 5 Hours water delay. One hour trying to chop core out of hole.	2 men	9 hours
11-27-56	Seven hours trying to get casing in hole.	2 men	7 hours
11-30-56	Seven hours getting reaming shoe built and setting casing to 15 feet.	2 men	7 hours
12-1-56	Five hours drilling out core. No core recovery. Cemented hole. 4 hours waiting for cement to set.	2 men	9 hours
12-2-56	Five hours drilling out cement and resetting AX casing. 45 minutes cementing hole and pulling AX casing. Drilled from 15.0 to 22.2 feet.	2 men	9 hours
12-3-56	Drilled from 22.2 feet to 31.6 feet. 1 1/2 hour water delay. 4 hours mechanical delay. One hour drilling cement and setting casing.	2 men	9 hours
12-4-56	Drilled from 31.6 feet to 50.0 feet. Bottom of hole.	2 men	9 hours.

No appreciable mineralization was found in this hole as it is apparently too far out on the outcrop to be in the mineral zone.

F. B. Baca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 2, 1920N, 1309E, Vertical hole from surface.

12-5-56	Two hours moving and setting up. Drilled from 0.0 feet to 8.6 feet with NX bit.	2 men	9 hours
12-6-56	Drilled from 8.6 feet to 13.6 feet with NX bit. Set 13.5 feet of BX casing. Core ground up and lost in washings.	2 men	6 hours
12-10-56	Drilled from 13.6 feet to 34.6 with AX bit. Poor core recovery of small fragments.	2 men	9 hours
12-11-56	Drilled from 34.6 to 50.0 feet. Bottom of hole. Core recovery improved from 37 feet to bottom.	2 men	9 hours.

No appreciable mineralization was found in this hole as it is apparently too far out on the outcrop to be in the mineral zone.

F. B. Baca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S.W., Albuquerque, N.M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 3, 1800 N, 1400 E. Vertical hole from Surface.

12-12-56	One hour pulling casing from Holes Nos. 1&2. Two hours moving to Hole No. 3. Drilled from 0.0 feet to 9.0 feet with NX bit. Set 7 1/2 feet of BX casin g.	2 men	9 hours.
12-13-56	Drilled from 9.0 feet to 34.0 feet withAX bit. Set 14 feet of AX casing.	2 men	9 hours
12-14-56	Drilled from 34.0 feet to 50.0 feet with AX bit. Core recovery very erratic. Three hour water delay. Pulled all casing.	2 men	9 hours.

No appreciable mineralization was found in this hole as it is apparently too far out on the outcrop to be in the mineral zone.

F. B. Baca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 4, 1020N, 1820E, Vertical from Surface.

12-15-56	Five hours moving and setting up. 1 1/2 hours repairing hydraulic lines on head after knocking them off on a rock. Drilled from 0.0 feet to 3.0 feet with NX bit. Drilled from 3.0 feet to 12.0 feet with BX bit. Drilled from 12.0 feet to 14.0 feet with AX bit.	2 men	9 hours
12-16-56	Reamed 14 feet and drilled from 14.0 feet to 28.0 feet with BX bit. Set 26 feet of AX casing. Drilled from 28.0 feet to 33.0 feet with AX bit.	2 men	9 hours
12-17-56	Four hour mechanical delay replacing bearing in pump clutch. Drilled from 33.0 feet to 47.0 feet with Ax bit. Ruined one AX bit. About 50% ore recovery.	2 men	9 hours
12-18-56	Drilled from 47.0 feet to 60.0 feet withAX bit. One hour mechanical delay. One hour water delay.	Driller Helper	7 hours 9 hours
12-19-56	Drilled from 60.0 feet to 83.0 feet with AX bit.	2 men	9 hours
12-20-56	Drilled from 83.0 feet to 93.0 feet with AX bit. Burned in bit and broke it off in hole. Good showing of sulfides at 90 feet.	2 men	9 hours
12-21-56	Fished for AX bit without success.	2 men	9 hours
12-22-56	Drilled out burned in bit. Drilled from 93.0 feet to 97.0 feet withAX bit. Lost water at 95.0 feet. Cemented hole.	2 men	6 hours
12-27-56	Five hours changing motors and pumps on drilling rig. 1 1/2 hours water delay. Drilled from 97.0 feet to 103.0 feet with AX bit.	2 men	9 hours
12-28-56	Drilled from 103.0 feet to 133.0 feet with AX bit. Half hour repairing pump and oil line on Ford engine. Fair pysite and chalcopysite showing at 105 feet.	2 men	9 hours

Hole No. 4 - Continued

12-29-56	Drilled from 133.0 to 149.0 feet with AX bit. One hour water delay. Drill motor broke down. Much pyrite.	2 men	9 hours
12-30-56	Drilled from 149.0 to 180.0 feet with AX bit. Half hour water delay. Half hour mechanical delay. Strong chalcopyrite showings at 158 feet and at 171 feet..	2 men	9 hours
12-31-56	Drilled from 180.0 feet to 200.0 feet with AX bit. Good ore recovery. Ground somewhat broken. Half hour water delay.	2 men	9 hours
12-31-56	Second Shift: Drilled from 200 to 225 feet with AX bit. Bottom of hole. Strong chalcopyrite at 202.5 and 218.5 feet.	2 men	9 hours

The occurrence of chalcopyrite at five horizons, though less than commercial in grade and quantity indicates that the mineralization persisted beyond the stopes, as now mined, and that the deeper beds should prove to be productive further in to the north and northwest of this hole.

F. B. Baca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 9, 1135N 2125E, Bearing N12E, Inclination - 75°
Underground Location.

12-28-56	Moved rig in and set up. Drilled from 0.0 feet to 5.0 with BX bit. Set 5' of AX casing.	2 men	8 hours
12-29-56	2 Hours water delay. Drilled pin holes, set pin and tied up casing. Drilled from 5.0 feet to 14.0 feet. Much chaocopysite.	2 men	8 hours
12-29-56	Night Shift: Drilled from 14.0 feet to 30.0 feet with AX bit. Two hours water delay.	2 men	8 hours
12-30-56	Drilled from 30.0 to 35.0 feet with AX core. Two hours packing sump pump. Reset casing.	2 men	8 hours
12-30-56	Evening Shift: Drilled from 35.0 to 58.0 feet with AX bit.	2 men	8 hours
12-30-56	Night Shift: Drilled from 58.0 to 71.0 feet with AX bit.	2 men	8 hours
12-31-56	Drilled from 71.0 feet to 80.0 feet with AX bit. Bottom of hole.	2 men	8 hours

There appears to be possible ore between 8.6 feet and 14.0 feet that should be investigated further by raising and sub-level drifting.

F. B. Bada, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 10, 1120N, 2125E, Bearing N. 81°W, Inclination - 65° Underground Location.

12-21-56	Rig moved in and set up. Drilled from 0.0 feet to 2.0 feet with BX bit.	2 men	8 hours
12-22-56	Drilled from 2.0 feet to 8.0 feet with BX bit. Wore out bit in hard, fractured rock. Drilled pin hole, set pin and hung block.	2 men	8 hours
12-22-56	Second Shift: Drilled from 8.0 feet to 9.5 feet with BX bit. Set 10 feet of AX casing. Drilled from 9.5 feet to 27.0 feet with AX bit.	2 men	8 hours
12-27-56	Drilled from 27.0 feet to 45.0 feet with AX bit. Occasional fine chalcopysite showing.	2 men	8 hours
12-27-56	Second Shift: Drilled from 45.0 feet to 70.0 feet with AX bit. Two trips to water supply to fix pump.	2 men	8 hours
12-27-56	Third Shift: Drilled from 70.0 feet to 88.0 feet with AX bit. Strong chalcopysite from 74.0 feet to 84.0 feet.	2 men	8 hours
12-28-56	Drilled from 88.0 feet to 105.0 feet with AX bit One hour cleaning inner tube. 1.5 hours working on swivel hose and picking up core dropped in hole. High grade chalcopysite showing from 115.5 feet to 123.5 feet.	2 men	8 hours
12-28-56	Second Shift: Drilled from 105.0 feet to 125.0 feet with AX bit. Bottom of hole	2 men	8 hours

The horizons at 74-84 feet and 115-123 feet definitely appear to be ore and should be investigated with access workings.

F. B. Baca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S.W., Albuquerque, N.M.
San Pedro Mine Santa Fe County, N.M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 14, 1103N 2190E, Bearing S70E, inclination - 70°
Underground Location.

12-12-56	Moving in rig and setting up.	2 men	11 1/2 hours
12-13-56	Drilled from 0.0 feet to 7.0 feet with BX bit. Difficulty with alignment.	2 men	9 hours
12-13-56	Second Shift: Drilled from 7.0 feet with BX bit to 10.0 feet. 6 hours resetting column. Set 10 feet of AX casing.	2 men	9 hours
12-14-56	Drilled from 10.0 feet to 14.0 feet withAX bit. Air pressure too low for good operation of drill.	2 men	9 hours
12-14-56	Second Shift: Started to drill and compressor failed with broken thermostat.	2 men	1 hour
12-15-56	Drilled from 14.0 feet to 31.0 feet withAX bit. Much Chalcopyrite showing from 28 feet.	2 men	8 hours
12-15-56	Second Shift: Drilled from 31.0 feet to 50.0 feet with AX bit. Hole caving and blocking core barrel with mud. Poor core recovery in last 9 feet. Chalcopyrite continues to 40.0 feet.	2 men	9 hours
12-16-56	Hole caved at 43 feet and blocked pit. Did not get to bottom of hole.	2 men	8 hours
12-16-56	Second Shift: Plugged core barrel twice trying to drill through core. Went in with chopping bit to clean hole.	2 men	8 hours
12-16-56	Third Shift: Hole still caving from 42 feet to bottom. Washed in 4 times.	2 men	8 hours
12-17-56	Six hours pulling 10 feet AX casing.	2 men	8 hours
12-17-56	Second Shift: Prepared to ream. Placed 20 lbs. of bran in hole. Worked on pump.	2 men	4 hours
12-17-56	Third Shift: Reamed from 10 to 21 feet with BX bit.	2 men	8 hours
12-18-56	Reamed with BX bit from 21 feet to 39 feet.	2 men	8 hours
12-18-56	Second Shift: Reamed from 39 feet to 50 feet with BX bit. Hole ready for casing.	2 men	8 hours

Hole No. 14 - Continued

12-18-56	Third Shift: Washed in 45 feet of AX casing. Hole full of caved material.	2 men	8 hours
12-19-56	Hammering AX casing to bottom of hole.	2 men	8 hours
12-19-56	Second Shift: Drilled from 50.0 feet to 76.0 feet with AX bit.	2 men	8 hours
12-19-56	Third Shift: Drilled from 76.0 to 98.0 feet with AX bit.	2 men	8 hours
12-20-56	Drilled from 98.0 feet to 114.0 feet with AX bit.	2 men	8 hours
12-20-56	Second Shift: Dropped tools. Spent shift recovering and replacing bent rods. Dulled reamer and preparing to drill again.	2 men	8 hours
12-20-56	Third Shift: Drilled from 114.0 feet to 125.0 feet with AX bit.	2 men	8 hours
12-21-56	Drilled from 125.0 feet to 145.0 feet with AX core. Two hours water delay.	2 men	8 hours
12-21-56	Second Shift: Drilled 145.0 feet to 150.0 feet with AX bit to complete hole. Pulled 50 feet AX casing.	2 men	8 hours.

The chalcopysite occurring at 28-40 feet should be investigated by access workings and correlated with the lower occurrences west of the fault.

F. B. Daca, Geologist

MERCURY URANIUM & OIL COMPANY
600 Coal Avenue, S. W., Albuquerque, N. M.
San Pedro Mine Santa Fe County, N. M.

DMEA DOCKET 4214

Drilling Diamond Drill Hole No. 15, 1265N, 2230E, Bearing S80°E, Inclination - 70°
Underground Location.

11-27-56	Setting up drill rig.	3 men	9 1/2 hours
11-28-56	Drilled from 0.0 feet to 18.0 feet with BX bit. In fault gouge. Not solid enought to set casing. Hole caving.	3 men	9 1/2 hours
11-28-56	Second Shift: Drilled from 18.0 feet to 24.0 feet with BX bit. Set 25 feet of AX casing.	2 men	9 hours
11-29-56	Drilled from 24.0 feet to 31.0 feet with AX bit.	2 men	9 hours
11-29-56	Second Shift: Drilled from 31.0 feet to 35.0 feet with AX bit. Casing dropped and had to be re-wired.	2 men	9 hours
11-30-56	Drilled from 35.0 feet to 37.0 feet with AX bit. Stopped drilling when pump delivery became in-adequate.	2 men	5 hours
12-1-56	Moving new rig into mine.	2 men	9 hours
12-2-56	Moving new rig into mine.	2 men	9 hours
12-3-56	Moving 4" pipe into mine	2 men	9 hours
12-4-56	Setting up "Tugger" hoist.	2 men	6 hours
	Drilled from 37.0 feet to 39.0 feet withAX bit.	2 men	9 hours
12-4-56	Second Shift: Drilled from 39.0 feet to 48.0 feet with AX bit.	2 men	5 hours
12-5-56	Drilled from 48.0 feet to 53.0 feet with AX bit.	2 men	9 hours
12-6-56	Drilled from 53.0 feet to 65.0 feet with AX bit. Drilling rate improved but core recovery is poor.	2 men	9 hours
12-6-56	Second Shift:Drilled from 65.0 feet to 71.0 feet with AX bit.	2 men	7 hours
12-9-56	Drilled from 71.5 feet to 80.0 feet with AX bit. 5 hours delay thawing out pump and water lines.	2 men	8 hours
12-9-56	Second Shift: Drilled from 80.0 feet to 91.0 feet with AX bit.	2 men	7 hours

Hole No. 15 - Continued

12-10-56	Drilled from 91.0 feet with AX bit to 100.0 ft.	2 men	9 hours
12-10-56	Second Shift: Drilled from 100.0 feet to 108.0 feet with AX bit. Bit is blocking in fractured ground.	2 men	9 hours
12-11-56	Drilled from 108.0 to 112.0 feet with AX bit. Tee came off casing and had to be replaced.	2 men	9 hours
12-11-56	Second Shift: Drilled from 112.0 to 116.0 feet with AX bit. Tow air pressure and pump trouble.	2 men	8 hours
12-12-56	Drilled from 116.0 to 125.0 feet AX bit. Bottom of hole. Pulled 10 feet of AX casing leaving 15 feet in hole.	2 men	9 hours

F. B. Baca, Geologist

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

224 New Customhouse
Denver 2, Colorado

January 8, 1957

RECEIVED		
DATE		COPIES
1/11	JCJ	110
1/14	aw.	500
III		

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4214 (Copper), Contract Idm-E981
Mercury Uranium and Oil Company (San Pedro Mine)
Santa Fe County, New Mexico - Progress for November, 1956

Enclosed are two copies of a memorandum dated December 31, 1956, from D. E. Redmon, Mining Engineer, U.S. Bureau of Mines, covering progress under the subject contract during November, 1956.

No drill holes were completed to the contract objective; therefore, no monthly report and voucher were submitted by the Operator.

Original signed by
W. M. TRAVER

W. M. Traver

Enc.
JDC:bh

cc-Harshman) with
Shaw (2)) copy
Townsend) of
Corres. File E-981) Redmon's
MF-104 File E-981) memo.
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center
Denver 2, Colorado
December 31, 1956

DMEA
DEPARTMENT OF THE INTERIOR
JAN 8 1957
REGION III
DENVER, COLORADO

REGION III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: D. E. Redmon

Subject: Docket DMEA 4214 (Copper) Idm-E981, San Pedro Mine, Mercury Uranium and Oil Co., Santa Fe County, New Mexico - Inspection of progress for November 1956 and contract amendments

An inspection of the property was made December 6, 1956, by D. E. Redmon, U. S. Bureau of Mines, with W. L. Emerick and J. N. Faick, U. S. Geological Survey, accompanied by Roy C. Wood, Mining Superintendent.

Diamond drill stations are being cut underground and drilling is in progress, but no claims will be submitted for November because there are no completed holes.

Hole relocations and contract changes on the above docket are discussed in a joint Redmon, Faick and Emerick memorandum to W. M. Traver.

D. E. Redmon
D. E. Redmon
Mining Engineer

DER:ph

cc 9