E-963

For royalty payment of $1.08, dated June 29, 1965, see transmittal letter file.

NOV 20 1964

Mr. Eugene B. Hotchkiss
Executive Vice President
Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Re: DMEA-4162 (Uranium)
Vitro Minerals Corporation
George and Ver Claims
Fremont County, Wyoming
Contract Ida-E963

Dear Mr. Hotchkiss:

Thanks for your letter dated November 16, 1964, explaining that the royalty payment related to ore which was stockpiled prior to May 17, 1963, and included in the sale of certain mining properties to Federal-Radorock-Gas Hills Partners on that date. This is the first information we had regarding any production and stockpiling of ore by your company.

I gather from your letter that approximately 23,562 tons of ore were in the stockpile, that royalty has now been computed and paid on approximately 11,000 tons, and that royalty will be calculated and paid on the remainder when the ore has been weighed and assayed.

It appears that the computation of value of the ore and the royalty payable on the basis of AEC Circular No. 5 is fair and equitable and such basis of computation is acceptable to the Government with respect to the stockpiled ore.

When Federal-Radorock-Gas Hills Partners start mining from the property we will expect the royalty to be computed on the value of "yellow cake".

Sincerely yours,

George Fumich, Jr.

Acting Director

cc: Federal-Radoroc -Gas Hills Partners
520 East Main Street
Riverton, Wyoming

CEFisher/ama 11-19-64

cc: Docket
Director's Reading File
CA & A Division
Region III (w/cy of inc. ltr.)

MINERALS CORPORATION

[illegible] NEW YORK N.Y. 10016 • MURRAY HILL 2-5700

VITRO MINERALS CORPORATION

To: Mr. George F mich, Jr. November 16, 1964

Federal-Radorock-Gas Hills Partners had weighed and assayed this ore and submitted the data necessary from these measurements to permit calculation of the royalty. That is why we obtained from them settlement sheets which we believed to be the correct basis for establishing the amount owing [illegible] subject DMEA contract.

As confirmatory evidence of the fact that this ore was produced prior to May 17, 1963, I am attaching a transmittal letter from Federal dated October 12, 1964, which enclosed the copies of the above-mentioned settlement sheets, stating that all ore fed to process came from the stockpile existing at the time of our purchase agreement.

I would appreciate your acknowledgement of the fact that our recent remittance of $3,781.03 has been correctly computed.

Very truly yours,

VITRO MINERALS CORPORATION

EBH/is
enc.

Eugene B. Hotchkiss
Executive Vice President

cc: Federal-Radorock-Gas Hills Partners
Mr. L. B. Grube

C
O
P
Y

Federal-Gas Hills Partners
1370 South Third West Street
Salt Lake City, Utah

October 12, 1964

Mr. Eugene B. Hotchkiss
Executive Vice President
Vitro Minerals Corporation
90 Park Avenue
New York City, New York 10016

Dear Gene:

We have received correspondence from the OME (copies enclosed) relative to the royalty due under the DMEA-4182 (Uranium) contract applicable to the production from the George and Ver claims in Fremont County, Wyoming. These claims are part of the properties we acquired from Vitro Minerals Corporation in the agreement of May 8, 1963.

For your convenience, we quote the provisions of the aforementioned agreemant (Article Four, page 20): "The Seller will indemnify the Buyer against and hold it harmless from any liabilities or obligations arising under the DMEA loan relating to the Stock Pile Ore located on the George claim."

All ore fed to process has come from the stockpile acquired under the purchase agreement. We have not mined any ore from the George claims since our acquisition.

We enclose copies of Settlement Sheets of the ore which has been fed to process to date. These Settlement Sheets are priced at Circular 5, which we assume to be the basis of computing the OME royalty.

If there is additional information you require, we will be pleased to be of further service.

Very truly yours,

's' Donald V. Peters

Donald V. Peters
Secretary-Treasurer

DVP:mb
Enclosures

Mr. L. B. Grube
Assistant Controller
Vitro Minerals Corporation
Indiana, Pennsylvania

NOV 5 - 1964

Re: DMEA-4182 (Uranium)
Vitro Minerals Corporation
George and Ver Claims
Fremont County, Wyoming
Contract Idm-E963

Dear Mr. Grube:

Thanks for the remittance of $3,781.03 representing royalty on uranium ore produced from the property covered by the above referenced exploration contract received with your letter dated October 26, 1964, to the Acting Field Officer, OME Region III, Denver, Colorado. The amount has been applied in partial liquidation of your Company's obligation under that contract, leaving a balance due of $21,953.20 as stated by you.

The information accompanying your letter indicates that the production was made subsequent to May 17, 1963, the date of sale of the mining claims to Federal-Radorock-Gas Hills Partners. Our information is that this partnership operates a mill and sells "yellow cake" to the Atomic Energy Commission.

Your attention is directed to Article 8(c) of the exploration contract which provides that the Government's royalty shall be a percentage of the gross proceeds from the production sold, in the form sold, which is "yellow cake" in this instance.

Please make a recomputation of the amount of royalty due to the Government based on the value of "yellow cake" produced from the ore, forward your check for the amount of the additional royalty, and arrange to make future royalty payments on the basis of value of "yellow cake".

CEFisher/ama 11-4-64

Sincerely yours,

George Fumich, Jr.

Acting Director

cc:
Docket
Director's Reading File
CA & A Division
Region III
Mr. Fred Heil, Office Manager
Federal-Radorock-Gas Hills Partners
520 East Main Street
Riverton, Wyoming

November 4, 1964

Memorandum

To: Files

From: Auditor, Contract Admin. and Audit Division /s/ C. E. Fisher

Subject: DMEA-4182 (Uranium)
Vitro Minerals Corporation
George and Ver Claims
Fremont County, Wyoming
Contract Idm-E963

With a letter dated October 26, 1964, L. B. Grube, Assistant Controller, Vitro Minerals Corporation, Indiana, Pennsylvania, forwarded Vitro Minerals & Mining Corp. check for $3,781.03 representing royalty on uranium ore produced from the George and Ver claims, Fremont County, Wyoming, under the subject contract. Accompanying this letter was a statement showing the computation of the royalty together with 5 so-called "Settlement Statements" covering the 5 months (June, July, and August 1963, and May and June 1964) when the production was accomplished. The forms on which these statements were prepared bear the heading Federal-Gas Hills Partners.

The statement for June 1963, Liquidation No. 1 Supplemental, shows Vitro Minerals as the seller of 2,947.2715 SDT of ore containing 0.228 percent U_3O_8, taken from storage, and having a value of $54,933.31. Liquidations Nos. 2 through 5 show Federal-Gas Hills Partners as seller of much lower grade ore with U_3O_8 contents of 0.153%, 0.1277%, 0.110%, and 0.084%, respectively.

The letter of October 26, 1964, indicates that future royalty payments will be made by Vitro on the same basis, that is, based on the value of ore.

In response dated October 22, 1963, on MME Form 63, the Controller of Vitro advised as follows:

> "Property was sold on May 17, 1963 to Federal-Radorock-Gas Hills Partners, 1370 South 3rd West Street, Salt Lake City, Utah. We have only one copy of the instrument covering the sale, which is a large bound book containing several hundred pages. We suggest that you have a representative of your office visit us to inspect this instrument."

I am informed by Mr. Charles T. Baroch, USBM, that Federal-Radorock-Gas Hills Partners operates a mill in Fremont County and is selling "yellow cake" to AEC under a contract running through 1966. Thus it would appear that the Government's royalty should be based on the value of "yellow cake".

A review of royalty settlements currently being made in connection with Contract Idm-E1115, DMEA-4713, now operated by Union Carbide indicates that company is mining and processing low-grade uranium ore from Fremont County property and is selling "yellow cake" to AEC and is paying royalty based on the value of the "yellow cake". Their reported recovery factor has been around 88% to 92% and the price is $8.00 per pound of yellow cake.

Mr. Baroch stated that he would consider an 85% recovery factor by Federal-Radorock-Gas Hills Partners to be a "fair rule of thumb estimate". On this basis it would seem that substantial additional royalty is due in connection with the 5 liquidations already reported as follows:

Liq. No.	SDT Ore	U_3O_8 %	U_3O_8 Lbs. in ore	Yellow Cake (85%)	Value at $8.00 lb.	Value per SDT	Royalty Rate	Royalty Amount
1	2,947.27	0.228	13,426.13	11,412.21	$ 91,297.68	$30.98	5%	$ 4,564.88
2	2,567.17	0.153	7,856.59	6,678.10	53,424.80	20.81	5%	2,671.24
3	2,217.60	0.1277	5,665.13	4,815.36	38,522.88	17.37	5%	1,926.14
4	2,495.86	0.110	5,492.40	4,668.54	37,348.32	14.96	5%	1,867.42
5	777.59	0.084	1,310.14	1,113.62	8,908.96	11.46	4½%	400.90
Totals	11,005.49	0.153	33,750.39	28,687.83	$229,502.64			$11,430.58
		Av.		Royalty paid				3,781.03
				Balance of Royalty Due (Estimated)				$ 7,649.55

Inasmuch as I have not seen the contract covering the sale of the property, I do not know what, if any, reservation may have been made as to ore mined and stored prior to the sale. Thus, it is possible that the "sale" covered by liquidation No. 1 may have been an actual sale of ore by Vitro to the new owners. The property is reported to have changed hands on May 17, 1963, and liquidation No. 1 is shown as relating to the period of June 1963. If Vitro can show that an actual sale of ore was made, the royalty paid in connection with that liquidation is correct and the additional royalty due should be reduced $1,818.26 ($4,564.88 minus $2,746.62).

CEFisher/ama 11-4-64

cc:
Docket
Director's Reading File
CA & A Division

E-963

For royalty payment of $3,781.03, dated October 30, 1964, see transmittal letter file.

[illegible]

[illegible]

[illegible]

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E965, Docket DMEA-4182 (uranium) dated June 14, 1956, with

Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah
and
261 Madison Avenue
New York 16, New York

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the George and Ver Group of claims located in Fremont County, Wyoming, during the period June 18, 1959, through June 14, 1962.

A certification of discovery or development was issued on September 30, 1957, and, in accordance with Article 8 and Amendment No. 2 of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 11 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated October 17, 1957, indicated accepted costs under the exploration contract amounting to $34,312.32 with the Government's contribution on a 75 percent basis being $25,734.23.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review established no sales subject to the Government's royalty subsequent to the period covered by a prior Report of Royalty Review which also found no sales subject to the Government's royalty through June 17, 1959. Accordingly, as of June 14, 1962, the royalty account of this project was found to be:

Total Royalty Payable	$ -0-
Total Royalty Paid	-0-
Balance of Royalty Due	$ -0-

E. D. Talbert, OME Auditor

July 25, 1962

Idm-8965 Vitro Minerals Corporation DMEA-4182

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

This contract provides that the Operator, as principal if the producer or as surety if not the producer, shall pay to the Government a percentage royalty on all minerals produced from the land thereunder. The land consists of 18 unpatented claims (George 1 through 7 and Var 1 through 11) situated in secs. 22, 26, and 27, T. 53 N., R. 90 W., 6th Principal Meridian, Gas Hills Mining District. At the time the contract was executed the Operator was in possession by virtue of ownership of an undivided one-half interest in each group of claims and pursuant to agreements with the other owners. In consideration of the contract Consents to Lien were executed by the other owners.

Exploration work under the contract was concluded on May 15, 1957, and formally terminated by an agreement dated August 21, 1957. No ores were produced during the exploration period. Inspections of the property by DMEA Field Team representatives during 1957, 1958, and 1959 disclosed no work on the property other than additional exploratory drilling by the Operator.

The Operator has submitted reports, over the signature of its controller, that "no ore has been mined from the claims covered by the contract" at six-month intervals. The last such report, by letter dated June 18, 1962, covered the period ending June 14, 1962.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) The files contain no indication of production from the property under the contract; and

(2) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

Building 20 - Federal Center
Denver 25, Colorado

EXTRA COPY
O. M. E
RECEIVE UG 2 62
800

July 30, 1962

Memorandum

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

From: Acting Field Officer, OME, Region III

Subject: DMEA-4182 (Uranium)
Contract Idm-E963
Vitro Minerals Corporation
(George and Ver Group of Claims)
Fremont County, Wyoming

Attached is the original Report of Royalty Review on the subject contract dated July 25, 1962 covering the period June 18, 1959, through June 14, 1962.

Original signed by

Hugh M. Connors

Attachments

HMC/lm
cc Chief, Division of Field Operations, OME
E. D. Talbert, Acting Chief
Contract Administration and Audit Division
Royalty Corres E963
Chron

JUL 27 1962

Memorandum

To: Acting Field Officer, Region III

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

Subject: DMEA-4182 (Uranium)
Vitro Minerals Corporation
George and Ver Group of Claims
Fremont County, Wyoming
Contract Idm-8963

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

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington 25, D. C.; and

(b) One copy for your files.

This Report of Royalty Review is made for record purposes only; therefore, no copy for the Operator is provided.

As evidence of your concurrence, a copy of your memorandum transmitting the original report to the Fiscal Section should be furnished this Division. If for any reason you do not concur, both copies of the report should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 6-27-62

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

Vitro MINERALS CORPORATION
261 MADISON AVENUE • NEW YORK 16, N. Y. • MURRAY HILL 2-5700

December 15, 1960

OME
DEPARTMENT OF THE INTERIOR
1 1960
REGION III
DENVER, COLORADO

Mr. William H. King, Executive Officer
DMEA Field Team
Region III
224 New Customhouse Building
Denver 2, Colorado

RE: Docket No. DMEA-4182 (Uranium)
Contract No. Idm-E963
George and Ver Claims
Fremont County, Wyoming

Dear Mr. King:

We hereby report that no ore has been mined from the claims covered by the contract noted above for the period June 15, 1960 to December 14, 1960.

Very truly yours,

D. R. Pickard
Controller

DRP:mkk

EXTRA COPY
O. M. E
RECEIVED DEC 27 1960

DATE	INITIALS	CODE
		800

W.O. 2

VITRO MINERALS CORPORATION
261 MADISON AVENUE • NEW YORK 16, N. Y. • MURRAY HILL 2-5700

June 23, 1960

OME
DEPARTMENT OF THE INTERIOR
JUN 21 1960
REGION III
DENVER, COLORADO

Mr. William H. King, Executive Officer
DMEA Field Team
Region III
624 New Custombouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4182 (Uranium)
Contract No. Idm-E963
George and Ver Claims
Fremont County, Wyoming

Dear Mr. King:

We hereby report that no ore has been mined from the claims covered by the contract noted above for the period December 15, 1959 to June 14, 1960.

Very truly yours,

D. R. Pickard
Controller

DRP:mkk

Chief, Div. of Field Operations (2)

EXTRA COPY
O. M. E
RECEIVED JUN 23 1960

DATE	INITIALS	CODE
		800

Vitro MINERALS CORPORATION
261 MADISON AVENUE • NEW YORK 16, N. Y. • MURRAY HILL 2-5760

December 15, 1959

OME
DEPARTMENT OF THE INTERIOR
DEC 21 1959
REGION III
DENVER, COLORADO

Mr. William H. King, Executive Officer
DMEA Field Team
Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4182 (Uranium)
Contract No. Idm-E963
George and Ver Claims
Fremont County, Wyoming

Dear Mr. King:

We hereby report that no ore has been mined from the claims covered by the contract noted above for the period June 15, 1959 to December 14, 1959.

Very truly yours,

D. R. Pickard
Controller

DRP:mkk

Chairman (2)

EXTRA COPY
O. M. E
RECEIVED DEC 23 1959
DATE | CODE
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OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, OME Field Team, Region III, Denver, Colorado pertaining to Contract 10m-5963, Docket No. DMEA 4182, dated June 14, 1956, with

Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah

for the purpose of determining the amount of royalties due the U. S. Government on the sales of Uranium, from property referred to as George and Ver Claims, located in Fremont County, Wyoming, during the period June 14, 1956 to June 17, 1959.

A Certification of Discovery or Development was issued on September 30, 1957, and accordingly royalty is payable on all production from the land described in Article 2 of the contract for a maximum period of 11 years from the date of the contract. A Report of Review in lieu of Final Cost Audit dated October 17, 1957, indicated accepted costs under the exploration contract amounting to $34,318.32, with the Government's contribution on a 75 percent basis being $25,754.23.

No royalty has been paid to the Government to date in connection with this contract.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(a) According to the Field Team's Semi-Annual Report of certified project for the period January 1 to June 30, 1957, operation ceased about May 31, 1957; no ore has been shipped since June 14, 1956, (the date of the exploration contract). Subsequent semi-annual reports of Field Team during the period July 1, 1957 to December 31, 1958, indicate the property inactive and no operations or ore shipments are anticipated in 1959.

(b) The administrative costs to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

June 17, 1959

JUN 22 1959
O.M.E.

Donald T. Finch
Donald T. Finch
OME Auditor

JUN 23 1959

Memorandum

To: Mr. Donald T. Finch, OME Auditor

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

Subject: Docket No. DMEA-4182 (Uranium)
Vitro Minerals Corporation
Contract No. Idm-8963

Your Report of Royalty Review on the subject contract is acceptable and distribution of the regional copies is authorized.

EDTalbert/ama
June 22, 1959

Copy to: Docket
Director's Reading File
Code 800

OFFICIAL FILE COPY
DMEA
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10/21	GB	220

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah

pertaining to Exploration Project Contract No. Idm-E963, Docket No. DMEA-4182, including Amendments Nos. 1 and 2, for the months of July, 1956 to May, 1957, covering a project for the exploration of Uranium on property known as George and Ver Claims located in Fremont County, Wyoming.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer, DMEA Field Team, and a determination of the reasonableness and propriety of the costs.

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

(a) the administrative cost to the Government of an audit would be excessive in relation to the estimated amount of possible disallowance thereunder;

(b) the Monthly Reports were supported by documentary proof of the costs claimed under the contract provisions for contribution by the Government on the basis of actual costs incurred;

(c) a major portion ($27,490.86) of the costs incurred covered work performed at unit rates under independent contract; and

(d) the balance ($6,821.46) of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs for work actually performed.

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

Total cost as billed by Contractor		$35,006.78
Exceptions: (Schedule attached)		
By DMEA Finance Officer	$694.46	
Herewith	0.00	694.46
Total Accepted Cost		$34,312.32

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Twenty-five thousand, seven hundred thirty-four and 23/100ths Dollars

** $25,734.23 **

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

T. H. Brading

ber 17, 1957

T. H. Brading, Auditor

SCHEDULE OF EXCEPTIONS

VITRO MINERALS CORPORATION

Contract No. Idm-E963 | Docket No. DMEA-4182

JULY, 1956

Hole No. 37-28.5 was drilled to a depth of 255 feet, which was beyond the potential ore-bearing zone 91 feet. Disallowed footage begins at 164 feet, the first recorded lithologic change below the radio active zone record by the Babbel probe.

Disallow 91 feet @ $0.493 per foot	$44.86
Disallow incidental allowance for 91 feet @ $0.09 per foot	8.19
Total amount to be disallowed - July, 1956	$53.05

FEBRUARY - MARCH, 1957

STAGE II

Seven Stage II holes reported during the period were later redrilled to greater depth during this same period, and cost of drilling was claimed for both original drilling and later redrilling. The redrilling costs are accepted and cost of original drilling disallowed as follows:

HOLE NO.	ORIGINAL DRILLING
40 - 34.5	180
40 - 31.5	185
40 - 28.5	185
41.5-33	180
38.5-31.5	185
34 - 31.5	180
41.5-30	185
Total Excess Footage	1,280

Disallow invoice cost for above 1,280 feet	$496.32
Incidental allowance @ $0.09 per foot for above 1,280 feet	115.20
Total amount to be disallowed February-March, 1957, Stage II	$611.52

STAGE III

Amount claimed on MF-104 - Drilling Cost	$10,777.39
Amount shown on Drilling Reports	10,747.50
Error in claim - Excess	$ 29.89

SUMMARY

July, 1956		$ 53.05
February-March, 1957	Stage II	611.52
February-March, 1957	Stage III	29.89
Total Disallowed		$694.46

Disallowances made by Finance Officer; approved by Auditor.

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

October 16, 1957

Memorandum

To: T. H. Brading, DMEA Auditor

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

Subject: Docket DMEA-4182 (Uranium) Contract Idm-E963, Vitro Minerals Corporation (George and Ver claims) Fremont County, Wyoming

With respect to our recent discussions on the subject contract, it is my opinion that the average drilling cost of 40.568 cents per foot is fair and acceptable. This cost is far below the 70 cents maximum allowed under the subject contract and much below the unit costs of $1.13 per foot allowed under Contract Idm-E946, and $1.00 per foot allowed under Contract Idm-E1115. The latter two cost figures include incidental allowances.

Drilling under the three contracts was in similar material and holes were drilled to comparable depths.

In view of above facts, it is my opinion that it should be unnecessary to request the Operator to furnish copies of the nine drilling sub-contracts.

E. N. Harshman

E. N. Harshman

ENH:jy

cc: Townsend
Corresp. E963
MF-104 file
Chron.

Mr. Thomas N. Breding
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Report of Review
Vitro Minerals Corporation
Docket No. DMEA-4182
Contract No. Idm-2963

Dear Mr. Breding:

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

Sincerely yours,

S

Jay L. Chambers, Director
Contract Administration
and Audit Division

EDTalbert/wb
October 21, 1957

Copy to: Docket
Admr. Reading File
Mr. Chambers

Mr. Thomas H. Breding
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Vitro Minerals Corporation
Docket No. DMEA-4182
Contract No. Idm-E963

Dear Mr. Breding:

In reply to your letter of September 30, 1957, regarding the audit of the above-cited project, I am in hardy agreement with your suggestion with one additional point. It would be much better, and I would say almost necessary, to have a copy of the contract between the operator and the independent subcontractor.

I have prepared a "Memorandum of Explanation" which will be sent to the Field Team about October 5th. You will be furnished a copy of this memorandum.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Director
Contract Administration
and Audit Division

JLChambers/wb
October 2, 1957

Copy to: Docket
Admr. Reading File
Mr. Chambers

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

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 2 1957

DATE	INITIALS	CODE
1/2		226
		28

September 30, 1957

Mr. J. L. Chambers, Director
Contract Administration and Audit Division
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Vitro Minerals Corporation
Docket DMEA-4182, Contract Idm-E963

Dear Mr. Chambers:

In connection with the preliminary examination of the subject company's records here in the office, the following facts were noted:

1. The contract provides for non-core drilling at 70¢ per foot.

2. The drilling contracts to the independent drillers were awarded and invoices billed on a time and material basis.

The first month, which was July, 1956, the following documentation was attached:

Invoice, Rupert Drilling Company

Total drilling hours 94.5 @ $15.00/hr	$1,417.50
Travel time 8 hours @ $10.00/hr.	80.00
Bits, 2 Billwhite @ $22.50	45.00
Total amount of invoice	$1,542.50
Supplies, bran and sawdust from interoffice memo	20.00
Food, diamond drill crew by Vitro (Vitro memo)	52.00
Total	$1,614.50

Total charged by Operator, cost per foot 0.493 - $1,604.72

For subsequent months the only documentation attached was captioned, "Interoffice Memorandum," which shows the following information: Date, Hole No., Footage, Drill Time, Travel Time, Drill Bits, Bran, Sawdust, etc. - Total Footage Drilled, Number of Holes, Average Depth, Total Direct Drilling Cost, and Cost per Foot. This document is signed by the driller and approved by the geologist in charge for Vitro Minerals Corporation.

I did not feel that this was sufficient documentation and asked Mr. Townsend, Alternate Acting Executive Officer, to obtain copies of the drillers invoices from the Operator.

Friday afternoon Mr. Horton, Assistant Secretary of Vitro Minerals Corporation, to whom this request was addressed, called and protested the request and stated that it would be very difficult to obtain copies of all these invoices as they had been sent to the accounting department of the main office, which is the home office of Rochester and Pittsburgh Coal Company, joint owner of Vitro, located in Indiana, Pennsylvania. Mr. Horton explained that the interoffice memorandum was the basis for their cost records and represented the actual cost of the DMEA project work.

Due to their diversified activities, in many instances the drillers were also doing drilling on Vitro projects other than DMEA, and often showed charges to company drilling as well as to DMEA. In other words, in order to check out the cost to DMEA it would be necessary to go back to the interoffice memo to determine the footage, hours, and materials used on work actually performed for DMEA. Another fact brought out was that supplies used are obtained on requisitions which are approved approximately once a month and that it would be almost impossible to obtain invoices showing the cost of the supplies used.

I asked Mr. Horton if it would be possible for us to make an on-site audit at Riverton, Wyoming, which is the location of the Gas Hills district office of Vitro Minerals Corporation. He advised me that this would not be possible as all original records, as stated before, are in the offices of the Rochester and Pittsburgh Coal Company at Indiana, Pennsylvania.

In giving consideration to this problem, will you please make a check of the interoffice memorandum attached to the copy of the MF-104 in your office.

It will be noted that in some instances direct billing cost by foot shown on the interoffice memorandum, is in excess of 70¢ due to the fact that charge for bits and supplies are arbitrarily assessed against the holes as reported, whereas a portion of the cost should be allocated to subsequent holes. This point is borne out by the fact that the overall cost of 67,794 feet of non-core drilling is $0.40568 per foot, which is considerably less than the 70¢ allowed in the contract.

In view of the fact that the Executive Officer accepted the interoffice memorandum as good and sufficient documentation, and that as a matter of fact, it is the basis for cost records of the company, would you be willing to authorize me also to accept this evidence as proper documentation?

Your counsel and advice in the matter will be appreciated.

Very truly yours,

T. H. Brading

T. H. Brading, DMEA Auditor

Dma 58-54

224 New Customhouse
Denver 2, Colorado
October 29, 1957

Memorandum

To: T. A. Christensen

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

Subject: Docket DMEA-4182 (Uranium) Contract Idm-E963
Vitro Minerals Corporation (George and Ver claims)
Fremont County, Wyoming - FINAL PAYMENT

Reference is made to our memorandum of July 12, 1957, whereby we transmitted the Final Form MF-104, Operator's Monthly Report and Voucher, for the month of May, 1957, and requested that you withhold the amount of $500.00 from reimbursement to the Operator, pending resolution of matters prerequisite to closing the account.

The Operator's final report has been received, therefore, we recommend that final payment to the Operator be made on the following basis, which is in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, dated October 17, 1957:

Basis for Final Payment:

Total accepted costs	$34,312.32
Government participation at 75%	25,734.23
Total prior payments	25,234.23
Balance due the Operator	$ 500.00

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

JDC:hmm
cc: Chmn. Op. Comm. (2)
Harshman
DMEA, DFC
Townsend
Corres.file,Reg.III
MF-104 file,Reg.III
Chron

Paid $500.00
RRC
Robert R. Cooper
Authorized Certifying Officer
DMA 58-54

Form MF-104 (Rev.) (April 1962)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1957 Docket No. DMEA 4182 Contract No. I dm 5963

Operator's Name Vitro Minerals Corporation Minerals Uranium

Address Riverton, Wyoming

Contract Amount, $64,816.00 Government Participation: 75 % Amount, $48,612.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	4638.50	24,423.43	28,061.93			
Bulldozing						
Crosscutting						
Drifting						
(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	45.00	675.00	720.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Incidentals	1414.53	4810.32	6224.85			
	6098.03	28908.75	35006.78	6098.03		
TOTALS				6098.03	28,908.75	35,006.78
				1-694.46		694.46
					28,214.29	34,312.32

RECEIVED JUL 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 June 14, 1957 *Payee Vitro Minerals Corporation

R. D. Adamson

Per R. D. Adamson Title Ass't. Division Geo.

*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: Withhold 500.00

4-Previously Deducted

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

$ 4073.52

Signature

(Authorized Certifying Officer)

Date 7/15/57 Voucher DMA 58-5

(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. Ilm E 963 in accordance with the terms of the contract.

Signature E O Bmyr ($4573.52) Title Mining Engineer Date 6-28-57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W H King Title Executive Officer Date JUL 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 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1957 Docket No. DMEA 4182 Contract No. Idn E963

Operator's Name Vitro Minerals Corporation Minerals Uranium

Address Box 67, South Salt Lake City, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling ~~Core~~ Plug, air ~~Churn~~ & water	Ft.	4638.50	15.717	28061.93	69165	0.405	76130	$0.70
Auger								
~~Stripping~~ Fluorometric ~~Trenching~~ Assays	Sample	45.00	36	720.00	576	1.25	1850	1.25
Test Pits								
Roads and Trails								
Incidentals	Feet	1414.53	15.717	6224.85	69165	.09	59470	.09
TOTAL DISTRIBUTED COSTS		6098.03		35006.78				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		6098.03		35006.78				

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

REMARKS:

Date June 14, 1957 Operator Vitro Minerals Corp.

Per R. D. Adamson Title Ass't. Division Geo.
R. D. Adamson

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 JUL 18 1957 D.M.E.A.

INSTRUCTIONS

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

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

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

GPO 872894

FINAL DISTRIBUTION

MADE JUL 16 1957

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III
224 Post Custom House, Denver 2, Colorado
Administrative Audit Difference Statement

Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah

Date: July 15, 1957
Payee's Reference: May 1957

Gentlemen:

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

Amount Claimed $ 6,098.03

Difference $

Amount Approved $ 6,098.03

The reason for the difference was due to:

Withhold $500.00 pending resolution of matters which are prerequisite to closing the account.

OFFICIAL FILE COPY
D M E A
RECEIVED JUL 18 1957

DATE	INITIALS	CODE
7/18	C	220
7/18	Com	100
		800

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

ORIGINAL FILE COPY DMEA RECEIVED JUL 18 1957		
DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

July 12, 1957

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4188 (Uranium), Contract No. 1[illegible]-2963, Vitro Minerals Corporation (George and Ver claims), Fremont County, Wyoming - Operator's Monthly Progress Report for the month of May, 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. Payment is recommended on the following basis, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Withhold an amount of $500.00 from reimbursement to the Operator, pending resolution of matters which are prerequisite to closing the account. The Operator has completed all of the currently approved work, and has indicated in the narrative report that the contract is considered to be completed.

Note: As indicated in the engineer's report, the Operator made a typographical error on Form MF-104 under "Amount Previously Reported" for drilling. The error is not reflected in the totals at the bottom of the Form, which totals are in agreement with our records, except that adjustment has not been made by the Operator for the amounts disallowed from previous vouchers.

REMARKS

Date of Report	June 14, 1957
Date Received in Field Office	June 17, 1957
Date Received in Region Office	July 2, 1957

Reason for Delay: Narrative report returned to Operator for signature.

Original signed by
W. H. KING
W. H. King
Executive Officer, DMEA
Field Team, Region III

JBC:prl
cc: MF-104 File 2963
Sec.Op.Comm.-2
DMEA/DFC
Burnham } w/copy of engr's. report
Townsend }
Chron.

DMEA
DEPARTMENT OF THE INTERIOR

JUL 3 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
July 1, 1957

REGION III

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 10 1957
DATE | INITIALS | CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. O. Bigyan

Subject: Docket DMEA 4182 (Uranium) Contract Idm-5963, Vitro Minerals Corporation, (George and Ver claims) Fremont County, Wyoming Progress report for May 1957.

A field inspection was made of the work completed during the period on May 16, 1957.

Locations and depths of the holes are as reported in the operator's report. No check of the cuttings could be made because of weather. The probe readings as reported are assumed to be correct.

As reported, 8 holes were found to contain ore grade material (0.10 percent U_3O_8) over thickness ranging from 2 to 21 feet but averaging 6.8 feet. The ore grade material apparently occurs at three different horizons; one at elevation 6,348, another at 6,305 to 6,315 and 6,259 to 6,286. The ore holes are listed below:

Hole No.	Elev. Collar	Top of Ore	Interval feet	Thickness feet	Probe Results % eU_3O_8	Chem. Assays % U_3O_8
25.75 30	6488	6348	138 142	4	.10	.05
31 41.25	6481	6259	222 229	7	.12	.04
40.75 28.5	6458	6286	174 176	2	.12	.02
40.29.25	6457	6297	160 167	7	.10	
39.25 30	6456	6315	143 147	4	.15	.03
		6305	153 174	21	.12	.04
40 32.5	6461	6276	185 190	5	.10	.02
40 33.75	6465	6273	192 195	3	.25	
40 35.25	6465	6264	201 204	3	.22	.02

In checking the MF 104 and MF 104A forms a typographical error of $1000.00 is noted in the drilling cost under "Totals Previously Reported," the figure should be $23,423.43 and the correct total for this column is $28,908.75. The operator has also failed to deduct both the footage and amounts disallowed in the July 1956 and the February March 1957 Progress Reports. In the following the correct totals both footage and dollars as of this report are shown.

	Costs this month	Units this month	Costs to date	Units to date	Unit Cost to date
Drill.	$4,638.50	15717	$27,490.86	67794	$ .4056
Assays	45.00	36	720.00	576	1.25
Incidental Allowance	1,414.53	15717	6,101.46	67794	.09
Total	$6,098.03		$34,312.32		

	Monthly Total	Correct previous Totals	Correct Totals to date
Drill.	$4,638.50	$22,852.36	$27,490.86
Assay	45.00	675.00	720.00
Incidental Allowance	1,414.53	4,686.93	6,101.46
Totals	$6,098.03	$28,214.29	$34,312.32

The Correct previous totals for drilling and incidental allowance are obtained as follows:

Drilling	$23,423.43	
Footage 91 ft. at .493/ft.	-44.86	Disallowed
	$23,378.57	
Error in Cost	-29.89	Deducted
	$23,348.68	
Footage 1,280 ft. at 383/ft.	-496.32	Disallowed
	$22,852.36	
Incidental Allowances		
	$ 4,810.32	
Less 91 ft. at .09/ft.	- 8.19	Disallowed
	$ 4,802.13	
Less 1,280 ft. at .09/ft.	- 115.20	Disallowed
	$ 4,686.93	

The correct footage under Units to Date is 67794.

An error is noted in the total number of holes reported on the weekly drill report by UMX from 4/29/57 to 5/3/57. The total number of holes drilled is 17 instead of 18 as reported.

Expenditures for drilling and analyses are properly documented and it is recommended that the operator be paid $4,573.78 or 75 percent of the $6,098.03 expended.

As the work covered by the operator's report completes the work under the contract it is suggested that $500 of the amount be withheld pending receipt of the final report.

E. O. Bingham
Mining Engineer

cc: 6
Idm-8963
Chrom.

Vitro MINERALS CORPORATION
FIRST AND MONROE STREETS • RIVERTON, WYO. • TELEPHONE ULster 6-2247

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 18 1957

DATE	INITIALS	CODE

June 14, 1957

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

Re: Docket DMEA 4183, Uranium
Contract Idm - E963
Vitro Minerals Corp.
Fremont County, Wyoming

Monthly report #5, May, 1957
Stage III, part 2.

Dear Mr. Shaw:

We are transmitting herewith five copies of each of the following items:

Form 104; Operator's Monthly Report and Voucher.
Form 104A; Operator's Unit Cost and Progress Report.
Final DMEA Map; Scale 1" = 100'; Showing locations of all DMEA drill holes.
Narrative Report.
Assay Statement.
Drill Hole Logs.
Weekly Drilling Reports

Inasmuch as this report completes the DMEA drilling under the subject contract, a summary of the results of the entire drilling program is included in the narrative report. A brief discussion of mineralization encountered and a preliminary reserve estimate is presented.

Very truly yours,

R. D. Adamson

R. D. ADAMSON
ASS'T. DIVISION GEOLOGIST

RDA:cda

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

July 22, 1957

OFFICIAL FILE COPY DMEA RECEIVED JUL 24 1957		
DATE	INITIALS	CODE
7/24	P.K.	220
25	COM	100
		800

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4182 (Uranium) Contract Idm-E963
Vitro Minerals Corporation (George and Ver claims)
Fremont County, Wyoming

Enclosed are two copies of the Operator's Narrative report for May, 1957.

Please attach copies of the Narrative report to the two copies of Form MF-104, Operator's Monthly Report and Voucher, for May, 1957, which was forwarded to you July 17, 1957, by this office.

W. H. King

Enclosures

DMEA
DEPARTMENT OF THE INTERIOR
JUL 12 1957
REGION III
DENVER, COLORADO

NARRATIVE REPORT

Stage III, Part 2

This report covers the work completed in May 1957. Work began 30 March and concluded 15 May 1957. Also, a brief summary of results of the entire DMEA drilling under subject contract is included in this report. A reserve estimate is made although no commercial ore bodies were discovered.

A total of seventy-three (73) drill holes were completed under authorization of Stage III, part 2. Average depth of the holes was 215 feet for a total footage of 15,717 feet. The results of this drilling are summarized in the following table:

No significant mineralization	25 holes
Less than 0.10% U_3O_8	40 holes
0.10% to 0.20% U_3O_8	6 holes
Greater than 0.20% U_3O_8	2 holes

Two enclosed tables show the depth, thickness, grade, and rock type of the mineralization and compare flourometric assays and radiometric readings of the drill cuttings.

Twelve of the holes drilled encountered mineralization of high enough grade and thickness to be considered as potential commercial ore. The grade and thickness was determined by interpretation of probe readings only. The mineralization is assumed to be in equilibrium. Ten of these holes are located in a north-south trending zone of mineralization on Ver 3 and 4. (Holes designated by an asterisk * in Table I mark the significantly mineralized holes.) Radioactivity in these holes ranged from .08% to .50% U_3O_8 with an average of about 0.17%. The thickness of the mineralization averages 3 feet. The other two mineralized holes are offsets to hole 29.5-39. The count occurs from 140 feet to 200 feet below the surface.

The following paragraph briefly summarize the findings of the DMEA drilling on the George and Ver groups. A large part (see map) of the area is mineralized, but no commercial ore was discovered. In the south halves of George 2 and 3, good radioactivity was found. However, most of this mineralization is in oxidized sandstone and is out of equilibrium to the extent that a 2.10% probe reading will not assay over 0.10% U_3O_8. (See hole 20.5-16.5) Mineralization occurs in this area at or near the oxidized-unoxidized contact. In two holes (15.25-15 and 20.5-17.25) good mineralization occurs at the contact in unoxidized sediments. The count and the assays are 0.10% U_3O_8 or better in these holes. These are isolated holes and do not constitute commerical ore. It appears that in this area the mineralization in the unoxidized sediments is spotty, and commercial ore bodies, if present, will have to be drilled on very closely spaced holes to determine their extent.

On George 4 and 5 and Ver 3 and 4, a large north-south trending area of mineralization has been outlined. (See map) For purposes of tenative reserve calculations, the area was divided into four zones of mineralization. These zones along with tonnage, grade, depth of overburden, and average thickness are shown in the table below. Grade and thickness were determined by probe readings only. The ore is assumed to be in equilibrium. Core samples will be required to verify grade if mining is deemed feasible.

ZONE	ELEVATION	TONNAGE	GRADE	OVERBURDEN	AVERAGE THICKNESS
1	6397-6421	5,000 ton	0.17% U_3O_8	34 feet	2 feet
2	6341-6319	27,000	0.16	124	3½
3	6310-6290	13,000	0.16	156	3
4	6281-6262	8,500	0.30	191	2½
	TOTAL	53,500 ton	0.18%	133 feet	3 feet

Zone 1 is partly in oxidized sandstone and probably out of equilibrium. Core samples will be necessary before mineability can be determined. No commercial assays were obtained from this zone.

Zones 2, 3 and 4 are in unoxidized sediments and may be assumed to be in equilibrium. Core samples will be necessary to determine the nature of the ore. The thickness of the mineralization average 3 feet; grade averages 0.20% U_3O_8; overburden average 150 feet. This presents a stripping ratio of better than 50 to one. Strip mining under these circumstances is not feasible. Also, underground mining of this material is not considered practical.

It is concluded that although good mineralization was encountered, no commercial ore was discovered under the DMEA drilling on the George and Ver claims.

Sincerely,

R. D. Adamson

R. D. Adamson
Ass't Division Geologist

Form No. 9—9-56, 2500

Vitro URANIUM COMPANY
A DIVISION OF VITRO CORPORATION OF AMERICA

600 WEST 33rd SOUTH STREET • SALT LAKE CITY 15, UTAH • TELEPHONE IN 7-5414

CUSTOMER'S ORDER NO. & DATE

REQUISITION NO.

INVOICE NO. 5-19

CONTRACT NO.

DATE May 31, 1957

SOLD TO Vitro Minerals Corporation
600 West 33rd South
Salt Lake City, Utah

SHIPPED TO

SHIPPED VIA

CAR INITIAL & NO.

TERMS:

DATE SHIPPED

QUANTITY	DESCRIPTION	NET POUNDS	PRICE	AMOUNT
	Sample Numbers	Number of Assays		
	@ 554 thru 579	26		
	582 thru 591	10		
		36 @ $1.25 each		$45.00

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 18 1957

DATE	INITIALS	CODE

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

By: [signature]

PACKING LIST NOS.

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 5-3-57

To: Mr. J. O. Burton, General Manager, Salt Lake City, Utah

From: Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject: WEEKLY DRILLING REPORT from 4/29 to 5/3 (MONTH DAY MONTH DAY)

George (DMEA) — CLAIM GROUP — CLAIMS

Beavers-Harris — DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DRL. DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO — ITEMS	COST
5-3-57	31-30 75	175	6 1/2			
	30 25-30	170				
	29 5-29 25	175				
TOTALS						
	NUMBER OF HOLES	FOOTAGE	DRILLING HRS. COST	TRAVEL HRS. COST		MATERIALS COST
	3	520	104.00			

Total Footage Drilled 520

Number of Holes 3

Average Depth 173

Total Direct Drilling Cost 104.00

Cost Per Foot .20

Driller's Signature

Geologist's Signature

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 5-3-57

Mr. J. G. Burton, General Manager, Salt Lake City, Utah

Mr. R. R. Adamson, Gas Hills District Geologist, Riverton, Wyoming

WEEKLY DRILLING REPORT from 4 / 29 to 5 / 3 , 195[illegible]
MONTH DAY MONTH DAY

(DMEA)
CLAIM GROUP

CLAIMS

Beavers-Harris
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	
[illegible]	29.5-42.75	245	11½		1 white bit	[illegible]
	30.25-42	245			1 Mill bit	[illegible]
[illegible]	28.5-30.25	235	11½		2 white bit	[illegible]
	26.75-40.5	245			3 bran	[illegible]
	28-36.75	225				
	27.25-37.5	225				
[illegible]	29.5-36.75	220	12		1 Hawthorne bit	[illegible]
	31.75-37.5	235			1 white bit	[illegible]
	31-36.75	235			5 bran	[illegible]
	30.25-36	220				
	31-31.25	245				
	31-32.25	250				
[illegible]	30.25-37.5	250	2	2	2 Hawthorne bit	[illegible]
			37			
[illegible]	18	FOOTAGE 3075	[illegible] HRS. 592.00	TRAVEL HRS. 20.00		20[illegible]

[illegible]

[illegible]

VITRO CORPORATION

Memorandum

Date

Mr. J. O. Horton, General Manager, Salt Lake City, Utah

Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

WEEKLY DRILLING REPORT from 5/6 (MONTH DAY) to 5/10 (MONTH DAY)

Vor (T & LA) — CLAIM GROUP — CLAIMS

Beaver's Hole — DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO — ITEMS	
5-6-57	31.75-31.5	212	3		1 Bran	4[illegible]
5-7-57	40-32.25	198	11½		2 Hawthorn bit	4[illegible]
	40-33.75	225			2 Bran	[illegible]
	38.5-32.25	206				
	37.75-33	200				
	37-32.25	210				
5-8-57	40.75-33	240	11	2	2 white bits	43[illegible]
	40.75-31.5	210			1 Bran	[illegible]
	40-36.75	192				
WEEKLY TOTALS			25½	2		
	NUMBER OF HOLES	FOOTAGE	DRILLING HRS.	TRAVEL HRS.		MATERIALS COST
	9	1893	408.00	20.00		102[illegible]
			COST	COST		

TOTAL FOOTAGE DRILLED 1893

NUMBER OF HOLES 9

AVERAGE 210

TOTAL DIRECT DRILLING COST $530.00

COST PER FOOT 0.28

DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

[illegible] CORPORATION

Interoffice Memorandum

Date [illegible]

[illegible] Mr. J. O. Horton, General Manager, Salt Lake City, Utah

[illegible] Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

[illegible] WEEKLY DRILLING REPORT from 5/6 (MONTH DAY) to 5/10 (MONTH DAY) [illegible]

[illegible]rge (TMEA) [illegible] CLAIM GROUP — CLAIMS

Beavers-Harris DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

[illegible]	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO — ITEMS	[illegible]
5-	30 25-28 5	180	9	2	2 white bit	43 [illegible]
	31 75-30	176				
	31-29 25	175				
	32 5-30 25	210				
[illegible]	NUMBER OF HOLES	FOOTAGE	DRILLING HRS.	TRAVEL HRS.		MATERIALS [illegible]
	4	741	144.00 COST	20.00 COST		43 [illegible]

[illegible] FOOTAGE DRILLED 741

[illegible] OF HOLES 4

[illegible] 185

TOTAL DIRECT DRILLING COST 207.00

[illegible] PER FOOT 28

[illegible] [illegible]

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 5-17-57

Mr. J. O. Horton, General Manager, Salt Lake City, Utah

Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

WEEKLY DRILLING REPORT from 5/13 (MONTH DAY) to 5/17 (MONTH DAY), 195

Vat (DMEA) CLAIM GROUP — CLAIMS

Beavers-Harris DRILLING CONTRACTOR

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	
7	41.5-29.25	200	6	2	1 White	3
	40.75-28.5	190			2 Bran	6
7	40-27.75	188	11		Rock bit retip	2
7	42.25-33	210	11	2	2 Bran	
	41.5-32.25	220			2 Mud	
	41.5-33.25	225			1 White bit	2
					2 Bran	8
			28	4		
	HUMBER OF HOLES 6	FOOTAGE 1233	DRILLING HRS 448.00 COST	TRAVEL HRS 40.00 COST		MATERIALS 91

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TOTAL FOOTAGE DRILLED 1233 TOTAL DIRECT DRILLING COST $5884.00

NUMBER OF HOLES 6 PER FOOT 4.77

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 5-3-57

To: Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From: Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject: WEEKLY DRILLING REPORT from 4 29 (MONTH DAY) to 5 3 (MONTH DAY)

Var DMEA
CLAIM GROUP

CLAIMS

UDX
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
5-3-57						
	34-32.25	200				
	34.25 31.5	205				
			45			
	NUMBER OF HOLES 18	FOOTAGE 1985	DRILLING HRS. 720.00 COST	TRAVEL HRS. 21.00 COST		MAT. 29

TOTAL FOOTAGE DRILLED 1985 TOTAL DIRECT DRILLING COST 1030.00

NUMBER OF HOLES 18 AVERAGE DEPTH PER HOLE 26

[illegible] [illegible]

VITRO MINERALS CORPORATION

Interoffice Memorandum

Date 5-3-57

[illegible] Morris, General Manager, Salt Lake City, Utah

[illegible] Adamson, Gas Hills Mining Contractor, Riverton, Wyoming

MONTHLY DRILLING REPORT [illegible] 4-29 to 5-3

[illegible] (DMEA

[illegible] CONTRACTOR

RATES $16.00 PER HOUR DRILLING $18.00 PER HOUR TRAVEL

[illegible]	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	[illegible]
[illegible]	[illegible]	245	11		2 Hawthorne bit	14.00
[illegible]	[illegible]	245			2 bar	12.00
[illegible]	[illegible]	245				
[illegible]	[illegible]	245	10		2 Hawthorne bit	[illegible]
[illegible]	[illegible]	245			2 bar	[illegible]
[illegible]	[illegible]	245				
[illegible]	[illegible]	245				
[illegible]	[illegible]	225				
[illegible]	[illegible]	225	11		4 Hawthorne bit	24.00
[illegible]	[illegible]	250			2 bar	12.00
[illegible]	[illegible]	250				
[illegible]	[illegible]	245				
[illegible]	[illegible]	240	10	2	2 Hawthorne	[illegible]
[illegible]	[illegible]	200				
[illegible]	[illegible]	210				
	CONT.					
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]

[illegible] Total Subject Drilling Cost [illegible]

[illegible]

VITRO MINERALS CORPORATION

Memorandum

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 5-17-57

To Mr. J. O. Herten, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 5/13 (MONTH/DAY) to 5/17 (MONTH/DAY), 1957

Her (DMEA) (CLAIM GROUP) _____ (CLAIMS)

UDX (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $ 11.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
5-13-57	40.75-34.5	230	3		3 bran	12.00
5-14-57	39.25-30	190	11 1/2		4 hawthorne	86.00
	40-29.25	190			5 Bran	20.00
	39.25-28.5	190				
	41.5-30.75	206				
	42.25-30	208				
5-15-57	40.25-30	206	11 1/2		3 Hawthorne	64.50
	39.25-31.5	206				
WEEKLY TOTALS			26 1/2			
	NUMBER OF HOLES 8	FOOTAGE 1626	DRILLING HRS. [redacted] COST	TRAVEL HRS. COST		MATERIALS COST [redacted]

TOTAL FOOTAGE DRILLED 1626

NUMBER OF HOLES 8

AVERAGE DEPTH 203

[redacted]

DRILLER'S SIGNATURE

TOTAL DIRECT DRILLING COST [redacted]

COST PER FOOT [redacted]

Alfred R. Bennett

GEOLOGIST'S SIGNATURE

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 Feb.-March, 1957 Docket No. DMEA 4182 Contract No. Idm E963
Operator's Name Vitro Minerals Corporation Minerals Uranium
Address P.O. Box 67, South Salt Lake City, Utah
Contract Amount, $ 64,816.00 Government Participation: 75 % Amount, $ 48,612.00

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	10,777.39	12,646.04	23,423.43			
Bulldozing						
Crosscutting						
Drifting						
(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 Assay Analysis	456.25	218.75	675.00			
Payroll Taxes						
Liability Insurance						
INCIDENTALS	2,499.75	2,310.57	4,810.32			
(8) Contingencies (specify):						
TOTALS	13,733.39	15,175.36	28,908.75	13,691.98	15,175.36	28,267.34
				53.05		53.05
				15,122.31		28,214.29

RECEIVED JUN 24 1957 U.S.A.E.C.

DMEA
DEPARTMENT OF THE INTERIOR
JUN 12 1957
REGION III
DENVER, COLORADO

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

Date June 8, 1957 Payee VITRO MINERALS CORPORATION

R. D. Adamson

Per R.D. Adamson Title Ass't. Div. 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: $9,818.98 **

Signature RRa
(Authorized Certifying Officer)

Date 6-19-57 Vou. No. DMA-57-137
(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. 1Dm 2963 in accordance with the terms of the contract.

Signature E O Simpson (981898) Title Mining Engineer Date June 11, 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W H King Title Executive Officer Date JUN 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

RECEIVED JUN 24 1957 D.M.E.A.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb.-Mar. 1957 Docket No. DMEA 4182 Contract No. Ian 5963
Operator's Name Vitro Minerals Corporation Minerals Uranium
Address Box 67 South Salt Lake City, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core Plug air	ft.	10777.39	27775	23423 .43	53448	0.4382	59470	0.70
Core & water								
Auger								
Stripping Flourmetric								
Trenching Assays sample		456.26	365	675.00	540	1.25	1860	1.25
Test Pits								
Roads and Trails								
Incidentals	ft	2499.76	27775	4610.32	53448	0.09	59470	0.09
TOTAL DISTRIBUTED COSTS		13733.39		28908.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date 8 June 1957 Operator Vitro Minerals Corp.

Per R. D. Adamson Title Ass't Div. 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)

Ed Brayton

DMEA
DEPARTMENT OF THE INTERIOR
JUN 12 1957
REGION III
DENVER, COLORADO

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

224 New Custom House
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 24 1957

DATE	INITIALS	CODE
6/24	C	220
25	CON	100
		800

FINAL DISTRIBUTION
MADE JUN 21 1957

June 19, 1957

Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah

Gentlemen:

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

Amount Claimed	$13,733.39
Difference	$ 641.41
Amount Approved	$13,091.98

The reason for the difference was due to: Seven of the Stage II holes reported during the period were later re-drilled to greater depths during the same period. The second drilling is accepted by this office for each of the re-drilled holes. The cost of the original drilling for the seven holes is disallowed as follows:

Hole No.	Original drilling
40-34.5	180
40-31.5	185
40-28.5	185
41.5-33	180
38.5-31.5	185
34-31.5	180
41.5-30	185
Total excess footage	1280 feet.

Disallowance, Stage II

1. The invoice cost for the above 1280 feet of drilling ---------- $ 496.32
2. Incidental allowance for 1280 feet of drilling ---------- 115.20

Total disallowance, Stage II ---------- $ 611.52

Disallowance, Stage III

The total invoiced drilling costs are less than the reported costs by an amount of $29.89. For simplicity, the excess cost is to be disallowed from Stage III, as follows:

Total reported drilling costs for Feb-Mar.,

1957	$10,777.39	
Total documented drilling costs for Feb-Mar., 1957	10,749.50	
Undocumented costs to be disallowed		27.89
Total amount to be disallowed		641.41

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

Very sincerely yours,

M. E. Stokes
Audit Section

224 New Customhouse
Denver 2, Colorado

June 17, 1957

JUN 24 1957

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket-4182, (Uranium), Contract Idm-E963, Vitro Minerals Corporation (George and Ver claims) Fremont County, Wyoming - Operator's Monthly Progress Report for the period February-March, 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.

Except as otherwise indicated 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. Payment is recommended on the following basis, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Seven of the Stage II holes reported during the period were later re-drilled to greater depths during the same period. The second drilling is accepted by this office for each of the re-drilled holes. The cost of the original drilling for the seven holes is disallowed as follows:

Hole No.	Original drilling
40-34.5	180
40-31.5	185
40-28.5	185
41.5-33	180
38.5-31.5	185
34-31.5	180
41.5-30	185

Total excess footage 1280 feet.

Disallowance, Stage II

1. The invoice cost for the above 1280 feet of drilling----------$ 496.32
2. Incidental allowance for 1280 feet of drilling---------- 115.20

Total disallowance, Stage II----------$ 611.52

Disallowance, Stage III

The total invoiced drilling costs are less than the reported costs by an amount of $29.89. For simplicity, the excess cost is to be disallowed from Stage III, as follows:

Total reported drilling costs for Feb-Mar., 1957----------$10,777.39
Total documented drilling costs for Feb-Mar., 1957---------- 10,747.50
Undocumented costs to be disallowed----------$ 29.89

Total Amount to be disallowed----------$641.41

Reconciliation With Amount Reported by the Operator on Form MF-104 for Feb. - Mar., 1957

Amount reported on Form MF-104 for Feb-Mar., 1957----------$13,733.39
Amount to be disallowed---------- 641.41

Total accepted cost for Feb-Mar., 1957----------$13,091.98

Government participation at 75 percent----------$ 9,818.98

Remarks

Date of MF-104 Report----------June 8, 1957
Date Received in Field Office----------June 11, 1957
Date Received in Region Office----------June 12, 1957

Original signed by
W. H. KING
W. H. King

Enclosures
JBC:hmh
cc: Chem. Op. Comm. (2)
NMBA, DEC
Barnhart) w/copy of Engr's
Trumbend) report
MF-104 file, Reg. III

Chron.

DMEA
DEPARTMENT OF THE INTERIOR
JUN 7 - 1957
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
June 7, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 24 1957

DATE	INITIALS	CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: A. E. Konselman
Mining Engineer

From: E. O. Binyon

Subject: Docket DMEA 4182 (Uranium) Contract I6m-2963, Vitro Minerals Corporation (George and Ver claims) Fremont County, Wyoming -- Progress report for February - March 1957

A field inspection of the work reported in the subject report was made March 18 - 19, 1957.

Location and depths of the holes were checked and found to be as shown on the operator's map. Drilling and sampling was done in conformance with the terms of the contract.

Of the 169 holes drilled 52 holes gave probe readings that indicated ore-grade mineralization (.10 percent eU_3O_8 or more) over thicknesses ranging from half a foot to 21 feet with an average thickness of about 4.5 feet. The maximum probe reading was 2.31 percent eU_3O_8 over a thickness of 6 feet in hole 37-27.25 at a depth of 60 feet. The results of the chemical or fluorimetric assays of the cuttings were all below ore grade with the exception of three samples -- hole 15.25-15, 56 to 58 feet, .109% U_3O_8; hole 20.5-17.25, 60 to 62 feet, .126% U_3O_8; and hole 34.75-25.5, 134 to 136 feet, .115% U_3O_8.

In the narrative report the footage drilled under Stage II, phase III is 15,775 feet and for Stage III, part 1, 10,720 feet or a total of 26,495 feet. On the MF-104A form the total footage is 27,775 feet. Also the operator gives a total of 169 holes drilled in the narrative report, while on the driller's invoices or weekly drilling reports the total number of holes is 176 with a total footage of 27,775 feet. Apparently the operator has included 7 holes that were redrilled and also has added in the 1280 feet drilled on the first drilling of these holes as well as the 1460 feet of the redrilled holes.

The holes with 1st and 2nd drilling footages are as follows:

Hole No.	Feet 1st Drilling	Feet 2nd drilling
40-34.5	180	210
40-31.5	185	210
40-28.5	185	205
41.5-33	180	210
38.5-31.5	185	210
34. -31.5	180	210
41.5-30	185	205
Totals 7	1280	1460

Inasmuch as the contract makes no provision for payment for the redrilling of holes, but by amendment required the drilling of the additional footage the 1st drilling or 1280 feet is disallowed. The total footage is 27,775 less 1,280 or 26,495 feet for which payment is allowed. With a drilling cost per foot of $.38775 and an incidental allowance of $.09 or a total of $.47775 the amount to be deducted is 1280 x $.47775 or $611.52.

From the weekly drilling reports the total drilling cost is $10,747.90, or $29.89 less than the $10,777.39 shown on the MF-104 and 104A under "Monthly Totals" and "Cost this Month". The smaller total $10,747.90 is taken as the correct amount and deducting $496.32 (1280 x $.38775) the amount claimed for drilling should be $10,251.18. The incidental allowance claimed should be reduced by $115.20 (1280 x $.09) leaving a total for incidental allowances of $2384.55.

The drilling footage shown under "Units this Month" should be 26,495 feet. Two other small errors were noted on the weekly drilling reports. On the Geohole, Inc. report, dated 2/13 to 2/15 and signed by Talton, the cost of 1 sack of bran was not included, and on a Geohole, Inc. report dated 2/23 to 3/1 for (George (DMEA) claims), signed by Talton an arithmetical error of $2.80 was made in the bit and bran cost. No adjustment of these errors has been made in the totals claimed for payment. A summary showing the correct amount is as follows:

	Monthly total	Totals Previously Reported	Totals to Date
Drilling	$10,251.18	$12,646.04	$22,897.22
Assays	456.25	218.75	675.00
Incidental Allowance	2,384.55	2,310.57	4,695.12
Totals	$13,091.98	$15,175.36	$28,267.34
Totals shown on MF-104	$13,733.39	$15,175.38	$28,908.75
less	611.52	-	611.52
	$13,121.87	$15,175.38	$28,297.25
less	29.89	-	29.89
	$13,091.98	$15,175.38	$28,267.34

All expenditures are documented and it is recommended that the operator be paid the Government's share or 75 percent of $13,091.98

which amounts to $9,818.98.

E. O. Binyon
E. O. Binyon
Mining Engineer

EOB/mr
ect 6
Idm-8963
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NARRATIVE REPORT

Stage II, phase (3) and Stage III, part (1)
IMEA 4182 (Uranium) - Contract No. Iam-E963

Written approval, for the work completed during this period, was received the first part of February. This report covers work completed both in February and the first two weeks in March. It was considered expedient to combine the completed work in one report.

A total of seventy-five (75) drill holes were completed under authorization of Stage II, phase (3). Average depth of holes was 210 feet, for a total footage of 15,775 feet. The results of this drilling are summarized in the following table:

No significant mineralization	47	Holes
Less than 0.10% U_3O_8 mineralization	14	"
0.10% to 0.20% U_3O_8 mineralization	8	"
Greater than 0.20% U_3O_8 mineralization	6	"
TOTAL	75	Holes

A total of ninety-four (94) drill holes were completed under authorization of Stage III, part (1). Average depth of hole was 114 feet, for a total footage of 10,720 feet. The results of this drilling are summarized in the following table:

No significant mineralization	25	Holes
Less than 0.10% U_3O_8 mineralization	31	"
0.10% to 0.20% U_3O_8 mineralization	23	"
Greater than 0.20% U_3O_8 mineralization	15	"
TOTAL	94	Holes

Enclosed Tables 1 and 3 give a summary of depth, thickness and grade of mineralization, from hole probes, for each stage. Also, a comparison of the chemical assay of the cuttings from the mineralized zone is shown. Cutting recovery was very poor. Much of the drilling was, by necessity, water drilling which gave very poor bit sample returns.

Enclosed Tables 2 and 4 list all the assays with hole number, interval and type of sample. Also, a comparison of the radiometric reading on the sample cuttings is given.

A very wide-spread zone of mineralization has shown up on the George-5 and Ver-3 claims. A potentially favorable mineralized zone is indicated on the Ver-7 and 8 claims. This mineralization is from 150 to 200 feet deep but grade and thickness of mineralization merits further exploration. Drilling, to date, has shown indications of a shallow ore body on the George 2 and 3 claims.

Litho-logs and probe logs on all holes drilled during this period are enclosed with this report. A progress map, on the scale of 1" = 200', shows holes drilled under both Stage II and Stage III during this period.

One third of the 150-ft. offset holes drilled under Stage II were mineralized and warrant drilling of 75-ft. offsets. It is felt that, upon completion of these offsets, additional ore bodies may be indicated.

Yours very truly,

VITRO MINERALS CORPORATION

C. H. Smith

C. H. SMITH
Wyoming Division Geologist

CHS:jmo
Encls.

TABLE 1
RESULTS OF DRILLING
STAGE II PHASE 3

Hole No.		Collar Elevation	Elevation Top of Mineralization	Interval	Thickness feet	Hole Probe eU_3O_8	cU_3O_8	Description of Mineralization
8.50	36	6511.4	--	--	--	--	--	--
10.	34.5	6505.5	--	--	--	--	--	--
10.	37.5	6517.2	--	--	--	--	--	--
11.5	36	6513.2	--	--	--	--	--	--
17.5	37.5	6498.3	--	--	--	--	--	--
19	36	6498.3	--	--	--	--	--	--
19	39	6496.3	--	--	--	--	--	--
20.5	37.5	6493.2	--	--	--	--	--	--
20.5	45	6522.4	--	--	--	--	--	--
22	43.5	6513.7	--	--	--	--	--	--
22	46.5	6516.9	--	--	--	--	--	--
23.5	45	6508.6	--	--	--	--	--	--
20.5	48	6526.2	--	--	--	--	--	--
22	49.5	6520.7	--	--	--	--	--	--
23.5	48	6506.2	--	--	--	--	--	--
23.5	28.5	6498.6	6422.6	76- 78	2.0	.03	.02	ss, lt gy & brn, f-c
25	30	6495.2	6411.2	84- 88	4.0	.10	.02	ss, gn-gy, VF silt clayey
26.5	28.5	6483.6	--	--	--	--	--	--
23.5	34.5	6492.4	6278.4	214-216	2.0	.08	.01	ss, gy, f-c
25	33	6487.1	--	--	--	--	--	--
25	36	6490.0	--	--	--	--	--	--
26.5	34.5	6487.5	--	--	--	--	--	--
23.5	40.5	6506.5	--	--	--	--	--	--
25	39	6507.0	--	--	--	--	--	--
26.5	40.5	6511.4	6279.4	232-234	2.0	.08	.01	clay, gn
23.5	43.5	6511.4	--	--	--	--	--	--
25	42		--	--	--	--	--	--
25	45	6500.7	6272.7	228-234	6.0	.03	.01	ss, gy, c-f, clay gn
26.5	43.5	6500.7	--	--	--	--	--	--
23.5	49.5	6511.1	--	--	--	--	--	--
25	48	6498.6	--	--	--	--	--	--
25	51	6498.1	--	--	--	--	--	--
26.5	49.5	6491.6	6257.6	234-236	2.0	.08	.02	clay, gn
26.5	36	6493.1	--	--	--	--	--	--
28	34.5	6491.3	--	--	--	--	--	--
29.5	36	6498.2	6292.6	206-208	2.0	.03	.01	ss, gy f-c w/tr clay, gn
26.5	39	6507.1	--	--	--	--	--	--
28	37.5	6499.2	6291.2	208-212	4.0	.20	.04	clay gn w/ss, gy
28	40.5	6502.7	--	--	--	--	--	--
29.5	39	6494.8	6272.8	222-240	18.0	.22	?	ss, gy, f-c, w/tr clay, gn
26.5	45	6494.7	--	--	--	--	--	--
28	43.5	6492.0	--	--	--	--	--	--
29.5	45	6485.0	--	--	--	--	--	--
26.5	48	6490.5	--	--	--	--	--	--
28	49.5	6494.1	--	--	--	--	--	--
29.5	48	6491.2	--	--	--	--	--	--

TABLE 1 - Con.
Page 2

Hole No.		Collar Elevation	Elevation Top of Mineralization	Interval	Thickness Feet	Hole Probe eU_3O_8	cU_3O_8	Description of Mineralization
29.5	28.5	6495.5	6349.5	146-152	6.0	.03	.02	ss, gy, f-c w/clay bl gn
31	27	6492.8	--	--	--	--	--	--
32.5	28.5	6491.5	--	--	--	--	--	--
29.5	31.5	6510.2	--	--	--	--	--	--
31	30	6502.8	6356.8	146-152	6.0	.35	.02	ss, dk gy, f-c
31	33	6519.2	--	--	--	--	--	--
32.5	31.5	6515.7	6344.7	171-184	13.0	.20	.05	ss, dk gy, f-c
29.5	43.5	6482.3	6252.3	230-232	2.0	.10	.01	ss, gy, f-c
31	42	6478.7	6248.7	230-238	8.0	.24	.01	ss, gy, f-c
31	45	6486.3	--	--	--	--	--	--
32.5	43.5	6482.9	--	--	--	--	--	--
32.5	30	6475.5	6321.5	154-156	2.0	.06	.01	ss, gy, f-c
34	28.5	?	?	141-142	1.0	.06	--	ss, gy, f-c
35.5	30	6471.9	6316.9	155-176	21.0	.10	.02	ss, med gy, f-c w/clay gn
32.5	33	6499.6	--	--	--	--	--	--
34	31.5	6491.2	6319.2	172-174	2.0	.06	.01	ss, gy, f-c
34	34.5	6499.2	--	--	--	--	--	--
35.5	33	6489.1	6318.1	171-176	5.0	.08	.01	ss, med gy, f-c
35.5	31.5	6483.0	6302.0	181-183	2.0	.08	.01	ss, gy, f-c, clayey
37	33	6476.2	6300.2	176-180	4.0	.04	.01	ss, med gy, f-c
38.5	31.5	6463.6	6301.6	162-164	2.0	.38	.03	ss, gy, f-c
38.5	31.5	6463.6	6285.6	178-180	2.0	.14	.02	ss, gy, f-c
38.5	30	6457.7	6304.7	153-164	11.0	.10	.01	ss, med gy, f-c
40	28.5	6456.8	6306.8	150-152	2.0	.18	.02	ss, gy, f-c, w/clay gn
40	28.5	6456.8	6295.8	161-164	3.0	.20	.03	ss, gy, f-c w/clay gn
40	31.5	6459.0	6275.0	184-185	1.0	.76	.03	ss, gy, f-c
41.5	30	6460.2	6284.2	176-178	2.0	.08	.02	ss, gy, f-c
38.5	33	6467.5	--	--	--	--	--	--
40	34.5	6465.5	6267.5	198-202	4.0	.76	.02	ss, med gy, f-c
41.5	33	6461.9	6265.9	196-200	4.0	.10		
28	46.5	6486.8	6353.8	133-136	3.	.05	.02	ss, gy, f-c

TABLE 2
ASSAYS
STAGE II PHASE 3

Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
23.5	28.5	G 271	80- 82	00	.015	Water
23.5	28.5	272	82- 84	00	.005	Water
25	30	251	88- 90	03	.019	Air
25	30	252	90- 92	04	.014	Water
25	30	253	92- 94	05	.020	Water
25	30	254	94- 96	05	.017	Water
25	30	255	146-148	00	.005	Water
25	30	256	148-150	00	.003	Water
23.5	34.5	237	216-218	00	.005	Water
23.5	34.5	238	218-220	00	.011	Water
23.5	34.5	239	220-222	00	.007	Water
25	36	216	228-230	00	.006	Water
25	36	217	230-232	00	.007	Water
26.5	40.5	218	24- 26	00	.006	Air
26.5	40.5	219	144-146	00	.006	Water
26.5	40.5	220	146-148	00	.009	Water
26.5	40.5	221	222-224	00	.015	Water
26.5	40.5	222	224-226	00	.004	Water
26.5	40.5	223	226-228	00	.004	Water
26.5	40.5	224	230-232	00	.005	Water
26.5	40.5	225	234-236	00	.006	Water
26.5	40.5	226	236-238	00	.010	Water
26.5	40.5	227	238-240	00	.010	Water
25	45	208	234-236	01	.010	Water
25	45	209	236-238	01	.006	Water
25	45	210	238-240	00	.007	Water
23.5	49.5	195	52- 54	00	.005	Air
23.5	49.5	196	54- 56	00	.013	Air
23.5	49.5	197	154-156	10	.037	Water
23.5	49.5	198	156-158	10	.025	Water
23.5	49.5	199	158-160	04	.018	Water
26.5	49.5	211	236-238	00	.015	Water
26.5	49.5	212	238-240	00	.008	Water
26.5	49.5	213	240-242	00	.010	Water
29.5	36	228	210-212	00	.003	Water
29.5	36	229	212-214	00	.004	Water
29.5	36	230	214-216	00	.007	Water
26.5	39	214	222-224	00	.006	Water
26.5	39	215	224-226	00	.009	Water
28	37.5	231	212-214	00	.010	Water
28	37.5	232	214-216	00	.018	Water
28	37.5	233	216-218	00	.042	Water
28	37.5	234	218-220	00	.025	Water
29.5	39	293	30- 32	00	.012	Air
29.5	39	294	32- 34	00	.004	Air

TABLE 2
Page 2

Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
29.5	39	G 295	126-128	00	.006	Water
29.5	39	296	128-130	00	.004	Water
29.5	39	O 01	226-228	00	.010	Water
29.5	39	02	228-230	00	.020	Water
29.5	39	03	230-232	00	.017	Water
29.5	39	04	232-234	00	.020	Water
29.5	39	05	234-236	00	.027	Water
29.5	39	06	236-238	00	.023	Water
29.5	39	07	238-240	00	.022	Water
28	43.5	G 200	70- 72	04	.005	Air
28	43.5	201	72- 74	04	.006	Air
28	43.5	202	74- 76	02	.003	Air
28	43.5	203	76- 78	04	.005	Air
28	43.5	204	78- 80	04	.004	Air
28	43.5	205	80- 82	03	.016	Air
28	46.5	206	134-136	02	.002	Water
28	46.5	207	136-138	01	.003	Water
295	28.5	263	156-158	01	.021	Water
29.5	28.5	264	158-160	01	.018	Water
29.5	28.5	265	160-162	01	.009	Water
32.5	28.5	257	42- 44	00	.003	Water
32.5	28.5	258	150-152	04	.023	Water
32.5	28.5	259	152-154	04	.012	Water
29.5	31.5	235	176-178	00	.031	Water
29.5	31.5	236	178-180	00	.007	Water
31	30	240	154-156	03	.004	Water
31	30	241	1560158	08	.015	Water
31	30	242	158-160	18	.025	Water
31	30	243	160-162	14	.021	Water
31	30	244	162-164	08	.012	Water
31	30	245	164-166	10	.013	Water
32.5	31.5	286	176-178	04	.019	Water
32.5	31.5	287	178-180	04	.050	Water
32.5	31.5	288	180-182	10	.035	Water
32.5	31.5	289	182-184	08	.033	Water
32.5	31.5	290	184-186	05	.021	Water
32.5	31.5	291	186-188	07	.017	Water
32.5	31.5	292	188-190	08	.031	Water
29.5	43.5	334	236-238	00	.012	Water
29.5	43.5	335	238-240	00	.010	Water
31	42	339	238-240	00	.006	Water
31	42	340	240-242	00	.006	Water
31	42	341	242-244	00	.008	Water
31	42	342	244-246	00	.011	Water
32.5	30	248	158-160	00	.013	Water
32.5	30	249	160-162	00	.006	Water
32.5	30	250	162-164	00	.010	Water

TABLE 2
Page 3

Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
35.5	30	G 273	154-156	02	.005	Water
35.5	30	274	156-158	02	.006	Water
35.5	30	275	158-160	02	.003	Water
35.5	30	276	160-162	02	.004	Water
35.5	30	277	162-164	02	.007	Water
35.5	30	278	164-166	03	.006	Water
35.5	30	279	166-168	04	.006	Water
35.5	30	280	168-170	03	.007	Water
35.5	30	281	170-172	03	.008	Water
35.5	30	282	172-174	04	.005	Water
35.5	30	283	174-176	03	.019	Water
35.5	30	284	176-178	03	.013	Water
35.5	30	285	178-180	04	.016	Water
34	31.5	246	176-178	00	.009	Water
34	31.5	247	178-180	00	.018	Water
34	34.5	269	202-204	01	.005	Water
34	34.5	270	204-206	01	.007	Water
35.5	33	260	178-180	03	.010	Water
35.5	33	261	180-182	03	.006	Water
35.5	33	262	182-184	02	.005	Water
35.5	31.5	266	184-186	04	.006	Water
37	33	267	181-183	00	.004	Water
37	33	268	183-185	00	.005	Water
38.5	31.5	313	166-168	04	.003	Water
38.5	31.5	314	168-170	08	.005	Water
38.5	31.5	315	170-172	06	.002	Water
38.5	31.5	316	172-174	04	.018	Water
38.5	31.5	317	181-183	01	.023	Water
38.5	31.5	318	183-185	01	.018	Water
38.5	31.5	411	172-174	05	.024	Water
38.5	31.5	412	174-176	08	.033	Water
38.5	31.5	413	176-178	12	.022	Water
38.5	31.5	414	182-184	04	.021	Water
38.5	31.5	415	186-188	01	.015	Water
38.5	31.5	416	188-190	02	.010	Water
38.5	30	319	156-158	00	.007	Water
38.5	30	320	160-162	00	.006	Water
38.5	30	321	164-166	00	.005	Water
38.5	30	322	170-172	00	.007	Water
38.5	30	323	174-176	02	.004	Water
38.5	30	324	178-180	02	.003	Water
38.5	30	325	182-184	01	.005	Water
40	28.5	297	122-124	03	.007	Air
40	28.5	298	130-132	03	.007	Air
40	28.5	299	156-158	03	.021	Air
40	28.5	300	158-160	06	.007	Air
40	28.5	301	160-162	05	.010	Air

TABLE 2
Page 4

Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
40	28.5	G 302	170-172	10	.030	Air
40	28.5	303	172-174	11	.018	Air
40	28.5	304	174-176	07	.012	Air
40	28.5	375	166-168	02	.011	Air
40	28.5	376	168-170	02	.009	Air
40	28.5	377	174-176	02	.007	Air
40	28.5	378	176-180	02	.012	Air
40	31.5	305	179-181	07	.011	Water
40	31.5	306	181-183	05	.010	Water
40	31.5	307	183-185	04	.018	Water
40	31.5	357	190-192	04	.009	Water
40	31.5	358	192-194	05	.007	Water
40	31.5	359	194-196	08	.029	Water
40	31.5	360	196-198	10	.007	Water
41.5	30	308	178-180	00	.015	Water
41.5	30	309	180-182	00	.009	Water
41.5	30	310	182-184	00	.020	Water
41.5	30	435	184-186	02	.003	Water
41.5	30	436	188-190	02	.002	Water
40	34.5	311	162-164	02	.004	Water
40	34.5	312	164-166	02	.002	Water
40	34.5	354	204-206	02	.008	Water
40	34.5	355	206-208	04	.018	Water
40	34.5	356	208-210	04	.010	Water
41.5	33	386	206-208	00	.003	Water
41.5	33	387	208-210	00	.004	
35		165	Totals			

TABLE 3
DMEA
RESULTS OF DRILLING STAGE III PART 1

Hole No.		Collar Elevation	Elevation Top of Mineralization	Interval	Thickness feet	Hole Probe eU_3O_8	cU_3O_8	Lithology of Mineralized Zone
15.25	16.5	6480.2	6424.2	56- 60	4.0	.03	.11	
16	14.25	6478.9	6430.9	48- 50	2	.74	.04	ss, brnt gy, f-c
16	15.75	6467.1	6418.1	49- 54	5	.48	.05	ss, brn, f-c
16.75	15	6473.	--	--	--	--	--	--
16.75	16.5	6469.4	--	--	--	--	--	--
16.75	19.5	6485.7	6444.7	41- 43	2	.10	.03	ss, brn, f-c
17.5	14.25	6467.7	--	--	--	--	--	--
17.5	15.75	6465.6	--	--	--	--	--	--
17.5	17.25	6472.8	6418.8	54- 56	2	.14	.02	ss, brn, f-c
17.5	18.75	6484.6	--	--	--	--	--	--
17.5	20.25	6491.8	6432.8	59- 61	2	.08	.01	ss, gy, f-c
18.25	15	6460.8	--	--	--	--	--	--
18.25	16.5	6469.1	6421.1	48- 51	3	.17	.05	ss, gy, f-c
18.25	18	6479.4	--	--	--	--	--	--
18.25	19.5	6489.7	6442.7	47- 49	2	.10	.02	clay gn
18.25	21	6495.2	6431.2	64- 72	8	.08	.02	clay gn
19	15.75	6467.3	6434.3	33- 35	2	.08	.01	ss, brn, f-c
19	17.25	6467.3	6435.3	32- 35	3	.08	.08	ss, brn, f-m
19	18.75	6485.1	6421.1	64- 67	3	.04	.01	ss, gy, f-c
19.75	18	6483.3	--	--	--	--	--	--
19.75	19.5	6488.4	--	--	--	--	--	--
19	20.25	6493.6	6435.6	58- 62	4	.10	.04	clay gn w/tr rd brn
19	21.75	6496.8	--	--	--	--	--	--
19.75	16.5	6476.1	--	--	--	--	--	--
19.75	21	6494.1	--	--	--	--	--	--
20.5	15.75	6472.7	6434.7	38- 40	2	.06	.03	ss, brn, f-c
			6423.7	49- 51	2	.04	.07	ss, brn, f-c
20.5	18.75	6489.8	6412.8	77- 79	2	.07	.01	ss, gy, f-c
20.5	20.25	6492.9	--	--	--	--	--	--
21.25	16.5	6480.4	6444.4	36- 40	4	.03	none	ss, brn, f-silt
			6433.4	47- 50	3	.04	none	ss, brn, f-silt
21.25	19.5	6492.3	6417.3	75- 77	2	.09	.02	ss, gy, f-c
22.75	15	6467.1	6434.1	33- 37	4	.04	none	ss, brn, f-c
			6423.1	44- 46	2	.06	.02	ss, gy, f-c
22.75	16.5	6482.7	6443.7	39- 41	2	.05	.01	ss, brn, f-c
22	17.25	6483.4	6439.4	44- 46	2	.12	.01	ss, brn, f-c
22	26.25	6479.0	6358.0	121-123	2	.06	.02	clay gn
22	27.75	6489.6	--	--	--	--	--	--
22.75	25.5	6475.8	6440.8	35- 37	2	.05	.04	ss, gy, f-c
22.75	27	6485.2	--	--	--	--	--	--
23.5	14.25	6477.2	6554.2	23- 26	3	.20	.01	ss, brn, f-c
24.25	15	6482.8	6461.8	21- 23	2	.10	.01	ss, brn, f-c
			6449.8	33- 38	5	.32	.02	ss, brn, f-c
			6436.8	46- 48	2	.04	.03	ss, gy, f-c

TABLE 3
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Hole No.		Collar Elevation	Elevation Top of Mineralization	Interval	Thickness feet	Hole Probe eU_3O_8	cU_3O_8	Lithology of Mineralized Zone
23.5	24.75	6474.4	6441.4	33- 37	4	.08	.03	clay gn
23.5	26.25	6480.8	6435.8	45- 47	2	.06	none	clay gn
			6368.8	112-114	2	.04	none	clay gn
			6317.8	163-165	2	.03	none	clay gn
23.5	27.75	6492.7	--	--	--	--	--	--
24.25	25.5	6480.8	6438.8	42- 44	2	.05	none	clay dk brn (carb)
24.25	22.5	6480.8	6457.8	23- 26	3	.08	.01	clay brn
			6447.8	33- 35	2	.04	none	clay gn
24.25	27	6488.8	6470.8	18- 20	2	.06	.02	clay brn & ss
			6425.8	63- 67	4	.10	.03	clay blk (carb)
25	21.75	6470.6	--	--	--	--	--	--
25	23.25	6470.2	6450.2	20- 23	3	.04	none	silt lite brn
25	24.75	6479.3	6439.3	40- 42	2	.13	.02	ss, gy, f-c
25	26.25	6486.2	6433.2	53- 55	2	.04	.01	clay blk (carb)
25	27.75	6492.3	6423.3	69- 71	2	.07	.01	clay gn w/ss gy
			6417.3	75- 78	3	.04	.01	clay gn w/ss gy
25.75	22.5	6467.3	--	--	--	--	--	--
25.75	25.5	6484.7	6360.7	124-131	7	.06	.02	clay gn
25.75	27	6486.1	6421.1	65- 67	2	.14	.01	clay bl gn & blk
26.5	24.75	6481.4	--	--	--	--	--	--
26.5	26.25	6484.4	6375.4	109-111	2	.05	none	ss, gy, f-c
34.75	25.5	6451.8	6321.8	130-134	4	.60	.12	ss, gy, f-c
34.75	28.5	6467.8	6318.8	149-151	2	.06	.01	ss, gy, f-c
35.5	24.75	6449.	6338.0	111-115	4	.12	.03	ss, gy, f-c
35.5	26.25	6451.7	--	--	--	--	--	--
35.5	27.75	6461.2	6345.2	116-118	2	.06	.01	ss, gy, f-c w/tr clay gn
			6315.0	146-149	3	.20	.01	ss, med gy, f-c
			6306.2	155-158	3	.12	.01	clay gn
35.5	29.25	6469.6	6318.6	151-152	2	.04	none	ss, med gy, f-c
36.25	21	6444.	6322.	22- 29	7	.20	.01	ss, gy, f-c w/clay blk
			6301.	43- 45	2	.04	.01	ss, gy, f-c
36.25	24	6449.9	6330.0	119-124	5	.50	.08	ss, dk gy-blk
36.25	25.5	6450.8	6326.8	124-133	9	.30	.02	ss, gy, f-c
36.25	27	6450.8	6319.8	131-133	2	.10	.01	ss, gy, f-c
			6309.8	141-147	6	.06	.01	clay gn w/ss gy
36.25	28.5	6458.6	6308.6	150-152	2	.06	.01	ss, gy, f-c
			6283.6	175-177	2	.06	.01	ss, gy, f-c
36.25	30	6455.7	6292.7	163-165	2	.04	.01	ss, gy, f-c
			6285.7	170-174	4	.06	.02	clay gn w/ss
			6277.7	178-183	5	.08	.02	clay gn w/ss
37	20.25	6444.2	6394.2	30- 38	8	.14	none	ss, brn, f-c
37	21.75	6446.5	6420.5	26- 34	8	.28	.01	ss, brn, f-c
37	23.25	6449.3	6339.3	110-113	3	.06	.02	ss, gy, f-c
37	24.75	6450.2	6332.2	118-124	6	.21	.02	ss, gy, f-c
37	26.25	6451.7	6335.7	126-129	3	.10	.02	ss, gy, f-c
			6318.7	133-135	2	.05	.03	ss, gy, f-c

TABLE 3
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Hole No.		Collar Elevation	Elevation Top of Mineralization	Interval	Thickness feet	Hole Probe eU_3O_8	cU_3O_8	Lithology of Mineralized Zone
37	27.25	6452.3	6426.3	126-130	4	.18	.01	ss, med gy, f-c
			6404.3	148-151	3	.05	none	ss, med gy, f-c
			6392.3	160-166	6	2.31	.02	ss, med gy, f-c
37	29.25	6460.2	6322.2	138-161	23	.08	.02	ss, gy, f-c
37	30.75	6469.7	6310.9	159-173	14	.06	.03	ss, gy, f-c
37.75	21	6447.0	6439.0	18- 21	3	.08	.01	ss, org brn, f-c
			6431.0	26- 29	3	.35	.01	ss, org brn, f-c
			6415.0	32- 35	3	.07	.01	ss, org brn, f-c
			6406.0	41- 49	8	.05	.01	ss, gy, f-c
37.75	22.5	6448.7	6395.7	53- 55	2	.23	.02	ss, gy, f-c
37.75	24	6450.8	6333.8	117-119	2	.14	.03	ss, gy, f-c
			6329.8	121-125	4	.24	.02	ss, gy, f-c
37.75	25.5	6451.9	6319.9	132-145	13	.12	.01	ss, med gy, f-c
37.75	27	6452.8	6332.8	120-123	3	.05	.02	ss, med gy, f-c
			6308.8	144-150	6	.05	.01	ss, med gy, c
37.75	28.5	6453.9	6317.9	136-141	5	.13	.05	ss, gy w/tr clay gn
			6302.9	151-152	1	.06	.05	clay gn
37.75	30	6460.8	6308.8	152-165	13	.23	.04	ss, med gy, f-c
			6290.8	170-172	2	.08	.01	ss, med gy, f-c
38.5	24.75	6451.9	--	--	--	--	--	--
38.5	26.25	6451.7	6317.7	134-137	3	.14	.01	ss, gy, f-c
38.5	27.75	6454.3	6325.3	129-132	3	.18	.01	ss, med gy, f-c
			6299.3	155-157	2	.08	.01	ss, med gy, f-c
38.5	29.25	6454.3	6309.3	145-149	4	.17	.01	ss, med gy, f-c
			6290.3	164-171	6	.14	.01	ss, med gy, f-c
15.25	15	6483.3	6440.3	43- 45	2	.04	none	ss, brn, f-c
			6420.3	53- 57	4	.76	.11	ss, blk, f-c
20.5	17.25	6483.5	6424.5	59- 64	5	.50	.13	clay gn
22	15.75	6473.8	--	--	--	--	--	--
21.25	15	6467.8	--	--	--	--	--	--
23.5	15.75	6482.7	6444.7	38- 40	2	.04	.01	ss, brn, f-c
22	14.25	6467.1	--	--	--	--	--	--
16	17.25	6473.5	6417.5	56- 59	3	.20	.04	ss, gy, f-silt

TABLE 4
ASSAYS
STAGE III PART 1

Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
15.25	15	G 549	56- 58	03	.109	Air
15.25	15	550	58- 60	03	.046	Air
16	14.25	531	46- 48	02	.039	Air
16	14.25	532	48- 50	00	.016	Air
16	14.25	533	50- 52	02	.017	Air
16	14.25	534	52- 54	00	.006	Air
16	15.75	527	50- 52	04	.011	Air
16	15.75	528	52- 54	04	.050	Air
16	15.75	529	54- 56	08	.048	Air
16	15.75	530	56- 58	01	.026	Air
16	17.25	517	56- 58	00	.029	Air
16	17.25	518	58- 60	03	.038	Air
16	17.25	519	60- 62	00	.022	Air
17.5	17.25	524	54- 56	01	.003	Air
17.5	17.25	525	56- 58	02	.018	Air
17.5	17.25	526	58- 60	00	.014	Air
16.75	19.5	520	42- 44	00	.013	Air
16.75	19.5	521	44- 46	00	.027	Air
17.5	20.25	495	60- 62	00	.001	Water
17.5	20.25	496	62- 64	00	.006	Water
18.25	19.5	535	50- 52	02	.020	Air
19	15.75	538	34- 36	00	.004	Air
19	15.75	539	36- 38	00	.006	Air
19	17.25	547	36- 38	02	.025	Air
19	17.25	548	38- 40	03	.076	Air
19	18.75	546	66- 68	00	.013	Air
18.25	16.5	522	50- 52	01	.007	Air
18.25	16.5	523	52- 54	01	.049	Air
19	20.25	489	60- 62	03	.006	Water
19	20.25	490	62- 64	02	.019	Water
19	20.25	491	64- 66	04	.039	Water
19	20.25	492	66- 68	06	.033	Water
18.25	21	487	70- 72	02	.011	Air
18.25	21	488	72- 74	02	.018	Air
20.5	15.75	536	38- 40	02	.025	Air
20.5	15.75	537	50- 52	02	.069	Air
20.5	17.25	540	60- 62	08	.126	Air
20.5	17.25	541	62- 64	06	.052	Air
20.5	17.25	542	64- 66	05	.079	Air
20.5	17.25	543	66- 68	04	.066	Air
20.5	18.75	493	80- 82	00	.012	Water
20.5	18.75	494	82- 84	00	.008	Water

TABLE 4
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Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
21.25	19.5	G 502	78- 80	00	.017	Water
21.25	19.5	503	80- 82	00	.013	Water
22.75	15	515	46- 48	00	.012	Air
22.75	15	516	48- 50	00	.015	Air
22.75	16.5	514	40- 42	00	.005	AAir
22	17.25	544	42- 44	02	.005	Air
22	17.25	545	44- 46	02	.004	Air
22	26.25	499	122-124	04	.018	Water
22	26.25	500	124-126	06	.009	Water
22	26.25	501	26- 28	04	.008	Water
23.5	14.25	504	24- 26	00	.005	Air
23.5	14.25	505	26- 28	01	.008	Air
23.5	14.25	506	28- 30	02	.012	Air
23.5	15.75	551	38- 40	00	.004	Air
23.5	15.75	552	40- 42	00	.013	Air
24.25	15	507	20- 22	02	.005	Air
24.25	15	508	22- 24	02	.006	Air
24.25	15	509	38- 40	02	.020	Air
24.25	15	510	40- 42	04	.010	Air
24.25	15	511	42- 44	04	.011	Air
24.25	15	512	44- 46	07	.013	Air
24.25	15	513	50- 52	10	.031	Air
22.75	25.5	497	38- 40	08	.042	Air
22.75	25.5	498	40- 42	04	.013	Air
23.5	24.75	481	36- 38	04	.026	Air
23.5	24.75	482	38- 40	06	.029	Air
23.5	24.75	483	40- 42	05	.010	Air
24.25	27	476	20- 22	00	.011	Air
24.25	27	477	22- 24	00	.018	Air
24.25	27	478	62- 64	04	.031	Air
24.25	27	479	64- 66	06	.017	Air
24.25	27	480	66- 68	06	.018	Air
24.25	22.5	486	24- 26	02	.007	Air
25	24.75	474	46- 48	00	.016	Air
25	24.75	475	48- 50	00	.004	Air
25	26.25	451	56- 58	08	.012	Air
25.75	27	448	64- 66	03	.003	Water
25.75	27	449	66- 68	04	.002	Water
25.75	27	450	68- 70	04	.002	Water
25	27.75	484	78- 80	04	.011	Water
25	27.75	485	80- 82	02	.009	Water
25.75	25.5	452	34- 36	00	.005	Water
25.75	25.5	453	36- 38	03	.018	Water
34.75	25.5	431	134-136	18	.115	Water
34.75	25.5	432	136-138	10	.066	Water
34.75	25.5	433	138-140	08	.023	Water
34.75	25.5	434	140-142	08	.044	Water

TABLE 4
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Hold No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
35.5	24.75	G 457	116-118	00	.003	Water
35.5	24.75	458	118-120	08	.029	Water
35.5	24.75	459	120-122	00	.012	Water
34.75	28.5	326	152-154	01	.007	Water
34.75	28.5	327	154-156	01	.004	Water
35.5	27.75	328	118-120	02	.004	Water
35.5	27.75	329	146-148	03	.009	Water
35.5	27.75	330	148-150	02	.003	Water
35.5	27.75	331	156-158	02	.011	Water
35.5	27.75	332	158-160	02	.010	Water
35.5	27.75	333	160-162	02	.010	Water
36.25	21	470	30- 32	02	.004	Water
36.25	21	471	32- 34	02	.003	Water
36.25	21	472	34- 36	02	.003	Water
36.25	21	473	46- 48	02	.009	Water
37.75	21	467	36- 38	00	.005	Air
37.75	21	468	38- 40	00	.005	Air
37.75	21	469	40- 42	00	.007	Air
37	21.75	444	32- 34	06	.002	Water
37	21.75	445	34- 36	06	.002	Water
37	21.75	446	36- 38	04	.003	Water
37	21.75	447	38- 40	04	.002	Water
37.75	22.5	460	58- 60	00	.018	Water
37.75	22.5	461	60- 62	00	.020	Water
36.25	24	462	128-130	04	.004	Water
36.25	24	463	130-132	16	.083	Water
36.25	24	464	132-134	14	.047	Water
36.25	24	465	134-136	12	.028	Water
36.25	24	466	136-138	07	.017	Water
37	23.25	441	116-118	04	.007	Air
37	23.25	442	118-120	03	.022	Air
37	23.25	443	120-122	06	.010	Air
37.75	24	405	128-130	04	.028	Water
37.75	24	406	130-132	04	.016	Water
37.75	24	407	132-134	10	.007	Water
36.25	25.5	408	138-140	04	.022	Water
36.25	25.5	409	140-142	04	.022	Water
36.25	25.5	410	142-144	04	.010	Water
37	24.75	388	128-130	02	.023	Water
37	24.75	389	130-132	08	.006	Water
37	24.75	390	132-134	04	.009	Water
37	24.75	391	134-136	05	.009	Water
37.75	25.5	425	140-142	04	.003	Air
37.75	25.5	426	142-144	04	.007	Air
37.75	25.5	427	146-148	08	.012	Air
37.75	25.5	428	148-150	05	.009	Air
37.75	25.5	429	150-152	06	.010	Air
37.75	25.5	430	152-154	04	.013	Air

TABLE 4
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Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
36.25	27	G 395	136-138	00	.006	Water
36.25	27	396	138-140	00	.009	Water
36.25	27	397	148-150	00	.005	Water
36.25	27	398	150-152	00	.005	Water
37	26.25	392	138-140	04	.021	Water
37	26.25	393	140-142	04	.026	Water
37	26.25	394	142-144	03	.003	Water
37.75	27	437	126-128	00	.011	Water
37.75	27	438	128-130	00	.021	Water
37.75	27	439	156-158	00	.003	Water
37.75	27	440	158-160	00	.007	Water
36.25	28.5	361	152-154	01	.010	Water
36.25	28.5	362	154-156	01	.008	Water
36.25	28.5	363	176-178	01	.005	Water
36.25	28.5	364	178-180	01	.005	Water
37	27.75	399	132-134	02	.005	Water
37	27.75	400	134-136	10	.004	Water
37	27.75	401	136-138	04	.002	Water
37	27.75	402	162-164	04	.016	Water
37	27.75	403	164-166	08	.007	Water
37	27.75	404	166-168	04	.012	Water
37.75	28.5	365	140-142	02	.020	Water
37.75	28.5	366	142-144	02	.024	Water
37.75	28.5	367	144-146	01	.048	Water
37.75	28.5	368	154-156	03	.048	Water
37.75	28.5	369	156-158	07	.010	Water
37.75	28.5	370	158-160	04	.013	Water
37	29.25	379	144-146	00	.002	Water
37	29.25	380	152-154	00	.008	Water
37	29.25	381	154-156	00	.005	Water
37	29.25	382	156-158	00	.016	Water
37	29.25	383	162-164	00	.004	Water
37	29.25	384	164-166	00	.004	Water
37	29.25	385	166-168	00	.004	Water
37	30.75	343	164-166	01	.007	Water
37	30.75	344	168-170	02	.016	Water
37	30.75	345	176-178	01	.009	Water
37	30.75	346	178-180	02	.026	Water
36.25	30	336	178-180	03	.013	Water
36.25	30	337	180-182	03	.024	Water
36.25	30	338	182-184	04	.019	Water
37.75	30	347	150-152	03	.009	Water
37.75	30	348	152-154	03	.004	Water
37.75	30	349	158-160	02	.003	Water
37.75	30	350	164-166	05	.015	Water
37.75	30	351	166-168	05	.042	Water
37.75	30	352	168-170	04	.009	Water
37.75	30	353	170-172	05	.013	Water

TABLE 4
Page 5

Hole No.		Assay Number	Interval	Radiometric	Chemical	Type Sample
38.5	26.25	G 454	142-144	00	.002	Water
38.5	26.25	455	146-148	00	.002	Water
38.5	26.25	456	148-150	00	.002	Water
38.5	27.75	371	134-136	02	.010	Water
38.5	27.75	372	136-138	02	.005	Water
38.5	27.75	373	158-160	02	.004	Water
38.5	27.75	374	160-162	02	.003	Water
38.5	29.25	417	148-150	04	.002	Water
38.5	29.25	418	150-152	06	.003	Water
38.5	29.25	419	152-154	07	.002	Water
38.5	29.25	420	154-156	10	.003	Water
38.5	29.25	421	156-158	07	.002	Water
38.5	29.25	422	164-166	03	.002	Water
38.5	29.25	423	166-168	06	.004	Water
38.5	29.25	424	168-170	04	.002	Water
61		200	Totals			

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 November, 1956 Docket No. DMEA 4182 Contract No. Idm E963
Operator's Name Vitro Minerals Corporation Minerals Uranium
Address P. O. Box 67, South Salt Lake City, Utah
Contract Amount, $ 64,816.00 Government Participation: 75 % Amount, $ 48,612.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	7,245.32	5,400.72	12,646.04			
Bulldozing						
Crosscutting						
Drifting						
(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 Assays	153.75	65.00	218.75			
Payroll Taxes						
Liability Insurance						
Incidentals	1,432.80	877.77	2,310.57			
(8) Contingencies (specify):						
TOTALS	8,831.87	6,343.49	15,175.36	8,831.87	6,343.49	15,175.36
				44	53.05	53.05

RECEIVED FEB 15 1957 D.M.E.A.

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

Date 14 Dec. 1956 *Payee VITRO MINERALS CORPORATION

Per W B Hall J. D. Horton Title ~~General Manager~~ Vice Pres

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

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

(See instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: 15,122.31
6,290.44
$ 46,203.90

Signature
(Authorized Certifying Officer)

Date 2/12/57 Vou. No. DMA 57-88
(See other side)

Previous Disallowance
Beginning date of work July 10th, 1956
This incidental allowance is protested because it is inadequate.

(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. 9-In E 963 in accordance with the terms of the contract.

Signature E. O. Bruegon (B 6,623, 92) Title Mining Engineer Date January 23 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Davey Title Executive Officer Date FEB 8 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

RECEIVED FEB 13 1957 D.M.E.A.

Month of November 1956 Docket No. DMEA 1262 Contract No. DMA 963

Operator's Name Vitro Minerals Corporation Minerals Uranium

Address P. O. Box 67, South Salt Lake City, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling ~~Core~~ Blue Air	Feet	7,245.32	15,920	12,646.01	25,673	0.49258	33,250	0.70
~~Churn~~ Water								
Auger								
Fluorometric Assays Stripping	Samples	159.75	183	218.75	175	1.25	1,100	1.25
Trenching								
Test Pits								
Roads and Trails								
Incidentals	Feet	1,432.00	15,920	2,310.57	25,673	.09	33,250	0.09
TOTAL DISTRIBUTED COSTS		8,831.87		15,175.36				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date 14 Dec. 1956 Operator Vitro Minerals Corporation

Per W B Hall Title Vice Pres

Beginning date of work July 19th - 1956

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

(Instructions on reverse)

REMARKS:

(For Government use only)

E D Bingon

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

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

FINAL DISTRIBUTION MADE FEB 13 1957

OFFICIAL FILE COPY

RECEIVED FEB 15 1957		
DATE	INITIALS	CODE
2/15	C	220
/18	Cow	100
		800

224 New Customhouse
Denver 2, Colorado

February 8, 1957

Memorandum

To: T. A. Christensen

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

Subject: Docket ~~DMEA~~-4182 (Uranium) Contract Ida-E963, Vitro Minerals Corporation (George and Ver claims) Fremont County, Wyoming ~~--Operator's Monthly Progress Report~~ for the month of November, 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. Payment is recommended for 75 percent of the amount reported on Form MF-104 for November, 1956, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

A total of 12,255 feet of drilling was required to complete the 64 authorized and approved holes under Stage II, Phase (1). Footage was transferred to Stage II, Phase (1) as follows, in conformance with work approval dated October 23, 1956.

Original estimated footage for Stage II, Phase (1) ------	10,400
Excess Stage I footage transferred to Stage II, Phase (1) -	1,028
Stage III footage transferred to Stage II, Phase (1) -----	827
Total available footage for Stage II, Phase (1)	12,255

Remarks

Date of Report----------	December 14, 1956
Date Received in Field Office -------	December 19, 1956
Date Received in Region Office -----	January 27, 1957

Original signed by
W. M. TRAVER

W. M. Traver

Enclosures
JBC:jy
cc: Chm.Op.Comm. (2)
Shaw (2)
Harshman w/copy engr's. report
MF-104 File E963
Caron.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 15 1957
REGION III

DATE	INITIALS	CODE
		Memorandum
		To:
		From:

DMEA
DEPARTMENT OF THE INTERIOR
JAN 28 1957
DENVER, COLORADO
JAN 23 1957
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
January 25, 1957

Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

E. O. Bingon

Subject: Contract DMEA 4364 (Uranium) Contract IAm-2963,
Vitro Minerals Corporation (George and Ver claims)
Fremont County, Wyoming -- Progress report for November 1956

An inspection on the project was made December 4, 1956.

During the reporting period 100 holes with an average depth of 159.2 or 15,920 feet were drilled. Of the total holes drilled 64 holes with an average depth of 191.6 feet or 12,260 feet were drilled in the southern half of the property under Stage II Phase I on the widely spaced grid. The 36 remaining holes were offset holes drilled at 150-foot spacing around mineralized holes drilled under Stage I of the contract. The average depth of these holes was 101.7 and the total footage drilled was 3660 feet.

A check of the locations of the holes showed them to be as on the map accompanying the operator's reports and in conformance with the terms of the contract.

Of the 64 holes drilled under Stage II Phase 1, 18 holes (by probe) had mineralization of .10 eU_3O_8, or more and 13 of the 36 offset holes showed similar mineralization. See "Preliminary Interpretation of Radiometric Logs" with operator's report. However, in assaying the samples only 2 intervals of 2 feet each in hole 20.5-16.5 and hole 25-34-5 contained material of better than .10 U_3O_8, hole 20.5-16.5 at 24 to 26 feet assayed .115 percent U_3O_8 and hole 25-34-5 assayed .12 U_3O_8 at 130 to 132 feet. It might be stated here that the samples, while indicating mineralization, are too inaccurate to be of value other than as an indicator. The probe results, especially in the unoxidized zone, are according to the operator, reliable.

The operator has submitted documentation of the drilling in the form of a weekly drilling report signed by the driller and by the company geologist and serve as invoices from the drilling contractors.

The invoice from Vitro Uranium Company for analyses of 123 samples documents the expenditures for analytical work.

Included with the NF-104 and 104A Forms are the following:

1. Narrative report
2. Weekly Drilling Reports (Invoices)
3. Vitro Uranium Co. Invoice for Assays
4. Preliminary Interpretation of Radiometric Logs - Stage II Phase 2
5. Assay List with hole number and depth interval
6. Probe logs of 100 holes
7. Progress map scale 1" - 200'

It is recommended that the operator be paid $6,623.90 which is the Government's share at 75 percent of $8,831.87, the total amount claimed.

E. O. Bingham
E. O. Bingham
Mining Engineer

EOB/mr
cc: 6
IAm-2963
Chron

Vitro MINERALS CORPORATION
FIRST AND MONROE STREETS • RIVERTON, WYO. • TELEPHONE 521
DL 6-2248

15 December 1956

Mr. John P. Shaw
U. S. Bureau of Mines
Room 157, Building 20
Denver Federal Center
Denver, 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 15 1957

DATE	INITIALS	CODE

Re: Docket DMEA 4182 Uranium
Contract I6m-960
VITRO MINERALS CORPORATION
Fremont County, Wyoming

Third Monthly Report
Covering all of Phases 1 and 2, Stage II

Dear Mr. Shaw:

We are submitting herewith in sextuplicate each of the following items relevant to our third Monthly Report, which covers all of Phases 1 and 2, Stage II for drilling during November 1956, under the above contract:

1. Covering letter.

2. Form 106, " Operator's Monthly Report and Voucher".

3. Form 106-A, "Operator's Unit Cost and Progress Report."

4. Progress Map, Scale 1" = 200', showing locations for all drilling completed during this period, as well as all previous DMEA drilling; also mineralized holes are so noted.

5. Narrative Report.

6. Monthly Drilling Cost Reports countersigned by the contract drillers.

7. Vitro Uranium Company Fluorometric Assay statement.

8. Preliminary Interpretation of Radiometric Logs, Stage II, Phase 1.

9. Preliminary Interpretation of Radiometric Logs, Stage II, Phase 2.

10. Assay lists, which give hole numbers, and depth intervals.

11. Copies of logs for each of the 100 holes drilled.

Written approval for the work covered in this report was received on October 26th, and drilling commenced on Monday, October 29th. One hundred holes were drilled in Phases one and two of Stage II for a total footage of 10,920 feet.

Results of Drilling

The results of this drilling are most encouraging as can be seen in the enclosed map, narrative report and logs. The assays are posted in their proper positions on the logs.

Results of Drilling Stage II phase 1 (300 foot grid-spacing)

16 holes give probe kicks indicating possible ore grade mineralization. Although water drilling seriously diluted sample cuttings, hole #25-34.5 yielded samples assaying .06 and .12% U_3O_8 from 130 feet deep. This material is out of equilibrium in favor of the chemical assay by 2 to 1. Similar favorably out-of-equilibrium material makes up the entire ore mass within a recently discovered large thumb-like projection of our John 2 ore body. Very low hole probe readings are observed within such ore bodies.

Results of Drilling Stage II Phase 2 (150 offsets)

It is probable that several ore bodies each containing a few thousand tons at an average depth of 50 feet can be developed in the southern part of George 2 and the surrounding vicinity.

Recent Developments

In the light of recent developments in the vicinity of the George and Ver claims, it is felt that more grid-spaced exploration holes should have been planned in order to do justice to these favorably situated claims. Lucky Mc has found ore at several places near the margins of the northern half of these claims but the outside positions for Stage I 300 foot grid-spaced holes are situated at least 200 feet and frequently are over 400 feet from our property lines. Since our last report, Lost Creek Uranium has reportedly discovered ore on the claims which are adjacent to the Ver claims on the south. Vitro likewise, since our last report, has discovered an important deep ore zone (datum elevation 6310) in Fraser Draw, less than ½ mile east of Ver -1 and 2. This zone was successfully cored and revealed varved relationships within the ore zone. There are 20 varves to a foot of sediments and each varve consists of soft shale and coarse sand. This varve-bedding yields evidence for surmising that an environment favorable for large swampy areas existed during the deposition of the lower Eocene Wind River sediments.

Recent Developments - continued

Stream channels in a humid sub-tropical climate would hence be much wider and have less gradient than those of the present day topography.

Yours very truly,

David L. Welsh

David L. Welsh
Geologist, Wyoming Division

DLW:mb

December 14, 1956

NOVEMBER DREA DRILLING VITRO'S GEORGE & VER CLAIMS
Fremont County Wyoming

Third Narrative Report

Drilling commenced on Monday, October 29th. One hundred drill holes for phases one and two, Stage II were completed during the period of this report. A total footage of 15,920 makes the average depth of each hole 159 feet. Phase one, Stage II consisted of 64 holes on 300 foot grid-spacing, for a total footage of 12,260 feet. Phase two, Stage II consisted of 36 holes with a total of 3,660 feet of drilling, on 150 foot offset-spacing.

Drilling procedures were equivalent to those of the proceeding two reports. The lower Wind River formation was probably not penetrated in the southern half of the claims in the 300 foot grid-spaced holes. Drilling conditions encountered were probably better than average for the Gas Hills; blow sands, gravel beds, caving or excessively unconsolidated beds were at a minimum. This is reflected in the cost data, even though several days of near-zero weather and attendant mechanical break-downs were experienced. The ground was snow covered during much of the period, and sample piles from water drilling froze soon after being laid out on the ground.

29 of the 64 holes for Stage II phase 1 are mineralized sufficiently to demand offsets. (See enclosed map.) Probe readings in eight of these holes indicate ore is probable. (See enclosed logs.) Assay returns from three non-adjacent holes, even though much of this area required water drilling, indicate the presence of commercial grade material. These three holes with their favorable assay depths are: Old Hole #405,20'-30', .02 to .03% U_3O_8; 2b-34.5, 128'-134', .04 to .12%; 22-28.5, 22'-30', .02 to .08%. Hole 2b-34.5 is remarkable in that the mineralized samples count less than one half of their assay values.

Two thirds of the 150' offset holes of Stage II phase 2 were mineralized, and demand further offsets. 16 of these give hole probe readings which indicate ore bodies may be developed nearby. Exceptionally high probe readings with correspondingly encouraging assays were discovered in holes: 17.5-15; 20.5-16.5; 17.5-19.5. It is not felt that enough offsets were allowed in this stage of the drilling to test the following localities: 7-13.5; 13-22.5; 2b-10.5; Old Hole #322; 43-28.5, as well as the entire Ver-1 claim.

D. L. Welsh
D. L. Welsh
Geologist, Wyoming Division

DLW:mb

TLLY CO. FORM NO. 9 • L 1598

Vitro URANIUM COMPANY

A DIVISION OF VITRO CORPORATION OF AMERICA

600 WEST 33rd SOUTH STREET • SALT LAKE CITY 15, UTAH • TELEPHONE 7-1501

CUSTOMER'S ORDER NO. & DATE

REQUISITION NO.

INVOICE NO. 11-13

CONTRACT NO.

DATE November 30, 1956

SOLD TO Vitro Minerals Corporation
600 West 33rd South Street
Salt Lake City, Utah

SHIPPED TO

SHIPPED VIA

CAR INITIAL & NO.

TERMS:

DATE SHIPPED

QUANTITY	DESCRIPTION	NET POUNDS	PRICE	AMOUNT
	Assays run for GTH Contract for Vitro Minerals Corporation on George and Jer Contract, Wyoming. Numbers V-1 through V-29 G-100 through G-104 G-106 through G-194 133 samples at $1.25			$153.75

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

By Keith H Elmer

PACKING LIST NOS.

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date Nov 23, 1956

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from Nov (MONTH) / 18 (DAY) to Nov (MONTH) / 23 (DAY), 1956

George DMEA
CLAIM GROUP

CLAIMS

Alloway and McGee
DRILLING CONTRACTOR

RATES $ 16 PER HOUR DRILLING $ 10 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
20 Nov	23.5-22.5	40	2	2		
	25-21	40				
WEEKLY TOTALS			2	2		
	NUMBER OF HOLES 2	FOOTAGE 80	DRILLING HRS. $32 COST	TRAVEL HRS. $20 COST		MATERIALS COST

TOTAL FOOTAGE DRILLED 80

NUMBER OF HOLES 2

AVERAGE DEPTH 40

TOTAL DIRECT DRILLING COST 52

COST PER FOOT 65¢

(George D. McGee)
DRILLER'S SIGNATURE

(R. D. Adamson)
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/1.,/5[illegible]

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 1[illegible] / 1[illegible] to 1[illegible] / 17, 195 6
(MONTH / DAY to MONTH / DAY)

[illegible] CLAIM GROUP — CLAIMS

[illegible] DRILLING CONTRACTOR

RATES $ [illegible] PER HOUR DRILLING $ [illegible] PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	MATERIALS FURNISHED BY VITRO: COST
11/1[illegible]/5[illegible]	[illegible]	1[illegible]5	1[illegible]			
	[illegible]	1[illegible]				
	[illegible]	1[illegible]5				
11/1[illegible]/5[illegible]	[illegible]	1[illegible]0	6			
11/1[illegible]/5[illegible]			2	2		
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE	DRILLING HRS.	TRAVEL HRS.		MATERIALS COST
		540	19[illegible]	2		
			313.00 COST	20.0 COST		

TOTAL FOOTAGE DRILLED 540

NUMBER OF HOLES 4

AVERAGE DEPTH 135

TOTAL DIRECT DRILLING COST 382.00

COST PER FOOT .60

[illegible] DRILLER'S SIGNATURE

[illegible] GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 12 to 11 / 17, 1956
MONTH DAY MONTH DAY

Gas Hills
CLAIM GROUP

CLAIMS

Dalton Drilling Co.
DRILLING CONTRACTOR

RATES $ 10.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
11/13/56	30.5-20.5	135	6½	2	1 Olson bit	23.46
	30.5-20.5	55				
WEEKLY TOTALS	NUMBER OF HOLES	190 FOOTAGE	6½ DRILLING HRS.	2 TRAVEL HRS.		23.46 MATERIALS COST
			124.00 COST	20.00 COST		

TOTAL FOOTAGE DRILLED 190

NUMBER OF HOLES 2

AVERAGE DEPTH 95

TOTAL DIRECT DRILLING COST 147.46

COST PER FOOT .77

[illegible]
DRILLER'S SIGNATURE

[illegible]
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 10/28/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 10 / 28 to 11 / 2 , 1956
MONTH DAY MONTH DAY

~~Vor fr~~ CLAIM GROUP

CLAIMS

~~Bolton Drilling Co.~~ DRILLING CONTRACTOR

RATES $ ~~10.00~~ PER HOUR DRILLING $ ~~10.00~~ PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
~~D 10/31/56~~ ~~11/1/56~~	~~17-17~~	~~115~~	~~2~~			
~~11/1/56~~	~~15-23.5~~	~~170~~	~~11~~		~~1 Billwhite bit~~	~~21.50~~
	~~1-9~~	~~170~~				
	~~19-1.5~~	~~170~~				
~~11/2/56~~	~~23-[illegible]~~	~~200~~	~~8~~	~~2~~	~~1 Olson bit~~	~~23.50~~
	~~25-4.5~~	~~240~~			~~1 Drag~~	~~4.00~~
WEEKLY TOTALS	NUMBER OF HOLES 7	~~1025~~ FOOTAGE	~~241.00~~ DRILLING HRS. 21½ COST	~~20.00~~ TRAVEL HRS. 2 COST		MATERIALS COST ~~49.00~~

TOTAL FOOTAGE DRILLED [illegible]

NUMBER OF HOLES [illegible]

AVERAGE DEPTH [illegible]

TOTAL DIRECT DRILLING COST 413.00

COST PER FOOT .39

DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date Nov 23, 1956

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from Nov (MONTH) / 18 (DAY) to Nov (MONTH) / 23 (DAY), 1956

John (CLAIM GROUP) 2 (CLAIMS)

Alloway and McGee (DRILLING CONTRACTOR)

RATES $ 16 PER HOUR DRILLING $ 10 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
Nov21	Mc2.0	180	9	2		
	Kd5.25	150				
WEEKLY TOTALS	2 NUMBER OF HOLES	330 FOOTAGE	9 DRILLING HRS. $144 COST	2 TRAVEL HRS. $20 COST		MATERIALS COST

TOTAL FOOTAGE DRILLED 330

NUMBER OF HOLES 2

AVERAGE DEPTH 165

TOTAL DIRECT DRILLING COST $164

COST PER FOOT 50¢

George D. McGee
DRILLER'S SIGNATURE
(George D. McGee)

R. D. Adamson
GEOLOGIST'S SIGNATURE
(R. D. Adamson)

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 18 to 11 / 17, 1956
(MONTH / DAY to MONTH / DAY)

George (CLAIM GROUP) (CLAIMS)

Geohole Inc. (Driller Fallon) (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $ 10.0 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	MATERIALS FURNISHED BY VITRO: COST
11/12/56	31-31.5	200	5		1 Pr.	4.00
~~11/16/56~~						
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE 200	DRILLING HRS. 5	TRAVEL HRS.		MATERIALS COST
			COST 80.00	COST		4.00

TOTAL FOOTAGE DRILLED 200

NUMBER OF HOLES 1

AVERAGE DEPTH 200

TOTAL DIRECT DRILLING COST 84.00

COST PER FOOT .42

DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 10 (MONTH / DAY) to 11 / 17 (MONTH / DAY), 1956

Claim Group: [illegible] Claims:

Drilling Contractor: Cascade Inc. (Walker Talson)

Rates $[illegible] Per Hour Drilling $10.00 Per Hour Travel

Day, Date	Hole No.	Total Depth Feet	Drill Time Hours	Travel Time Hours	Materials Furnished by Vitro: Items	Cost
11/11/56	[illegible]-31.5	170	6	2	1 powdal mud	2.00
11/1/56	[illegible]-31.5	170	11		2 Bran	8.00
	[illegible]-50	195			2 Clean bits	50.98
	31.5-[illegible]	195				
11/16/56	[illegible]					
11/16/56	[illegible]					
11/16/56	[illegible]	195	[illegible]			
Weekly Totals	Number of Holes	Footage 805	Drilling Hrs. [illegible] Cost [illegible]	Travel Hrs. 2 Cost [illegible]		Materials Cost 60.04

Total Footage Drilled 805

Number of Holes 5

Average Depth 160

Total Direct Drilling Cost [illegible]

Cost Per Foot 40

Driller's Signature

Geologist's Signature

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/9/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 (MONTH) 5 (DAY) to 11 (MONTH) 9 (DAY), 1956

Ver (CLAIM GROUP) (CLAIMS)

Cooville Inc. (Driller Talton)
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/5/56	[illegible]	[illegible]	[illegible]	2	1 Tooth Bit	25.00
	25-31.5	200				
11/6/56	25-28.5	170	11/3			
11/7/56	28-31	140	11			
	31-40.5	240				
11/8/56	[illegible]	[illegible]	11		1 Tooth Bit	25.00
	31-34.5	240	=	=		
	28-31	200	9	2		
	34-30	170				
			45.5	4		
WEEKLY TOTALS	9 NUMBER OF HOLES	1900 FOOTAGE	728.00 DRILLING HRS.	40.00 TRAVEL HRS.		50.00 MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 1950 ~~1960~~

NUMBER OF HOLES 9

AVERAGE DEPTH 219'

TOTAL DIRECT DRILLING COST 818.00

COST PER FOOT 42

C. D. Tack
DRILLER'S SIGNATURE

Alfred R. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/9/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11/ 5 to 11 / 9 , 1956
(MONTH DAY MONTH DAY)

George
CLAIM GROUP

CLAIMS

Geehole Inc (Driller Tatom)
DRILLING CONTRACTOR

RATES $ 10.0 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/6/56	28-30	170	9		1 Vibsar bit	25.00
	28-3	240				
			9			
WEEKLY TOTALS		410	144			25.00
	NUMBER OF HOLES	FOOTAGE	DRILLING HRS.	TRAVEL HRS.		MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 410

NUMBER OF HOLES 2

AVERAGE DEPTH 205

TOTAL DIRECT DRILLING COST 168.00

COST PER FOOT .40

A. L. Tatom
DRILLER'S SIGNATURE

Alfred R. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/2/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 10 / 29 to 11 / 2, 1956
MONTH DAY MONTH DAY

Ver Group
CLAIM GROUP

CLAIMS

Geohole (Driller Talton)
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
10/31/56	10-36	170	5		1 Billwhite	25.00
11/1/56	13-34.5	170	11½		1 Hawthorne	22.50
	13-37.5	170				
	13-40.5	170				
	16-39	170				
11/2/56	19-37.5	170	9	2		
	19-40.5	170				
WEEKLY TOTALS			25½	2		47.50
	NUMBER OF HOLES	FOOTAGE 1190	DRILLING HRS. 408.00	TRAVEL HRS. 20.00		MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 1190

NUMBER OF HOLES 8

AVERAGE DEPTH

G. L. Talton
DRILLER'S SIGNATURE

TOTAL DIRECT DRILLING COST 475.50

COST PER FOOT 35¢

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date Nov. 23, 1956

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from nov (MONTH) / 18 (DAY) to Nov (MONTH) / 23 (DAY), 1956

George DMEA (CLAIM GROUP) 2 &3 (CLAIMS)

Geohole Vick- driller (DRILLING CONTRACTOR)

RATES $ 16 PER HOUR DRILLING $ 10 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
18 nov, Sun	19-21	90	9	2		
	16.16.5	70				
	17.5-16.5	90				
20 Nov, Tues	17.5-16.5	70	9			
	19-18	90				
	9-15	50				
	20.5-16.5	70				
	14.5-15	70				
21 Nov, Wed	17.5-15	70	4	2		
WEEKLY TOTALS	9	670	22	4		00
	NUMBER OF HOLES	FOOTAGE	DRILLING HRS. $352	TRAVEL HRS. $40		MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 670

NUMBER OF HOLES 9

AVERAGE DEPTH 75

TOTAL DIRECT DRILLING COST $392.00

COST PER FOOT 58¢

(R. C. Vick)
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 12 to 11 / 17, 1956
(MONTH DAY MONTH DAY)

Ver
CLAIM GROUP — CLAIMS

Geotolo Inc (Vick)
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/12/56	37-37.5	170	11	2	1 Bran	4.00
	37-34.5	170			1 Olson bit	25.00
	40-36	170				
11/13/56	49-31.5	165	11			
	37-30	170				
11/14/56	No work Snow					
		Unit's alight's start				
WEEKLY TOTALS	NUMBER OF HOLES	845 FOOTAGE	22 DRILLING HRS.	2 TRAVEL HRS.		29.00 MATERIALS COST
			352.00 COST	20.00 COST		

TOTAL FOOTAGE DRILLED 845

NUMBER OF HOLES 5

AVERAGE DEPTH 169

TOTAL DIRECT DRILLING COST 401.00

COST PER FOOT .47

DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 12 to 11 / 17 , 1956
(MONTH / DAY to MONTH / DAY)

Pearce
CLAIM GROUP

CLAIMS

Geohole Inc. (Wick)
DRILLING CONTRACTOR

RATES $[illegible] PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/16/56	37-27	100	8		1 Olson bit	23.00
					2 Bran	8.00
					3 Aquagel mud	618
11/17/56	20.5-19.5 ~~19-21~~	30	10	2	2 Aquagel mud	2.12
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE 250	DRILLING HRS. 288.00 / 18 COST	TRAVEL HRS. 20.00 / 2 COST		MATERIALS COST 39.30

TOTAL FOOTAGE DRILLED 250

NUMBER OF HOLES 2

AVERAGE DEPTH 125

TOTAL DIRECT DRILLING COST 347.30

COST PER FOOT 1.30

[illegible]
DRILLER'S SIGNATURE

[illegible]
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/9/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11/ 5 to 11 / 9, 1956
(MONTH DAY MONTH DAY)

Ver
CLAIM GROUP

CLAIMS

Geohole Inc (Driller Vick)
DRILLING CONTRACTOR

RATES $ 10.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
11/5/56	[illegible]	250	11½	[illegible]		
	[illegible]-[illegible].5	250				
11/6/56	28-48	250	12		1 Olson bit	25.00
	25-40.5	250				
11/7/56	[illegible]	250	7			
11/8/56	31-46.5	250	11		1 Olson bit	25.00
	31-46.5	250				
11/9/56	[illegible]	[illegible]	10	2		
	[illegible]	[illegible]				
		2150	51½	4		
WEEKLY TOTALS	9 NUMBER OF HOLES	FOOTAGE	294.00 DRILLING HRS.	40.00 TRAVEL HRS.		50.00 MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 2150

NUMBER OF HOLES 9

AVERAGE DEPTH 239

TOTAL DIRECT DRILLING COST 914.00

COST PER FOOT .45

DRILLER'S SIGNATURE

Alfred V. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/2/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 10 / 29 to 11 / 2 , 1956
(MONTH DAY MONTH DAY)

Ver Group (CLAIM GROUP) _____ (CLAIMS)

Geohole Inc (Driller Tibbon)
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
10/31/56	4-27	115	5			
11/1/56	10-30	150	11½		1 Bran	4.00
	13-31.5	170				
	16-33	170				
	16-36	170				
11/2/56	19-34.5	170	8	2	L Olson	23.00
	19-43.5	200				
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE	24½ DRILLING HRS.	2 TRAVEL HRS.		MATERIALS COST
		1145	392.00 COST	20.00 COST		27.00

TOTAL FOOTAGE DRILLED 1145

NUMBER OF HOLES 7

AVERAGE DEPTH

TOTAL DIRECT DRILLING COST 439.00

COST PER FOOT

J. C. Vick
DRILLER'S SIGNATURE

A V Acosmith
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date Dec 1, 1956

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from Nov (MONTH) 1 (DAY) 26 to Dec (MONTH) 1 (DAY), 1956

George Duff (CLAIM GROUP) CLAIMS

Thomas Drilling & Exploration (DRILLING CONTRACTOR)

RATES $ 16 PER HOUR DRILLING $ 16 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO ITEMS	COST
Nov Nov 26	26 S 2	40	2			
WEEKLY TOTALS	NUMBER OF HOLES 1	FOOTAGE 40	DRILLING HRS. 2 / COST $32	TRAVEL HRS. / COST		MATERIALS COST

TOTAL FOOTAGE DRILLED 40

NUMBER OF HOLES 1

AVERAGE DEPTH 40

TOTAL DIRECT DRILLING COST $32.00

COST PER FOOT 80¢

DRILLER'S SIGNATURE

R. D. Adamson

GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date Nov 23, 1956

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from Nov (MONTH) / 18 (DAY) to Nov (MONTH) / 23 (DAY), 1956

George DMEA (CLAIM GROUP) — (CLAIMS)

Uranium Drilling & Exploration (DRILLING CONTRACTOR) Headrick driller

RATES $ 16 PER HOUR DRILLING $ 10 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
Nov 20	23.5-25.5	170	4	4		
WEEKLY TOTALS	1 (NUMBER OF HOLES)	170 (FOOTAGE)	4 (DRILLING HRS.) $64 (COST)	4 (TRAVEL HRS.) $40 (COST)		(MATERIALS COST)

TOTAL FOOTAGE DRILLED 170

NUMBER OF HOLES 1

AVERAGE DEPTH 170

TOTAL DIRECT DRILLING COST $104

COST PER FOOT 60¢

G. P. Headrick (DRILLER'S SIGNATURE)

(G. P. Headrick)

R. D. Adamson (GEOLOGIST'S SIGNATURE)

(R. D. Adamson)

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 12 (MONTH / DAY) to 11 / 17, 1956 (MONTH / DAY)

[illegible] (CLAIM GROUP) (CLAIMS)

[illegible] Drilling & Exploration (DRILLING CONTRACTOR)

RATES $ [illegible] PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH, FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/1[illegible]	[illegible]	1[illegible]0	1[illegible]	[illegible]	1 Dillohite bit	21.50
	[illegible]	170			1 Roller bit rotip	7.50
	[illegible]	[illegible]				
11/1[illegible]	[illegible]	1[illegible]0	3[illegible]			
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE	DRILLING HRS. 25	TRAVEL HRS. 9		29.00 MATERIALS COST
			260 COST	90.00 COST		

TOTAL FOOTAGE DRILLED [illegible]

NUMBER OF HOLES 4

AVERAGE DEPTH 140

[illegible] DRILLER'S SIGNATURE

TOTAL DIRECT DRILLING COST 289.00

COST PER FOOT 4[illegible]

[illegible] GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/17/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 12 (MONTH / DAY) to 11 / 17 (MONTH / DAY), 1956

Gas Hills (CLAIM GROUP) — (CLAIMS)

Lewis Drilling & Exploration (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $ 11.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/1/56	[illegible]	[illegible]	[illegible]		1 billwhite bit	21.50
	[illegible]	135				
	[illegible]	55				
11/16/56	[illegible]	55	[illegible]	2		
	[illegible]	170			1 Hawthorne bit	22.50
	[illegible]	170				
	25-27	170				
			193	2		
WEEKLY TOTALS	NUMBER OF HOLES	925 FOOTAGE	318.00 DRILLING HRS.	20.00 TRAVEL HRS.		44.00 MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 925

NUMBER OF HOLES 7

AVERAGE DEPTH 132

TOTAL DIRECT DRILLING COST 374.00

COST PER FOOT 41

[illegible] — DRILLER'S SIGNATURE

[illegible] — GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/9/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 5 (MONTH / DAY) to 11 / 9 (MONTH / DAY), 1956

Ver (CLAIM GROUP) (CLAIMS)

Uranium Drilling Exploration (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/6/56	✓ 25-27.5	240	10½	2	1 Hawthorne Bit	22.50
	28-43	350				
11/7/56	28-47	250	6			
11/9/56						
WEEKLY TOTALS	NUMBER OF HOLES 3	FOOTAGE 740	16½ DRILLING HRS. 264.00 COST	TRAVEL HRS. 20.00 COST		MATERIALS COST 22.50

TOTAL FOOTAGE DRILLED 740

NUMBER OF HOLES 3

AVERAGE DEPTH 248

TOTAL DIRECT DRILLING COST 306.50

COST PER FOOT 40

DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/9/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 11 / 5 to 11 / 9 , 1956
(MONTH DAY MONTH DAY)

George (CLAIM GROUP) _____ (CLAIMS)

Uranium Drilling Exploration (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
11/9/56	31-28.5	170	6	2		
			6	2		
WEEKLY TOTALS	NUMBER OF HOLES	170 FOOTAGE	96.00 DRILLING HRS.	20.00 TRAVEL HRS.		MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 170

NUMBER OF HOLES 1

AVERAGE DEPTH 170

TOTAL DIRECT DRILLING COST 1160.00

COST PER FOOT ~~48~~ 69

C. T. Hendricks
DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 11/2/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 10 / 29 (MONTH / DAY) to 11 / 2 (MONTH / DAY), 1956

Ver GRoup (CLAIM GROUP) _____ (CLAIMS)

Uranium Drilling Exploration (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED BY VITRO: ITEMS	COST
10/31/56	10-33	170	5½			
	7-31.5	150				
11/1/56	7-26.5	~~415~~ 325	12½		1 Hawthorne bit	22.50
	19-28.5	170			1 Bran	4.00
	22-30	170			2 Aquagel	4.12
11/2/56	22-36	200	10	2		
	22-39	200				
	22-42	200				
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE 1375	DRILLING HRS. 27	TRAVEL HRS. 2		MATERIALS COST 30.62
			DRILLING COST 432.00	TRAVEL COST 20.00		

TOTAL FOOTAGE DRILLED 1375

NUMBER OF HOLES 8

AVERAGE DEPTH

TOTAL DIRECT DRILLING COST 482.62

COST PER FOOT .35

R. D. Adamson
DRILLER'S SIGNATURE

D. V. Beaumont
GEOLOGIST'S SIGNATURE

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

RECEIVED NOV 8 1956 D.M.E.A.

Month of August, 1956 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Vitro Minerals Corp.
Address P.O. Box 67, South Salt Lake City, Utah Minerals [illegible]
Contract Amount, $ [illegible] Government Participation: 75% Amount, $ [illegible]

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	[illegible]	[illegible]	[illegible]			
Bulldozing						
Crosscutting						
Drifting						
(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						
Auto [illegible]	50.79	6.25	65.00			
Incidentals	[illegible]	222.95	[illegible]			
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	4439.57	1903.92	6343.49
					53.05	53.05
						6290.44

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

Date [illegible] *Payee Vitro Minerals Corp.

Per J. A. Horlen Title Asst. Treasurer

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

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

(Instructions on reverse)

4 Previous Deductions

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

1850.87
$3329.68

Signature [illegible]
(Authorized Certifying Officer)

Date 10/29/56 Vou. No. DMA 57-51

(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. 74m-E963 in accordance with the terms of the contract.

Signature E. O. Simpson (# 3329.68) Title Mining Engineer Date October 10, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Lance Title Executive Officer Date OCT 25 1956

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 NOV 8 1956 D.M.E.A.

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

Month of August 1956 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible]
Minerals [illegible]
Address [illegible]

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn								
Auger								
Stripping								
Trenching	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Test Pits								
Roads and Trails								
Incidentals	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS		[illegible]		[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		[illegible]		[illegible]				

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

Date Sept. 12, 56 Operator [illegible]

Per J. O. Hartley Title Gen. Manager

REMARKS:

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

(Instructions on reverse)

E O Benyon

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

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

224 New Customhouse
Denver 2, Colorado

October 25, 1956

FINAL DISTRIBUTION
NOV 6 1956
MADE

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 4182 (Uranium) Contract Idm-E963, Vitro Uranium Corporation (George and Ver claim groups) Fremont County, Wyoming - Operator's Monthly Progress Report for the month of August, 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.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remarks

Date of Report - - - - - - - - - - - - - September 14, 1956
Date Received in Field Office- - - - September 24, 1956
Date Received in Region Office- - - - October 12, 1956

Original signed by
W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E963
Chm. Op. Comm. (2)
Shaw (2)
Harshman w/copy engr's report
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
OCT 12 1956
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
October 10, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. O. Bingon

Subject: Docket DMEA 4182 (Uranium) Contract Ida-2963, Vitro Minerals Corporation (George and Ver claims group) Fremont County, Wyoming -- Monthly progress report for August 1956

The operator's report for August, 1956 (August 8 through 27) were received September 24. A field check of the drilling covered by the report was made, however, on September 12, when the property was visited to check the drilling that was completed and reported in the July 1956 report.

During the period 47 holes averaging 138.2 feet in depth, or a total of 6498 feet were drilled. The hole locations were checked and are as shown on the map included with the operator's report. Individual hole logs show collar and bottom elevations and total depth as well as probe results for the hole and sample probe. The hole depths shown on the logs correspond to those on the driller's invoices and the total footages from the logs and invoices, check with the 6498 feet reported. The operator has included a Preliminary Interpretation of Radiometric Logs listing the holes, depth of mineralized sections, probe results for the holes as well as for the samples of cuttings and sample assays. Assay results are also shown on a separate sheet headed "List Correlating Assays, Hole and Interval."

Some anomalous radioactivity was noted in each of the 47 holes drilled, however probe results indicated mineralization of .10 percent eU_3O_8, or slightly better, in only three holes. These holes with depths and both the radiometric and assay results are listed below.

Hole No.	Sample No.	Sample Interval	Radiometric	Fluorimetric Assay	Claim
25-22.5	G-6	28-30	.11	.032	George 4
25-25.5	G-7	48-50	.10	.025	George 4
25-25.5	G-8	50-52	.10	.027	George 4
19-19.5	G-14	82-84	.10	.019	George 2

Hole No. 25-22.5 was sampled from depth 20 to 28 feet and also from 30 to 32 feet, none of the sample showing more than .04 percent

eU_3O_8 and .014 percent by fluorimeter assay. In hole 19-19.5 a 4-foot sample interval from 62-66 had an average radiometric count showing .04 percent eU_3O_8 and an average assay (fluorimeter) of .021 percent U_3O_8. Samples were also taken from 12 other holes (see list correlating assays, etc.) however none of these showed "ore-grade" mineralization either by radiometric or fluorimeter assay.

With the completion of the drilling covered by the report Stage I of the contract has been completed.

Expenditures for drilling and assaying done during the period are supported by the following invoices:

Hupert Drilling Co. (4 invoices) totaling	$1483.00
Bolton Drilling Co. (4 invoices)	1707.50
Evitt Drilling Co. (1 invoice)	317.50
Franklin Drilling Co. (1 invoice)	288.00
Total documented drilling expenditures	$3796.00
Vitro Uranium Co. 1 invoice analyses	58.75
Total documented expenditures	3854.75

The actual drilling cost as documented is $584 per foot or $3796.00 for 6498 feet drilled during August. This with the cost of .496 per foot for 3855 feet drilled in July gives a unit cost to date of $.5537 as shown on the NF-1044.

Approved expenditures and charges are

Drilling 6498 feet at $.584	$3796.00	(rounded)
Analyses 47 samples at 1.25	58.75	
Incidentals at $.09/ft. for 6498 ft.	584.82	
Total	$4439.57	

Payment of 75 percent of $4439.57 or $3329.68 is recommended.

One of the five section maps submitted by the operator has been retained in this office.

A. O. Benyon
Mining Engineer

AOB/mr
cc: 6
IAm-2963
Chron

RECEIVED
SEP 3 1956

14 September 1956

Mr. JOHN P. SHAW
U.S. BUREAU OF MINES
ROOM 137, BUILDING 20
DENVER FEDERAL CENTER
DENVER 2, COLORADO

Dear Mr. Shaw:

Re: Docket DMEA 4182 Uranium
Contract Ida E 963 Vitro
Minerals Corporation Fre-
mont County, Wyoming
Monthly Report No. 2.

We are submitting herewith five copies (5) each of the following items relevant to our Monthly Report No. 2, covering August, 1956, on the above contract.

Form W-104 "Operator's Monthly Report and Voucher".
Form W-104A "Operator's Unit Cost and Progress Report".
Progress Map for the Period.
Weekly Drilling Reports that also invoice Weekly Drilling Costs.
Vitro Uranium Company Assay Invoice.
Vitro Uranium Company Certificate of Analyses.
Preliminary Interpretation of Radiometric Logs.
Narrative Report.
Interpretative Cross Section
List Correlating Assays and Hole No. and Interval.

Stage I of the contract is now completed, as covered by this report. A total of 9,753 feet of drilling was utilized to complete this work, which is 937 feet under the maximum of 10,690 authorized by the contract.

No ore grade materials were discovered in Stage I drilling, but interesting showings of mineralization were found in a number of holes. The most significant appears to be in the area of holes 37—25.5 and 37—29.5 in conjunction with structural features suggestive of channeling (see cross-section). We feel that potentials of this feature warrant approval of Stage II of the program. Minerl indications further west in the block, and on the dividing line between Stage I and Stage II may be indicative of nearby ore to the south.

We strongly recommend that Stage II of this program be given approval and we will be awaiting your decision in this respect.

Yours very truly,

JOH:efp

VIRGO MINERALS CORPORATION
BY J. O. Horton
J. O. HORTON
General Manager

NARRATIVE REPORT

Vitro Minerals Corporation
George & Ver Groups, Wyoming
DMEA 4182, Contract Idm E 963
Monthly Report No. 2, Aug. 1956

Forty seven drill holes were completed during the period of this report, August 8 thru August 21, for a total footage drilled of 6,498 feet. Drilling procedures were equivalent to those of July. These holes averaged a depth of 138.2 feet. In all instances, the holes were bottomed in a green claystone that varies in thickness from about ten feet to many tens of feet. Many of the holes encountered red to brown claystone beds that are interbedded with the green claystone. These interbedded reds and greens probably represent lower Wind River sediments. The green claystone is about 50 feet deep at the northern end of the claims. Toward the south, the claystone progressively gets deeper and the green, grey, and black sandstones that overlie the claystone, thicken. Similarly, the abundance of clay materials in the sediments overlying the green claystone decrease toward the south. A like situation occurs in an east-west direction on the claims. The claystone deepens to the east, the overlying sandstones thicken, and clays in the overlying sediments become less abundant. This situation continues from the west end of the claims eastward to approximately the location of holes 37-28.5 and 37-25.5, its deepest point, and eastward as the claystone begins to become more shallow, the overlying sandstone decreases in thickness, and the clay materials increase.

The situation described above seems to indicate a depression or channel in the vicinity of holes 37-28.8 and 37-25.5 (see cross sections). These two holes, drilled during July, are highly mineralized and are in an area where extensive mineralization is likely to occur. The trend of the zone of mineralization seems to be generally north-south. Further drilling on the south block of the claims is necessary before any definite appraisal can be made.

Mineralization in many drill holes at various depths as shown in the preliminary Interpretation of Radiometric Logs and by the Progress Map cannot be overlooked as leads to potential ore horizons.

It should be noted that the unoxidized sediments in the area covered by the George and Ver Groups are, in general, below the ground water table. Consequently, these sediments must be drilled using water as the circulating medium, and the cuttings taken as samples are subject to contamination and dilution. This has been the case in drilling conducted by Vitro in its mine area as well as DMEA drilling. In the mine area, it was found that probe readings in the unoxidized sediments reflect the grade and thickness of ore quite accurately. The same relation between probe readings and thickness and grade of ore no doubt exists in the area of the George and Ver Groups.

R. O. Adamson

R. O. Adamson
Geologist, Gas Hills District

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 (MONTH) / 13 (DAY) to 8 (MONTH) / 17 (DAY), 1956

George (CLAIM GROUP) — (CLAIMS)

Rupert Drilling Co. (DRILLING CONTRACTOR)

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ~~BY VITRO~~ ITEMS	COST
8/13	19-22.5	165	11	2	1 Billwhite Bit	8.00
	19-19.5	150				
8/14	13-25.5	180	8			
	10-21	160				
8/15	10-15	135	11		1 Bran	4.00
	10-12	120				
8/16	7-13.5	130	11		1 Billwhite Bit	22.00
	7-16.5	135			1 Rock Bit	27.00
8/17	31-22.5	180	9	2		
	19-13.5	90				
	31-25.5	165				
	19-16.5	120				
	12	1730	50	4		61.00
WEEKLY TOTALS	NUMBER OF HOLES	FOOTAGE	800.00 DRILLING HRS.	40.00 TRAVEL HRS.		MATERIALS COST
			COST	COST		

TOTAL FOOTAGE DRILLED 1730

NUMBER OF HOLES 12

AVERAGE DEPTH 144'

TOTAL DIRECT DRILLING COST 901.00

COST PER FOOT 52¢

Raymond [illegible] — DRILLER'S SIGNATURE

R. D. Adamson — GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 (MONTH) / 13 (DAY) to 8 (MONTH) / 17 (DAY), 1956

Ver (CLAIM GROUP) — (CLAIMS)

Rupert Drilling Co. (DRILLING CONTRACTOR)

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/14	19-25.5	195	5			
WEEKLY TOTALS	1 NUMBER OF HOLES	195 FOOTAGE	5 DRILLING HRS. 80.00 COST	0 TRAVEL HRS. COST		MATERIALS COST

TOTAL FOOTAGE DRILLED 195

NUMBER OF HOLES 1

AVERAGE DEPTH 195

TOTAL DIRECT DRILLING COST 80.00

COST PER FOOT .41

[illegible] (DRILLER'S SIGNATURE)

R. D. Adamson (GEOLOGIST'S SIGNATURE)

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 (MONTH) / 6 (DAY) to 8 (MONTH) / 10 (DAY), 1956

Ver (CLAIM GROUP) — (CLAIMS)

Rupert Drilling Co. (DRILLING CONTRACTOR)

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/9	22-24	165	3		1 Bran	4.00
WEEKLY TOTALS	1 NUMBER OF HOLES	165 FOOTAGE	3 DRILLING HRS. 48.00 COST	TRAVEL HRS. 0 COST		MATERIALS COST 4.00

TOTAL FOOTAGE DRILLED 165

NUMBER OF HOLES 1

AVERAGE DEPTH 165

TOTAL DIRECT DRILLING COST 52.00

COST PER FOOT .32

[illegible] DRILLER'S SIGNATURE

R. D. Adamson GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 / 6 to 8 / 10 , 1956
(MONTH DAY MONTH DAY)

George
CLAIM GROUP

CLAIMS

Rupert Drilling Co.
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/8	25.95-6.60	120	9½			
	25-16.5	130				
8/9	25-22.5	165	8			
	22-18	150				
8/10	19-10.5	90	8	2	1 Billwhite Bit	22.00
	22-9	90				
WEEKLY TOTALS	6 NUMBER OF HOLES	745 FOOTAGE	25½ DRILLING HRS.	2 TRAVEL HRS.		22.00 MATERIALS COST
			408.00 COST	20.00 COST		

TOTAL FOOTAGE DRILLED 745

NUMBER OF HOLES 6

AVERAGE DEPTH 124

TOTAL DIRECT DRILLING COST 450.00

COST PER FOOT .60

Raymond Sharp
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 / 13 to 8 / 17, 1956
(MONTH DAY MONTH DAY)

Ver
CLAIM GROUP

CLAIMS

Bolton Drilling Co.
DRILLING CONTRACTOR

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/14	16-27	195	7		2 Mills Bits	34.00
WEEKLY TOTALS	1 NUMBER OF HOLES	195 FOOTAGE	7 DRILLING HRS. 112.00 COST	0 TRAVEL HRS. 0 COST		34.00 MATERIALS COST

TOTAL FOOTAGE DRILLED 195
NUMBER OF HOLES 1
AVERAGE DEPTH 195

TOTAL DIRECT DRILLING COST 146.00
COST PER FOOT .75

J. B. Bolton
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 / 6 to 8 / 10, 1956
(MONTH / DAY to MONTH / DAY)

George (CLAIM GROUP) — (CLAIMS)

Evitt Drilling Co. (DRILLING CONTRACTOR)

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/9	25-10.5	110	9	1	1 Rock Bit	50.00
	25-19.5	130				
8/10	22-12	110	4½	2	1 Drag Bit	21.50
WEEKLY TOTALS	3 NUMBER OF HOLES	350 FOOTAGE	13½ DRILLING HRS. 216.00 COST	3 TRAVEL HRS. 30.00 COST		MATERIALS COST 71.50

TOTAL FOOTAGE DRILLED 350

NUMBER OF HOLES 3

AVERAGE DEPTH 117

TOTAL DIRECT DRILLING COST 317.50

COST PER FOOT .91

Evitt Drilling Co. By Edward H. Evitt
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 (MONTH) / 6 (DAY) to 8 (MONTH) / 10 (DAY), 1956

George (CLAIM GROUP) — (CLAIMS)

Bolton Drilling Co. (DRILLING CONTRACTOR)

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/8	25-7.5	120	6½			
	25-13.5	105				
8/9	25-25.5	180	9		1 Olson Bit	23.00
	22-27	180				
8/10	19-7.5	90	8	2		
	22-15	120				
	16-9	105				
WEEKLY TOTALS	7 NUMBER OF HOLES	900 FOOTAGE	23½ DRILLING HRS.	2 TRAVEL HRS.		23.00 MATERIALS COST
			376.00 COST	20.00 COST		

TOTAL FOOTAGE DRILLED 900

NUMBER OF HOLES 7

AVERAGE DEPTH 129

TOTAL DIRECT DRILLING COST 419

COST PER FOOT .47

J. B. Brewer
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 / 13 to 8 / 17, 1956
MONTH DAY MONTH DAY

George
CLAIM GROUP

CLAIMS

Bolton Drilling Co.
DRILLING CONTRACTOR

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED ITEMS	COST
8/13	16-18	120	10½	2	1 Billwhite Bit	21.50
	16-12	120				
	16-15	120				
8/14	16-21	114	5		1 Billwhite Bit	21.50
8/15	13-22.5	130	10½		1 Bran	4.00
	13-19.5	140			1 Varel Bit	7.00
	13-16.5	115			1 Varel Bit	12.50
8/16	13-13.5	100	11		1 Billwhite Bit	21.50
	13-10.5	95				
8/17	34-24	165	4½	1	1 Billwhite Bit	21.50
WEEKLY TOTALS	10 NUMBER OF HOLES	1219 FOOTAGE	41½ DRILLING HRS.	3 TRAVEL HRS.		MATERIALS COST
			664.00 COST	30.00 COST		109.50

TOTAL FOOTAGE DRILLED 1219

NUMBER OF HOLES 10

AVERAGE DEPTH 120

TOTAL DIRECT DRILLING COST 803.50

COST PER FOOT .66

[illegible]
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/27/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 (MONTH) / 20 (DAY) to 8 (MONTH) / 24 (DAY), 1956

George (CLAIM GROUP) CLAIMS

Bolton Drilling Co. (DRILLING CONTRACTOR)

RATES $16.00 PER HOUR DRILLING $10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED [redacted] ITEMS	COST
8/20	28-24	175	10⅓	2	1 Olson Bit	23.00
	34-27	175				
8/21	28-21	145	8			
	28-27	164				
WEEKLY TOTALS	4 NUMBER OF HOLES	659 FOOTAGE	18½ DRILLING HRS. 296.00 COST	2 TRAVEL HRS. 20.00 COST		MATERIALS COST 23.00

TOTAL FOOTAGE DRILLED 659

NUMBER OF HOLES 4

AVERAGE DEPTH 165

TOTAL DIRECT DRILLING COST 339.00

COST PER FOOT .52

J. D. Bowker
DRILLER'S SIGNATURE

R. D. Adamson
GEOLOGIST'S SIGNATURE

VITRO MINERALS CORPORATION

Inter-Office Memorandum

Date 8/28/56

To Mr. J. O. Horton, General Manager, Salt Lake City, Utah

From Mr. R. D. Adamson, Gas Hills District Geologist, Riverton, Wyoming

Subject WEEKLY DRILLING REPORT from 8 / 14 to 8 / 20 , 1956
(MONTH / DAY to MONTH / DAY)

George
CLAIM GROUP

CLAIMS

Franklin Drilling Co.
DRILLING CONTRACTOR

RATES $ 16.00 PER HOUR DRILLING $ 10.00 PER HOUR TRAVEL

DAY, DATE	HOLE NO.	TOTAL DEPTH FEET	DRILL TIME HOURS	TRAVEL TIME HOURS	MATERIALS FURNISHED [redacted] ITEMS	COST
8/14	10-24	170	7	2		
8/15	10-18	30	2	2		
8/17	10-18	100	5			
8/20	10-18	40	1½			
WEEKLY TOTALS	2 NUMBER OF HOLES	340 FOOTAGE	15½ DRILLING HRS. 248.00 COST	4 TRAVEL HRS. 40.00 COST		MATERIALS COST

TOTAL FOOTAGE DRILLED 340

NUMBER OF HOLES 2

AVERAGE DEPTH 170

TOTAL DIRECT DRILLING COST 288.00

COST PER FOOT .85

DRILLER'S SIGNATURE

GEOLOGIST'S SIGNATURE

KELLY CO. FORM NO. 9 - L 1592

Vitro URANIUM COMPANY

A DIVISION OF VITRO CORPORATION OF AMERICA

600 WEST 33rd SOUTH STREET • SALT LAKE CITY 15, UTAH • TELEPHONE 7-1501

CUSTOMER'S ORDER NO. & DATE

REQUISITION NO.

INVOICE NO.

CONTRACT NO.

DATE August 31, 1956

SOLD TO VITRO MINERALS CORPORATION
600 WEST 33RD SOUTH STREET
SALT LAKE CITY 15, UTAH

SHIPPED TO

SHIPPED VIA

CAR INITIAL & NO.

TERMS:

DATE SHIPPED

QUANTITY	DESCRIPTION	NET POUNDS	PRICE	AMOUNT
	Assaying of core drill samples as follows:			
	For DMEA - George and Ver claims, sample Nos. 6 through 56, inc.			
	51 Fluorimetric Determinations @ $1.25			$63.75
	DEDUCT C-16 -- C-19 inclusive not applicalbe, 4 samples @ $1.25.....			5.00
				$58.75

I certify this to be a true and correct invoice.

by [signature]
Assistant Office Manager

PACKING LIST NOS.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
OCT - 1 1956

CONTROL COPY

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July 1956 Docket No. DMEA 4102 Contract No. Id B 953
Operator's Name Vitro Minerals Corp. Minerals Uranium
Address P. O. 67, South Salt Lake City, Utah
Contract Amount, $ 64,610.00 Government Participation: 70 % Amount, $ 49,812.00

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	1004.72		1004.72			
Bulldozing						
Crosscutting						
Drifting						
(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	0.88		0.88			
Incidentals	288.00		288.00			
(8) Contingencies (specify):						
	1293.00		1293.00			
TOTALS				1850.87	—	1850.87

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

Date Sept. 14 56 *Payee Vitro Minerals Corp.

Per [signature] Title Gen. Manager

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

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

(Instructions on reverse)

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

$ 1388.15

Signature [signature]
(Authorized Certifying Officer)

Date 9-26-56 Vou. No. DMA-57-39

(See other side)

(For Government use only)

Amount $ 1,427.94

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 963 in accordance with the terms of the contract.

Signature E. O. Benson JS/ABL Title Mining Engineer Date Sept. 17 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Weaver Title Executive Officer Date SEP 25 1956

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

CORRECTED COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

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OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1956 Docket No. DMEA 4182 Contract No. 963
Operator's Name VITRO MINERALS CORPORATION Minerals Uranium
Address P. O. Box 67, South Salt Lake City, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Air & water	ft.	1004.72	3255	1004.72	3255	.403	10000	.72
Churn								
Auger								
Stripping Analyses	sample	6.25	5	6.25	5	1.25	200	1.25
Trenching								
Test Pits								
Roads and Trails								
Incidentals	ft.	292.95	3255	292.95	3255	.09	10000	.09
TOTAL DISTRIBUTED COSTS		1003.92		1003.92				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1003.92		1003.92				

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

Date Sept. 14 56 Operator Vitro Minerals Corp.

Per J. C. Harling Title Con. Manager

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

REMARKS:

(Instructions on reverse)

E.O. Bingon 9/17/56

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

DMa 57-39

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

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OCT - 1 1956

Administrative Audit Difference Statement

[illegible]

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

FINAL DISTRIBUTION

[illegible]

MADE SEP 27 1956

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]

The reason for the difference was due to:

[illegible]

(a) [illegible]

(b) [illegible]

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

Very sincerely yours,

Randel R. Cooper
Fiscal Officer, Region III

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

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

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OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 25, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 4182 (Uranium) Contract Idm-E963, Vitro Minerals Corporation (George and Ver claims) Fremont County, Wyoming - Operator's Monthly Progress Report for the month of July, 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.

Except as otherwise noted below, it is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended on the following basis, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Disallow

(a) an amount of $44.86, the reported cost of 91 feet of drilling at $0.493 per foot in Hole No. 37-28.5. This hole was drilled beyond the potential ore-bearing zone contrary to contract stipulations. The disallowed footage begins at a depth of 164 feet, the first recorded lithologic change below the radioactive zone recorded by the Babbel probe. Total depth of the hole is 255 feet.

(b) an amount of $8.19, the Incidental Allowance for 91 feet at $0.09 per foot.

Total amount to be disallowed - - - - - - - - - - - $53.05

Reconciliation with Amount Reported by the Operator on Form MF-104 for July, 1956

Amount reported -	$1,903.92
Amount to be disallowed- - - - - - - - - - - - - - - - - - - -	53.05
Total accepted cost for July, 1956- - - - - - - - - - - - - -	$1,850.87

Government participation at 75 percent- - - - - - - - - - $1,388.15

Remarks

Date of Report - - - - - - - - - - - - - - - September 14, 1956
Date Received in Field Office- - - - - September 17, 1956
Date Received in Region Office- - - - September 20, 1956

W. M. TRAVER

W. M. Traver

Enclosures

JDC:jy
cc: MF-104 File E932
Sec. Op. Comm. (2)
Shaw (2)
Harshman)
Townsend) w/copy engr's report
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
SEP 20 1956
DENVER, COLORADO

RECEIVED
OCT - 1 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
September 19, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. O. Binyon

Subject: Docket DMEA 4182 (Uranium) Contract Idm-5963,
Vitro Minerals Corporation, George and Ver claims,
Fremont County, Wyoming -- Progress report for July 1956

The operator's monthly reports were received on August 24, 1956, however, owing to an error on the MF-10A and MF-10AA forms, these forms were returned for correction on September 12, and the corrected forms were received September 17.

Preliminary surveys were started July 10, and Stage I drilling is reported to have started July 16. The operator's reports are for the period July 16 through July 27.

During the period a total of 3355 feet were drilled in 17 one-core rotary drill holes, located as shown on the map which is included as a part of the operator's report. Of the 17 holes, 4 were drilled to depths of 255 feet, one to 285, and one to 195 feet. Average depth of the remaining 11 holes was approximately 160 feet. Only 5 deep holes are authorized by the contract, these as shown on the map by inked double circle and as numbered by the operator are

Hole No.	Claim	Depth
22-6	George 1	195
43-285	Ver 1	255
25-49.5	Ver 6	255
22-36	Ver 8	255
7-25.5	Ver 11	285

(Holes are numbered from grid coordinates)

The operator, however, drilled hole number 37-28.5 on the George No. 5 claim to a depth of 255 feet in order to obtain information on a sandstone unit that continued below 180 feet. Conditions seem to warrant the additional footage and the full depth of the hole is allowed for payment.

Probe results indicated mineralized sections with better than .03 percent eU_3O_8 in six of the 17 holes. However, all of the sections were below water level except in hole 28-36 at depths 20 to 22 feet and 36 to 38 feet. The counter check of the cuttings showed considerably less eU_3O_8 than the hole probe. The mineralized holes are listed below:

Hole No.	Depth of Mineralization from	to	Hole Probe % eU_3O_8	Sample Check % eU_3O_8	Remarks
25-49.5	200	242	.06 - .07	Blank	wet
28-36	20	22	.04	.03	
	36	38	.05	.01	
	204	206	.07	Blank	wet
	230	232	.05	"	"
37-22.5	36	44	.02 - .12	.02	"
37-25.5	120	126	.10 - .32	.04 - .14	"
58-30	150	56	.10	.01	"

The type of rock where mineralized is given in the operator's "Summary Preliminary Interpretation Radiometric Logs."

Assay results submitted to date include only six samples of 2 foot intervals from depth 138 to 148 in hole 37-25.5 on the George No. 5 claim. The results are very much lower than indicated by the hole probe - ranging from .007 to .019 percent U_3O_8 by assay as against .10 to .32 eU_3O_8 by probe. A field check of the work as reported was made August 8, 1956, in company with C. R. Garrett, and was found to conform to the terms of the contract.

Documentation of the expenditures by the company accompany the report and include 1) Invoices for non-core rotary drilling (2 rigs) from Bogert Drilling Company, that also include company expenses for bits, bron and anchors, 2) Invoice from Vitro Uranium Company covering assays of 3 samples, 3) an invoice from Vitro Minerals Corporation for meals to the drillers.

The operator was billed $1542.90 for drilling on the August 6 invoice, which with the $98.00 board bill for drillers makes a total cost of $1540.90 for drilling 3855 feet or $0.409 a foot. The August 6 invoice did not include items amounting to $60.00 which are billed on the weekly report statements of July 21, and July 28. These weekly reports show a total drilling cost (including the board bill) of $1614.90 or $0.496 a foot. The operator charged $1604.72 for 3855 feet of drilling (HF-1044) or $0.493 a foot.

The approved charges are:

Drilling 3855 feet at $0.43	$1604.72
3 sample analyses at $2.25	6.75
Incidental allowance 3855 feet at $0.05	192.75
Total	$1803.92

It is recommended that the operator be paid $1427.94 or 75 percent of $1903.92.

E O Benson

EOB/gr cc: 6 Idm-2063 Chron

R. O. Binson, mining engineer

August 21, 1956

RECEIVED
OCT - 1 1956

RECEIVED
AUG 24 1956
Div. of Mineral Technology
BUREAU OF MINES
Denver Experiment Station
Denver, Colorado

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

Dear Mr. Shaw:

Re: Docket DMEA 4182 Uranium
Contract Idm-E963
Vitro Minerals Corporation
Fremont County, Wyoming
Monthly Report No. 1 - July 1956

We are transmitting herewith five copies each of the following items relevant to our report No. 1 covering July 1956, on the above contract:

Form MF-104 "Operator's Monthly Report and Voucher"
Form MF-104A "Operator's Unit Cost and Progress Report"
Progress Map for the Period
Drill Hole Logs for the Period
Weekly Drilling Reports for the two weeks covered by this report
Rupert Drilling Company Invoice
Vitro Uranium Company Assay Invoice
Vitro Uranium Company Certificate of Assay
Preliminary Interpretation of Radiometric Logs
Affidavit of Meals Served
Narrative Report

We started survey work on this project on July 10th, with actual drilling being initiated on July 16th. You will note that our contract drilling costs on this report average .493 per foot; well below our allowable up to .70 per foot. Drilling for the present report was on the basis of an hourly charge of $15.00. We have had to increase this rate to $16.00 per hour, and our next report will be based on the latter amount. No separate charge for standby time is indicated. In a few instances, the driller did standby while the hole was probed through steel. This standby time was not invoiced separately by the driller, but included in his overall charge on travel time to us, at the same rate allowed for standby time ($10.00 per hour), and hence we have not included a separate charge in our accounting to you.

On July 17th, 1956, the undersigned wrote a letter to Mr. W. M. Traver requesting that our incidental allowance be increased on this project, for

reasons set forth in the letter, with the understanding that only such part of said additional incidental allowance be allowed that would keep the average contract drilling rate below .70 per foot. The additional amount requested was .13 per foot. On the basis of our first monthly report, this would increase the average drilling rate from .493 to .623 per foot; still below the .70 per foot allowable. We have not received a reply to our request, and hence are billing the present monthly report along the line specified in the contract. In the event that this request is approved at a later date, we presume we may be allowed to make the adjustment retroactive to the current report.

You will note from the enclosed affidavit for meals that during July we have provided meals to the drilling crew on the basis shown. We have a new understanding with the drilling crews that they will hereafter reimburse us for meals eaten at our field camp, and charges thereon will be deducted from future driller's invoices.

Additional samples submitted for assay will be reported in the next month's report, as returns have not been received in time to clear herewith.

We will be very glad to assist in clarifying any points in the enclosed material.

Yours very truly,

VITRO MINERALS CORPORATION

J. O. Horton

J. O. Horton
General Manager

JOH:df

KELLY CO. FORM NO. B - L 1591

Vitro URANIUM COMPANY
A DIVISION OF VITRO CORPORATION OF AMERICA

RECEIVED
OCT - 1 1956

600 WEST 33rd SOUTH STREET • SALT LAKE CITY 15, UTAH • TELEPHONE 7-1501

CUSTOMER'S ORDER NO. & DATE

REQUISITION NO.

INVOICE NO. 8-8

CONTRACT NO.

DATE August 21, 1956

SOLD TO

VITRO MINERALS CORPORATION
600 WEST 3300 SOUTH
SALT LAKE CITY, UTAH

SHIPPED TO

SHIPPED VIA

CAR INITIAL & NO.

TERMS:

DATE SHIPPED

QUANTITY	DESCRIPTION	NET POUNDS	PRICE	AMOUNT
	Assaying of Core Drill Samples as follows:			
	For DMEA - George 5, Samples C-1 through C-5			
	Hole No. 37-25.5			
	5 Fluorimetric Determinations @ $1.25			$6.25

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

by _____
Ray Wootton, Ass't Office Manager

PACKING LIST NOS.

NARRATIVE REPORT

RECEIVED
OCT - 1 1956

Vitro Minerals Corporation
George and Ver Groups, Wyoming
DMEA 4182, Contract Idm-E 963
Monthly Report No. 1, July 1956

Drilling on subject contract was initiated on July 15, 1956. For accounting purposes, the period of this report covers July 16 through July 27, as drillers reports are on a weekly basis.

Seventeen drill holes were completed during this period, for a total footage drilled of 3,255'. The five deep holes authorized by Stage I were completed, with an average depth of 249 feet. The deep hole on George-1 (22-6) encountered the Wind River-Cody Shale contact at 160 feet, and was bottomed at 195 feet. The other four authorized deep holes did not penetrate the Cody Shale, but were successful in establishing a projected maximum depth to penetrate the presently known deepest expected ore horizon presently considered economically mineable. On the drilling covered by this report, this deepest horizon was penetrated at maximum depths of 150 to 180 feet, as influenced by surface elevation. Hole No. 37-28.5, on George-5 (not included in the five deep holes authorized) was drilled to a total depth of 255', as mineralization occurs on this claim and the continuance of a sand section below 180' warranted deeper investigation. Direction and degree of dip in the Wind River can not be established to date, due to the lack of consistent horizons. Dips appear to be gentle and reversals of dip may be present.

The twelve holes other than the five deep tests totaled 2010', for an average depth of 167' per hole.

All holes were drilled with air so far as possible. When the ground water table was reached, water drilling was substituted for air drilling. All holes were probed radiometrically. Bit samples were collected for each two-foot interval drilled. These were described lithologically and radiometric readings taken. A split of each sample was bagged separately for the DMEA. A few holes could not be probed quite to bottom but were probed thru the deepest target horizon in all cases.

Mineralization occurs in hole 25-49.5 at a depth of 240', as shown by probe. Bit cuttings from this interval were negative radiometrically and no assays were run. These were water-cut samples and subject to dilution. This horizon is below allowable drilling depths for the present program and perhaps too deep for economic mining. It may warrant further future investigation.

Mineralization occurs in hole 28-36 at depths of 20', 36', 204' and 230', but assay returns on bit cuttings have not yet been received. Holes 37-25.5 and 37-28.5 indicated good mineralization at depths of 120' and 156' respectively. Shows occured in a dark gray to black sandstone overlying a green claystone. Sample recoveries from these holes was poor and assay results, received to date only on 37-25.5, are low. Lithologically, these shows are in a very favorable environment for ore accumulation and warrant further investigation.

Stage I drilling to date has revealed the presence of a green claystone from 10 to 30 feet thick and found at depths from 60 to 160 feet over the area. This claystone is commonly overlain by a grey sandstone varying in thickness from several feet to several tens of feet. The best shows of mineralization to date have been found in this sandstone, with an environment very similar, and perhaps equivalent to, that of the presently known ore bodies on nearby Vitro and Lucky Mc properties. Drilling depths to this horizon will average from 150' on Stage I to 180' on Stage II.

It is noteworthy that the shows in holes 37-25.5 and 37-28.5 could be in close proximity to, or even within the bounds of a commercial ore body. Mineralization in other holes should not be overlooked as possible leads to additional ore bodies.

VITRO MINERALS CORPORATION

BY: J. O. Horton

J. O. Horton, General Manager

VITRO MINERALS CORPORATION
RIVERTON, WYOMING

RECEIVED
OCT - 1 1956

August 18, 1956

Re DMEA-4182

TO WHOM IT MAY CONCERN:

Below is an itemized listing for meals consumed by the two men on the Rupert Drilling rig during their work on the DMEA drilling on Vitro's George and Ver claims during July 1956. The cost is carried by Vitro and added to the direct drilling charges for this drilling. Subsequent reports will not include this item because it will be deducted from the drillers' current checks.

Date	Number of meals at $1.00 (2 men)
7-16	4.00
7-17	6.00
7-18	6.00
7-19	6.00
7-20	4.00
7-23	4.00
7-24	6.00
7-25	6.00
7-26	6.00
7-27	4.00
	52.00

Donna Forsgren
Donna Forsgren

CERTIFIED TO BE CORRECT

VITRO MINERALS CORPORATION

J. O. Horton
J. O. Horton, General Manager

Contract Adm. & Audit Div.

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

To: Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah

Pursuant to the provisions of Exploration Project Contract No. Idm-E90[illegible] dated June 14, 1956, (Docket No. DMEA-4182), hereinafter called the contract, between Vitro Minerals Corporation, incorporated in the State of Delaware, and the United States of America, hereinafter called the Government ; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

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

Surface non-core drilling performed in the project area penetrated a number of marginal uranium-bearing ore areas occurring in the sedimentary Wind River formation of early Eocene age. The uranium, in part, is present as uraninite.

Date: SEP 30 1957

Murphy/izm 9-23-57 (9-17-57)
Operator
John E. Bansept, Agent for
Sateco Uranium Co.
Fremont Metal & Mining, Inc.
Contract Adm. & Audit Div.
DMEA FT Reg. III (2)
Finance Office
Docket
[illegible]lton A. Youngberg, AEC, GJ. Colo.
[illegible]esse C. Johnson, AEC
[illegible]mr.'s Reading File
[illegible]k E. Johnson
[illegible]ng Committee
[illegible]. Lamb, R. 3608
[illegible]Kilsgaard, Rm. 5224
[illegible]urphy

THE UNITED STATES OF AMERICA

By [illegible]
Administrator, Defense Minerals
Exploration Administration

SEP 20 1957

Mr. C. J. Potter, President
Vitro Minerals Corporation
P. O. Box 57
South Salt Lake City, Utah

Re: Lease No. [illegible] (Uranium)
Contract No. [illegible]
George and Ver Claims
Fremont County, Wyoming

Dear Mr. Potter:

Enclosed is a Certification by the United States of America of a Discovery or Development under an Exploration Contract. This certification covers all the land described in Article I of the subject contract.

By the terms of the Exploration Project Contract, as amended, and of the Certification, all minerals mined or produced from June 14, 1956 to June 30, 1957, are subject to the Government's percentage royalty as set forth in the contract until the amount contributed by the Government is repaid.

Payments should be made to Mr. William A. King, Executive Officer, Uranium Field Team, Region III, 924 New Customhouse Building, Denver 2, Colorado. Checks should be payable to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct the royalties from the amount due on each shipment and forward the check directly to the Executive Officer. Any bonus payments or allowances received by you from the sale of ore are considered to be a part of the purchase price to which the Government's royalty applies. Royalty payments to the Government should be accompanied by suitable evidence such as copies of settlement sheets, showing quantity and grade of the products sold, the name of the purchaser, and the price and charges, certified to be correct by the purchaser.

You are requested to notify Mr. King of any [illegible]ge in ownership or production rights that might

have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for an extended period, please notify Mr. Ling at six-month intervals that no production has been made, when that is the case.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

FMMurphy/lzm 9-17-57

cc: John E. Bansept, Agent
Fremont Metal & Mining, Inc.
Admr.'s Reading File
F. E. Johnson
Operating Committee
THKillsgaard, Rm. 5224
Frank D. Lamb, Rm. 5608
DMEA FT Reg. III (2)
Contract Adm. & Audit Div.
Mr. Murphy

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

Mr. John [illegible] Dansept, Agent
Box 257
Lander, Wyoming

Re: Docket No. DMEA-4[illegible] (Uranium)
Contract No. 1[illegible]
Vitro Minerals Corporation
George and Ver Claims
Fremont County, Wyoming

Dear Mr. Dansept:

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

This correspondence relates to the undated Consent to Lien signed by you and the following: John Dansept, Sr.; Robert Jerome Albert; Clyde Decker; Josephine F. Dansept; George Snyder; and [illegible] Snyder. The Government's prior lien on the land and upon any production therefrom will continue in existence for the length of time mentioned in the enclosed copy of the letter to the Operator. You and the above-named individuals are obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under this agreement, and to give advance notice of the Government's rights to any transferee or lessee of any part of the signers' interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures
cc: Admr.'s Reading File
Operating Committee
THKillingsgaard, 5224
Frank D. Lamb, 3600
Contract Adm. & Audit Div.
DMEA FT Reg. III (2)
Mr. Murphy

FMMurphy/lzm 9-17-57

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

SEP 30 1957

Mr. [illegible] Johnson
Director, Division of [illegible] Materials
Atomic Energy Commission
1717 H Street, [illegible]
Washington [illegible], D. C.

Re: Project No. [illegible] (Grants)
Contract No. [illegible]
Vitro Minerals Corporation
George and Ver Claims
Fremont County, Wyoming

Dear Mr. Johnson:

I am enclosing one copy of a certificate of Discovery or Development relating to the subject exploration contract.

The final report of the above [illegible] has been completed. Accordingly, we will supply additional information for your records upon receipt of this report.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

[illegible]/[illegible] 9-27-57

cc: Mr. Milton A. Youngberg, A.C. G.J. Colo. (w/cc of certification)
[illegible] 3 Reading File
[illegible] Johnson
Operating Committee
Frank D. Lamb, [illegible]
Thrillingard, 5224
[illegible] (2)
Contract Adm. & Audit Div.
Mr. Murphy

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

Fremont Metal and Mining, Inc.
Masonic Building
[illegible] Main Street
Lander, Wyoming

Re: Contract No. [illegible] (Uranium)
Contract No. [illegible]
Vitro Minerals Corporation
George and Mary Claims
Fremont County, Wyoming

Gentlemen:

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

This correspondence relates to the Contract to which signed by Mr. Chas. C. Morlaugh, President, on May [illegible], 19[illegible]. The Government's prior lien on the land and upon any production therefrom will continue to exist for the length of time mentioned in the enclosed copy of the letter to the Operator. Your company is obligated during that period to commit no act and to assert no claim in conflict with the Government's rights under this agreement signed by the President, and to give advance notice of the Government's rights to any transfer, lease or lease of any part of your interest in the land or the production therefrom.

Sincerely yours,

C. O. Mittendorf

Acting Director

Enclosures
CMurphy/ir, [illegible]
cc: Atty.'s Reading File
Operating Committee
Thillisgaard, Rm. [illegible]
Frank D. Lamb, Rm. [illegible]
RT Reg. [illegible] (2)
Contract Adm. & Audit Div.
Mr. Murphy

JAN 23 1959

Mr. C. J. Potter, President
Vitro Minerals Corporation
P. O. Box 67
South Salt Lake City, Utah

Re: Contract No. [illegible] (Uranium)
Contract No. [illegible]
George and Fay Claims
Fremont County, Wyoming

Dear Mr. Potter:

Reference is made to our letter of September 30, 1957, evaluating a certification of discovery or development covering the subject property.

At the time of our letter the total amount contributed by the Government under this project was subject to audit. Subsequently, an audit determined the amount to be $25,734.29 which is repayable by your company through royalty on production. Payments should be made in accordance with the instructions contained in the above-mentioned letter except that checks should be made payable to the Office of Minerals Exploration and sent to the Executive Officer at 224 New Customhouse Building, Denver 2, Colorado.

Sincerely yours,

Frank E. Johnson

Acting Director

Copies to:
Mr. John L. Dansept, Agent
Box 857, Lander, Wyoming

Fremont Metal and Mining, Inc.
Baldwin Building
310 Main Street
Lander, Wyoming

FMMurphy/gla
1-22-59
cc to: Director's Reading File
Mr. Selfridge
Frank E. Johnson
Frank D. Lamb, Rm. 3608
T. H. Killegaard, Rm. 5224
F. M. Murphy
Div. of Contract Adm. & Audit
OME Field Team, Region III (2)

Audit copy

Official
EXTRA COPY
DMEA
RECEIVED SEP 23 1957

DATE	INITIALS	CODE

TERMINATION AGREEMENT

It is agreed this 21st day of August, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Vitro Minerals Corporation, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-8943 (Docket No. DMEA-4182), dated June 14, 1956, as amended, hereinafter called the "Contract," that:

1. Effective June 1, 1957, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute to allowable costs incurred prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. All rights of the Government provided for in the Contract with respect to a certification of discovery or development and a percentage royalty and liens for its payment, records, and audits, and all rights to recover any overpayment, are preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

VITRO MINERALS CORPORATION

By W B Hall

Title Vice Pres

EXTRA COPY
D M E A
RECEIVED SEP 23 1957

DATE	INITIALS	CODE
		800

224 New Customhouse
Denver 2, Colorado

September 18, 1957

Memorandum

To: T. H. Breding, DMEA Auditor

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

Subject: Docket No. DMEA 4182 (Uranium), Contract No. Idm-8963, Vitro Minerals Corporation (George and Ver claims), Fremont County, Wyoming

The subject contract was terminated by mutual agreement before completion of all the work provided for, by a TERMINATION AGREEMENT made effective June 1, 1957. A copy of the Termination Agreement is enclosed for your records.

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

Acceptable units of work or services completed on a Fixed Unit Cost basis consist of:

Incidental allowance on the total of 67,794 feet of drilling, and chemical analysis of 576 samples for U_3O_8 content.

The sum of $500.00 was withheld from reimbursement to the Operator in processing the final accounting report, which was for the month of May, 1957.

Original signed by
J. W. TOWNSEND

J. W. Townsend

Enclosure

JWT:grl

cc: Chem. Op. Comm. (2)
Marshman
Townsend
Corres. file
Chron.

EXTRA COPY DMEA RECEIVED MAY 24 1957		
DATE	INITIALS	CODE
5/24	JWL	220
		800

224 New Customhouse
Denver 2, Colorado

May 21, 1957

Mr. C. H. Smith, Division Geologist
Vitro Minerals Corporation
First and Monroe Streets
Riverton, Wyoming

Re: Docket No. DMEA 4188 (Uranium)
Contract No. 16m-[illegible]
Vitro Minerals Corporation
(George and Ver claims)
Fremont County, Wyoming

Dear Mr. Smith:

Reference is made to the second paragraph of project work approval, dated April 24, 1957, which stipulates as follows: "The offset holes will be drilled at least ten (10) feet and not deeper than twenty (20) feet below the bottom of the mineralized zone."

Inasmuch as the mineralized zone in some of the offset holes has been found to exist deeper than twenty (20) feet below the mineralized zone where encountered in the holes being offset, therefore the provision as restated above is rescinded, effective as of April 24, 1957.

Nothing in this change in previously issued project work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Very truly yours,

DMEA Field Team, Region III

By E. M. Harshman

E. M. Harshman
Acting Executive Officer

JWT:prl
cc: Chan.Op.Comm.-4
Finance Office, Reg. III
Amendment file, Reg. III
Harshman
Homselman-2
Townsend
Corres. file
Chron.

VITRO MINERALS CORPORATION
FIRST AND MONROE STREETS • RIVERTON, WYO. • TELEPHONE 521

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

May 16, 1957

EXTRA COPY
DMEA
RECEIVED MAY 24 1957

DATE	INITIALS	CODE

E. N. Harshman
Acting Exec. Officer
DMEA Field Team, Region 3
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 4182 (uranium)
Contract No. Idm-E 963
Vitro Minerals Corporation
(George and Ver Claims)
Fremont County, Wyoming

Dear Mr. Harshman:

In accordance with our telephone conversation of May 14, 1957, we are requesting relief from the drilling depth limit provision in our DMEA Stage III contract dated April 24, 1957. This provision states " the off-set holes will be drilled at least ten (10) feet, and not deeper than twenty (20) feet below the bottom of the mineralized zone".

As you know the mineralization in the Wind River Formation is irregular and may vary ten feet or more over the 75 ft. off-set distance. For example, in hole 29.5-39.0 the base of the mineralized zone was penetrated at 238 ft. , while off-set hole 28.75-39.0 didnot penetrate this same mineralized zone until a depth of 247 ft. was reached. Thus drilling this hole to the original estimated drilling depth of 250 ft. failed to penetrate the mineralized zone the required ten feet. This similiar condition was encountered in twelve other of the holes drilled to date, and would have been true for many more holes had we not increased the estimated drilling depths by ten to fifteen feet. The opposite condition is true when the mineralized zone is equal to or less than the depth found in the hole being off-set.
By increasing the estimated drilling depths we have penetrated the mineralized zone over the twenty foot maximum restriction in eight holes. The excess footage is slight and only amounts to 69 ft. All holes drilled have penetrated the mineralized zone for a minimum of two feet and and only a maximum of 38 ft. below the base of the mineralized zone.

It is apparent that drilling depths of off-set holes have to be determined before they are drilled, and with the irregularity of mineralization, the holes must be drilled deep enough to allow for a possible increase of the depth of the mineralized zone. Conversely, with a decrease of depth to mineralization in an off-set hole, an excessive penetration will result through the mineralization.

We will appreciate any help or suggestions you have concerning this matter.

VITRO MINERALS CORPORATION
C. H. Smith
C. H. Smith, Div. Geologist

Official

EXTRA COPY
DMEA
RECEIVED APR 29 1957

DATE	INITIALS	CODE
		800

224 New Customhouse
Denver 2, Colorado

April 24, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4182 (Uranium), Contract No. Idm-8963, Vitro Minerals Corporation (George and Ver claims), Fremont County, Wyoming

Enclosed are four copies of project work approval pertaining to Stage III drilling, as issued by the DMEA Field Team, Region III.

Also enclosed are copies of supporting data consisting of two copies of the Operator's request of April 12, 1957, with attached maps, and four copies of a joint memorandum report, dated April 22, 1957, from W. P. Pratt, Geologist, Geological Survey, and E. O. Ringrose, Mining Engineer, Bureau of Mines.

Copies of the work approval have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

Countersigned by
E. N. HARSHMAN

E. N. Harshman

Enclosures

JWT:prl

cc: Finance Office, Reg. III - w/copy of work approval.
Harshman (2)) w/copy of work approval and
Shaw (2)) joint engineering and geologic memorandum.
Corres. file - w/copy of work approval, Operator's request, and joint engineering and geologic memorandum.
Townsend
Chron.

224 New Customhouse
Denver 2, Colorado

April 24, 1957

EXTRA COPY
D M E A
RECEIVED APR 29 195

DATE	INITIALS	CODE

Mr. C. H. Smith, Division Geologist
Vitro Minerals Corporation
First and Kearns Streets
Riverton, Wyoming

Re: Docket No. DMEA 4182 (Uranium)
Contract No. Idm-2945
Vitro Minerals Corporation
(George and Ver claims)
Fremont County, Wyoming

Dear Mr. Smith:

In reference to your request of April 18, 1957 for the Government's approval of additional holes to be drilled under Stage XXX of the Contract, and consistent with provisions in the Contract pertaining thereto, this constitutes the Government's approval for you to drill the following offset holes under the provisions of and in conformance with all requirements in the Contract pertaining to Stage XXI drilling.

The offset holes will be drilled at least ten (10) feet and not deeper than twenty (20) feet below the bottom of the mineralized zone.

Approved Offset Holes 1/

Holes to be Offset	Approved Offset Holes	Estimated Depth to Base of Ore Zone	Estimated Drilling Depth - Feet
85 - 30	85 - 29.25	146	160
	85.75 - 30		160
	84.25 - 30		160
86.5 - 39	86.5 - 38.25	222	235
	87.25 - 39		235
86.5 - 40.5	86.5 - 39.75	234	245
	87.25 - 40.5		245
	86.5 - 41.25		245
	85.75 - 40.5		245

Holes to be Offset	Approved Offset Holes	Estimated Depth to Base of Ore Zone	Estimated Drilling Depth - Feet
28 - 34.5	28 - 35.25	200	210
28 - 37.5	28 - 36.75	212	225
	28.75 - 37.5		225
	28 - 38.25		225
	27.25 - 37.5		225
29.5 - 28.5	30.25 - 28.5	152	165
	29.5 - 29.25		165
29.5 - 36	30.25 - 36	209	220
	29.5 - 36.75		220
29.5 - 39	29.5 - 38.25	238	250
	30.25 - 39		250
	29.5 - 39.75		250
	28.75 - 39		250
29.5 - 43.5	29.5 - 42.75	232	245
	30.25 - 43.5		245
31 - 30	31 - 29.25	150	160
	31.75 - 30		160
	31 - 30.75		160
	30.25 - 30		160
31 - 37.5	31 - 36.75	224	235
	31.75 - 37.5		235
	31 - 38.25		235
	30.25 - 37.5		235
31 - 42	31 - 41.25	235	245
	31.75 - 42		245
	31 - 42.75		245
	30.25 - 42		245
32.5 - 31.5	32.5 - 30.75	184	195
	33.25 - 31.5		195
	32.5 - 32.25		195
	31.75 - 31.5		195
34 - 30	34.75 - 30	154	165
34 - 31.5	34.75 - 31.5	176	190
	34 - 32.25		190

Holes to be offset	Approved offset holes	Estimated Depth to Zone of Ore Body	Estimated Drilling Depth - Feet
35.5 - 32.5	35.5 - 30.75	185	195
	36.25 - 32.5		195
35.5 - 33	35.5 - 30.25	176	190
	36.25 - 33		190
	35.5 - 33.75		190
	34.75 - 33		190
37 - 33	37 - 30.25	182	195
	37.75 - 33		195
38.5 - 31.5	39.25 - 31.5	180	190
	38.5 - 30.25		190
40 - 28.5	40 - 27.75	165	175
	40.75 - 28.5		175
	40 - 29.25		175
	39.25 - 28.5		175
40 - 30	39.25 - 30	168	180
40 - 31.5	40 - 30.75	185	195
	40.75 - 31.5		195
	40 - 32.25		195
40 - 34.5	40 - 33.75	202	215
	40.75 - 34.5		215
	40 - 35.25		215
	39.25 - 34.5		215
41.5 - 30	41.5 - 29.25	178	190
	42.25 - 30		190
	41.5 - 30.75		190
	40.75 - 30		190
41.5 - 33	41.5 - 32.25	199	210
	42.25 - 33		210
	41.5 - 33.75		210
	40.75 - 33		210
Totals	73		15,030

1/ The coordinate locations of approved offset holes are in reference to the coordinates on the map, "Figure 2," attached to the Contract. The first number of each hole is in reference to the coordinate numbers at the top of the map and the second number is in reference to the numbers on the left side of the map.

Nothing in this work approval shall be construed to increase the total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Very truly yours,

NYA Field Team, Region III

By E. M. Hardiman

E. M. Hardiman
Acting Executive Officer

JWT:prl

cc: Chairman, Op. Comm. (4)
Finance Office, Reg. III
Amendment file, Reg. III
Hardiman (2)
Shaw (2)
Townsend
Corres. file
Chrono.

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	Information	

DMEA
DEPARTMENT OF THE INTERIOR
APR 23 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
April 22, 1957

To: Acting Executive Officer, DMEA Field Team, Region III
Through: E. N. Hershman
John F. Shea

From: W. P. Pratt
E. O. Slayen

Subject: Docket No. DMEA 4182 (Uranium), Contract No. Ida-2963,
Vitro Minerals Corporation, (George and Ver claims),
Fremont County, Wyoming.

In a letter dated April 12, 1957, the applicant requested 20,945 feet of offset drilling under Part 2 of Stage III of subject contract. We have evaluated each of the requested offset holes in the light of thickness and grade of the mineralized zone penetrated by the hole being offset and by adjacent holes, and have recommended only those offsets which we believe can be justified on this basis. In general, we have eliminated offsets where the adjacent holes give reasonable evidence that the grade or thickness or both are decreasing toward the offset. The requested offset at 34.5 - 30.5 was eliminated because it is between two holes of good grade and thickness, and appears to be in the nature of blocking out rather than exploring.

The requested depths of the offsets do not follow a consistent rule: some are only as deep as the mineralized zone in the hole being offset, and some exceed this depth by as much as 50 feet. Although a dip of 3° would change the elevation only 4 feet in a horizontal distance of 75 feet (the spacing of the offsets), we have arbitrarily recommended that the offsets be drilled at least 10 feet deeper than the mineralized zone. Where this results in an irregular depth, e. g. 156, we have rounded to the next multiple of 5 or 10. The recommended offsets total 15,650 feet in 73 holes.

A list of requested and recommended offsets is attached. For locations, depths, grades, and thicknesses, reference is made to maps accompanying the applicant's letter of April 12, 1957.

E. N. Hershman
for Walden P. Pratt, geologist

E. O. Slayen, mining engineer

WPP:jg

cc: 9 - Ida-2963 - Hershman - Chron.

Hole to be offset	Offsets recommended	Depth recommended	Offsets recommended	Depth to base of min. zone	Depth recommended
25-30*	N	150	25 - 29.25	146	160
	E	150	25.75 - 30		160
	S	150	—		
	W	150	26.25 —30		160
25-45	N	250			
	E	250			
	S	250			
	W	250			
26.5 - 39	N	250	26.5 - 38.25	282	295
	E	250	27.25 - 39		295
	W	250	—		
26.5 - 40.5	N	250	26.5 - 39.75	234	245
	E	250	27.25 - 40.5		245
	S	250	26.5 - 41.25		245
	W	250	25.75 - 40.5		245
28 - 34.5	N	250	—		
	E	250	—		
	S	250	28 - 35.25	200	210
	W	250	—		
28 - 37.5	N	250	28 - 36.75	212	225
	E	250	28.75 - 37.5		225
	S	250	28 - 38.25		225
	W	250	27.25 - 37.5		225
29.5 - 28.5	N	160			
	E	160	30.25 - 28.5	152	165
	S	160	29.5 - 29.25		165
	W	160			
29.5 - 31.5	N	185	—		
	E	185	—		
	S	185	—		
	W	185	—		
29.5 - 36	N	250			
	E	250	30.25 - 36	209	220
	S	250	29.5 - 36.75		220
	W	250			
29.5 - 39	N	250	29.5 - 38.25	238	250
	E	250	30.25 - 39		250
	S	250	29.5 - 39.75		250
	W	250	28.75 - 39		250

Hole to be offset	Offsets requested	Depth requested	Offsets recommended	Depth to base of ore zone	Depth recommended
29.5 - 43.5	N	240	29.5 - 42.75	232	245
	E	240	30.25 - 43.5		245
	S	240			
	W	240			
31-30	N	170	31 - 29.25	150	160
	E	170	31.75 - 30		160
	S	170	31 - 30.75		160
	W	170	30.25 - 30		160
31 - 37.5	N	250	31 - 36.75	224	235
	E	250	31.75 - 37.5		235
	S	250	31 - 36.25		235
	W	250	30.25 - 37.5		235
31 - 42	N	240	31 - 41.25	235	245
	E	240	31.75 - 42		245
	S	240	31 - 42.75		245
	W	240	30.25 - 42		245
32.5 - 30	N	170	—		
	E	170	—		
32.5 - 31.5	N	190	32.5 - 30.75	184	195
	E	190	33.25 - 31.5		195
	S	190	32.5 - 32.25		195
	W	190	31.75 - 31.5		195
34 - 28.5	N	170	—		
	S	170	—		
	W	170	—		
34 - 30	E	180	34.75 - 30	154	165
34 - 32.5	N	195	—		
	E	195	34.75 --31.5	176	190
	S	195	34 - 32.25		190
35.5 - 31.5	N	190	35.5 - 30.75	183	195
	E	190	36.25 - 31.5		195
35.5 - 33	N	190	35.5 - 32.25	176	190
	E	190	36.25 - 33		190
	S	190	35.5 - 33.75		190
	W	190	34.75 - 33		190

Hole to be offset	Offsets requested	Depth requested	Offsets recommended	Depth to base of ore zone	Depth recommended
37 - 33	N	180	37 - 32.25	182	195
	E	180	37.75 - 33		195
	S	180	—		
38.5 - 31.5	N	190			
	E	190	39.25 - 31.5	180	190
	S	190	38.5 - 32.25		190
	W	190			
40 - 28.5	N	170	40 - 27.75	165	175
	E	170	40.75 - 28.5		175
	S	170	40 - 29.25		175
	W	170	39.25 - 28.5		175
40 - 30	W	170	39.25 - 30	166	180
40 - 31.5	N	190	40 - 30.75	185	195
	E	190	40.75 - 31.5		195
	S	190	40 - 32.25		195
40 - 34.5	N	210	40 - 33.75	202	215
	E	210	40.75 - 34.5		215
	S	210	40 - 35.25		215
	W	210	39.25 - 34.5		215
41.5 - 30	N	180	41.5 - 29.25	178	190
	E	180	42.25 - 30		190
	S	180	41.5 - 30.75		190
	W	180	40.75 - 30		190
41.5 - 33	N	205	41.5 - 32.25	199	210
	E	205	42.25 - 33		210
	S	205	41.5 - 33.75		210
	W	205	40.75 - 33		210
			Total		15,890 feet

* First coordinate refers to distance east of origin, second to distance south.

1957

Riverton, Wyoming
April 12, 1957

DMEA
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APR 15 1957
DENVER, COLO.

Mr. [illegible], Director
D M E A Field Office, Region [illegible]
[illegible] Building
Denver 2, Colorado

Subject: Project No. D M E A [illegible] (Uranium)
Contract No. Idn - [illegible]
Fibro Minerals Corporation
(Sourge and Ver Claims)
Fremont County, Wyoming

Dear Mr. Everett:

Transmitted herewith I am sending you a map showing the results of drilling to date under the D M E A Contract.

The favorable area is outlined with the red dashed line. In this area several zones of mineralization are indicated.

As per the contract, I am requesting the final part of Stage III. The holes will be drilled on 75-foot centers, as offsets to holes drilled in the previous stages which showed uranium in amounts to be considered significant.

Total estimated footage under this contract is 76,130 ft., of this amount 53,448 ft. has been drilled leaving a total footage of 22,682 ft. available under part 2 Stage III.

The table below lists the holes needing offsets and the offsets with estimated drilling depths.

Offset Drilling Under Stage III, Part (2)
on 75-foot Uranium Anomaly

Hole to be Offset	Offset Holes	Estimated Depth of Hole - Feet
[illegible] - [illegible]	[illegible] - [illegible]	150'
	[illegible] - [illegible]	150'
	[illegible] - [illegible]	150'
	[illegible] - [illegible]	150'

[illegible]

[illegible]

[illegible]

Published Daily
at Dale, Texas

Entered at the Post Office at Dale, Texas, as second class matter under the act of March 3, 1879.

Subscription Price
$1.00 per year

Hole to be Offset	Offset Holes	Estimated Depth Of Hole - Feet
38.5 - 31.5	37.75 - 31.5	190'
	38.5 - 30.75	190'
	39.5 - 32.25	190'
	39.25 - 32.5	190'
40 - 28.5	39.25 - 28.5	175'
	40 - 27.75	175'
	40 - 29.25	170'
	40.75 - 28.5	175'
40 - 30	39.75 - 30	170'
40 - 31.5	40 - 30.75	190'
	40 - 32.25	190'
	40.75 - 31.5	190'
40 - 34.5	39.25 - 34.5	210'
	40 - 33.75	210'
	40 - 35.25	210'
	40.75 - 34.5	210'
41.5 - 30	40.75 - 30	180'
	40.5 - 29.25	180'
	41.5 - 30.75	180'
	42.25 - 30	180'
41.5 - 33	40.75 - 33	205'
	41.5 - 32.25	205'
	41.5 - 33.75	205'
	42.25 - 33	205'
	101	20,945

The coordinate location of holes are in reference to the coordinates on the enclosed map. Proposed holes are marked on the map by a red cross.

Very truly yours,

Vitro Minerals Corporation

C. H. Smith, Div. Geologist

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

20th New Customhouse
Denver 2, Colorado

January 31, 1957

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DATE	INITIALS	CODE
2-4	C	220
		800

Mr. David L. Walsh, Geologist
Wyoming Division
Vitro Minerals Corporation
First and Monroe Streets
Riverton, Wyoming

Re: Docket No. DMEA 4182 (Uranium)
Contract No. IAm-8963
Vitro Minerals Corporation
(George and Vir claims)
Fremont County, Wyoming

Dear Mr. Walsh:

Reference is made to your letter of December 13, 1956, wherein you request the Government's approval for drilling under Stage II, Phase (3), and Stage III of the Contract.

Stage II, Phase (3), of the Contract provides for offset drill holes not primary grid holes. Therefore, your request for approval of drilling additional primary grid holes as outlined under category (B) of your request is denied.

Confirmation of verbal approval on January 17, 1957, for drilling Stage II, Phase (3) (Category (A) of your request) and for drilling under Stage III is as follows:

Offset Drilling under Stage II, Phase (3)
on 150-Foot Minimum Spacing

Coordinate Locations of Holes 1/

Hole to be Offset	Approved Offset Holes	Estimated Depth of Hole - Feet
10-36	8.5 - 36	145
	10 - 34.5	145
	10 - 37.5	145
	11.5 - 36	145

Hole to be Offset	Approved Offset Holes	Estimated Depth of Hole - Feet
19-37.5	17.5 - 37.5	185
	19 - 36	185
	19 - 39	185
	20.5 - 37.5	185
22-45	20.5 - 45	210
	22 - 45.5	210
	22 - 46.5	210
	23.5 - 45	210
22-48	20.5 - 48	170
	22 - 49.5	170
	23.5 - 48	170
25-28.5	23.5 - 28.5	150
	25 - 30	150
	26.5 - 28.5	150
25-34.5	23.5 - 34.5	250
	23 - 35	250
	25 - 36	250
	26.5 - 34.5	250
25-40.5	23.5 - 40.5	240
	23 - 39	240
	26.5 - 40.5	240
25-43.5	23.5 - 43.5	260
	23 - 42	260
	23 - 45	260
	26.5 - 43.5	260
25-49.5	23.5 - 49.5	260
	23 - 48	260
	23 - 51	260
	26.5 - 49.5	260
28-36	26.5 - 36	250
	28 - 34.5	250
	29.5 - 36	250
28-39	26.5 - 39	250
	28 - 37.5	250
	28 - 40.5	250
	29.5 - 39	250

Hole to be Offset	Approved Offset Holes	Estimated Depth of Hole - Feet
28-45	26.5 - 45	250
	28 - 45.5	250
	29.5 - 45	250
28-48	26.5 - 48	170
	28 - 46.5	170
	28 - 49.5	170
	28.5 - 48	170
31-28.5	29.5 - 28.5	170
	31 - 27	170
	32.5 - 28.5	170
31-31.5	29.5 - 31.5	195
	31 - 30	195
	31 - 33	195
	32.5 - 31.5	195
31-43.5	29.5 - 43.5	255
	31 - 42	255
	31 - 45	255
	32.5 - 43.5	255
34-30	32.5 - 30	180
	34 - 28.5	180
	35.5 - 30	180
34-33	32.5 - 33	210
	34 - 31.5	210
	34 - 34.5	210
	35.5 - 33	210
37-31.5	35.5 - 31.5	185
	37 - 33	185
	38.5 - 31.5	185
40-30	38.5 - 30	185
	40 - 28.5	185
	40 - 31.5	185
	41.5 - 30	185
40-35	38.5 - 35	180
	40 - 34.5	180
	41.5 - 35	180
Total 21 holes	75 holes	15,685

Offset Drilling under Stage III
on 75-Foot Minimum Spacing

Coordinate Locations of Holes 1/

Hole to be Offset	Approved Offset Holes	Estimated Depth of Hole - Feet
16-15	15.85 - 15	80
	16 - 14.85	80
	16.75 - 15	80
16-16.5	15.85 - 16.5	85
	16 - 15.75	85
	16 - 17.85	85
	16.75 - 16.5	85
17.5-15	17.5 - 14.85	60
	17.5 - 15.75	60
	18.85 - 15	60
17.5-16.5	17.5 - 17.85	60
	18.85 - 16.5	60
17.5-19.5	16.75 - 19.5	100
	17.5 - 18.75	100
	17.5 - 20.85	100
	18.85 - 19.5	100
19-16.5	19 - 15.75	50
19-18	18.85 - 18	100
	19 - 17.25	100
	19 - 18.75	100
	19.75 - 18	100
19-19.5	19.75 - 19.5	100
	19 - 20.85	100
19-21	18.85 - 21	100
	19 - 21.75	100
	19.75 - 21	100
20.5-16.5	19.75 - 16.5	85
	20.5 - 15.75	80
	20.5 - 17.25	80
	21.25 - 16.5	80

Hole to be Offset	Approved Offset Holes	Estimated Depth of Hole - Feet
20.5-19.5	20.5 -18.75	95
	20.5 - 20.25	95
	21.25 - 19.5	95
22-15	21.25 - 15	70
	22 - 14.25	70
	22 - 15.75	70
	22.75 - 15	70
22-16.5	22.75 - 16.5	70
	22 - 17.25	70
22-27	22 - 26.25	145
	22 - 27.75	145
	22.75 - 27	145
23.5-15	23.5 - 14.25	70
	23.5 - 15.75	70
	24.25 - 15	70
23.5-25.5	22.75 - 25.5	170
	23.5 - 24.75	170
	23.5 - 26.25	170
	24.25 - 25.5	170
23.5-27	23.5 - 27.75	145
	24.25 - 27	145
25-22.5	24.25 - 22.5	45
	25 - 22.75	45
	25 - 23.25	45
	25.75 - 22.5	45
25-25.5	25 - 24.75	65
25-27	25 - 26.25	85
	25.75 - 27	85
	25 - 27.75	85
26.5-25.5	26.5 - 24.75	160
	25.75 - 25.5.	160
	26.5 - 26.25	160
35.5-25.5	34.75 - 25.5	145
	35.5 - 24.75	145
	35.5 - 26.25	145

Hole to be Offset	Approved Offset Holes	Estimated Depth of Hole - Feet
35.5-28.5	34.75 - 28.5	170
	35.5 - 27.75	170
	35.5 - 29.25	170
37-21	36.25 - 21	65
	37 - 20.25	65
	37.75 - 21	65
37-22.5	36.25 - 22.5	85
	37 - 21.75	85
	37.75 - 22.5	85
37-24	36.25 - 24	140
	37 - 23.25	140
	37.75 - 24	140
37-25.5	36.25 - 25.5	165
	37 - 24.75	165
	37.75 - 25.5	165
37-27	36.25 - 27	175
	37 - 26.25	175
	37.75 - 27	175
37-28.5	36.25 - 28.5	180
	37 - 27.75	180
	37.75 - 28.5	180
37-30	37 - 29.25	185
	37 - 30.75	185
	36.25 - 30	185
	37.75 - 30	185
38.5-25.5	38.5 - 24.75	135
	38.5 - 26.25	135
38.5-28.5	38.5 - 27.75	180
	38.5 - 29.25	180
Total 32 holes	94 holes	10,395 feet

Footnote 1/ The coordinate locations of holes are in reference to the coordinates on the map, Figure 2, attached to the Contract. The first number of each hole is in reference to the coordinate numbers at the top of the map, and the second number of the hole is in reference to the numbers at the left side of the map.

Nothing in this confirmation of work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Very truly yours,

SERA Field Team, Region III

W. M. Traver

W. M. Traver

E. H. Hardman

E. H. Hardman

JWT:prl

cc: Chairman, Op. Comm. (4)
Finance Office, Reg. III
Amendment file, Reg. III
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DMEA
DEPARTMENT OF THE INTERIOR
JAN 30 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado

REGION III

Memorandum

January 25, 1957

To: Executive Officer, DMEA Field Team, Region III
Through: John F. Shaw
Supervising Mining Engineer

From: E. N. Harshman and E. O. Bixyon

Subject: Docket DMEA 4182 (Uranium) Contract Idm-8963 Vitro Minerals Corporation (George and Vir claims) Fremont County, Wyoming. Recommendations for Stage II - Phase III and Stage III drilling under the contract.

In a letter dated December 13, 1956 the operator requested approval of drilling 3 separate groups of holes. One group of 35 holes with the total footage of 7,000 feet is to be drilled under Stage II - Phase 3, and is to complete the widely spaced grid pattern. The second group is offset drilling at 150-foot spacing around holes drilled under Stage II - Phase 1, and includes 96 holes with a total aggregate footage of 19,085 feet. The third group consists of 137 holes with a total footage of 15,705 feet to be drilled at 75-foot spacing around mineralized holes of both Stage I and Stage II - Phase 2. This group is to be drilled under Stage III.

From a review of the drilling completed to date, it is concluded that the proposed drilling plan should be modified, and it is recommended that the modified drilling program as outlined below be approved.

1) Completion of widely spaced grid pattern.(Stage II-Phase 3. Actually, Stage I and Stage II-Phase 1) No holes to be drilled. These holes are considered a part of Stage I and Stage II-Phase 1 drilling, and should have been requested and included as a part of the widely spaced drilling.

2) Stage II - Phase 3: Offset drilling at 150 feet spacing around mineralized holes drilled under Stage II - Phase 1.

The following holes are to be drilled.

Hole No. (To be offset)	Offset Holes Hole No.	Depth feet
10-36	8.5 - 36	145
	10 - 34.5	145
	10 - 37.5	145
	11.5 - 36	145
19-37.5	17.5 - 37.5	185
	19 - 36	185
	19 - 39	185
	20.5 - 37.5	185
22-45	20.5 - 45	210
	22 - 43.5	210
	22 - 46.5	210
	23.5 - 45	210
22-48	20.5 - 48	170
	22 — 49.5	170
	23.5 - 48	170
25—28.5	23.5 - 28.5	150
	25 - 30	150
	26.5 - 28.5	150
25-34.5	23.5 - 34.5	250
	25 - 33	250
	25 - 36	250
	26.5 - 34.5	250
25-40.5	23.5 - 40.5	240
	25 --39	240
	26.5 - 40.5	240
25 - 43.5	23.5 - 43.5	260
	25 - 42	260
	25 - 45	260
	26.5 - 43.5	260
25-49.5	23.5 - 49.5	260
	25 - 48	260
	25 + 51	260
	26.5 - 49.5	260
28-36	26.5 - 36	250
	28 -34.5	250
	29.5 - 36	250

Hole No. (To be offset)	Offset Holes Hole No.	Depth feet
28-39	26.5 - 39	250
	28 - 37.5	250
	28 - 40.5	250
	29.5 - 39	250
28-45	26.5 - 45	250
	28 - 43.5	250
	29.5 - 45	250
28-48	26.5 - 48	170
	28 - 46.5	170
	28 - 49.5	170
	29.5 - 48	170
31-28.5	29.5 - 28.5	170
	31 - 27	170
	32.5 - 28.5	170
31-31.5	29.5 - 31.5	195
	31 - 30	195
	31 - 33	195
	32.5 - 31.5	195
31-43.5	29.5 - 43.5	255
	31 - 42	255
	31 - 45	255
	32.5 - 43.5	255
34-30	32.5 - 30	180
	34 - ~~32.5~~ 28.5	180
	35.5 - 30	180
34-33	32.5 - 33	210
	34 - 31.5	210
	34 - 34.5	210
	35.5 - 33	210
37-31.5	35.5 - 31.5	185
	37 - 33	185
	38.5 - 31.5	185
40-30	38.5 - 30	185
	40 - 28.5	185
	40 - 31.5	185
	41.5 - 30	185

Hole No. (To be offset)	Offset Holes Hole No.	Depth Feet
40-33	38.5 - 33	180
	40 - 34.5	180
	41.5 - 33	180
Total 21 holes	75 holes	15,625

Stage III Offset drilling 75 feet spacing around mineralized holes drilled in previous stages.

The following holes are to be drilled.

Hole No. (To be offset)	Offset Holes Hole No.	Depth feet
16-15	15.25 - 15	80
	16 - 14.25	80
	16.75 - 15	80
16-16.5	15.25 - 16.5	85
	16 - 15.75	85
	16 - 17.25	85
	16.75 - 16.5	85
17.5-15	17.5 - 14.25	60
	17.5 - 15.75	60
	18.25 - 15	60
17.5-16.5	17.5 - 17.25	60
	18.25 - 16.5	60
17.5-19.5	16.75 - 19.5	100
	17.5 - 18.75	100
	17.5 - 20.25	100
	18.25 - 19.5	100
19-16.5	19 - 15.75	50
19-18	18.25 - 18	100
	19 - 17.25	100
	19 - 18.75	100
	19.75 - 18	100
19-19.5	19.75 - 19.5	100
	19 - 20.25	100

Hole No. (To be offset)	Offset Holes Hole No.	Depth Feet
19-21	18.25 - 21	100
	19 - 21.75	100
	19.75 - 21	100
20.5-16.5	19.75 - 16.5	80
	20.5 - 15.75	80
	20.5 - 17.25	80
	21.25 - 16.5	80
20.5-19.5	20.5 - 18.75	95
	20.5 - 20.25	95
	21.25 - 19.5	95
22-15.	21.25 - 15	70
	22 - 14.25	70
	22 - 15.75	70
	22.75 --15	70
22-16.5	22.75 - 16.5	70
	22 --17.25	70
22-27	22 - 26.25	145
	22 - 27.75	145
	22.75 - 27	145
23.5-15	23.5 - 14.25	70
	23.5 - 15.75	70
	24.25 - 15	70
23.5-25.5	22.75 - 25.5	170
	23.5 - 24.75	170
	23.5 - 26.25	170
	24.25 - 25.5	170
23.5-27	23.5 - 27.75	145
	24.25 - 27	145
25-22.5	24.25 - 22.5	45
	25 - 21.75	45
	25 - 23.25	45
	25.75 - 22.5	45
25-25.5	25 - 24.75	65

Hole No. (To be offset)	Offset Holes Hole No.	Depth Feet
25-27	25 - 26.25	85
	25.75 - 27	85
	25 - 27.75	85
26.5-25.5	26.5 - 24.75	160
	25.75 - 25.5	160
	26.5 - 26.25	160
35.5-25.5	34.75 - 25.5	145
	35.5 - 24.75	145
	35.5 - 26.25	145
35.5-28.5	34.75 - 28.5	170
	35.5 - 27.75	170
	35.5 - 29.25	170
37-21	36.25 - 21	65
	37 - 20.25	65
	37.75 - 21	65
37-22.5	36.25 - 22.5	85
	37 - 21.75	85
	37.75 - 22.5	85
37-24	36.25 - 24	140
	37 - 23.25	140
	37.75 - 24	140
37-25.5	36.25 - 25.5	165
	37 - 24.75	165
	37.75 - 25.5	165
37-27	36.25 - 27	175
	37 - 26.25	175
	37.75 - 27	175
37-28.5	36.25 - 28.5	180
	37 - 27.75	180
	37.75 - 28.5	180
37-30	37 - 29.25	185
	37 - 30.75	185
	36.25 - 30	185
	37.75 - 30	185

Hole No. (To be offset)	Offset Holes Hole No.	Depth Feet
38.5-26.5	38.5 - 24.75.	135
	38.5 - 26.25	135
38.5-28.5	38.5 - 27.75	180
	38.5 - 29.25	180
Total 32 holes	94 holes	10,595 feet

The holes are numbered from co-ordinates on the map accompanying the operator's request. The first number of each hole number is read from left to the right and the second number of the hole is read down the map.

E. O. Bunyan
Mining Engineer

E. N. Harshman
Member Field Team

EOB:jg

cc: 9
DMRA 4182
Harshman
Guren.

Government's Copy

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 14 1957

DATE	INITIALS	CODE
		800

EXPLORATION PROJECT CONTRACT
VITRO MINERALS CORPORATION
DOCKET NO. DMEA-4182

Amendment No. 2

It is agreed this 10th day of January, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration, and Vitro Minerals Corporation, parties to Exploration Project Contract No. Idm-E963, Docket No. DMEA-4182, dated June 14, 1956, that:

1. (a) The work under the Contract shall be suspended during the period beginning November 27, 1956, and ending not later than March 15, 1957.

(b) The Government shall not contribute to any costs incurred by the Operator during the period of suspension or to any costs of rehabilitation or repair which, in the Government's opinion, would not have occurred if there had been no suspension of the work.

(c) The Operator at its own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. The date fixed in Article 3 for completion of the work is extended from January 1, 1957, to August 14, 1957.

3. The maximum period for royalty payments and liens for the payment thereof, provided for in the Contract, is extended to eleven (11) years.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, or the amount of any item designated as maximum.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By E. M. Hardman
Acting Executive Officer
DMEA Field Team, Region III

VITRO MINERALS CORPORATION

By [illegible]

Title Vice Pres

VITRO MINERALS CORPORATION
1st and Monroe
Riverton, Wyoming

UL 6-2248

14 December 1956

MR. W.H. TRAVER
EXECUTIVE OFFICER, DMEA
FIELD TEAM, REGION III
ROOM 224, NEW CUSTOMHOUSE
DENVER 2, COLORADO

DMEA
DEPARTMENT OF THE INTERIOR
DEC 17 1956
REGION III
DENVER, COLORADO

RECEIVED JAN 14 19
DATE | INITIALS

Re: Docket No. DMEA 4182
(Uranium) Contract No.
IAC E963 VITRO MINERALS
CORPORATION (George and
Ver Claims, Fremont
County, Wyoming

Dear Mr. Traver:

This letter replys to your letter, dated December 12, 1956, wherein you requested certain information for preparing a suitable instrument for extending the completion date for work under the Contract to July 15, 1957.

The last work performed under the Contract was the completion of reports on December 14, 1956. The last drilling was completed on November 26, 1956.

Drilling operations will be resumed in the Spring on or before March 15, 1957.

Very truly yours,

David L. Welch

DAVID L. WELCH
GEOLOGIST, WYOMING DIVISION

DLW:ers

cc:
J.O.Horton
Gen Manager
Salt Lake City, Utah

Enclosed - Original & 5 copies.

DMEA
DEPARTMENT OF THE INTERIOR
DEC 12 1956
REGION III
DENVER, COLORADO

12 December 1956

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DMEA
RECEIVED JAN 14 1957

DATE	INITIALS	CODE

MR. W.Y. TRAVER
EXECUTIVE OFFICER, DMEA
FIELD TEAM, REGION III
UNITED STATES DEPARTMENT OF THE INTERIOR
ROOM 224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

Re: Your Letter December 7, 1956
Docket DMEA-4120 (Uranium)
Contract Idm-E962
George and Ver Claims
Fremont County, Wyoming

Dear Mr. Traver:

It will be impossible for reasons beyond our control to complete all the approved work under Contract Idm-E962 by January 1, 1957. This letter requests consideration by the Government of our need to extend the completion date to July 15, 1957.

In support of this request, the following tabulation shows the work already finished, and estimations of the drilling remaining to complete the contract:

	Stage and Phase	Footage	Holes	Contract Footage Allowed	Holes
	Stage I	9,753	63	10,690	63
Completed	Stage II Phase 1	12,270	64	10,400	64
Drilling-------	Stage II Phase 2	3,660	36	12,160	76
Projected	Stage II Phase 3	18,230	93	12,800	80
Drilling-------	Stage III	32,217	215	30,080	188
		76,130	471	76,130	471

Winter weather conditions make it seem unlikely that the projected drilling on this contract can commence before spring. At that time, the proposed drilling may take two to three months for completion.

Con't letter dtd 12 Dec 56 from Vitro Min Corp
to Mr. H.H.Troyer

Results of the last drilling completed are being forwarded to Mr. Shaw under separate cover. These results, we believe, are very encouraging.

A request for approval of the projected drilling is also ready for forwarding to your office.

Very truly yours,

David L. Welsh

DAVID L. WELSH
WYOMING DIVISION GEOLOGIST

DLW:sfs

cc:
J.C.Horton
Gen Manager
Salt Lake City, Utah

Enclosed Orignal and 5 copies

RECEIVED

OCT 29 1956

EXPLORATION PROJECT CONTRACT
VITRO MINERALS CORPORATION
DOCKET NO. DMEA 4182
CONTRACT NO. Idm-E963

AMENDMENT NO. 1

It is agreed this 18th day of October, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Vitro Minerals Corporation, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. Idm-E963, Docket No. DMEA 4182, dated June 14, 1956, hereinafter called the "Contract," that the Contract is amended as follows, effective June 14, 1956:

> Referring to Exhibit "A" attached to Exploration Project Contract form MF-200 (Revised June 1954), page 2, subheading "Stage I," first paragraph, in the first line change the figure "63" to read "64"; in the next to the last line, change the figure "58" to read "59."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Executed in sextuplicate the day and year first above written.

VITRO MINERALS CORPORATION

By C. J. Potter
C. J. Potter, President

UNITED STATES OF AMERICA

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

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OCT 22 1956

REGION III

Memorandum

Building 20
Denver Federal Center
Denver 2, Colorado
October 19, 1956

DMEA
DEPARTMENT OF THE INTERIOR
OCT 22 1956
REGION III
DENVER, COLORADO

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. O. Binyon

Subject: Docket DMEA 4182 (Uranium) Contract Idm-E963, Vitro Minerals Corporation (George and Ver claims group) Fremont County, Wyoming. —Amendment of Contract

According to the wording of the first paragraph under Stage I Exhibit A of the Contract, it seems to stipulate that 63 holes with an aggregate total footage of 10,690 are to be drilled under Stage I. However, if the average depth of 160 feet (Exhibit A, General Provisions, paragraph 1) is used for the 58 holes (single circle on map) and an average depth of 250 feet for the 5 holes (double circle on map), the total aggregate footage should be 10,530 feet or 160 feet less than the 10,690 stipulated. The Contract map shows 59 single circled holes (depth 160) and 5 double circled holes (250) or a total aggregate footage of 10,690 feet, indicating that possibly 64 holes are to be drilled under Stage I.

The operator apparently has used the Contract map for a layout of Stage I drilling and in good faith has drilled 64 holes with an aggregate total depth of 9,753 feet as reported in the monthly reports for July and August, 1956. The drilling covered by these reports has conformed to all terms of the contract as interpreted from the Contract map and total footage authorized.

In order that the wording of the Contract, the total footage for Stage I and the number of holes on the Contract map, shall conform, it is recommended that the Contract be amended and that "63 holes" in line 1 of paragraph 1 under Stage I Exhibit A be changed to 64 holes and the "58 holes" in line 9 of the same paragraph be changed to 59 holes.

It is also recommended that the amendment be made effective as of the date of the Contract.

E O Binyon
E. O. Binyon
Mining Engineer

cc: 9
Idm-E963
Chron

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

RECEIVED
OCT 25 1956

224 New Customhouse
Denver 2, Colorado

October 23, 1956

Mr. J. C. Horton, General Manager
Vitro Minerals Corporation
P. O. Box 67
South Salt Lake
Salt Lake City, Utah

Re: Docket No. DMEA 4182 (Uranium)
Contract No. Idm-E963
Vitro Mine als Corporation
(George and Ver claims)
Fremont County, Wyoming

Dear Mr. Horton:

In reference to the request by D. L. Welsh, Wyoming Division Geologist, Vitro Minerals Corporation, dated October 13, 1956, this confirms the Government's approval by telephone on October 19, 1956, for Vitro Minerals Corporation to perform the following Stage II, Phase (1) and Stage II, Phase (2) drilling under Contract No. Idm-E963:

Stage II, Phase (1) - 64 Holes

Stage II, Phase (1) drilling may be performed as outlined in the contract at the locations indicated by the small triangle symbol on the map, "Figure 2" attached to the contract, except that the southwesterly hole shown on the Ver - 5 claim at coordinates 10-39 will not be drilled.

It is estimated that approximately 1,900 feet in addition to the 10,400 feet estimated for Stage II, Phase (1) may be required to complete the 64 holes to their objectives. Therefore, consistent with the provisions in the contract relative to transfer of required footage to complete approved holes, the necessary additional footage may be obtained by transfer to Stage II, Phase (1) of the footage unexpended under Stage I and the balance required from the footage apportioned to Stage III.

Stage II, Phase (2) - 36 Holes Offsetting Stage I Holes

Coordinate location of Stage I Holes to be Offset	Coordinate Location of Approved Stage II, Phase (2) Offset Holes	Estimated Depth
16 - 15	14.5 - 15.	70
	16 - 13.5	70
	16 - 16.5	70
	17.5 - 15	70
19 - 16.5	17 - 16.5	50
	19 - 15	50
	20.5 - 16.5	50
19 - 19.5	17.5 - 19.5	90
	19 - 18	90
	19 - 21	90
	20.5 - 19.5	90
22 - 15	20.5 - 15	65
	22 - 13.5	65
	22 - 16.5	65
	23.5 - 15	65
25 - 22.5	23.5 - 22.5	40
	25 - 21	40
	26.5 - 22.5	40
25 - 25.5	23.5 - 25.5	170
	25 - 24	170
	25 - 27	170
	26.5 - 25.5	170
22 - 27	20.5 - 27	135
	22 - 25.5	135
	22 - 28.5	135
	23.5 - 27	135
37 - 22.5	35.5 - 22.5	55
	37 - 21	55
	38.5 - 22.5	55
37 - 25.5	35.5 - 25.5	135
	37 - 24	135
	38.5 - 25.5	135
37 - 28.5	35.5 - 28.5	170
	37 - 27	170
	37 - 30	170
	38.5 - 28.5	170
Totals 36 holes		5640 ft. estimated aggregate

Nothing in this confirmation of work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the fixed unit cost of any item of work, nor any item of allowable cost which is expressly designated "maximum."

Very truly yours,

DMEA Field Team, Region III

W. M. Trever

E. W. Marshman

JWT:prl

cc: Chairman, Op. Comm. (4)
Finance Office, Reg. III
Amendment file, Reg. III
Marshman
Shaw
Townsend
Corres. file
Chron.

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OCT 25 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
October 22, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. N. Harshman
E. O. Bingen

Subject: Docket DMEA 4152 (Uranium) Contract Ian-3563, Vitro Minerals Corporation (George and Ver claims group) Fremont County, Wyo. — Request for Stage II drilling

The operator, in a letter of transmittal for the August 1956 monthly reports covering the drilling that completed Stage I of the contract, included a request for blanket approval of Stage II. As this did not outline the work project in detail and did not include any supporting data he was advised to submit a formal request and to include all available information in support of the request.

In a letter to W. M. Traver, Executive Officer, dated October 13 the operator requested approval of Stage II, Phase 1 (Grid drilling) and a part of the offset drilling as authorized under Stage II, Phase 2 of the contract to offset mineralized holes of Stage I. For Phase 1, an additional 1843 feet will be required and a transfer of footages from Stage I and Stage II, Phase 2, to make up the increase in total footage, is also requested.

Under Stage I which was completed August 27, a total of 10,690 feet in 64 holes were authorized by the contract (amended); however, of the authorized footage, only 9,753 feet were used in the 64 holes drilled to explore the northern half of the property and there by 937 feet remain under Stage I and are available for transfer.

As outlined by the operator, the location of Stage II, Phase 1 holes being down dip of the Wind River formation will increase the depth of the holes to an estimated average depth of 191.3 feet, or 31.3 feet, over the average depth of 160 feet used in calculation of the 10,400 feet authorized for Phase 1 drilling. For 64 holes with an average depth of 191.3 feet, the total footage to be drilled under Stage II, Phase 1 (Grid drilling) is 12,243 feet or 1843 feet over the authorized maximum of 10,400 feet for Phase 1 of Stage II. (In the operator's request he shows 12,344 feet for 64 holes which is in error).

It is recommended that hole No. 10 - 39 on the Ver 5 claim not be drilled, and that Stage II, Phase 1 (Grid drilling) be approved for drilling 64 holes to an average depth of 192 feet or a maximum total footage of 12,300 feet (rounded) which is 1900 feet more than the 10,400 feet authorized for Phase 1 under Stage II. It is suggested that this additional 1900 feet required for completion of Stage II, Phase 1 drilling as outlined above, be obtained by a transfer of the 937 feet authorized but not drilled and remaining under Stage I to Phase 1 of Stage II and that the additional 963 feet required be transferred from Stage II, Phase 2 to Stage II, Phase 1 to bring the total attainable footage for this Phase to 12,300 feet.

From a study of the data submitted in support of the request for approval of Stage II, Phase 2 drilling for offsetting mineralized holes of Stage I, it is concluded that the operator's proposed program should be modified.

The modified program is to include drilling of 36 offset holes averaging 101 feet in depth, or a total of 3640 feet, around 10 of the 15 holes proposed by the operator. The holes to be offset and the offset holes with depths and mineralized area are:

Stage I Holes	Offset Holes	Depth feet	Mineralized Area
16-15	14.5-15	70	2
	16-13.5	70	2
	16-16.5	70	2
	17.5-15	70	2
19-16.5	17-16.5	90	2
	19-15	90	2
	20.5-16.5	90	2
19-19.5	17.5-19.5	90	2
	19-18	90	2
	19-21	90	2
	20.5-19.5	90	2
22-15	20.5-15	65	2
	22-13.5	65	2
	22-16.5	65	2
	23.5-15	65	2
25-22.5	23.5-22.5	40	2
	25-21	40	2
	26.5-22.5	40	2
25-25.5	23.5-25.5	170	2
	25-24	170	2
	25-27	170	2
	26.5-25.5	170	2

22-27	20.5-27	135	2
	20-25.5	135	2
	22-25.5	135	2
	23.5-27	135	2
37-22.5	35.5-22.5	55	3
	37-22	55	3
	38.5-22.5	55	3
37-25.5	35.5-25.5	135	3
	37-24	135	3
	38.5-25.5	135	3
37-28.5	35.5-28.5	170	3
	37-27	170	3
	37-30	170	3
	38.5-28.5	170	3

Totals 36 holes 3640 feet

In summary the drilling under Stage II, Phase 1 and Phase 2 recommended for approval is:

Stage II
Phase 1

	Total Footage
64 holes at 192 feet (All holes as shown on contract map except Hole Nos. 18-39 Var 3 claim which is not to be drilled)	12,288 feet

Footage allowed by contract 10,400 feet
Stage I footage remaining to be transferred 937 feet
Footage to be transferred from Stage II, Phase 2 951 feet
12,288 feet

Stage II
Phase 2 (Offset drilling)
36 holes at 101 feet 3640 feet (rounded)

Offset drilling around the mineralized holes in Areas 1, 4, 5, and 6, and the offset holes for Hole No. 25-10.5 in Area 2 are not recommended for approval for the reasons as noted below:

Hole No.	Area	Remarks
7-13.5	1	Too low grade and surrounded by blank holes
32-30	4	Some fair grade results but surrounded by blank holes - drilling dependent on Stage II results

28-36	5	Very low grade at depths 250 and 290 feet, and drilling dependent on results of Stage II
25-49.5	6	Low grade at depth 260, drilling dependent on Stage II results
25-18.5	2	Very low grade and surrounded by blank holes

G. B. Kenyon
R. G. Kenyon
Mining Engineer

E. M. Hardman
E. M. Hardman
Member Field Team

RGK/mr
enl 9
Km-1963
Chron
Kilborsman

DMEA Form 14

Contr[illegible] No. Idm-E963

Docket No. 4182

DEPARTMENT OF THE INTERIOR

Terminated contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Obligation Document

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
June 14, 1956	**III**	**Wyoming**	**Uranium**

Name and Address of Operator: **Vitro Minerals Corp.**
P. O. Box 67
South Salt Lake City, Utah

	Reserve	Obligation
Prior Amount	0	48,612.00
Increase	0	0
Decrease	0	22,877.77
Revised Amount	0	25,734.23

Remarks:

ALLEN S. DAKAN
(Name)

Allen S. Dakan, Chief
Operations Control and
Statistics Division
(Title)

Date delivered to Bureau of Mines, Washington **12/3/57**

22845

Contract No. Idm-E 963

Docket No. DMEA-4182

DEPARTMENT OF THE INTERIOR **Executed contract**

DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
June 14, 1956	**III**	**Wyoming**	**Uranium**

Name and Address of Operator: **Vitro Minerals Corporation**
P. O. Box 67
South Salt Lake City, Utah

	Reserve	Obligation
Prior Amount	$48,612.00	0
Increase	0	$48,612.00
Decrease	$48,612.00	0
Revised Amount	0	$48,612.00

Remarks:

Robert E. Adams, Chief
Operations Control and
Statistics Division
(Name)
(Title)

Date Delivered to Bureau of Mines, Washington 8/5/56

98963

OCT 11 1957

Mr. William H. King
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4182 (Uranium)
Vitro Minerals Corporation
George and Ver Claims
Fremont County, Wyoming
Contract No. Idm-5963

Dear Mr. King:

Please refer to our letter of October 25, 1956, transmitting a "Memorandum of Explanation" in regard to several contracts.

It is necessary to place in the files such a memorandum for Contract No. Idm-5963, Docket No. DMEA-4182, Vitro Minerals Corporation.

We are sending three copies of the Administrator's Memorandum of Explanation to be filed with and become a part of the copy of the contract located with the Finance Officer, the Executive Officer, and other offices of the Region.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

P. F. Yopes

Member, Bureau of Mines

W. P. Williams

Member, Geological Survey

Enclosure

JHChambers/wb
October 3, 1957

Copy to: Docket
Admr. Reading File
Operating Committee
Mr. Killsgaard, USGS
Mr. Crewford, USBM
Mr. Chambers
Mr. Breding

Audit copy

EXPLORATION PROJECT CONTRACT
VITRO MINERALS CORPORATION
DOCKET NO. DMEA-4182

MEMORANDUM OF EXPLANATION

Washington, D. C.

The United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Vitro Minerals Corporation are parties to Exploration Project Contract Idm-E963 (Docket No. DMEA-4182), dated June 14, 1956.

The contract provides that the Government will contribute to the unit costs of drilling performed under independent contracts that do not exceed the estimated costs for each unit (per foot of drilling) set forth in Exhibit "A". The contract provides further that the Government's contribution to costs will be made as they are incurred, based upon monthly vouchers. However, it was the intent of the parties at the time the exploration project contract was negotiated and executed that the unit costs set forth under Category (1) under any stage prescribed in Exhibit "A" represent the maximum average cost per foot of drilling performed and accepted rather than the maximum cost per foot of drilling performed, as evidenced by the Operator's application and the DMEA Field Team's report of examination filed in the contract docket.

The Operator incurred costs on the basis of this understanding and the Government has made payment on the basis of this understanding.

C. Mitchell
Administrator, Defense Minerals
Exploration Administration

Date: OCT 1 1 1957

Government's Copy

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MF-200
(Revised June 1954)

Docket No. DMEA 4182

Commodity Uranium

Contract No. Idm-E 963

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this JUN 14 1956 day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Vitro Minerals Corporation, a Delaware Corporation, whose mailing address is P. O. Box 67, South Salt Lake City, Utah, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, and Map, Figure 2

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Wyoming, County of Fremont, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] See Annex I of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] See Annex I, [7] recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: None

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

of the land (lessor, seller, optionor, etc.), are attached, as follows: ....
..........Consents to Lien of tenants in common (See Annex I)..........
....

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 8, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 8(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Uranium.......... The work to be performed is described in Exhibit "A." The Operator on or before July 15, 1956, shall commence the work, and on or before January 1, 1957 (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall ~~either~~ have completed the work ~~or shall have incurred allowable costs (see Article 6) in a sum not less than the estimated total allowable cost set forth in Exhibit "A."~~ except as otherwise provided in Exhibit "A" with respect to Stages of work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Independent contracts.*—To the extent that the allowable costs are estimated in Exhibit "A" with express reference to performance by independent contractors on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations), the work may be so performed; but if the reference in Exhibit "A" to any such independent contract requires the Government's approval thereof, payments under such contract will not be allowable costs unless the Government gives its written approval of the contract. Any such independent contract shall refer to some specific and identifiable part of the work, and shall be subject to all of the pertinent terms and conditions of this exploration contract; but the Government shall not be considered a party thereto, and its rights under this contract, including the right to terminate its contributions, shall not be affected thereby. Regardless of the provisions of any such independent contract and regardless of the Government's approval thereof, the Government will participate in payments to the independent contractor only on account of work performed in accordance with the provisions of this exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable.

(c) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $64,816.00
The Government shall contribute 75 percent of the allowable costs as they are incurred in a total sum not in excess of $48,612.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work or not in excess of the amount of the Government's contribution to the cost of property which is or may become subject to disposal as provided in Article 9(c), whichever is greater. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 7(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. "Costs incurred" mean costs that have been paid or have become due and payable, or that in the opinion of the Government have become an obligation. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Estimated costs.*—(a) *Categories of costs.*—The allowable costs of the work to which the Government shall contribute are limited to those that are direct, reasonable, necessary, and that are estimated in Exhibit "A" by categories as specified in this article. If any category or subcategory is omitted from the estimate of costs, or if the word "none" is annexed to the listing thereof, costs under such category or subcategory are not allowable. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost, and any excess over the estimated total allowable cost of the work, shall not be allowable. Any excess over the estimate of any category, subcategory, or item, either as to requirement or related cost, not indicated as a maximum shall be allowable within the limit of the estimated total allowable cost of the work. To the extent that excesses over maximums other than the estimated total allowable cost of the work may be necessary for the performance of the work, the Operator shall incur such excesses for his own account without contribution by the Government; but except for any such necessary excesses in categories, subcategories, or items thereunder the Operator is not obligated to incur more than his agreed percentage of the estimated, total allowable cost of the work.

To the extent specified in this article or in Exhibit "A" the following categories, subcategories, and elements thereof are maximums; but if not so specified either here or in Exhibit "A" they are not maximums, and may be exceeded within the limit of the estimated total allowable cost of the work:

CATEGORY (1)—INDEPENDENT CONTRACTS.—Work to be performed under independent contracts (see Article 4(b)). The estimated total amount of this category and the estimated cost of each unit of work for performance under an independent contract are maximums.

CATEGORY (2)—PERSONAL SERVICES.

Subcategory (a)—Supervision.—All elements of this subcategory (number of supervisors, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)—Technical services.—All elements of this subcategory (number of technicians, periods of employment, rates of pay, and total) are maximums.

Subcategory (c)—Labor.

CATEGORY (3)—OPERATING MATERIALS AND SUPPLIES.—Includes such items as drill bits and steel, explosives, fuel, pipe, power, small tools costing less than $50 each, timber, track.

CATEGORY (4)—OPERATING EQUIPMENT.

Subcategory (a)—Rental.—The number of each object to be rented [6 mine cars, 1 truck], the rate of rental [$100 per month, $5 per hour], and the total of this subcategory are maximums.

Subcategory (b)—Purchases.—The estimated total of this subcategory is a maximum.

Subcategory (c)—Depreciation.—All elements of this subcategory (time periods, rate of depreciation, and subcategory total) are maximums.

CATEGORY (5)—INITIAL REHABILITATION AND REPAIRS.—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

Subcategory (a)—Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).—The estimated total of this subcategory is a maximum.

Subcategory (b)—Initial rehabilitation and repairs of operating equipment.—The estimated total of this subcategory is a maximum.

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article 8.

See Article 13.

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value therof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—
(a) Categories (2) through (7) of Article 6(a) are deleted. (b) To the extent that costs are set forth in Exhibit "A" as "Fixed Unit Costs" they are in lieu of the actual costs that otherwise would be allowable costs of the project under Article 6 of the contract. The Government will contribute to the fixed unit costs as they accrue, on the basis of units of work actually performed. The fixed unit costs include all costs of the work necessary to complete the project. (c) That part of the last sentence in the first paragraph of Article 6(a) commencing after the semicolon is deleted.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. O. Mitchenson
Administrator, Defense Minerals
Exploration Administration

VITRO MINERALS CORPORATION
(Operator)

By C. J. Potter
C. J. Potter, President

I, H. Vernon Fritchman, certify that I am the Assistant secretary of the corporation named as Operator herein; that C. J. Potter who signed this contract on behalf of the Operator, was then President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

H. Vernon Fritchman

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

EXPLORATION PROJECT CONTRACT
VITRO MINERALS CORPORATION
DOCKET NO. DMEA-4182

RECEIVED
JUL 2 - 1956

ANNEX I

The land referred to in Article 2 of the contract form consists of eighteen (18) unpatented mining claims situated in secs. 22, 26, and 27, T. 33 N., R. 90 W., Sixth Principal Meridian, for which location notices are recorded in the Office of the Fremont County Recorder at Lander, Wyoming, as follows:

	Original Filing			Amended			Further Amended		
Claim	Book	Page	Recorded	Book	Page	Date	Book	Page	Date
George 1	57	1	11/2/53	58	213	8/16/54	147	438	12/3/55
George 2	57	2	11/2/53	58	214	8/16/54	147	439	12/3/55
George 3	57	3	11/2/53	58	215	8/16/54	147	440	12/3/55
George 4	57	4	11/2/53	58	216	8/16/54	147	441	12/3/55
George 5	57	5	11/2/53	58	217	8/16/54	147	442	12/3/55
George 6	57	176	11/12/53	65	73	8/16/54	147	443	12/3/55
George 7	60	553	5/3/54	65	82	8/16/54	147	444	12/3/55
Ver 1	57	96	11/9/53	65	109	8/18/54	147	463	12/5/55
Ver 2	57	97	11/9/53	65	110	8/18/54	147	464	12/5/55
Ver 3	57	98	11/9/53	65	111	8/18/54	147	465	12/5/55
Ver 4	57	99	11/9/53	65	112	8/18/54	147	466	12/5/55
Ver 5	57	100	11/9/53	65	119	8/18/54	147	467	12/5/55
Ver 6	57	101	11/9/53	65	113	8/18/54	147	468	12/5/55
Ver 7	57	102	11/9/53	65	114	8/18/54	147	469	12/5/55
Ver 8	57	103	11/9/53	65	115	8/18/54	147	470	12/5/55
Ver 9	57	104	11/9/53	65	116	8/18/54	147	471	12/5/55
Ver 10	57	105	11/9/53	65	117	8/18/54	147	472	12/5/55
Ver 11	60	532	5/3/54	65	118	8/18/54	147	473	12/5/55

The approximate locations of the claims are shown on the attached map entitled, "Figure 2 - Map of George and Ver Group Showing Location of Proposed Stage I Holes and Part of Proposed Stage II Holes, Vitro Minerals Corporation, Fremont County, Wyo., DMEA-4182."

The Operator is the owner of an undivided one-half interest in each group of claims and has exclusive possession of the premises

pursuant to agreements with the other co-owners; the Consents to Lien of the other owners are attached to the contract as follows:

> Consent to Lien, on the George claims Nos. 1 through 7 signed by or for John E. Bansept, Josephine F. Bansept, Robert Jerome Albert, John Bansept, Sr., George J. Snyder, Emma W. Snyder, and Clark Decker; and
>
> Consent to Lien, on the Ver claims Nos. 1 through 11 signed by the Fremont Metal and Mining, Inc., a Wyoming Corporation.

MF-203
Revised March 24, 1955

DMEA
Date Rec'd.
JUN 20 1956
BUREAU OF MINES
Denver, Colorado

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Vitro Minerals Corporation
Docket No. DMEA-4182
Contract No. Idm-E
Contract Date

RECEIVED
JUL 2 - 1956

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Fremont, State of Wyoming, described as follows:1/

The George Group of Mining Claims, numbered 1 through 7 inclusive, located in Sections 22 and 27, Township 33 North, Range 90 West; and as amended, and further described in Annex I attached hereto and made a part hereof.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: None

Dated this _____ day of _____, 195__.

_____ [Seal]

_____ [Seal]

_____ [Seal]

I, _____ certify that I am the _____ _____ (Secretary, etc.) of the corporation named herein; that _____ _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

John E. Bansept (Seal)

John Bansept, Sr. (Seal)

Robert Jerome Albert (Seal)

Clyde Decker (Seal)

J. E. Bansept, also known as Josephine F. Bansept (Seal)

George Snyder, also known as George J. Snyder (Seal)

Emma Snyder, also known as Emma W. Snyder (Seal)

ANNEX I

The George claims are recorded in the official records of Fremont County, Wyoming in the book and page as follows: -

	Original Filing				Amended			Further Amended		
Claim	Book	Page	Re-corded	Dis-covered	Book	Page	Date	Book	Page	Date
George 1	57	1	11-2-53	10-3-53	58	213	8-16-54	147	438	12-3-55
George 2	57	2	"	"	58	214	"	147	439	"
George 3	57	3	"	"	58	215	"	147	440	"
George 4	57	4	"	"	58	216	"	147	441	"
George 5	57	5	"	"	58	217	"	147	442	"
George 6	57	176	11-12-53	11-5-53	65	73	"	147	443	"
George 7	60	553	5-3-54	4-21-54	65	82	"	147	444	"

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Vitro Minerals Corporation
Docket No. DMEA- 4182
Contract No. Idm-E 963
Contract Date JUN 14 1956

RECEIVED
JUN - 1 1956

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Fremont, State of Wyoming, described as follows:1/

The Ver Group of Mining Claims, numbered 1 through 11 inclusive, located in Sections 22, 26, 27, Township 33 North, Range 90 West; and as amended, and further described in Annex I attached hereto and made a part hereof.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: None

Dated this 28th day of May, 1956

Charles C. Karpaugh [Seal]
Fremont Metal & Mining, Inc.

[Seal]

[Seal]

I, Emma Snyder certify that I am the Secretary (Secretary, etc.) of the corporation named herein; that Charles C. Karpaugh who signed this agreement was then President (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Emma Snyder
[Corporate Seal]

ANNEX I

The Ver claims are recorded in the official records of Fremont County, Wyoming in the book and page as follows: -

	Original Filing				Amended			Further Amended		
Claim	Book	Page	Re-corded	Dis-covered	Book	Page	Date	Book	Page	Date
Ver 1	57	96	11-9-53	11-8-53	65	109	8-18-54	147	463	12-5-55
Ver 2	57	97	"	"	65	110	"	147	464	"
Ver 3	57	98	"	"	65	111	"	147	465	"
Ver 4	57	99	"	"	65	112	"	147	466	"
Ver 5	57	100	"	"	65	119	"	147	467	"
Ver 6	57	101	"	"	65	113	"	147	468	"
Ver 7	57	102	"	"	65	114	"	147	469	"
Ver 8	57	103	"	"	65	115	"	147	470	"
Ver 9	57	104	"	"	65	116	"	147	471	"
Ver 10	57	105	"	"	65	117	"	147	472	"
Ver 11	60	532	5-3-54	4-21-54	65	118	"	147	473	"

EXPLORATION PROJECT CONTRACT
VITRO MINERALS CORPORATION
DOCKET NO. DMEA-4182

RECEIVED
JUL 2 - 1956

Exhibit "A"

Description of the Work

General Provisions:

The object of this project is to explore for ore deposits in the potential uranium-bearing Wind River formation of Lower Eocene Age. The exploratory work consists of non-core or rotary drilling, from the surface, beginning with dry drilling, and then changing to wet drilling when the ground water level is reached by a drill hole. It is estimated that holes averaging 160 feet in depth will be required to penetrate the potential ore-bearing formation.

During the drilling, samples of the cuttings shall be collected for each 2 feet of hole drilled. The samples shall be examined for physical and geologic characteristics and scanned radiometrically. One-half of each sample shall be stored for Government use in heavy paper sample sacks marked to show the hole number and the depths represented by the sample. The other half of each sample is for the Operator's use and, if it shows significant radioactivity, shall be fluorimetrically analyzed for its U_3O_8 content.

All holes shall be logged petrographically and probed for radioactivity. Records of such logging and probing, together with the assay certificates of the "cuttings" samples, shall be submitted with each of the Operator's monthly progress reports. The Operator's report shall also include a map or sketch showing the approximate locations of all holes drilled during the reporting period.

No hole drilled shall be closer than 100 feet to any boundary of the land referred to in Article 2 of this contract.

The Government will not participate in the cost of any incompleted hole, or any hole that cannot be probed with standard radiometric probing equipment.

Two geologists and two samplers shall be employed full time in connection with the performance of the project work.

The extent and method of drilling, the location and depth of the drill holes, and the manner of sampling and storing the cuttings are all subject to approval of the Government.

The work is divided into three stages as hereinafter set forth. The Operator shall perform all the work in Stage I, and shall perform as much of the work in Stages II and III as is approved in advance in writing by the Government.

If the estimated requirements for Stages I and II are insufficient to complete the number of authorized holes specified in Stage I or Stage II, a part of the requirements and costs therefor estimated for Stage III may be used to complete such holes with prior written approval of the Government. Similarly, if any requirements estimated for Stage I are surplus, they and the costs therefor may be transferred to Stage II with prior written approval of the Government. However, requirements and costs that may be surplus after completion of Stages I and II shall not be used for Stage III.

Stage I

Stage I consists of drilling 63 holes, estimated to aggregate not more than 10,690 feet, and spaced on a 300-foot center diamond pattern, (except for one hole that shall be drilled to test the anomaly in the northeast part of George No. 1 claim). The approximate locations of the holes are indicated by single and double circle symbols on the attached map, Figure 2. The five holes indicated by a double circle, shall be drilled to a depth of approximately 250 feet, or deep enough to penetrate the entire thickness of the Wind River formation. The 58 holes indicated by single circles shall be drilled to penetrate the ore-bearing formation.

Not to exceed 250 samples shall be analyzed fluorimetrically for U_3O_8 content.

Stage II

Stage II is divided into three phases as follows:

Phase (1) consists of drilling 64 holes, estimated to aggregate not more than 10,400 feet, on a 300-foot center diamond pattern. The approximate locations of the holes are indicated by a triangle symbol on the attached map, Figure 2.

Phase (2) consists of drilling 76 holes, estimated to aggregate not more than 12,160 feet. The holes shall be drilled, on not less than approximately 150-foot centers, as offsets to those holes drilled under Stage I which show uranium in amounts that the Government considers to be significant.

Phase (3) consists of drilling 80 holes, estimated to aggregate not more than 12,800 feet. The holes shall be drilled on approximately but not less than 150-foot centers, as offsets to those holes drilled under Stage II which show uranium in amounts that the Government considers to be significant.

Not in excess of 220 holes, totaling an estimated 35,360 feet, shall be drilled under this Stage II of the contract.

Not to exceed 850 samples shall be analyzed fluorimetrically for U_3O_8 content.

Stage III

Stage III consists of drilling not in excess of 188 holes, totaling not in excess of 30,080 feet. The holes shall be drilled, on approximately but not less than 75-foot centers, as offsets to holes drilled in the previous stages which show uranium in amounts that the Government considers to be significant.

Not to exceed 750 samples shall be analyzed fluorimetrically for U_3O_8 content.

Estimated Costs of the Project

Stage I

Actual Costs		
Category (1) Independent Contracts		
10,690 feet of non-core drilling @ $0.70/ft.	$7,483.00	
Standby time for probing holes, 32 hours @ $10.00/hr.	320.00	
Categories (2) through (7)		
None		$7,803.00
Fixed Unit Costs		
Incidental allowance 1/ for each foot of hole drilled, 10,690 feet @ $0.09/ft.	$ 962.10	
Analyses of 250 samples for U_3O_8 content @ $1.25/sample	312.50	1,274.60
Estimated Total Cost Stage I		$9,077.60

Stage II

Actual Costs		
Category (1) Independent Contracts		
35,360 feet of non-core drilling @ $0.70/ft.	$24,752.00	

Standby time for probing holes, 110 hours @ $10.00/hr.	$ 1,100.00	
Categories (2) through (7)		
None	_____	$25,852.00
Fixed Unit Costs		
Incidental allowance 1/ for each foot of hole drilled, 35,360 feet @ $0.09/ft.	$ 3,182.40	
Analyses of 850 samples for U_3O_8 content @ $1.25/sample	1,062.50	4,244.90
Estimated Total Cost Stage II		$30,096.90

Stage III

Actual Costs		
Category (1) Independent Contracts		
30,080 feet of non-core drilling @ $0.70/ft.	$21,056.00	
Standby time for probing holes 94 hours @ $10.00/hr.	940.00	
Categories (2) through (7)		
None	_____	21,996.00
Fixed Unit Costs		
Incidental allowance 1/ for each foot of hole drilled, 30,080 feet @ $0.09/ft.	2,707.20	
Analyses of 750 samples for U_3O_8 content @ $1.25/sample	937.50	3,644.70
Estimated Total Cost Stage III		$25,640.70

SUMMARY

Estimated Total Cost, Stage I	$ 9,077.60	
Estimated Total Cost, Stage II	30,096.90	
Estimated Total Cost, Stage III	25,640.70	
TOTAL	$64,815.20	
Estimated Total Cost of Project (rounded)		$64,816.00
Government Participation @ 75 percent		$48,612.00

1/ Includes all costs whatsoever that are not included under the Category for "Independent Contracts" or in the fixed unit costs for analyses and includes such items as would otherwise be allowable under Categories (2) through (7) of the contract.

Contract No. Idm-E963

Docket No. DMEA-4182

DEPARTMENT OF THE INTERIOR

Approved contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
June 14, 1956	**III**	**Wyoming**	**Uranium**

Name and Address of Operator: **Vitro Minerals Corporation**
P. O. Box 67
South Salt Lake City, Utah

	Reserve	Obligation
Prior Amount	0	0
Increase	$48,612.00	0
Decrease	0	0
Revised Amount	$48,612.00	0

Remarks:

(Name)
Robert E. Adams, Chief
Operations Control and
Statistics Division
(Title)

Date Delivered to Bureau of Mines, Washington 6/14/56

98963

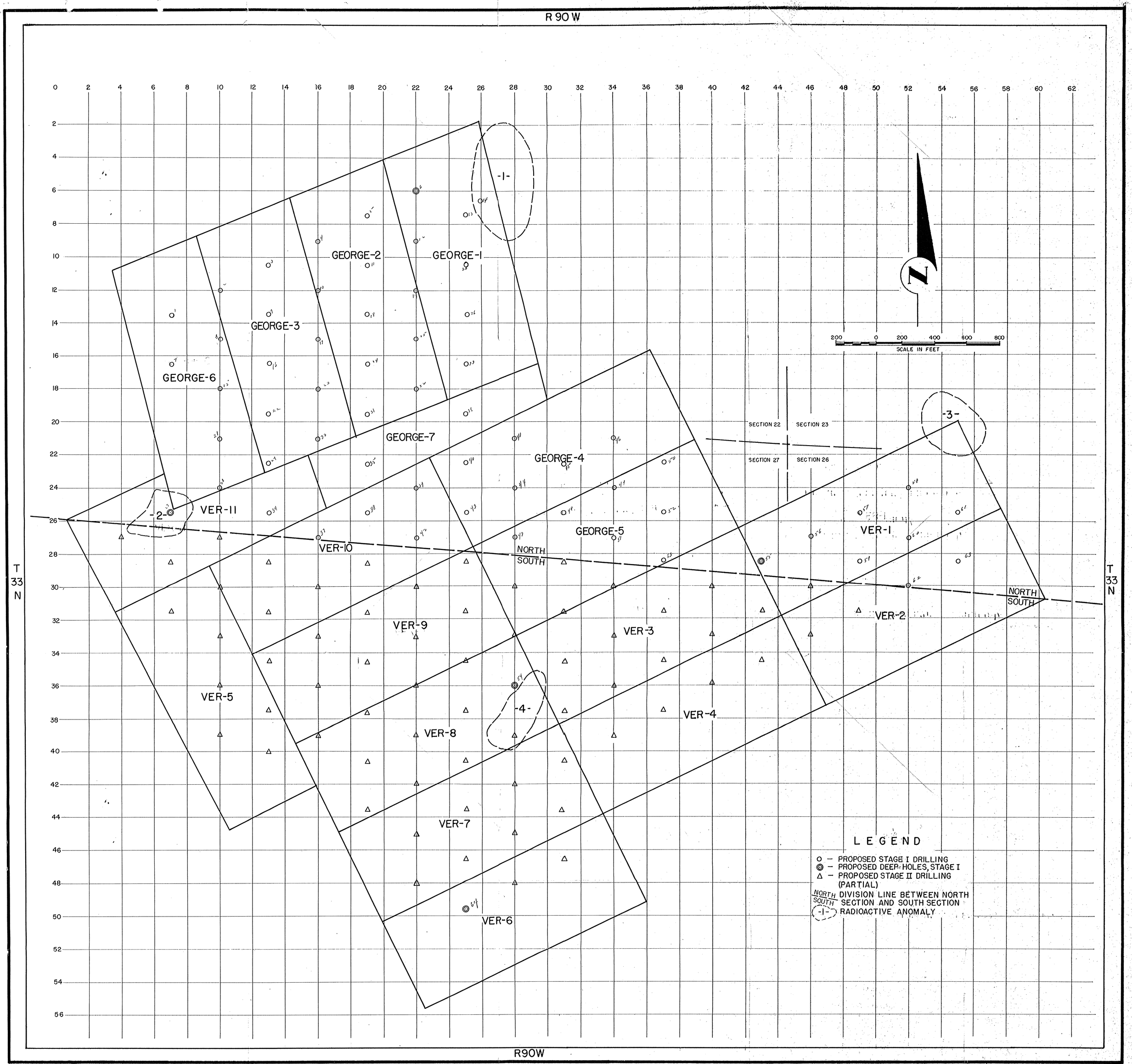

FIGURE 2 - MAP OF GEORGE AND VER GROUP SHOWING LOCATION OF PROPOSED STAGE I HOLES AND PART OF PROPOSED STAGE II HOLES, VITRO MINERALS CORPORATION, FREMONT COUNTY, WYO. DMEA 4182