MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. 2262 Docket No. 6689

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [x] Closing Letter
- [x] Cost Audits 1/70
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [x] Contract Amendments 1,2,3,
- [x] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [✓] Application and Attachments - original and revised applications.

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semiannual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab) 10/1/70 rec'd 1/11/71
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No. 1: Maps (~~Use pocket folder or envelope~~) roll

Folders No. _____: Settlement Sheets

Folders No. 2: ~~Drill Logs~~ Appendix I (Leases) to Geologic Report and Geologic Report

Folders No. _____: Royalty Material

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MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Vitro Minerals Corporation
P. O. Box 15437
600 West 33rd South Street
Salt Lake City, Utah 84115

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Gentlemen:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of possible production under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the periods indicated.

We appreciate your interest and participation in the OME exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copies: Mr. W. B. Hall
President
Vitro Minerals & Chemical Company
90 East Park Avenue
New York, New York 10016

Earth Resources Company
5920 McIntyre Road
P. O. Box 270
Golden, Colorado 80401

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Budget and Finance
Mr. Kirkemo
130

HKirkemo/cac
8/23/71

Sheldon

IC-DC-OME-16-71

Government's copy

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UNITED STATES
DEPARTMENT OF THE INTERIOR

Office of Survey and Review

Audit Operations

THK

OME

Report of Review-Contract 2262
Docket No. OME-6689 (Silver)
Vitro Minerals Corporation
San Juan, San Miguel Counties, Colorado

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Report of Review

Washington, D.C.
April 1971

United States Department of the Interior

OFFICE OF THE SECRETARY
WASHINGTON, D.C. 20240

OFFICE OF SURVEY AND REVIEW
Audit Operations, Region I
801 19th Street, N.W., Room 813
Washington, D.C. 20240

APR 22 1971

Memorandum

To: Director, Geological Survey

From: Regional Director

Subject: Review of Contract 2262
Docket No. OME-6689 (Silver)
Vitro Minerals Corporation
San Juan, San Miguel Counties, Colorado

As requested by the Chief, Office of Minerals Exploration, we made a cost review of Contract 2262. The results of our review are shown in the attached report.

C. D. Bass

Attachment

We reviewed the contract files of the Office of Minerals Exploration (OME) pertaining to the minerals exploration Contract 2262 with Vitro Minerals Corporation (Operator) and examined the related disbursement records in the Branch of Budget and Finance, Administrative Division, Geological Survey. The review was made during April 1971 at Washington, D.C.

The contract was awarded on July 31, 1968, for $145,300, the total estimated costs of the project, with OME participation on a 75-percent basis, or not in excess of $108,975.

The Operator was to explore by drilling, from sites to be prepared on the surface, for silver-bearing ore bodies in and along the Lucy-Last Hope, Columbus-Grand View, and Diamond veins which occur in volcanic rocks in the San Juan Formation and the Silverton Volcanic Group, both of Tertiary Age.

Repayment of disbursed Federal funds plus simple interest at 7 3/4 percent was to be made on the basis of established royalties of all minerals and metals produced from the land during exploration operations and for a period of 11 years from the date of the contract should a certification of possible production be issued by OME.

Work under the Contract was to begin on or before September 1, 1968, and was to be completed within 27 months from the date of the Contract or by October 31, 1970. An amendment suspended work from October 4,

1968, to July 1, 1969 and another amendment suspended work from October 30, 1969, to July 15, 1970, because of adverse weather conditions. Work was completed during October 1970.

No certification of discovery was made because no significant mineralized material was found, and it was recommended that the contract be terminated. Field inspections were made and six vouchers submitted by the Operator were approved by OME Region III Office. The first four vouchers with accepted costs of $117,664 were covered in a previous audit dated January 26, 1970. This audit covers vouchers five and six with accepted costs totaling $17,749.

The units of work authorized and approved under Contract 2262 are summarized in Exhibit I. We believe that the claimed and accepted costs of $135,413 and the OME participation on a 75-percent basis of $101,559 were proper under the terms of the contract.

C. D. Baer

Regional Director

IC-DC-OME-16-71
Contract 2262-Vitro Minerals Corporation
Summary of Contract Terms, Accepted Costs and Unexpended Balances

	Authorized Amount	Costs Accepted Previous Audit 1-26-70	Costs Accepted Current Audit 4-1-71	Final Total Accepted Costs	Unexpended Balances
Drilling:					
Mobilization and demobilization to staging area	$ 2,450	$ 1,225	$ 1,225	$ 2,450	$ -0-
Mobilization and demobilization at initial drill sites	450	450	-0-	450	-0-
Moving between drill sites and setting up drill rigs	450	450	-0-	450	-0-
Diamond core and overburden drilling	61,585	49,481	14,056	63,537	(1,952)
Reaming and casing	4,400	385	-0-	385	4,015
Cementing and redrilling	5,200	5,198	-0-	5,198	2
Casing lost in completed holes 1/	2,400	-0-	32	32	2,368
Core boxes, cardboard	585	585	-0-	585	-0-
Cement, drill muds, and additives	2,000	402	-0-	402	1,598
Survey with in-hole instruments	1,650	1,029	132	1,161	489
Transportation:					
Helicopter	32,582	32,582	-0-	32,582	-0-
Saddle horses	2,418	2,418	-0-	2,418	-0-
Subsistence:					
Camp and board	5,439	5,439	-0-	5,439	-0-
Personal Services:					
Supervisor-3 months @ $1,000/month	3,000	3,000	-0-	3,000	-0-
Geologist-3 months @ $950/month	2,850	2,850	-0-	2,850	-0-
Field Assistant-3 months @ $600/month	1,800	1,800	-0-	1,800	-0-
Miscellaneous:					
Assaying, 400 samples	3,600	210	23	233	3,367
Rent of core storage space-3 months	150	150	-0-	150	-0-
Office expenses-3 months	225	225	-0-	225	-0-
Vehicle rental, 2 vehicles	180	180	-0-	180	-0-
Payroll, taxes and insurance	575	575	-0-	575	-0-
Subtotal-Actual Costs	$133,989	$108,634	$15,468	$124,102	$9,887

IC-DC-OME-16-71
Contract 2262-Vitro Minerals Corporation
Summary of Contract Terms, Accepted Costs and Unexpended Balances

	Authorized Amount	Costs Accepted Previous Audit 1-26-70	Costs Accepted Current Audit 4-1-71	Final Total Accepted Costs	Unexpended Balances
Fixed Costs:					
Tent base camp in Ice Lake Basin, mobilization and demobilization	$ 100	$ -0-	$ 100	$ 100	$ -0-
Shelter and subsistence	11,211	9,030	2,181	11,211	-0-
Subtotal Fixed Costs	$ 11,311	$ 9,030	$ 2,281	11,311	-0-
Total Project Costs	$145,300	$117,664	$17,749	$135,413	$9,887
Government Participation at 75%	$108,975	$ 88,248	$13,311	$101,559	$7,416

1/ The Government will not contribute to the cost of casing left in place at the request of the Operator.

I-C-DC-OME-23-70
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UNITED STATES
DEPARTMENT OF THE INTERIOR

Office of Survey and Review

Audit Operations

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Report of Review-Contract 2262
Docket No. OME-6689 (Silver)
Vitro Minerals Corporation
San Juan, San Miguel Counties, Colorado

Report
of
Review

Washington, D.C.
January 1970

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
OFFICE OF SURVEY AND REVIEW
Audit Operations, Region I
801 19th Street, N.W., Room 813
Washington, D.C. 20240

JAN 26 1970

Memorandum

To: Director, Geological Survey

From: Regional Director, Region I
Audit Operations, Office of Survey and Review

Subject: Review of Contract 2262
Docket No. OME-6689 (Silver)
Vitro Minerals Corporation
San Juan, San Miguel Counties, Colorado

As requested by the Chief, Office of Minerals Exploration, we made a cost review of Contract 2262. The results of our review are shown in the attached report.

C. D. Bar

Attachment

We reviewed the contract files of the Office of Minerals Exploration (OME) pertaining to the minerals exploration Contract 2262 with Vitro Minerals Corporation (Operator) and examined the related disbursement records in the Branch of Budget and Finance, Administrative Division, Geological Survey. The review was made during January 1970 at Washington, D.C.

The contract was awarded on July 31, 1968, for $145,300, the total estimated costs of the project, with OME participation on a 75-percent basis or not in excess of $108,975.

The Contractor was to explore by drilling from sites to be prepared on the surface for silver-bearing ore bodies in and along the Lucy-Last Hope, Columbus-Grand View, and Diamond veins which occur in volcanic rocks in the San Juan Formation and the Silverton Volcanic Group, both of Tertiary age.

Repayment of disbursed Federal funds plus simple interest at 7-3/4 percent was to be made on the basis of established royalties of all minerals and metals produced from the land during exploration operations and for a period of 11 years from the date of the contract should a certification of possible production be issued by OME.

Work under the contract was to begin on or before September 1, 1968, and was to be completed within 27 months from the date of the contract or by October 31, 1970. An amendment suspended work from October 4, 1968, to July 1, 1969, and another amendment suspended work from October 30, 1969, to July 15, 1970, because of adverse weather conditions.

Field inspections were made and four vouchers submitted by the Operator were approved by OME Region III Office.

The units of work authorized and approved under Contract 2262 are summarized in Exhibit I. We believe that the claimed and accepted cost of $117,664 and the OME participation on a 75-percent basis of $88,248 were proper under the terms of the contract.

C. D. Bar

Regional Director

Summary of Contract Terms, Accepted Costs, and Unexpended Balances

Actual Costs	Authorized Amounts	Accepted Costs	Unexpended Balances
Independent Contracts			
Drilling:			
Mobilization and demobilization to staging area, crews and equipment (3 surface drill units)	$ 2,450	$ 1,225	$ 1,225
Mobilization and demobilization at initial drill sites 3 @ $150 each	450	450	-
Moving between drill sites and setting up drill rigs 3 operations @ $150 each	450	450	-
Diamond core and overburden drilling, 7,500 feet	61,590	49,481	12,109
Reaming and casing, all sizes 800 feet	4,400	385	4,015
Cementing and redrilling 200 hours @ $26/hour	5,200	5,198	2
Casing lost in completed holes 800 feet @ $3/foot 1/	2,400	-	2,400
Core boxes, cardboard 650 @ $.90/each	585	585	-
Cement, drill muds, additives	2,000	402	1,598
Survey with in-hole instruments 75 hours @ $22/hour	1,650	1,029	621

Summary of Contract Terms, Accepted Costs, and Unexpended Balances

Actual Costs	Authorized Amounts	Accepted Costs	Unexpended Balances
Independent Contracts (Cont'd)			
Transportation:			
Helicopter - Bill Model 47G-3B1			
2 hours per day minimum 30-day period 3 months			
180 hours @ $125/hour	$ 22,500	$ 22,500	$ -
87-2/3 hours @ $115/hour	10,082	10,082	-
Saddle horses			
4 @ $6.50 per day each for 93 days	2,418	2,418	-
Subsistence:			
Camp and board			
17 personnel @ $10.50 each per day 30 + days (518 man-days)	5,439	5,439	-
Personal Services			
None except:			
Supervisor - 3 months @ $1,000/month	3,000	3,000	-
Geologist - 3 months @ $950/month	2,850	2,850	-
Field Assistant - 3 months @ $600/month	1,800	1,800	-
Miscellaneous			
None except:			
Assaying, 400 samples			
Gold and silver $3.50/sample			
Lead and zinc @ $2.00 each			
Copper, $1.50 each	3,600	210	3,390
Rent of core storage space			
3 months @ $50/month	150	150	-

Summary of Contract Terms, Accepted Costs, and Unexpended Balances

Actual Costs	Authorized Amounts	Accepted Costs	Unexpended Balances
Miscellaneous (Cont'd)			
Office expense - 3 months @ $75/month	$ 225	$ 225	$ -
Vehicle rental, 2 vehicles 3 months @ $30/month	180	180	-
Payroll taxes and insurance	575	575	-
Total Actual Costs 2/	$133,989	$108,634	$25,355
Fixed Costs			
Tent base camp in Ice Lake Basin, mobilization and demobilization	100	-	100
Shelter and Subsistence 17 personnel @ $10.50 each per day 62 + days	11,211	9,030	2,181
Total Fixed Costs	11,311	9,030	2,281
Total Cost of Project 2/	145,300	117,664	$27,636
Government Participation at 75%	$108,975	$ 88,248 3/	$20,727

1/ The Government will not contribute to the cost of casings left in place at the request of the Operator.
2/ Total actual cost and total cost of the project are understated by $5 due to rounding of the contract amount.
3/ Withholding $200 pending reopening of the site.

Government's copy

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JAN 15 1970
VITRO MINERALS CORPORATION

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

Amendment No. 3

It is agreed this 7th day of January 1970, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, Office of Minerals Exploration, hereinafter referred to as the "Government," and Vitro Minerals Corporation, hereinafter referred to as the "Operator," that Exploration Contract 2262 (OME-6689), dated July 31, 1968, as amended, is further amended effective October 29, 1969, as follows:

1. (a) Work under the contract may be suspended during the period beginning October 30, 1969, and ending not later than July 15, 1970.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government.

(c) The Government shall not contribute to any cost of rehabilitation or repair incurred by the Operator which in its opinion would not have occurred had there been no suspension of work.

(d) 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.

2. The date fixed in Amendment No. 1 of the contract for completion of the work is further extended from 24 to 27 months from the date of the contract, or until October 31, 1970.

3. It is the essence of the contract that the work be resumed on or before the termination of the period herein fixed for suspension, and if not so resumed, the following provisions shall thereupon become effective:

(a) The contract and all obligations of the parties thereunder, except as otherwise provided herein shall be and are hereby terminated effective October 30, 1969.

(b) The Government will contribute only to the allowable costs incurred prior to October 30, 1969.

(c) 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.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government the royalty on production provided for in the contract in the same manner and amount and for the same period as if certification of possible production had been made by the Government pursuant to Article 7 of the contract, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the contract with respect to certification of possible production, royalties on production and liens to secure the payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayments are hereby preserved.

This amendment shall not be construed to increase the estimated total cost of the contract, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, nor the fixed unit cost of any item of work.

Executed in quadruplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Harold Kirkemo
Chief, Office of Minerals Exploration
U. S. Geological Survey

VITRO MINERALS CORPORATION

By W B Hall

Title President

Long
Appd. Sol. Office
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MME Form 7
(2/63)

OFFICIAL FILE

Date	Surname	L
12/23/69	Emerick	120
"	Kirkemo	120
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December 23, 1969

MEMORANDUM

To: The File

From: William L. Emerick
Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Corporation of America
Ice Lake Project
San Juan, San Miguel Counties, Colorado
Contract 2262

Justification for Amendment No. 3

The Field Officer, Region III, was notified by a letter from the Operator dated December 2, 1969 that the project had been suspended on October 30, 1969 because of the onset of severe winter weather. The project area is at an elevation better than 10,000 feet and access to it has been by helicopter.

The Operator succeeded in completing two drill holes in October 1969 in spite of hazardous weather conditions. A total footage of approximately 1900 feet of drilling remains to be drilled under the contract to further explore the Lucy-Last Hope vein, and the Field Officer recommends using the footage for this purpose when access to the project becomes possible late next spring.

The Field Officer also recommends that the Operator's request for a recess and extension of time for completion of the work be granted. I concur with the Field Officer's recommendation.

William L. Emerick

William L. Emerick

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick

WLEmerick/bsl 12/23/69

Government's Copy

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

AMENDMENT NO. 2

It is agreed this 23rd day of July, 1969, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, Office of Minerals Exploration, hereinafter referred to as the "Government," and Vitro Minerals Corporation, hereinafter referred to as the "Operator," that Exploration Contract 2262 (OME-6689), dated July 31, 1968, as amended, is further amended effective June 10, 1969 as follows:

In Exhibit A under the heading Estimated Costs of the Project:

1. Actual Costs, Category (1), Independent Contracts, is revised to read as follows:

Drilling

Mobilization and demobilization to staging area, crews and equipment 3 surface drill units	$ 2,450.00
Mobilization and demobilization at initial drill sites, 3 @ $150.00 each	450.00
Moving between drill sites and setting up drill rigs, 3 operations @ $150.00 each	450.00
Diamond core and overburden drilling, 7,500 feet	61,590.00

Price Per Foot

Depth, Feet	Non-core (Overburden) (incl. casing)	BXWL	AXWL
0-250	$10.50	$8.35	$8.10
250-500		8.65	8.40
500-750		8.95	8.70
750-1000		9.25	9.00
1000-1100		9.55	9.30

Reaming and casing, all sizes, 800 feet 0'-500' depth @ $5.50/ft. 500'-1,000'depth @ $5.25/ft.	$ 4,400.00
Cementing and redrilling, 200 hours @ $26.00/hr.	5,200.00
Casing lost in completed holes, 800 feet @ $3.00/ft. 1/	2,400.00
Core boxes, cardboard 650 @ $0.90/each	585.00
Cement, drill muds, additives	2,000.00
Surveying with in-hole instrument, 75 hours @ $22.00/hr.	1,650.00

Transportation

Helicopter - Bell Model 47 G3B-1 or equivalent model. Two hours per day minimum flight time for each 30-day period, 3 months total, 180 hours, minimum flight time, @ $125.00/hour	22,500.00

87-2/3 hours, @ $115.00/hour	$10,081.59
Saddle horses - 4 @ $6.50 per day each for 93 days	2,418.00

Subsistence

Camp and board, 17 personnel @ $10.50 each per day, 30 + days (518 man days)	5,439.00

713

Total Category (1), rounded $121,614.00

2. Total Estimated Actual Costs is revised to read:

Total Estimated Actual Costs (rounded) $133,989.00

3. A new section Fixed Unit Costs reading as follows is added:

Fixed Unit Costs

Tent base camp in Ice Lake Basin, mobilization and demobilization	$ 100.00
Shelter and subsistence, 17 personnel @ $10.50 each per day, 62 + days	11,211.00

Total Estimated Fixed Unit Costs . . . . . $ 11,311.00

4. The Summary is revised to read:

Total Estimated Actual Costs (rounded) . . .	$133,989.00
Total Estimated Fixed Unit Costs	$ 11,311.00
Total Estimated Cost of the Project	$145,300.00
Government Participation @ 75%	$108,975.00

This amendment shall not be construed to increase the estimated cost of the contract, the aggregate amount which the Government may be required to contribute, nor the amount of any item designated as maximum.

Executed in quadruplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Harold Kirkemo
Chief, Office of Minerals Exploration

VITRO MINERALS CORPORATION

By W B Hall

Title President

Long
App'd. Sol. Off.

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July 9, 1969

Memorandum

To: The File

From: William L. Emerick

Subject: OME-6689 (Silver-Gold)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Justification for Amendment No. 2

The Operator, in a letter dated June 30, 1969, requested Government approval to furnish camp and board services to personnel working on the project. These services were on a contract basis at $10.50 per day for each employee but the contractor terminated the arrangements because he could no longer profitably provide the services at the contract price. Inasmuch as the Operator is aware that the contract price is inadequate but nevertheless is willing to undertake the services at that price, it is in the best interests of the Government to approve the request.

Operations were resumed on the Ice Lake project after a winter recess on June 11, 1969, when the Operator began moving equipment to the property. Amendment No. 2, therefore, is made effective on June 10, 1969 so that camp and board services remaining under the contract can be provided by the Operator on a Fixed Unit Cost basis.

The amendment also revises the total cost of Category (1) items and the total estimated cost of Actual Cost items. Total estimated cost of the project and the total cost of Government participation remains unchanged.

William L. Emerick

William L. Emerick

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Mr. Emerick

WLEmerick/bsl 7/9/69

Government's copy

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

AMENDMENT NO. 1

It is agreed this 31 day of December, 1968, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, Office of Minerals Exploration, hereinafter referred to as the "Government," and Vitro Minerals Corporation, hereinafter referred to as the "Operator," that Exploration Contract 2262 (OME-6689), dated July 31, 1968 is amended effective October 3, 1968, as follows:

1.(a) Work under the contract may be suspended during the period beginning October 4, 1968, and ending not later than July 1, 1969.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government.

(c) The Government shall not contribute to any cost of rehabilitation or repair incurred by the Operator which in its opinion would not have occurred had there been no suspension of the work.

(d) 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.

2. The time fixed by Article 1 of the contract for the completion of the work is extended from 15 to 24 months from the date of the contract, or until July 31, 1970.

3. The maximum period for royalty payments and for the lien to secure the payment thereof provided for in the contract is extended from 10 to 11 years from the date of the contract.

4. It is the essence of the contract that the work be resumed on or before July 1, 1969, and if not so resumed, in the manner required by the contract, the following provisions shall thereupon become effective:

Resumed June 11, 1969

(a) The contract and all obligations of the parties thereunder, except as otherwise provided herein, shall be and is hereby terminated effective October 4, 1968.

(b) The Government will contribute only to allowable costs incurred prior to October 4, 1968.

(c) 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.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government the royalty on production provided for in the contract in the same manner and amount and for the same period as if certification of possible production had been made by the Government pursuant to Article 7 of the contract, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the contract with respect to certification of possible production, royalties on production and liens to secure the payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayments are hereby preserved.

(e) The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of the contract, except as otherwise provided in this Amendment No. 1.

This amendment shall not be construed to increase the estimated total cost of the contract, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, nor the fixed unit cost of any item of work.

Executed in quadruplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
Chief, Office of Minerals Exploration

VITRO MINERALS CORPORATION

By W B Hall

Title President

Legal
Appd. Sol. Off.
Johnson
Kilsgaard
Ulyn

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
12/9/68	Emerick	120
12/9/68	Kirkemo	120
12/9	Johnson	110
		220
		120M

December 9, 1968

Memorandum

To: The File

From: William L. Emerick

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Justification for Amendment No. 1

The Field Officer was notified by a letter dated November 12, 1968, that the Operator had suspended operations because of adverse weather conditions in the project area, which is at an elevation of approximately 12,000 feet or more. The letter was assumed to be a request to recess the project, therefore, the Field Officer recommended that an amendment be prepared recessing the project from October 4, 1968 to July 1, 1969. We concur in this recommendation.

The contract allows 15 months for completion of the project but the recess will consume 8 months of the period. Therefore, Amendment No. 1 extends the completion date and period for royalty payments and, in addition, to further protect the Government's interest in the work already done, a termination provision and royalty agreement are included in Amendment No. 1.

William L. Emerick

W. L. Emerick

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Mr. Kirkemo

WLEmerick/bsl 12/9/68

Government's Copy

MME Form 50
July 1965

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

EXPLORATION CONTRACT
(Long Form)

Docket No.	Commodity	Contract No.	County	State
OME-6689	Silver	28[illegible]	San Juan San Miguel	Colorado

It is agreed JUL 31 1968 (Date), between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, hereinafter called the "Government," and

Vitro Minerals Corporation, a Delaware corporation

whose mailing address is Post Office Box 15437, 600 West 33rd South Street, Salt Lake City, Utah 84115, hereinafter called the "Operator," as follows:

ARTICLE 1. Authority and scope.--(a) This contract entered into under the authority of Public Law 701, 85th Cong., 2d sess. (72 Stat. 700; 30 U.S.C. § 641 - 646), consists of this form, the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed. The work is a search for new or unexplored deposits of the commodity designated above. The Operator shall begin the work on or before September 1, 1968 (Date), and, subject to the provisions of Article 9 and Exhibit A, shall either have completed the work within 15 months from the date of the contract or shall have incurred allowable costs (see Article 6) in a sum not less than the total cost set forth in Exhibit A.

(b) The total allowable cost of the work set forth in Exhibit A is $145,300.00. The Government will contribute ~~80~~ 75 percent of the allowable costs as they are incurred, in a total sum not in excess of $108,975.00 in accordance with the provisions of Articles 3, 4, 5, and 6. "Costs incurred" means costs that have been paid or have become due and payable, or that the Government determines have become obligations.

(c) Interest computation.--Simple interest at the rate of 7-3/4 percent shall accrue from the dates Federal funds are made available until the period specified for payment of royalty expires, or until the amount of Federal funds contributed is fully repaid with interest.

(d) The Operator shall not transfer or assign this contract or any right or obligation thereunder without the written consent of the Government.

ARTICLE 2. Operator's right in land.--(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's right of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances:

ANNEX I

(b) 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 lien agreement of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached as follows:

ANNEX I

(c) The Operator shall preserve and maintain his right, title, or 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. 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 royalty on production and liens for the payment thereof. Two true copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 7 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. Performance of the work.--(a) Operator's responsibility.--The work shall be performed diligently, efficiently, in a workmanlike manner in accordance with good mining standards, and in compliance with State laws governing health, safety, and liability insurance covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work as specified in Article 1(a).

(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 (see Article 6(a), Category (1)). 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, the Government will participate in payments to the independent contractor only as to work performed in accordance with the provisions of this exploration 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 production operations during the period that royalty is payable to the Government. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. Contribution by the Government.-- The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5(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 and the Operator's final report has been received, the Government may withhold such sums as are necessary to protect its interests. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. 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. 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 all pertinent books, documents, papers, and records of the Operator. 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) Monthly reports.--The Operator shall provide the Government with four copies of monthly reports in three sections as follows:

(1) Operator's Monthly Voucher claiming costs for work performed;

(2) Operator's Progress Report showing the number of units of the various types of work performed; 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; however, the original of the Operator's Monthly Voucher shall be supported by documentary evidence, such as certified copies or transcripts of payrolls and invoices, for all costs claimed under Article 6 (a) (1).)

(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 three copies of a final report (in addition to the final monthly report). 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 the related costs.

(d) Report of sales.--The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's royalty relates, such as two copies of smelter or concentrator settlement sheets and certified accounts of production and sale or other disposition of production.

(e) Compliance with requirements.--If the Government determines that 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 preparation or completion of the same 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 6. Costs.--(a) Allowable costs.--The allowable costs of the work to which the Government will contribute are limited to:

(1) the necessary, reasonable, and direct actual costs that are estimated in Exhibit A by categories as specified in this article; and

(2) fixed costs for units of work to be performed (per foot, per hour, etc.) agreed upon in lieu of actual costs and set forth in Exhibit A.

The Government will not contribute to costs under any category or subcategory omitted from the estimate of costs in Exhibit A. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost; any excess over a fixed unit cost; and any excess over the total allowable cost of the work are not allowable. The Operator shall incur such excesses for his own account without contribution by the Government, but the Operator is not obligated to incur more than his agreed percentage of the total allowable cost of the work.

Any category or subcategory or element thereof not designated as a maximum in this article, or in Exhibit A may be exceeded, provided that the total allowable cost of the work, which is a maximum, is not exceeded.

CATEGORY (1)--INDEPENDENT CONTRACTS.--(See Article 3(b)). The total of this category and the average unit cost estimated for each type of work to be performed under an independent contract are maximums.

CATEGORY (2)--PERSONAL SERVICES.

Subcategory (a)--Supervision and Technical Services--All elements of this subcategory (number of supervisors, technicians, outside consultants, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)--Labor.

CATEGORY (3)--OPERATING MATERIALS AND SUPPLIES.--Includes such items as drill bits and steel, explosives, fuel, pipe, power, timber, rail, and small tools costing less than $50 each.

CATEGORY (4)--OPERATING EQUIPMENT.

Subcategory (a)--Rental.--The number of each rented item [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 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.--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

Subcategory (a)--Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).--The total of this subcategory is a maximum.

Subcategory (b)--Initial rehabilitation and repairs of operating equipment.--The total of this subcategory is a maximum.

CATEGORY (6)--NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

CATEGORY (7)--MISCELLANEOUS.--Includes requirements and costs that do not fall within any of the first six categories, such as repairs other than initial and maintenance of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, and communications.

(b) Nonallowable costs.--In addition to the limitations imposed by paragraph (a) of this Article 6 the Government will not contribute to the following costs:

(1) Costs of the land, such as rental, depreciation, depletion, or other costs 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 total cost. The provision does not apply to receipts from production which are subject to the Government's royalty under the provisions of Article 7.

ARTICLE 7. Repayment by Operator.--(a) Certification.--If the Government considers that mineral or metal production from the land covered by the contract may be possible as a result of the exploration work, it shall so certify in writing to the Operator at any time not later than six months after a sufficient final report and final accounting (see Article 5) have been furnished.

(b) Royalty on production.--The Operator, whether or not the producer (for example, if the Operator either transfers or does not retains his interest in the land), shall pay to the Government a royalty on all minerals and metals mined or produced from the land as follows:

(1) irrespective of any certification of possible production--from the date of the contract until the lapse of the time within which the government may issue such certification or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first; or

(2) if the Government issues a certification of possible production--for a period of ten years from the date of the contract, or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first.

(c) Payment of royalty.--(1) The Government's royalty shall be five percent of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrate, 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 (such as treatment processes performed by the buyer, sampling and assaying to determine the value of the production sold, and freight payable by the buyer to a carrier (not the Operator or producer)), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. No costs of the Operator or Producer are deductible in arriving at the "gross proceeds" as that term is here used.

The term "treatment processes" means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(2) 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.

(d) Unsold production.--If any production (ore, concentrate, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used 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, concentrate, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used 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 thereof in the form in which and at the time 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) Lien for payment.--To secure the payment of royalty (see Article 7(b)), the Operator hereby grants to the Government a lien upon his interest in the land and upon any production of minerals and metals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(f) Notice to purchasers.--The Operator or producer 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 Government, and this estimate shall be final and binding upon the Operator or producer.

(g) No obligation to produce.--Nothing in this contract shall be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(h) Government not obligated to buy.--Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals and metals mined or produced from the land.

ARTICLE 8. 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, and any reasonable and necessary cost thereof will be treated as an allowable cost of the exploration. After the completion of the work, termination of the Government's obligation to contribute, or when such property is not being used for the work, the Operator shall not use it elsewhere without the written consent of the Government and without paying a reasonable rental to be fixed by the Government for its proportionate interest.

(c) Disposal of property.--Upon the completion of the work, 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, sale to others, purchase by the Operator, or sale or transfer to 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 that cost more than $500, and shall not sell at less than 25 percent of the purchase price any item of property that 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 offers. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, explosives, pipe, or rail), 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 exploration.

(d) Default of the Operator re disposal.--If within 90 days after the completion of the work, termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, 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:

(1) in writing extend the time within which the Operator must dispose of or liquidate the property;

(2) by written notice to the Operator, place upon such property what it determines to be 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; and

(3) 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 9. Termination of the Government's obligations.--(a) If the Government determines that operations at any time have failed to achieve anticipated results and further work is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

(b) If the Government determines that the Operator is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 9 shall not affect the Government's rights as provided for in the contract with respect to royalty and liens to secure the payment thereof, and such rights shall be fully preserved.

(d) The determinations of the Government are subject to appeal under Article 13.

ARTICLE 10. Notices to be given by the Government may be delivered to the Operator, or may be sent by certified 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 11. 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 12. Nondiscrimination in Employment. The provisions respecting nondiscrimination in employment which are required by section 301 of Executive Order 10925, dated March 6, 1961 as amended and supplemented are attached hereto as Exhibit B and are hereby incorporated in and made a part of this contract.

ARTICLE 13. Disputes.--Any dispute arising under this contract which is not disposed of by agreement shall be decided by the Director, U. S. Geological Survey, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Operator. The decision of the Director, U. S. Geological Survey, shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Operator mails or otherwise furnishes to the Director, U. S. Geological Survey, a written appeal addressed to the Secretary of the Interior. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

The term "Director, U. S. Geological Survey," as used herein includes his duly authorized representative.

ARTICLE 14. Work Hours Act of 1962 - Overtime Compensation.--This contract, to the extent that it is of a character specified in the Work Hours Act of 1962 (Public Law 87-581, 76 Stat. 357-360) and is not covered by the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), is subject to the following provisions and to all other provisions and exceptions of said Work Hours Act of 1962.

(a) Overtime requirements.--No Operator or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic to be employed on such work in excess of eight hours in any calendar day or in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate of not less than one and one-half times his basic rate of pay for all hours worked in excess of eight hours in any such calendar day or in excess of forty hours in any such workweek, as the case may be.

(b) Violations; liability for unpaid wages; liquidated damages.--In the event of any violation of the clause set forth in subparagraph (a) of this paragraph, the Operator and any subcontractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such Operator and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for

liquidated damages. Such liquidated damages shall be computed, with respect to each individual laborer or mechanic employed in violation of the clause set forth in subparagraph (a) of this paragraph, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (a) of this paragraph.

(c) Withholding for unpaid wages and liquidated damages.--The U. S. Geological Survey may withhold or cause to be withheld, from any moneys payable on account of work performed by the Operator or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such Operator or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (b) of this paragraph.

ARTICLE 15. Copeland (Anti-Kickback) Act--Nonrebate of wages.--The regulations of the Secretary of Labor applicable to contractors and subcontractors (29 CFR, Part 3), made pursuant to the Copeland Act, as amended (40 U. S. C. 276c) and to aid in the enforcement of the Anti-Kickback Act (18 U. S. C. 874) are made a part of this contract by reference. The Operator will comply with these regulations and any amendments or modifications thereof and will be responsible for the submission of affidavits required of independent contractors thereunder. The foregoing shall apply except as the Secretary of Labor may specifically provide for reasonable limitations, variations, tolerances, and exemptions.

ARTICLE 16. Changes and added provision.--

Executed in quadruplicate the day and year first above written.

THE UNITED STATES OF AMERICA

VITRO MINERALS CORPORATION
(Operator)

By W B Hall

Title President

By Frank E. Clark
Acting Director, U.S. Geological Survey

Bliss
Long
Kiburno
Kilgore

I, W. H. DENNE, JR., certify that I am the
(Name)

secretary of the corporation named as Operator herein; that

W. B. HALL, who signed this contract on behalf of the Operator, was then
(Name)

PRESIDENT of said corporation; that said contract was duly signed for
(Title)

and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

ANNEX I

The land, including all rights pertaining thereto, referred to in Article 2 of the contract consists of eleven (11) patented and nineteen (19) unpatented lode mining claims in unsurveyed sections 18, 19, 30, and 31, T. 41 N., R. 8 W., and sections 13, 14, 15, 22, 23, 24, and 25, T. 41 N., R. 9 W., New Mexico Principal Meridian, Ice Lake Mining District, San Juan County, and the Iron Springs Mining District, San Miguel County, Colorado. It is shown on Figure 1, entitled "Map Showing Ice Lake Project Area, San Juan and San Miguel Counties, Colorado," which is attached and made part hereof.

The patented lode mining claims are as follows:

Name	U. S. Survey No.	County
Columbus	11693	San Juan
Grand View	11693	San Juan
Iowa	12298	San Juan
Lake	12298	San Juan
Last Hope	11695	San Juan and San Miguel
Lelia	13372	San Juan
Lucy	13372	San Juan
Lucy No. 2	13372	San Juan
May Band	13372	San Juan

Utopia	15457	San Miguel
Webster	11695	San Juan

The following eighteen (18) unpatented lode mining claims are recorded in the County Recorder's Office, San Juan County, Silverton, Colorado as follows: (If recordings were amended, the original recordings are shown in parenthesis).

Name	Book	Page
Ben	189	542
Charlotte Mary	142 (165)	410 (33)
Diamond	142 (92)	405 (564)
Dover	189	542
Frederick	142 (147)	409 (20)
Joseph	142 (147)	408 (375)
Palmyra	142 (147)	407 (18)
St. Anthony	142 (147)	406 (18-19)
Vitro No. 1	189	536
Vitro No. 2	189	537
Vitro No. 3	189	537
Vitro No. 4	189	538
Vitro No. 5	189	538
Vitro No. 6	189	539
Vitro No. 7	189	539

Vitro No. 8	189	540
Vitro No. 9	189	540
Vitro No. 10	189	541
Vitro No. 11	189	541

That portion of the Dover claim situated in San Miguel County is recorded in the County Recorder's Office, San Miguel County, Telluride, Colorado in Book 331 on Pages 85-86.

The Operator is the owner of the Utopia, Last Hope (portion in San Miguel County), Iowa, and Lake patented mining claims by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 4 of the Supplement to Appendix I.

The Operator is the owner of the Ben, Dover, and the Vitro Nos. 1-11 unpatented lode mining claims by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 47 of the Supplement to Appendix 1.

The Operator is the owner of 54.5% interest in the Columbus, Grand View, Last Hope (San Juan County) and Webster lode mining claims all situated in San Juan County, Colorado, by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 4 of the Supplement to Appendix 1. The Operator has possession of the remaining 45.5% interest in these claims under the terms of a Lease Agreement transferred to the Operator by an Assignment dated April 1, 1968, from Vitro Corporation of America. This Assignment appears at page 9 of the Supplement to Appendix 1.

The Operator is the owner of a 50% interest in the Diamond, Palmyra, St. Anthony, Frederick, Joseph, and Charlotte Mary unpatented lode mining claims all situated in San Juan County, Colorado, by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 4 of the Supplement to Appendix 1. The Operator has possession of the remaining 50% interest in these claims under the terms of a Lease Agreement, transferred to the Operator by an Assignment dated

April 1, 1968, from Vitro Corporation of America. This Assignment appears at page 9 of the Supplement to Appendix 1.

The Operator is in possession of the Lucy, Lelia, May Band, and Lucy No. 2 patented lode mining claims under the terms of seven Lease and Agreement contracts transferred to the Operator by seven separate Assignments all dated April 1, 1968, from Vitro Corporation of America, and one Lease and Agreement dated June 19, 1968, executed directly between the owner of a part interest in the claims and the Operator. The eight leases referred to above represent 100% of the ownership of these claims. The Assignments transferring these leases to the Operator appear at pages 14, 19, 24, 29, 34, 39 and 44 of the Supplement to Appendix 1. The one lease between the owner of a part interest in the claims and the Operator, referred to above, appears in Appendix 1.

All leases, mining deeds, and assignments which represent the chain of title to all of the mining claims covered by this contract, and which represent that the Operator has rights in such claims at least sufficient to complete the work under this contract in accordance with all of its terms and provisions, are found in "Appendix 1, to Geologic Report and Exploration Proposal on the Ice Lake Project Area" and the Supplement to Appendix 1, which are contained in the docket of this contract. Such documents are by this reference specifically incorporated into and made a part of this contract. Operator warrants that all such leases, mining deeds and assignments are either original or exact duplicate originals and that all signatures appearing thereon, whether original or duplicate original, are genuine.

Operator warrants that all recording information appearing on all documents referred to above is accurate.

Lien and Subordination Agreements covering all interests in claims covered by the contract which are not owned by the Operator, are attached and made a part hereof. Operator warrants that all signatures appearing on such Lien and Subordination Agreements, whether original or exact duplicate original, are genuine.

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS 1/

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows: 2/ Lucy, Lucy No. 2, May Band and Lelia Patented Lode Mining Claims, U. S. Mineral Survey No. 13372, comprising 32.27 acres, more or less.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

VITRO MINERALS CORPORATION 3/

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same. 4/

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

NONE

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No.____".)

Dated this 19TH day of JUNE, 1968.

Anne S. Crouch (Seal)	2315 BALSAM DRIVE (Street)	
Anne S. Crouch[1]	BOULDER, COLO. (City & State)	
Edward E. Kingery (Seal)	1906 13TH ST., SUITE 104 (Street)	
Edward E. ~~Kingrey~~ KINGERY[2]	BOULDER, COLO. 80302 (City & State)	
(Seal)	(Street)	
	(City & State)	
(Seal)	(Street)	
	(City & State)	
(Seal)	(Street)	
	(City & State)	
(Seal)	(Street)	
	(City & State)	

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

INT.-DUP. SEC., WASH., D.C. 21103

1. As Guardian of the Estates of Laurie Anne Crouch and Charles Douglas Crouch, minors - owners of an undivided 1/90 interest in said claims.
2. As Conservator of the Estates of James Donald Crouch, Jr., and Sandra Jurgens, mental incompetents - owners of an undivided 1/90 interest in said claims.

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 – 2606
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows:[2] Columbus, Grand View, Webster and Last Hope, patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of America~~[3], hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Please date & sign

X Dated this 26 day of February, 1968.

	(Seal)	(Street) (City & State)
Western Exploration & Management Co. Owner of 100/200 of subject property		(Street) (City & State)
X John F. Schmelzer	(Seal)	
John F. Schmelzer-Owner and lessor of 45.5/100 of subject property.	916 Thomaston Road	(Street)
	Barnesville, Georgia 30204	(City & State)
	(Seal)	
Western Exploration & Management Co. Lessee of 45.5/100 of subject property.		(Street) (City & State)
	(Seal)	
Vitro Corporation of America Optionee - Owner of 54.5/100 of subject property and lessee of 42.5/100 of subject property	P.O. Box 11432	(Street) (City & State)
	(Seal)	Salt Lake City, Utah 84113
		(Street) (City & State)
	(Seal)	

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

COLUMBUS patented lode mining claim
U S Mineral Survey No. 11693,
situated in San Juan County, Colorado

GRAND VIEW patented lode mining claim
U S Mineral Survey No. 11693,
situated in San Juan County, Colorado

WEBSTER patented lode mining claim
U S Mineral Survey No. 11695,
situated in San Juan County, Colorado

THAT PORTION OF THE LAST HOPE patented
mining claim
U S Mineral Survey No. 11695,
situated in San Juan County, Colorado

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 – 2606
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado,

described as follows:[2] Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of America~~[3] hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No.____".)

Please date exactly above

X Dated this 26 day of Feb, 19[illegible].

J. Douglas Crouch (Seal) _____ (Street) _____ (City & State)

J. Douglas Crouch - Owner and lessor of 1/45 of subject property.

(Seal) Perkins Shearer (Street) Colorado Springs, Colorado (City & State)

~~Western Exploration & Management Co.~~ ~~Lessee of entire leasehold interest~~ (Seal) _____ (Street) _____ (City & State)

~~Kirox Corporation of America Operator~~ ~~Lessee of entire leasehold interest~~ (Seal) _____ (Street) ~~P.O. Box 15437~~ (City & State) ~~Salt Lake City, Utah 84115~~

(Seal) _____ (Street) _____ (City & State)

(Seal) _____ (Street) _____ (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

LUCY patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LELIA patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MAY B patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LUCY NO. 2 patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 – 2[illegible]
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows:[2] Diamond, Palmyra, St. Anthony, Frederick, Joseph and Charlotte Mary unpatented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of America~~[3] hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No.____".)

X Dated this 26 day of February, 1968.

Please Date

(Seal) (Street) (City & State)

~~Lessee Exploration & Management Co.~~
~~Owner of 1/2 and lessee of 1/2 of said property.~~

(Seal) (Street) (City & State)

X John F. Schmelzer

John F. Schmelzer-Owner and lessor of 1/2 of said property.

(Seal) 916 Thomaston Road (Street)
Barnesville, Georgia 30204 (City & State)

~~Vice President of American Petroleum Corp. Owner and lessee of 1/2 of said property~~

(Seal) ~~P.O. Box 1537~~ (Street)
~~Salt Lake City, Utah 84115~~ (City & State)

(Seal) (Street) (City & State)

(Seal) (Street) (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

Name of Claim	Certificate of Location Recorded in San Juan County, Colorado in Book	Page
Diamond	92	564
Palmyra	147	18
St. Anthony	147	18-19
Frederick	147	20
Joseph	147	375
Charlotte Mary	165	33

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 – 2626
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS 1/

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows: 2/ Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of America~~ 3/ hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same. 4/

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Please date & sign

X Dated this 27 day of February, 1968.

X Lucia N. Standish (Seal)		(Street)
		(City & State)
Lucia N. Standish - Owner and lessor of 1/10 of subject property.	301 Milford Drive	(Street)
	Cameo Shores	(City & State)
(Seal)	Corona Del Mar, California	
~~Western Exploration & Management Co.~~		(Street)
~~Lessee of entire leasehold interest.~~		(City & State)
(Seal)		
~~Vitro Corporation of America~~		(Street)
~~Lessee of entire leasehold interest~~	~~PS~~ ~~Box~~ ~~15437~~	(City & State)
(Seal)	~~Salt Lake City, Utah 84115~~	
		(Street)
		(City & State)
(Seal)		
		(Street)
		(City & State)
(Seal)		

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

LUCY patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LELIA patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MAY B patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LUCY NO. 2 patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows:[2] Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of Mexico~~[3] hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Please date & sign here

X Dated this 1st day of March, 1968.

X Clark Thomas Ellen Thomas (Seal) _____ (Street) (City & State)

Clark Thomas and Ellen Thomas - Owners
and lessors of 99.75/160 of subject property. 11330 S. W. Capitol Highway (Street)
Portland 19, Oregon (City & State)

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

LUCY patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LELIA patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MAY B patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LUCY NO. 2 patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows:[2] Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of America~~[3], hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Dated this 2nd day of March, 19 68.

Margaret T. Beazley (Seal) _____ (Street) (City & State)

Margaret T. Beazley - Owner and lessor of 14.125/160 of subject property.

2410 Seminole (Street)

(Seal) Springfield, Missouri (City & State)

~~Western Exploration and Management Co.~~

_____ (Street)

(Seal) _____ (City & State)

~~Corporation of America Operator lessee of entire leasehold interest~~

~~P.O. Box 1343~~ (Street)

(Seal) ~~Salt Lake City, Utah 84110~~ (City & State)

_____ (Street)

(Seal) _____ (City & State)

_____ (Street)

(Seal) _____ (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

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U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

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MAY B patented lode mining claim
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situated in San Juan County, Colorado

LUCY NO. 2 patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of **San Juan**, State of **Colorado**,

described as follows:[2] **Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.**

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

Vitro Minerals Corporation [3]

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

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3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions **None** (State "None" or "See Annex No. ____".)

Please add & sign here

Dated this 5 day of March, 19~~68~~.

X Manley S. Nolen (Seal)		(Street) (City & State)
Manley S. Nolen - Owner and lessor of 1/30 of subject property.	2640 Fairgreen Drive	(Street) (City & State)
(Seal)	Bridgeville, Pennsylvania	
~~Western Exploration & Management Co. Lessee of entire leasehold interest.~~		(Street) (City & State)
(Seal)		
~~Vixco Corporation of America - Optionee. Lessee of entire leasehold interest.~~	~~P.O. Box 15437~~	(Street) (City & State)
(Seal)	~~Salt Lake City, Utah 84115~~	
		(Street) (City & State)
(Seal)		
		(Street) (City & State)
(Seal)		

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

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U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

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situated in San Juan County, Colorado

MAY B patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

LUCY NO. 2 patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 – 6600
Contract Date JUL 31 1968

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows:[2] Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and Vitro Minerals Corporation ~~of Mexico~~[3], hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. 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.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

None

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2/ 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 must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

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5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No.____".)

Please date & sign on back

X Dated this 19th day of March, 1968.

Margorie S. Crouch (Seal) _____ (Street) (City & State)

Margorie S. Crouch - Owner and lessor of 1/45 of subject property.

695 West 10th Street (Street) (City & State)

(Seal) Claremont, California

~~Exploration & Management Co. of entire leasehold interest~~

_____ (Street) (City & State)

(Seal) _____

~~Corporation.~~

~~Salt Lake City, Utah 84115~~ (Street) (City & State)

(Seal) _____

_____ (Street) (City & State)

(Seal) _____

_____ (Street) (City & State)

(Seal) _____

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

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U S Mineral Survey No. 13372,
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MAY B patented lode mining claim
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situated in San Juan County, Colorado

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U S Mineral Survey No. 13372,
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MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of San Juan, State of Colorado, described as follows:[2] Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims more particularly described in Schedule "A" attached hereto and by this reference made a part hereof.

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5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No. ____".)

Please date X Dated this 26 day of March, 19 68.

John R. Thomas		(Street)
		(City & State)
X Tim L. Thomas (Seal)		
Earl P. Thomas Estate - Owner and lessor of 14.125/160 of subject property.	% Albin Ulrickson Attorney at Law 2401 Continental Life Bldg. Fort Worth, Texas	(Street) (City & State)
X Tim L. Thomas (Seal)		
Tim L. Thomas, as devisee of Earl P. Thomas Estate		(Street) (City & State)
X John R. Thomas (Seal)		
John R. Thomas, as devisee of Earl P Thomas Estate		(Street) (City & State)
X Mrs Monroe Staples (Seal)		
Mrs. Monroe Staples, as devisee of Earl P. Thomas Estate		(Street) (City & State)
(Seal)		
~~[illegible]~~	~~[illegible]~~	(Street) (City & State)
(Seal)	~~[illegible]~~	

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., 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)

SCHEDULE "A"

LUCY patented lode mining claim
U S Mineral Survey No. 13372,
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U S Mineral Survey No. 13372,
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situated in San Juan County, Colorado

LUCY NO. 2 patented lode mining claim
U S Mineral Survey No. 13372,
situated in San Juan County, Colorado

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

EXHIBIT A

The purpose of the project is to explore by drilling from sites to be prepared on the surface for silver-bearing ore bodies in and along the Lucy-Last Hope, Columbus - Grand View, and Diamond veins which occur in volcanic rocks in the San Juan Formation and the Silverton Volcanic Group, both of Tertiary age.

General Provisions

All drill holes shall be completed not less than AX wireline size, and shall be cased as necessary. The Government will not contribute to the cost of casing left in a hole at the Operator's request.

Facilities shall be provided for recovering diamond drill sludge, and such sludge shall be retained when drilling in significantly mineralized rock and identified as to hole number and depths represented.

All drill core shall be stored in boxes identified as to hole number with markers in the core sections indicating the depths represented. Significantly mineralized core shall be split and one split assayed for gold and silver, and for lead, zinc or copper as warranted. Whenever core recovery is less than 60 percent, a split of the corresponding retained sludge shall be assayed separately. The remaining core shall be stored in proper sequence with the unsampled core, and the remaining sludge stored in suitable containers properly identified as to hole number and depth. Stored samples shall be made available for Government inspection and possible use, and may be disposed of by the Operator with prior Government approval.

True copies of assay certificates of all samples shall be submitted with the Operator's monthly report. The report shall also include a map, sketch, or cross section showing the drilling completed during the reporting period and the locations of all samples taken from the drill holes.

All drill holes shall be logged and copies of the logs of completed holes shall be submitted with the Operator's monthly report.

The bearing and inclination of each drill hole may be determined with a suitable in-hole surveying instrument at 200-foot intervals.

The Operator shall provide such supervision, labor, and technical services as may be required to perform the work in a satisfactory manner.

8 The location, direction, and extent of each work item shall be subject to Government approval.

Camp and board facilities, and aerial and surface transportation between the camp site and drill sites shall be provided for personnel essential to the project.

The Operator shall establish and maintain a camp in Ice Lake Basin providing food and tent shelter for personnel essential to the project.

The Operator shall provide and maintain helicopter service between Silverton, Colorado, and a base camp in Ice Lake Basin, and the several drill sites for the transport of personnel, equipment, and supplies. The helicopter and pilot shall be stationed at the base camp where supplies of fuel, oil, field maintenance equipment, and parts are to be available.

Any helicopter used on the project shall have performance capabilities equal to those of a 270-horsepower Bell Model 47G3B-1. The useful load capacity shall be not less than 1050 pounds. Landings and takeoffs will be required at altitudes ranging up to 13,200 feet. Helicopters used in the performance of the contract shall be operated and maintained in accordance with Federal Aviation Agency (F.A.A.) regulations, and shall bear a current and valid certificate of airworthiness issued by F. A.A.

Pilots for this project must hold a commercial pilots' certificate with helicopter ratings in accordance with F.A.A. requirements. Mechanics assigned to maintain the helicopters must hold a mechanics' certificate with airframe and power plant rating in accordance with F.A.A. requirements, and must have had at least one year experience in helicopter field maintenance.

The Operator shall provide and maintain four (4) saddle horses at the base camp for services as required. The horses shall be in good health, and each capable of carring an adult rider to the several drill sites in Ice Lake Basin.

Description of the Work

The work shall consist of preparing about five drill sites for approximately 8 drill holes, and drilling a maximum of 7,500 feet which includes about 6,900 feet of core drilling and about 600 feet of overburden drilling.

The approximate locations and bearings of the drill holes are shown in plan view on Figure 2, entitled, "Map Showing Proposed Drill Holes, Ice Lake Project, San Juan County, Colorado," which is attached hereto and made part hereof.

The approximate bearings, inclinations, and depths of the proposed holes are as follows:

Hole No.	Bearing	Inclination	Depth, Feet
1	N. 44° E.	-50°	600
2	S. 71° W.	-60°	930
(2A)	(S. 54° 15' E.)	(-47°)	(1050)
3	N. 56° 15' W.	-58°	850
(3A)	(N. 82° 30' E.)	(-65°)	(900)
4	S. 48° E.	-50°	800
5	S. 82° E.	-50°	900
6	N. 45° E.	-50°	700
7	N. 83° 45' E.	-76°	950
8	N. 44° E.	-55°	1000

Holes 2A and 3A will be drilled in lieu of Holes 2 and 3 if data obtained from previously drilled Hole 4 indicate that the Diamond vein dips to the northwest.

Three drill rigs will be used, and each rig will drill the following sequence of holes:

Drill Rig No.	Sequence of Holes		
1	1	3 or 3A	2 or 2A
2	4	6	5
3	8	7	

Estimated Costs of the Project

Actual Costs

Category (1) Independent Contracts

Drilling

Mobilization and demobilization to staging area, crews and equipment, 3 surface drill units	$ 2,450.00
Mobilization and demobilization at initial drill sites, 3 @ $150.00 each	450.00
Moving between drill sites and setting up drill rigs 3 operations @ $150.00 each	450.00
Diamond core and overburden drilling, 7,500 feet	61,590.00

Depth, Feet	Price Per Foot: Non-core (Overburden) (incl. casing)	BXWL	AXWL
0-250	$10.50	$8.35	$8.10
250-500	-	8.65	8.40
500-750	-	8.95	8.70
750-1000	-	9.25	9.00
1000-1100	-	9.55	9.30

Reaming and casing, all sizes, 800 feet

0-500'/@$5.50/ft., 500'-1,000'/@$5.25/ft (depth)	4,400.00

Cementing and redrilling, 200 hours @ $26.00/hr	$ 5,200.00
Casing lost in completed holes, 800 feet @ $3.00/ft.1/	2,400.00
Core boxes, cardboard 650 @ $0.90/each	585.00
Cement, drill muds, additives	2,000.00
Surveying with in-hole instrument, 75 hours @ $22.00/hr	1,650.00

Transportation

Helicopter- Bell Model 47 G3B-1 or equivalent model. Two hours per day minimum flight time for each 30-day period, 3 months total, 180 hours, minimum flight time, @ $125.00/hour	22,500.00
87-2/3 hours, @$115.00/hour	10,081.59
Saddle horses - 4 @ $6.50 per day each for 93 days	2,418.00

Shelter and Subsistence

Tent base camp in Ice Lake Basin Mobilization and demobilization	100.00
Camp and board, 17 personnel @ $10.50/each per day, 93 days	16,650.00

Total Category (1), rounded $132,925.00

Category (2) Personal Services

None except:

Subcategory (a) Supervision and Technical Services

Supervisor, 3 months @ $1,000/month	$ 3,000.00
Geologist, 3 months @ $950.00/month	2,850.00

Field assistant, 3 months @ $600.00/month	$ 1,800.00	
		$ 7,650.00

Category (7) Miscellaneous

None except:

Assaying, 400 samples Gold and silver @ $3.50/sample Lead and zinc, $2.00 each Copper, $1.50	$ 3,600.00	
Rental of core storage space, 3 months @ $50.00/month	150.00	
Office expenses, 3 months @ $75.00/month	225.00	
Payroll taxes and insurance	575.00	
Vehicle rental, 2 vehicles 3 months @ $30.00/month each	180.00	
		4,730.00
Total Estimated Actual Costs (rounded)		$145,300.00

S U M M A R Y

Total Estimated Cost of the Project	$145,300.00
Government Participation @ 75%	$108,975.00

1/ The Government will not contribute to the cost of casing left in place at the request of the Operator.

EXHIBIT B

NONDISCRIMINATION IN EMPLOYMENT

(Section 202, Executive Order 11246, September 24, 1965)

"During the performance of this contract, the contractor agrees as follows:

'(1) The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

'(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.

'(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

'(4) The contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

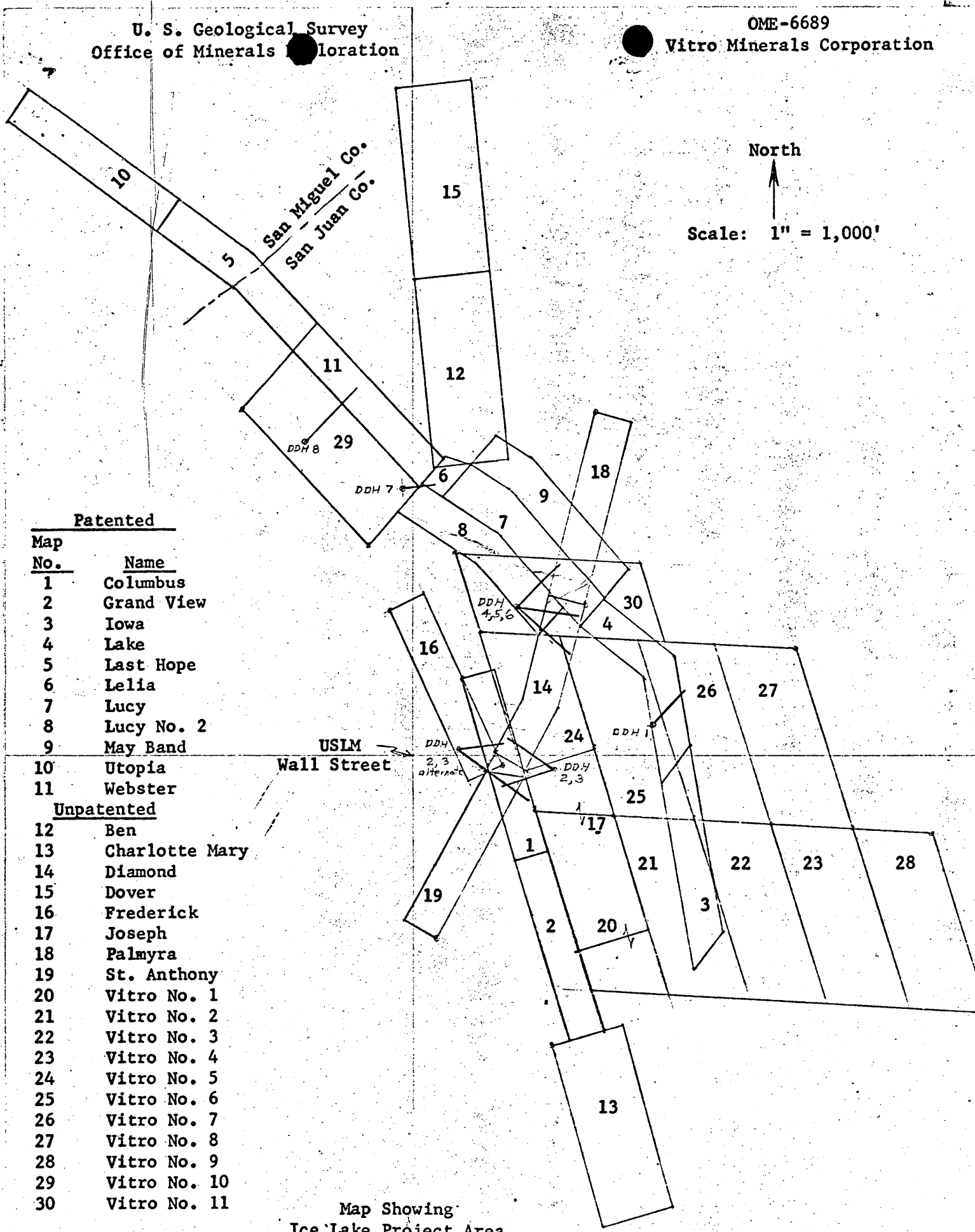
'(5) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

'(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

'(7) The contractor will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, That in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.'"

U. S. Geological Survey
Office of Minerals Exploration

OME-6689
Vitro Minerals Corporation



Patented

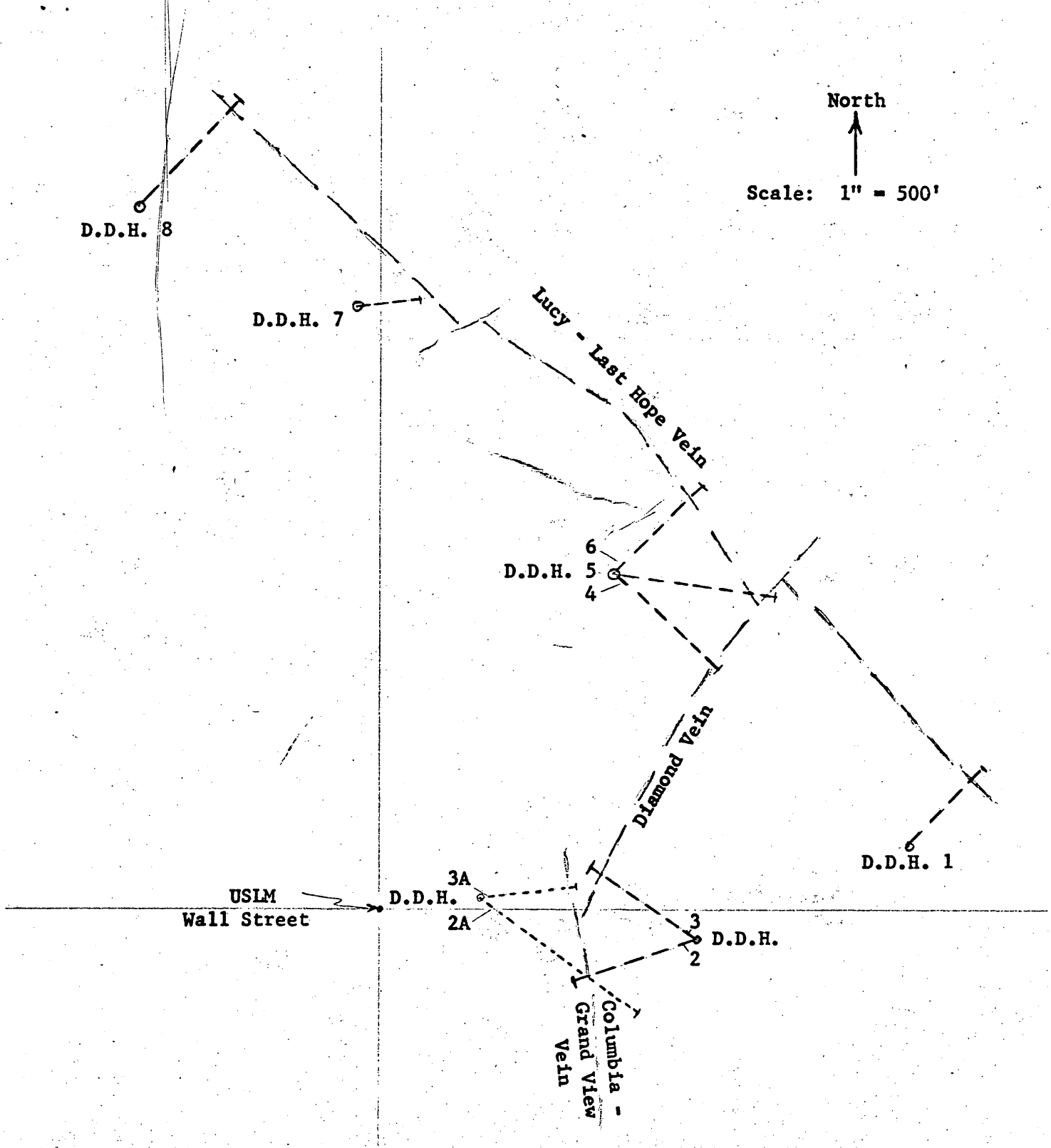
Map No.	Name
1	Columbus
2	Grand View
3	Iowa
4	Lake
5	Last Hope
6	Lelia
7	Lucy
8	Lucy No. 2
9	May Band
10	Utopia
11	Webster

Unpatented

12	Ben
13	Charlotte Mary
14	Diamond
15	Dover
16	Frederick
17	Joseph
18	Palmyra
19	St. Anthony
20	Vitro No. 1
21	Vitro No. 2
22	Vitro No. 3
23	Vitro No. 4
24	Vitro No. 5
25	Vitro No. 6
26	Vitro No. 7
27	Vitro No. 8
28	Vitro No. 9
29	Vitro No. 10
30	Vitro No. 11

Map Showing
Ice Lake Project Area
San Juan and San Miguel Counties
Colorado

Figure 1



Map Showing
Proposed Drill Holes
Ice Lake Project
San Juan County, Colorado

Figure 2

Prior application. —
Change of name of applicant

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

May 6, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 8 1968

INITIALS	CODE
gla	130
Sbs	140
FJ	110
	132

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U.S. Department of the Interior
Geological Survey
Washington, D. C. 20240

Re: Application of Vitro Minerals Corporation (a wholly owned subsidiary of Vitro Corporation of America) Ice Lake Project (gold and silver) San Juan and San Miguel Counties, Colorado.

with this OME 6689

Dear Mr. Johnson:

We refer to your letter dated April 18, 1968 and are pleased to enclose herewith, in duplicate, an application on MME Form 40 in the name of Vitro Minerals Corporation, a wholly owned subsidiary of Vitro Corporation of America. You will note that all material and information submitted as a part of the application of Vitro Corporation of America (acting by and through its Vitro Minerals and Chemical Company Division) dated January 22, 1968 (OME-6689) has been incorporated in the enclosed application by reference.

There are, in the course of preparation, execution and recording, documents bringing the title of all of the properties included in the project into the name of Vitro Minerals Corporation as owner, lessee or otherwise. As soon as this work has been completed, we propose to file with you a supplement to Appendix 1. to the geologic report and exploration proposal on the Ice Lake Project area submitted in support of OME-6689, presenting copies of all of these documents, and we shall at that time submit lien and subordination agreements on MME Form 52 for all interests in land other than the interest of Vitro Minerals Corporation.

If there is any other information which you require in connection with this application, please do not hesitate to communicate with us.

Very truly yours,

Vitro Minerals Corporation

By W B Hall
W. B. Hall, President

copy to R. III
sent by Applicant

jd

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

VITRO MINERALS CORPORATION,
a wholly owned subsidiary of Vitro Corporation of America
Post Office Box 15437
600 West 33rd South Street
Salt Lake City, Utah 84115

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: OME-6689

DATE RECEIVED: 5-8-68

REGION: III

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

INDIVIDUAL	
CORPORATION	X
PARTNERSHIP	
OTHER *(Specify)*	

STATE IN WHICH FIRM IS ORGANIZED: Delaware

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
See attached list.		

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Gold and silver

ESTIMATED COST OF PROJECT: $167,666.10

PROPERTY NAME	LOCATION COUNTY	STATE
Ice Lake Project	San Juan & San Miguel	Colorado

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D.C. or with the nearest OME Field Office.~~ Washington, D. C., 20242, or with the nearest OME Field Office.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

May 6, 1968
DATED

W B Hall
BY *(Signature)* W. B. Hall

President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C

VITRO MINERALS CORPORATION

DIRECTORS

Name	Residence Address
William H. Denne, Jr.	17 Shore Acre Drive Old Greenwich, Connecticut
William B. Hall	20 West 11th Street New York, New York 10011
Eugene B. Hotchkiss	50 Old Stamford Road New Canaan, Connecticut 06840
Raymond T. Ruder	40 Park Avenue New York, New York 10016
Frank B. Jewett, Jr.	589 Oenoke Ridge New Canaan, Connecticut 06840
Charles S Payson	2 East 88th Street New York, New York 10028
Charles J. Potter	330 North Carpenter Avenue Indiana, Pennsylvania

VITRO MINERALS CORPORATION

OFFICERS

Chairman of the Board of Directors	Frank B. Jewett, Jr. 589 Oenoke Ridge New Canaan, Connecticut 06840
President	William B. Hall 20 West 11th Street New York, New York 10011
Executive Vice President	Eugene B Hotchkiss 50 Old Stamford Road New Canaan, Connecticut 06840
Treasurer	Raymond T. Ruder 40 Park Avenue New York, New York 10016
Controller	Keith H. Elmer 586 East 9620 South Sandy, Utah
Secretary	William H. Denne, Jr. 17 Shore Acre Drive Old Greenwich, Connecticut

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

Information Forming Part of

Attached Application on MME Form 40

All material and information submitted as part of application of Vitro Corporation of America (acting by and through its Vitro Minerals and Chemical Company Division) dated January 22, 1968 (OME-6689) is incorporated herein by reference.

1. Financial Eligibility:

(a) Attached are true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources consisting of applicant's bank of account and one other banking institution.

(b)

Vitro Corporation of America, parent, 90 Park Ave. New York, N.Y.		no interest
Refinery Engineering Limited,	100% owned subsidiary of parent	no interest
Reading Alloys, Inc.	60% owned subsidiary of parent	no interest

(c) Applicant proposes to furnish its share of the cost of the exploration work through technical services and the balance of 25% of the estimated cost of the project from corporate funds. See page 51 of Geologic Report and Exploration Proposal on the Ice Lake Project Area previously submitted in support of the Vitro application (OME-6689).

2. Applicant's Rights in Land:

(a) See Appendix I to the Geologic Report and Exploration Proposal previously submitted in support of the Vitro application (OME-6689). Supplemental documentation is

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

being prepared and recorded to evidence title in Vitro Minerals Corporation and will be submitted promptly.

(b) See (a) above.

(c) Lien and Subordination Agreements on MME Form 52 (five copies) are being secured and will be submitted promptly.

3. Physical Description:

(a) (b) (c) See Geologic Report and Exploration Proposal on the Ice Lake Project Area previously submitted in support of Vitro application (OME-6689).

(d) None

(e) (f) See (a) (b) (c) above.

(g) Reports, maps and technologic information previously submitted in connection with (OME-6689).

4. Accessibility of Property:

(a) Location and accessibility of property are described in Geologic Report and Exploration Proposal on the Ice Lake Project Area previously submitted in support of Vitro application (OME-6689). A representative of the applicant will meet with OME representative and can be reached through:

Cecil H. Smith
Exploration Manager
Vitro Minerals Corporation
Post Office Box 15437
600 West 33rd South Street
Salt Lake City, Utah 84115
Telephone: (801) 262-2491

(b) See (a) above.

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

5. Exploration Work:

(a) See Geologic Report and Exploration Proposal on the Ice Lake Project Area previously submitted in support of Vitro application (OME-6689).

(b) Not applicable

(c) See (a) above.

6. Experience:

Applicant has been involved in mineral exploration and/or production from 1954 through 1965. From January 1, 1966 to April 1, 1968, exploration was carried on through the Vitro Minerals and Chemical Company Division of its parent, Vitro Corporation of America. Since April 1, 1968, such activities have been carried on by applicant. The geologic staff consists of three geologists having an average of 15 years experience in mineral exploration and related fields.

7. Estimate of Costs:

(a) through (g) See Geologic Report and Exploration Proposal on the Ice Lake Project Area previously submitted in support of Vitro application (OME-6689) and particularly section headed "Technical Costs and Field Expenses."

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

April 23, 1968

Mr. Floyd E. McKee
Vice President
Bankers Trust Company
280 Park Avenue
New York, New York 10017

Dear Mr. McKee:

I request your consideration of the following application for a loan of $130,000 for the purpose of continuing an exploration program for gold and silver on property we have control of in the Silverton area of Colorado. The patented and unpatented mining claims cover a promising series of veins from which high grade gold and silver minerals have been mined in the past from the surface. Our preliminary aerial photogrammetry and geological field reconnaissance suggest the possibility of significant quantities of commercial grade precious metal occurring in hereto unexplored, underlying strata which have historically been the source of commercial quantities of gold and silver ore in this area.

Because of extreme altitude and short working season in the area, it will be necessary to fly the drilling equipment, camp supplies, etc., in by helicopter and drill around the clock during the short open season.

If it is possible to arrange for the above loan, we would propose to put up an additional $40,000 to start the evaluation of the commercial potential of this property during the summer of 1968.

For your information, this company is a wholly owned subsidiary of Vitro Corporation of America. If there is any additional information which you would like to have in regard to the program, we will be happy to furnish it to you.

Very truly yours,

VITRO MINERALS CORPORATION

R. T. Ruder

R. T. Ruder
Treasurer

RTR:mv

BANKERS TRUST COMPANY
280 PARK AVENUE, NEW YORK

FLOYD E. McKEE, VICE PRESIDENT
TELEPHONE 692-5640

MAILING ADDRESS
POST OFFICE BOX 318
NEW YORK, NEW YORK 10015

April 24, 1968

Mr. R. T. Ruder, Treasurer
Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Dear Ray:

This is in reply to your letter of April twenty-third in which you requested a loan of $130,000 for the purpose of continuing an exploration program for gold and silver on property which you control in the Silverton area of Colorado.

Since this loan is strictly for exploration and due to the extreme tightness of the current money market, we regret that we are unable at this time to grant your request for this loan.

With kindest personal regards,

Sincerely,

Vice President

VITRO CORPORATION OF AMERICA
RECEIVED
APR 25 1968
R. T. RUDER
NEW YORK, N. Y.

Vitro MINERALS CORPORATION

90 PARK AVENUE • NEW YORK, N. Y. 10016 • MURRAY HILL 2-5700

April 25, 1968

VITRO CORPORATION OF AMERICA
REC'D
APR 25 1968
M. H. DENNE, JR.
NEW YORK, N. Y.

Mr. C. Talbott Hiteshew, Jr.
Vice President
Mellon National Bank and Trust Company
Mellon Square
Pittsburgh, Pennsylvania 15230

Dear Mr. Hiteshew:

I request your consideration of the following application for a loan of $130,000 for the purpose of continuing an exploration program for gold and silver on property we have control of in the Silverton area of Colorado. The patented and unpatented mining claims cover a promising series of veins from which high grade gold and silver minerals have been mined in the past from the surface. Our preliminary aerial photogrammetry and geological field reconnaissance suggest the possibility of significant quantities of commercial grade precious metal occurring in hereto unexplored, underlying strata which have historically been the source of commercial quantities of gold and silver ore in this area.

Because of extreme altitude and short working season in the area, it will be necessary to fly the drilling equipment, camp supplies, etc., in by helicopter and drill around the clock during the short open season.

If it is possible to arrange for the above loan, we would propose to put up an additional $40,000 to start the evaluation of the commercial potential of this property during the summer of 1968.

For your information, this company is a wholly owned subsidiary of Vitro Corporation of America. If there is any additional information which you would like to have in regard to the program, we will be happy to furnish it to you.

Very truly yours,

VITRO MINERALS CORPORATION

R. T. Ruder

R. T. Ruder
Treasurer

RTR:mv

MELLON NATIONAL BANK AND TRUST COMPANY
MELLON SQUARE
PITTSBURGH, PENNSYLVANIA 15230

C. TALBOTT HITESHEW, JR.
VICE PRESIDENT

April 29, 1968

Mr. Raymond T. Ruder, Treasurer
Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Dear Ray:

I am in receipt of your letter of April 25 wherein you request a loan of $130,000 for the purpose of continuing an exploration program for gold and silver on property controlled by you in the Silverton area of Colorado.

As this loan is for exploration purposes and not for the development of proven reserves, we are sorry to inform you that we are unable at this time to approve your request.

Kindest regards.

Sincerely yours,

C. Talbott Hiteshew, Jr.

C. Talbott Hiteshew, Jr.

CTH:cja

OFFICIAL USE ONLY

VITRO MINERALS CORPORATION
SUBSIDIARY OF VITRO CORPORATION OF AMERICA

Statement 1

STATEMENT OF FINANCIAL CONDITION
March 31, 1968

ASSETS	March 31, 1968	February 29, 1968	December 31, 1967
CURRENT ASSETS			
Cash	$ 37,406.05	$ 76,163.99	$ 40,973.04
Receivables			
Commercial	$ 34,516.94	$ 107,044.45	$ 89,020.15
U.S. Air Force	34,477.44	81,279.50	101,269.03
U.S. Army	158,073.38	167,112.27	125,586.78
Vitro Minerals & Chemical Co.			
Other	22,495.13	18,668.21	21,237.72
Total	$ 249,562.89	$ 374,104.43	$ 337,113.68
Prepaid Insurance, etc.	12.42	546.77	2,672.22
Total Current Assets	$ 286,981.36	$ 450,815.19	$ 380,758.94
OTHER ASSETS			
Insurance Claims	$ 8,003.80	$ 7,719.86	$ 6,408.61
PROPERTY, PLANT & EQUIPMENT			
Mining Lease	$ 340,000.00	$ 320,000.00	$ 295,000.00
Plant and Equipment	2,054,504.59	2,054,504.59	2,047,777.07
Total	$2,394,504.59	$2,374,504.59	$2,342,777.87
Less: Allow. for Depr. & Deplet.	1,021,150.15	994,547.38	934,299.35
Reserve for Revaluation	551,181.43	560,181.43	578,181.43
Net Value	$ 822,173.01	$ 819,775.78	$ 830,297.09
DEFERRED CHARGES			
Mine Development Costs	$ 104,244.64	$ 130,270.25	$ 240,123.18
Other		.35	2.33
	$ 104,244.64	$ 130,270.60	$ 240,125.51
Total Assets	$1,221,402.81	$1,408,581.43	$1,457,590.15

I certify that this is a true statement of the financial condition of Vitro Minerals Corporation as of March 31, 1968.

VITRO MINERALS CORPORATION

H. T. Ruder
Treasurer

Statement 1

LIABILITIES & SHAREHOLDERS EQUITY	March 31, 1968	February 29, 1968	December 31, 1967
CURRENT LIABILITIES			
Vouchers Payable	$ 52,204.92	$ 74,690.84	$ 66,214.57
Other Payable-Vitro Corp. of America	3,782.27	144,028.70	250,472.63
Other Payable-Vitro Minerals & Chemical Co.	2,782.00		2,291.25
Advances from Vitro Corporation of America	940,000.00	990,000.00	990,000.00
Accrual for Salaries and Wages	31,534.36	30,226.87	18,951.02
Withholding for Payroll Taxes, etc.	9,922.88	9,685.48	12,139.21
Other Accrued Liabilities	53,032.56	37,143.27	33,054.65
Total Current Liabilities	$1,093,258.99	$1,285,775.16	$1,373,123.33
SHAREHOLDERS EQUITY			
Common Stock, Par Value $100 Per Share Authorized 2,000 Shares Issued and Outstanding 1,200 Shares	$ 120,000.00	$ 120,000.00	$ 120,000.00
Earned Surplus	(35,533.18)	(35,533.18)	(35,533.18)
Profit or (Loss) Year to Date	43,677.00	38,339.45	
Total	$ 128,143.82	$ 122,806.27	$ 84,466.82
Total Liabilities & Shareholders Equity	$1,221,402.81	$1,408,581.43	$1,457,590.15

Vitro MINERALS & CHEMICAL COMPANY
A DIVISION OF VITRO CORPORATION OF AMERICA
90 PARK AVENUE · NEW YORK, N. Y. 10016 · 212-682-5700

January 22, 1968

Mr. Frank Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Washington 25, D.C.

Dear Frank:

I am transmitting herewith a formally executed application for an O.M.E. loan, together with all of the information called for on the reverse of Form MME 40, relative to our proposed exploration program on the Ice Lake project near Silverton, Colorado.

We are most appreciative of your willingness to proceed with the evaluation of the technical merits of this application, and the indicated costs of the exploration program we have outlined, in the absence of lien and subordination agreements. We foresee no problems in obtaining signed agreements, but the number of different lessors and the fact they are so widely scattered throughout the country will undoubtedly require an extended period. It is understood that any approval of our application will be subject to our supplying the requisite Lien and Subordination agreements, or a bond in lieu thereof.

In a telephone discussion with Mr. Kirkemo of your staff, we discussed the mutual convenience of setting up the reimbursement feature of the contract on a "dollars per foot drilled basis" not to exceed the recommended total footage of drilling. We would prefer this plan, particularly since the remoteness of the location and the lack of trained personnel on the site would make any other method of cost accounting more cumbersome and expensive.

We feel most fortunate that through Mr. Luedke's extensive experience in the area, and his recent examination of the property, the normal time required for an evaluation of the potential of our Ice Lake project should be greatly reduced.

I look forward with keen anticipation, and hope to share with you and your staff, the pleasure and satisfaction of a significant discovery.

Sincerely,

Gene

Eugene B. Hotchkiss
Vice President

EBH:jwf

Vitro CORPORATION OF AMERICA

90 PARK AVENUE · NEW YORK, N.Y. 10016 · MURRAY HILL 2-5700

January 22, 1968

Office of Minerals Exploration
Department of the Interior
Washington, D.C. 20242

Gentlemen:

Enclosed is application to Office of Minerals Exploration for financial assistance on a gold-silver exploration program in Ice Lake Basin, San Juan and San Miguel Counties, Colorado.

As instructed by MME Form 40 attached, we furnish the following required information (by paragraph and sub-paragraph).

1. FINANCIAL ELIGIBILITY

(a) Attached is application to obtain credit from bank of account and at least one other source showing date, amount, terms, proposed use, and replies.

(b)

Affiliated Companies	Vitro Ownership	Address	Interest in Project
Refinery Engineering Ltd.	100%	Calgary, Alberta Canada	None
Vitro Minerals Corporation	100%	New York, N.Y.	None
Reading Alloys Inc.	60%	Reading, Pa.	None

(c) Vitro proposes to furnish its share of the cost of the exploration work through technical services (See Report, page 51) and the balance of the 25% of the estimated cost of this project from Corporate funds.

2. APPLICANT'S RIGHTS IN LAND

(a) See APPENDIX I (bound separately).

(b) See APPENDIX I (bound separately).

(c) Lien and Subordination Agreements on MME Form 52 (five copies) are in the process of being signed and will be submitted promptly.

3. PHYSICAL DESCRIPTION

(a, b, c) Refer to Ice Lake project area Geologic Report and Exploration Proposal with accompanying plates and appendices.

(d) None

(e, f) Refer to Ice Lake project area Geologic Report and Exploration Proposal with accompanying plates and appendices.

(g) Earlier reports were previously submitted to the United States Geological Survey in Washington, D.C.

4. ACCESSIBILITY OF PROPERTY

(a) Location and accessibility of property are described in attached Geologic Report. Company representative in charge will meet with OME representative and can be reached through:

Cecil H. Smith
Exploration Manager
VITRO MINERALS & CHEMICAL COMPANY
(division Vitro Corporation of America)
P. O. Box 15437
Salt Lake City, Utah 84115
Telephone: (801) 262-2491

(b) See Report.

5. EXPLORATION WORK

(a) See Report.

(b) Not applicable.

(c) See Report.

6. EXPERIENCE

Vitro Corporation of America, acting through its divisions and subsidiaries, has been involved in mineral exploration and production since 1954. The geologic staff consists of three geologists having an average of 15 years experience in mineral exploration and related fields.

7. ESTIMATE OF COSTS

(a) See Report and Appendices.

(b) See Report and Appendices.

(c) None.

(d) See Report under "Technical Costs and Field Expenses."

(e) None.

(f) None.

(g) See Report.

Any further information or clarification required will promptly be submitted on request.

Two copies of our latest Annual Report are also enclosed.

Sincerely,

VITRO CORPORATION OF AMERICA

W B Hall

William B. Hall
Vice President

WBH:mg

Attachments

MME Form 40
Jan. 65

Budget Bureau No. 42-R1308
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY
M. E.
RECEIVED
JAN 24 1968
INITIALS CODE

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85–701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

VITRO CORPORATION OF AMERICA
Acting by and through its
VITRO MINERALS AND CHEMICAL COMPANY
Division
P. O. Box 15437
Salt Lake City, Utah 84115

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6689

DATE RECEIVED: 1/24/68

REGION: III

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
See attached list.		

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Gold and Silver

ESTIMATED COST OF PROJECT: $167,666.10

PROPERTY NAME	LOCATION COUNTY	STATE
ICE LAKE PROJECT,	SAN JUAN & SAN MIGUEL,	COLORADO

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D. C., or with the nearest OME Field Office.~~ Washington, D. C., 20242, or with the nearest OME Field Office.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

January 22, 1968
DATED

W. B. Hall
BY *(Signature)*

W. B. Hall
Vice President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openi[illegible] *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

VITRO CORPORATION OF AMERICA

Officers

Chairman of the Board of Directors	Charles S. Payson 2 East 88th Street New York, New York 10028
President	Frank B. Jewett, Jr. 589 Oenoke Ridge New Canaan, Connecticut
Vice-President	Andrew J. Erickson 17 Alexandra Road Fort Walton Beach, Florida
Vice President	William B. Hall 20 West 11th Street New York, New York 10011
Vice-President-Finance, Treasurer	Raymond T. Ruder 40 Park Avenue New York, New York 10016
Vice President	Woodrow W. Storey 1316 Fenwick Lane Silver Spring, Maryland
Vice President	G. Russell Tatum 3902 Rosemary Street Chevy Chase 15, Maryland
Secretary	William H. Denne, Jr. 17 Shore Acre Drive Old Greenwich, Connecticut
Controller	Joseph E. Doherty 9 Stuyvesant Street Huntington, New York

January 5, 1968

Mr. C. Talbott Hiteshew, Jr.
Vice President
Mellon National Bank and Trust Company
Mellon Square
Pittsburgh, Pennsylvania 15230

Dear Mr. Hiteshew:

I request your consideration of the following application for a loan of $130,000 payable in ten years for the purpose of continuing an exploration program for gold and silver on property we have control of in the Silverton area of Colorado. The patented and unpatented mining claims cover a promising series of veins from which high grade gold and silver minerals have been mined in the past from the surface. Our preliminary aerial photogrammetry and geological field reconnaissance suggests the possibility of significant quantities of commercial grade precious metal occurring in hereto unexplored, underlying strata which have historically been the source of commercial quantities of gold and silver ore in this area.

Because of extreme altitude and short working season in the area, it will be necessary to fly the drilling equipment, camp supplies, etc., in by helicopter and drill around the clock during the short open season.

If it is possible to arrange for the above loan, we would propose to put up an additional $40,000 to complete the evaluation of the commercial potential of this property during the summer of 1968.

If there is any additional information which you would like to have in regard to the program, we will be happy to furnish it to you.

Very truly yours,

VITRO CORPORATION OF AMERICA

ORIGINAL SIGNED BY
R. T. RUDER

R. T. Ruder
Vice President-Finance

RTR:EBH:mg

JAN 10 1967
E. B. HOTCHKISS
NEW YORK, N. Y.

MELLON NATIONAL BANK AND TRUST COMPANY
MELLON SQUARE
PITTSBURGH, PENNSYLVANIA 15230

C. TALBOTT HITESHEW, JR.
VICE PRESIDENT

January 8, 1968

Mr. Raymond T. Ruder
Vice President and Treasurer
Vitro Corporation of America
90 Park Avenue
New York, New York 10016

Dear Ray:

This will acknowledge and thank you for your letter of January 5, 1968. I am sorry that we must decline your request for a ten-year term loan of $130,000. It is our present policy not to make term loans for periods as long as ten years.

Kindest regards.

Sincerely yours,

C. Talbott Hiteshew, Jr.

C. Talbott Hiteshew, Jr.

CTH:cja

VITRO CORPORATION OF AMERICA
RECEIVED
JAN 10 1968
R. T. RUDER
NEW YORK, N. Y.

January 8, 1968

Mr. John L. Fenton
Vice President
Bankers Trust Company
529 Fifth Avenue
New York, New York 10017

Dear Mr. Fenton:

I request your consideration of the following application for a loan of $130,000 payable in ten years for the purpose of continuing an exploration program for gold and silver on property we have control of in the Silverton area of Colorado. The patented and unpatented mining claims cover a promising series of veins from which high grade gold and silver minerals have been mined in the past from the surface. Our preliminary aerial photogrammetry and geological field reconnaissance suggests the possibility of significant quantities of commercial grade precious metal occurring in hereto unexplored, underlying strata which have historically been the source of commercial quantities of gold and silver ore in this area.

Because of extreme altitude and short working season in the area, it will be necessary to fly the drilling equipment, camp supplies, etc., in by helicopter and drill around the clock during the short open season.

If it is possible to arrange for the above loan, we would propose to put up an additional $40,000 to complete the evaluation of the commercial potential of this property during the summer of 1968.

If there is any additional information which you would like to have in regard to the program, we will be happy to furnish it to you.

Very truly yours,

VITRO CORPORATION OF AMERICA

ORIGINAL SIGNED BY
R. T. RUDER

R. T. Ruder
Vice President-Finance

RTR:EBH:mg

BANKERS TRUST COMPANY
529 FIFTH AVENUE, NEW YORK, N. Y. 10017

JOHN L. FENTON, VICE PRESIDENT
TELEPHONE 692-7470

January 9, 1968

Mr. Raymond T. Ruder
Vice President-Finance and Treasurer
Vitro Corporation of America
90 Park Avenue
New York, New York

Dear Mr. Ruder:

We are in receipt of your letter of January 8 wherein it was requested that we loan Vitro Corporation of America $130,000 payable in ten years for the purpose of continuing exploration for gold and silver in the Silverton area of Colorado.

As I am sure you know, we would like very much to be helpful, but, in view of the term and purpose of the loan, we regret that we must decline your request.

Sincerely yours,

John L. Fenton

VITRO MINERALS CORPORATION
RECEIVED
JAN 12 1967
E. B. HOTCHKISS
NEW YORK, N. Y.

VITRO CORPORATION OF AMERICA
RECEIVED
JAN 12 1968
R. T. RUDER
NEW YORK, N. Y.

Office of Minerals Exploration
Building 53 Room 28

~~150~~ 120rn
LK
Raw Bmeeles

April 25, 1972

Mr. Thomas I. Sharps, Senior Geologist
Canadian Superior Exploration Limited
Suite 2201 - 1177 West Hastings Street
Vancouver 1, British Columbia

Subject: OME-6689 (Gold-Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Tom:

A letter dated August 23, 1971 from the Chief, OME to Vitro Minerals Corporation, notified them that since work then completed under the contract had not resulted in a certification of possible production, that the Government retains no lien against the property subject to the contract on any future production therefrom, and that the Government has closed its books and records on Contract OME-2262. The Operator is, however, required to retain the records for a period of time after August 23, 1971 should the Government wish to examine them.

It was good to hear from you again. The area you are working in must be an exciting area geologically. Please keep me posted on your activities.

Best regards,

J. William Hasler

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

cc: Chief, OME with copy of incoming letter and mining deed ✓
OME-6689
OME chron
Mr. Hasler

CANADIAN SUPERIOR EXPLORATION LIMITED

SUITE 2201-1177 WEST HASTINGS STREET

VANCOUVER 1, BRITISH COLUMBIA

TELEPHONE 681-9426

TELEX 04-55297

RECEIVED APR 20 1972 Denver, Colorado

April 18, 1972

Mr. J. William Hasler,
Office of Minerals Exploration,
Denver Federal Center,
Denver, Colorado, 80225,
U.S.A.

Dear Bill,

Vitro Minerals Corporation and Earth Resources Company have deeded their interests in the Ice Lake Properties to me and my wife and I am now attempting to get the mineral industry to further develop the claims.

As you can see from the enclosed copy of the deed, both the Federal Government and Vitro Corp. of America hold royalty assignments to any future production. These royalty assignments form a serious handicap to further development and I wish to request repeal of the government royalty stipulation. I intend to write to Vitro Corp. of America to see if I can get relief of their royalty requirement. If you could advise me how I may get relief of the government royalty it would be appreciated.

It is unfortunate that Vitro's program turned out the way it did. I still feel there is some hope for the property but with Vitro's negative results coupled with the royalty burden it is difficult to generate interest in the claims.

I've been working in British Columbia a little over a year now and will be going to Alaska for the summer.

I hope all is going well with you.

Sincerely yours,

Thomas I. Sharps

Thomas I. Sharps,
Senior Geologist.

TIS:bz

State of Colorado
County of San Juan } ss.
Filed for record this 26th day of April, A. D. 1971 at 9:45 o'clock A.M.
Reception No. 149988 Book 182 Page 296
Mary L. Anderson, Recorder

INDEXED

RECEIVED
APR 20 1972
Denver, Colorado

MINING DEED

THIS MINING DEED made this 1st day of March, 1971, by VITRO MINERALS CORPORATION, a Delaware corporation, GRANTOR; to THOMAS I. SHARPS and LOIS M. SHARPS, his wife, of 470 South 42nd, Boulder, Colorado, 80302, GRANTEE;

W I T N E S S E T H:

WHEREAS, by Mining Deed dated April 1, 1968, and recorded in the office of the County Recorder of San Miguel County, State of Colorado, on May 8, 1968 in Book 324, Page 208, and also recorded in the office of the County Recorder of San Juan County, State of Colorado in Book 193, Page 119, on May 8, 1968, VITRO CORPORATION OF AMERICA, a Delaware corporation, conveyed to VITRO MINERALS CORPORATION, a Delaware corporation, all of its right, title and interest in, to and under the following described unpatented and patented lode mining claims:

UNPATENTED CLAIMS

NAME OF CLAIM	Certificate of Location Recorded in San Juan County, Colorado in Book	Page
Vitro No. 1	189	536
Vitro No. 2	189	537
Vitro No. 3	189	537
Vitro No. 4	189	538
Vitro No. 5	189	538
Vitro No. 6	189	539
Vitro No. 7	189	539
Vitro No. 8	189	540
Vitro No. 9	189	540
Vitro No. 10	189	541
Vitro No. 11	189	541
Ben	189	542
That portion of the Dover Claim situated in San Juan County, Colorado	189	542

Name of Claim	Certificate of Location Recorded in San Miguel County, Colorado in Book	Page
That portion of the Dover Claim situated in San Miguel County, Colorado	331	85-86

Name of Claim	Original Certificate of Location Recorded in San Juan County, Colorado in Book	Page	Amended Certificate of Location Recorded in San Juan County, Colorado in Book	Page
Diamond	92	564	142	405
Palmyra	147	18	142	407
St. Anthony	147	18-19	142	406
Frederick	147	20	142	409
Joseph	147	375	142	408
Charlotte Mary	165	33	142	410

STATE DOCUMENTARY FEE
DATE April 26, 1971
$ 1.15 cents

PATENTED CLAIMS

Division III
RECEIVED
APR 20 1972
Denver, Colorado

Utopia, U. S. Mineral Survey No. 15457
situated in San Miguel County, Colorado;

That portion of Last Hope, U. S. Mineral
Survey No. 11695, situated in San Miguel
County, Colorado;

Iowa, U.S. Mineral Survey No. 12298;
Lake, U.S. Mineral Survey No. 12298;
situated in San Juan County, Colorado;

Columbus, U. S. Mineral Survey No. 11693;
Grand View, U. S. Mineral Survey No. 11693;
Webster, U.S. Mineral Survey No. 11695;
situated in San Juan County, Colorado;

That portion of the Last Hope U. S. Mineral
Survey No. 11695, situated in San Juan County,
Colorado;

Golden Gate, U. S. Mineral Survey No. 12817;
Silver Dick, U. S. Mineral Survey No. 12817;
Isabel, U. S. Mineral Survey No. 11531;
situated in San Juan County, Colorado;

NOW, THEREFORE, GRANTOR, for and in consideration of TEN DOLLARS ($10.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, does hereby GRANT, BARGAIN, SELL and CONVEY unto GRANTEE all of Grantor's right, title and interest in, to and under the above-described patented and unpatented lode mining claims acquired and held under said deed from Vitro Corporation of America, or otherwise; SUBJECT TO:

Royalty Assignment of three percent (3%) of the net smelter returns received from ores and minerals produced and shipped or sold from the mining claims herein described, to VITRO CORPORATION OF AMERICA, a Delaware corporation, dated September 10, 1968;

ALSO:

Payment of Royalty to the Government, in the amount of five percent (5%) of the gross proceeds (including any bonuses, premiums, allowances or other benefits) from the production sold, in the form sold (ore, concentrate, metal or equivalent) at the point of delivery; as provided for under OME-6689, Contract No. 2262, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey; and Vitro Minerals Corporation of America, dated July 31, 1968;

TOGETHER WITH all of GRANTOR'S rights in and to all and singular the minerals, lodes, veins, dips and spurs and in and to all and whatsoever rights, privileges and appurtenances which appertain or otherwise belong to said mining claims or any of them.

IN WITNESS WHEREOF, these presents are executed the day and year first above

ATTEST:

Assistant Secretary

Assistant Secretary

VITRO MINERALS CORPORATION

By W. B. Hall
W. B. Hall President

EARTH RESOURCES COMPANY

By Gene K. Ealy
Gene K. Ealy Vice Pres.

RECEIVED
APR 20 1972
Denver, Colorado

STATE OF COLORADO)
) ss.
COUNTY OF JEFFERSON)

The foregoing instrument was acknowledged before me this 1st day of March 1971, by W. B. HALL as the President of VITRO MINERALS CORPORATION.

WITNESS my hand and official seal.

My Commission expires: December 4, 1974.

Carol Ann Parker
Notary Public

STATE OF COLORADO)
) ss.
COUNTY OF JEFFERSON)

The foregoing instrument was acknowledged before me this 1st day of March 1971, by GENE K. EALY, as the Vice President of EARTH RESOURCES COMPANY.

WITNESS my hand and official seal.

My Commission expires: December 4, 1974.

Carol Ann Parker
Notary Public

OME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/17/72		120
		220

AIRMAIL

Mr. William P. Daker
President
Daker Mining & Milling Corp.
3801 Charles Drive
Northbrook, Illinois 60062

JAN 17 1972

Dear Mr. Daker:

This is in reply to your letter of January 1, 1972, requesting information on the results of exploration on the Golden Gate, Silver Dick, and Isabel claims presumably conducted under an OME contract with Vitro Minerals Corporation.

The three claims are located more than one-half mile northeast of the land subject to the OME contract and, therefore, they were not included in the contract or explored. Even if the claims had been included in the contract and explored under its provisions, we could not have made available any information on the results of the exploration without written authorization from Vitro Minerals Corporation.

We regret that we cannot be of further assistance to you.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME Docket 6689
OME Reading File
OME Region III
~~OME Reading File~~
Mr. Kirkemo

HKirkemo/gla 1-17-72

Daker Mining & Milling Corp.
3801 Charles Drive 60062
Northbrook, Illinois
January 1,1972

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 6 1972
INITIALS | CODE
gja | 130
| 120

O.M.Exploration,
Depattment of Interior,
U.S. Geological Survey,
Washington, D.D.

Dear Sir;

My corporation now has the deed to three patented claims which afe under the obligation of contract # OME-6689, contract No. 2262, between the U.S. of America through your department, and Vitro Corp. of America.
The names of the claims are as follows;
Golden Gate, U,S. Mineral Survey No. 12817
Silver Dick " " " " "
Isabel " " " " 11531
Due to the fact that my corporation also has twenty-five other patented or unpatented mining claims adjacent to the above claims, I am interested in the outcome of such exploratory program. Please advise me of outcome of such and the findings af drilling program. I plan to further explore the district but can not intelligently do such unless I have their records. If there is any charge for statting records, I will be glad to send such.

Very Sincerely Yours,
William P. Daker, President
William P. Daker

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration
Building 53 Room 28

T 12

Cac 120 NW
Gla 120
HK ~~120~~
220

October 7, 1971

Memorandum

To: Chief, Office of Minerals Exploration

From: Assistant Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith is the final field report on the above-stated OME exploration project.

William L. Emerick

William L. Emerick,
Assistant Chief
Office of Minerals Exploration

Enclosure

FINAL FIELD REPORT

FINAL FIELD REPORT - OME EXPLORATION PROJECT

By W. L. Emerick

October 7, 1971

1. OME-6689 (Silver)
   Vitro Minerals Corporation
   Ice Lake Project
   San Juan and San Miguel Counties, Colorado
   Contract 2262

   Operator: Vitro Minerals Corporation
   P.O. Box 15437
   600 West 33rd South Street
   Salt Lake City, Utah 84115

   Property: Consisted of eleven (11) patented and nineteen (19) unpatented lode mining claims, including all rights pertaining thereto, in unsurveyed secs. 18, 19, 30, and 31, T. 41 N., R. 8 W., and secs. 13, 14, 15, 22, 23, 24, and 25, T. 41 N., R. 9 W., New Mexico Principal Meridian, Ice Lake mining district, San Juan County, and the Iron Springs mining district, San Miguel County, Colorado. A map showing the area of the 30 claims was attached to the contract.

   Ownership: The Operator was in possession of four patented claims under the terms of a Mining Deed, dated April 1, 1968, from Vitro Corporation of America, the owner. The Operator was in possession of a 54.5% interest in three patented claims under the terms of a Mining Deed, dated April 1, 1968, and of the remaining 45.5% interest under the terms of a transfer of Lease Agreement by Assignment, dated April 1, 1968, from Vitro Corporation of America, the owner. The Operator was in possession of the remaining four patented claims under the terms of seven Lease and Agreement contracts transferred by seven separate Assignments, all dated April 1, 1968, from Vitro Corporation of America, the owner, and one Lease and Agreement, dated June 19, 1968, from J. Douglas Crouch, the owner of a 1/45 interest in one of the claims. The Operator was in possession of 13 unpatented claims under the terms of a Mining Deed, dated April 1, 1968, from Vitro Corporation of America, the owner. The Operator was in possession of a 50% interest in 6 unpatented claims under the terms of a Mining Deed, dated April 1, 1968, and of the remaining 50% interest under the terms of a transfer of Lease Agreement by an Assignment, dated April 1, 1968, both from Vitro Corporation of America, the owner.

2. Purpose of Project: The purpose of the project was to explore by diamond drilling from surface sites for silver-bearing ore bodies occurring in and along several veins in volcanic rocks of the San Juan Formation and Silverton Volcanic group, both of Tertiary age.

3. Contract: Dated July 31, 1968, for a term of 15 months, later extended by amendments to 27 months.
Original contract amount - $145,300.00
Government participation, 75 percent, $108,975.00

Amendments - No. 1 - December 31, 1968, to suspend work under the contract for 9 months, to extend the time for completion of the work from 15 to 24 months, to extend the maximum period for royalty payments from 10 to 11 years, and to state that certain provisions become effective if suspended work is not resumed on or before a given date.

No. 2 - July 23, 1969, to revise in Exhibit A under the heading Estimated Costs of the Project, (1) the entire section Actual Costs, Category (1), Independent Contracts, (2) The Total Estimated Actual Costs, (3) the Summary, and (4) to add a new section Fixed Unit Costs.

No. 3 - January 7, 1970, to suspend work under the contract for 8 1/2 months, to extend the time for completion of the work from 24 to 27 months, and to state that certain provisions become effective if suspended work is not resumed on or before a given date.

4. Project Work: Started July 31, 1968. A non-certification notice (closing letter), dated August 23, 1971, was sent to the Operator withdrawing the Government's claim or lien against the property described in the contract or any future production therefrom.

Cost Items

Actual Costs	Authorized			Completed	
	Units	Rate	Amount	Units	Amount
Mobilization and demobilization to staging area, crews and equipment	3 drills		$2,450.00	3 drills	$2,450.00
Mobilization and demobilization at initial drill sites	3	$150.00/each	$450.00	3	$450.00
Moving between drill sites and setting up drill rigs	3 moves	$150.00/each	$450.00	3 moves	$450.00
Diamond core and overburden drilling	7,500 feet	Various	$61,590.00	7,424 feet	$63,537.60
Reaming and casing, all sizes	800 feet	Various	$4,400.00	70 feet	$385.00
Cementing and redrilling	200 hours	$26.00/hr.	$5,200.00	200 hours	$5,198.00

Cost Items-continued

Actual Costs	Authorized Units	Authorized Rate	Authorized Amount	Completed Units	Completed Amount
Casing lost in completed holes	800 feet	$3.00/ft.	$2,400.00	8 feet	$32.20
Core boxes, cardboard	650 boxes	$0.90/each	$585.00	650 boxes	$585.00
Cement, drill muds, additives	----	----	$2,000.00	----	$401.96
Surveying within-hole instrument	75 hours	$22.00/hr.	$1,650.00	53 hours	$1,160.84
Helicopter	187 2/3 hours	Various	$32,581.59	187 2/3 hours	$32,581.71
Saddle horses, 4	372 days	$6.50/day	$2,418.00	372 days	$2,418.00
Camp and board, 17 personnel	517 man days	$10.50/day	$5,439.00	517 man days	$5,439.00
Supervisor	3 months	$1,000.00/mo.	$3,000.00	3 months	$3,000.00
Geologist	3 months	$950.00/mo.	$2,850.00	3 months	$2,850.00
Field Assistant	3 months	$600.00/mo.	$1,800.00	3 months	$1,800.00
Assaying for gold, silver lead, zinc, and copper	400 samples	Various	$3,600.00	77 samples	$232.23
Rental of core storage space	3 months	$50.00/mo.	$150.00	3 months	$150.00
Office Expenses	3 months	$75.00/mo.	$225.00	3 months	$225.00
Payroll taxes & insurance	----	----	$575.00	----	$575.00
Vehicle Rental, 2 vehicles	3 months	$30.00/mo.	$180.00	3 months	$180.00
Total Actual Costs			$133,989.00 (Rounded)		$124,101.54

Fixed Unit Costs					
Tent base camp in Ice Lake Basin, mobilization and demobilization	----	----	$100.00	----	$100.00
Shelter and subsistence, 17 personnel	1068 man days	$10.50/day each	$11,211.00	1068 man days	$11,211.00
Total Fixed Unit Costs			$11,311.00		$11,311.00

Cost Items-continued

Total Costs of Project	$145,300.00	$135,412.54
Government Participation @ 75%	$108,975.00	$101,559.41
Paid to the Operator		$101,559.41

The Government retained no equity in any of the materials used.

Effectiveness of the Work - All of the selected target areas of the project were adequately explored.

Efficiency of Operation - Access problems to the drilling area and the poor performance of the drilling contractor contributed to the slow progress of the work, and for the Operator, an increase in costs.

5. Reports:

Operator's Final Report - An acceptable Final Report, dated October 23, 1970, was received from the Operator.

Cost Review - Reports of Review were issued by the Office of Survey and Review in January 1970 and in April 1971.

Final Audit - A final audit was not requested because no additional vouchers were submitted or paid after the Report of Review in April 1971. The final voucher was paid January 20, 1971.

Royalty Review - There was no production sold and no royalty was due the Government. A Royalty Review was not requested.

6. Project Results:

Discoveries - The project work did not result in the discovery of silver-bearing ore bodies.

Certification - No certification of possible production was issued.

Production - There was no production of ore as a result of the OME work.

Royalties - No royalties were paid or due the Government.

7. Geologic Summary:

- The three mineralized vein fissures of the Ice Lake project cut volcanic rocks of Tertiary Age. One of the veins strikes NE and the other two strike NW. Dips of the three veins vary from 70° SW to vertical. Minerals in the veins are mainly pyrite, chalcopyrite, tetrahedrite, covellite, native gold, and native silver in a gangue of quartz and carbonates (mainly rhodocrosite). The only recorded production from the Ice Lake district came from three mines during the years 1938 to 1945 and was valued at about $78,500.

United States Department of the Interior

GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

Closing letter removed for my file C.C.

AUG 23 1971

file

Miss Lucia N. Standish
301 Milford Drive
Cameo Shores
Corona Del Mar, California 92625

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Miss Standish:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements signed by you on February 27, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

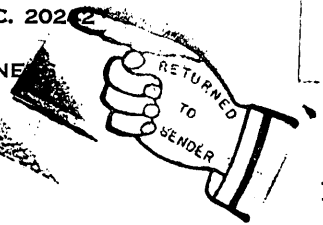
Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D. C. 20242

OFFICIAL BUSINESS



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF THE INTERIOR

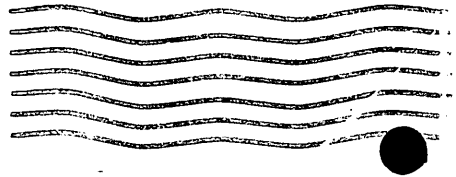
4460 GSA

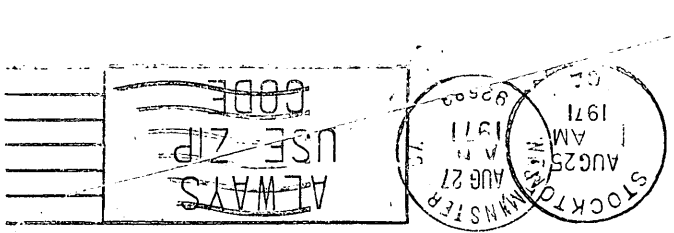
Miss Lucia N. Standish
301 Milford Drive
Cameo Shores
Corona Del Mar, California 92625

- [ ] ~~Moved,~~ left no address
- [x] Moved, not forwardable
- [ ] Temporarily away
- [ ] Addressee unknown
- [ ] No such number
- [ ] Refused
- [ ] Vacant
- [ ] Out of business

Employee initials
Carrier number

CORONA DEL MAR, CA
AUG 26
AM
1971
92625





United States Department of the Interior

GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

AUG 2 3 1971

file

Mr. Manley S. Nolen
2640 Fairgreen Drive
Bridgeville, Pennsylvania 15017

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Nolen:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by you on March 5, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

United States Department of the Interior

GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

AUG 23 1971

Vitro Minerals Corporation
P. O. Box 15437
600 West 33rd South Street
Salt Lake City, Utah 84115

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Gentlemen:

Reference is made to your completed exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of possible production under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the periods indicated.

We appreciate your interest and participation in the OME exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copies: Mr. W. B. Hall
President
Vitro Minerals & Chemical Company
90 East Park Avenue
New York, New York 10016

Earth Resources Company
5920 McIntyre Road
P. O. Box 270
Golden, Colorado 80401

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D. C. 20242

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF THE INTERIOR

4460
Interior

Mr. Manley S. Nolen
2640 Fairgreen Drive
Bridgeville, Pennsylvania 15017

RETURNED TO SENDER

Moved left no address
No such number
Moved, not forwardable
Addressee unknown

E411

45

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Messrs. John R. Thomas and
Tim L. Thomas, and
Mrs Monroe Staples
as devisees of Earl P. Thomas Estate
c/o Albin Ulrickson
Attorney at Law
2401 Continental Life Building
Fort Worth, Texas 76102

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Sirs and Madam:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by you on March 26, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8/23/71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Miss Marjorie S. Crouch
695 West 10th Street
Claremont, California 91711

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Miss Crouch:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by you on March 19, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Minerals Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-23-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Mr. Manley S. Nolen
2640 Fairgreen Drive
Bridgeville, Pennsylvania 15017

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Nolen:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by you on March 5, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkeno/cac 8-23-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Miss Margaret T. Beazley
2410 Seminole
Springfield, Missouri 65804

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Miss Beazley:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by you on March 2, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-20-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Mr. Clark Thomas and
Mrs. Ellen Thomas
11330 S. W. Capitol Highway
Portland, Oregon 97219

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Dear Mr. and Mrs. Thomas:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by both of you on March 1, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-20-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Miss Lucia N. Standish
301 Milford Drive
Cameo Shores
Corona Del Mar, California 92625

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Miss Standish:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements signed by you on February 27, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-20-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Mr. J. Douglas Crouch
Perkins Shearer Company
102 North Tejon Street
Colorado Springs, Colorado 80902

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Crouch:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements signed by you on February 26, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-20-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Mr. John Schmelzer
Lakeview Manor 1E
Millville, New Jersey 08332

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Schmelzer:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the two Lien and Subordination Agreements signed by you on February 26, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-20-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

AUG 23 1971

Mrs. Anne S. Crouch
2315 Balsam Drive
Boulder, Colorado 80302

Mr. Edward E. Kingery
1906 13th Street, Suite 104
Boulder, Colorado 80302

OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mrs. Crouch and Mr. Kingery:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Lien and Subordination Agreements, signed by both of you on June 19, 1968, under the Office of Minerals Exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Enclosure

Copy to Mr. Edward E. Kingery

cc: Director's reading file
Mineral Resources
OME reading file
Region III
Mr. Kirkemo
130

HKirkemo/cac 8-20-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/12/71		120
7/21	Cac	220
		130

JUL 12 1971

Memorandum

To: Branch of Budget and Finance

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed is a copy of the Field Officer's letter of June 11, 1971, forwarding a copy of the Report of Review, issued in April 1971, to the Operator. Also enclosed is a copy of the report for your files.

Harold Kirkemo
gla
Harold Kirkemo

Enclosures

cc: Director's Reading File
Mineral Resources
OME docket
OME Region III
OME Reading File
Mr. Kirkemo

GLAult/a 7-12-71

JUL 6 1971

Cac 120M
gla 120
120

Office of Minerals Exploration
Building 53 Room 200

June 11, 1971

Mr. Arthur D. Meeks, Office Manager
EArth Resources Company
5920 McIntyre Road
P. O. Box 270
Golden, Colorado 80401

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel
Contract 2262

Dear Mr. Meeks:

Transmitted herewith is an "Operator's Copy" of a Report of Review of the subject contract as of April, 1971. I have reviewed the Report of Review and concur in the facts herein. If for any reason you do not agree, the "Operator's Copy" should be returned to this office together with your comments.

Sincerely yours,

J. William Hasler

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

bcc: OME-6689
Chief, OME (2)
OME chron
Mr. Hasler

COOPER-TRENT DIVISION / KEUFFEL & ESSER CO.

1521 N. DANVILLE ST., ARLINGTON, VA. 22201 • TEL. 524-9000 • TWX 703-671-7928

REPRODUCTION AND MICROFILMING SERVICES • ENGINEERING AND DRAFTING SUPPLIES • PRINTING AND LITHOGRAPHY

Branches: COOPER-TRENT DIVISION

TO: Mr. John F. Schmeiser
Lakeview Manor 1X
Millville, New Jersey 08332

DATE 6/17/71

PLEASE REFER TO QUOTATION NO. HG/6/17 IN ALL CORRESPONDENCE

GENTLEMEN: In response to your request, we are pleased to submit the following quotation.

Re: CME-6689 (Silver) Vitro Minerals Corporation Ice Lake Project San Juan and San Miguel Counties, Colorado Contract 2262	
Copies - Lot	$12.04
+ Handling -	2.00
	$14.04
+ Any applicable tax	
The above copies will be sent upon receipt of your check or money order in the above amount.	

DELIVERY	F.O.B.	TERMS	ACCEPTANCE

Respectfully,
Cooper-Trent Division of Keuffel & Esser Co.

T. R. Meacham
Branch Manager

MAY WE ASK THAT YOU MENTION THE ABOVE QUOTATION NUMBER WHEN YOU FORWARD YOUR ORDER OR MAKE FURTHER INQUIRY.

June 1971

ORIGINAL COPY
D. E.
RECEIVED
JUN 1(1971

INITIALS	CODE
1	2U

There is never item I mentioned

[illegible]meter evaluation of Donna [illegible] soil samples is being under-[illegible] its Ducking Creek property, [illegible] 120 miles north of Fort St. James, [illegible]ritish Columbia. Last fall, two silver sulphide zones were exposed by blasting a cliff face. One grab sample assayed 46.45 oz silver per ton, 0.02 oz gold per ton, and 0.39% lead. President Ivan Todd says in a news circular that various other assays ran from 5 oz to 87 oz of silver per ton of ore.

A new silver discovery, described as "significant" by Sunshine Mining Co., has been made in the most easterly portion of the Sunshine Mine's Unit Area in the Silver Belt of the Coeur d'Alene Mining District of Idaho. The ore was found in the Good Hope sector of the Chester vein at a depth of 5,000 ft. The Good Hope lies just east of the Chester Mining Co. property, and previous exploration at higher levels had failed to find commercial mineralization, according to the company.

In announcing the discovery, M.C. Chase, vice president and general manager of Sunshine Mining Co., said that so far the new ore shoot had been opened over a length of 112 ft, and that it averaged 4.3 ft in width and 32 oz of of silver per ton. "This showing is considered significant since orebodies in the Sunshine Mine have never been developed this far east of the No. 10 shaft," he said.

P124 *E/MJ—May, 1971*

Dear Mr. Kirkemo

Your helpfulness on June 4 is appreciated.

I just received a letter from John Lutheran owner of the Bandora Mine at Hobsite a few miles over the hill south of Alice Lake. He has an encouraging contact.

Sincerely, Jack Nelson

ME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/8/71		120
		220

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

JUN 8 1971

Mr. Marvin Mundy
Technical Representative
Cooper-Trent Division
Keuffel & Esser Co.
Wilson Boulevard at Danville Street
Arlington, Virginia 22201

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Mundy:

Mr. John F. Schmelzer, Lakeview Manor 1E, Millville, New Jersey 08332, has reviewed the enclosed material listed below and wishes to obtain a copy. Please advise him of the cost of reproduction and instructions for purchase so that he may order directly from you.

The material is identified as follows:

Engineering-Geological Report
OME 6689
Ice Lake Project
October 1, 1970 — 9 pages including cover sheet
3 page-size cross sections

Two maps:

Plate 1. Topographic and Geologic Map of the Ice Lake Basin area — 22" x 27"

Surface trace map of diamond drill holes — 30" x 38"

Please return the enclosed material to this office when Mr. Schmelzer's order is completed.

Sincerely yours,

Harold Kirkemo
gla

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME docket
OME Reading File
Mr. Kirkemo
HKirkemo/gla 6-8-71

Enclosures

Copy to Mr. John F. Schmelzer

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Show to whom, date, and address where delivered ☐ Deliver ONLY to addressee

(*Additional charges required for these services*)

RECEIPT

Received the numbered article described below.

REGISTERED NO.

CERTIFIED NO. 33856

INSURED NO.

DATE DELIVERED

1 SIGNATURE OR NAME OF ADDRESSEE (*Must always be filled in*)

2 SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

3 SHOW WHERE DELIVERED (*only if requested*)

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300

POSTMARK OF
DELIVERING OFFICE

ARLINGTON, VA. MAY
JUN 5
1971

INSTRUCTIONS: Show name and address below and complete instructions on other side, where applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article *RETURN RECEIPT REQUESTED.*

RETURN TO

NAME OF SENDER Office of Minerals Exploration
U. S. Geological Survey

STREET AND NO. OR P.O. BOX
Department of Interior Building

POST OFFICE, STATE, AND ZIP CODE
Washington, D. C. 20242

6689 Vitro (Mundy)

055—10—71648-10
Form 3811 Apr. 1967

OME-668

OFFICIAL
COPY
O. M. E.
RECEIVED
MAY 5 1971
INITIALS | CODE
HK | 120

3 May 1971

Mr. John F. Schmelzer
Lake View Manor Apts. #1E
Millville, New Jersey 08332

Dear Mr. Schmelzer:

This letter authorizes you to obtain any and all information in the possession of the USGS pertaining to the Ice Lake project.

Very truly yours,
Original Signed By
Gene K. Ealy

Gene K. Ealy
Vice President Exploration

GKE:slp

cc:
Harold Kirkemo, USGS, Washington

EARTH RESOURCES COMPANY
5920 mcintyre road · p.o. box 270 · golden colorado 80401

GOLDEN
MAY - 3'71
COLO.
U.S. POSTAGE
0.06
P.B. METER
1055096

Mr. Harold Kirkemo, Chief
Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20242

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/3/71		120
		220

AIRMAIL

MAY 3 1971

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed are two copies of a Report of Review issued April 1971.

If you concur in the facts in the report, the Operator should be sent its copy with appropriate comments. As evidence of your concurrence, two copies of your letter transmitting the Operator's copy of the report should be furnished this office. If for any reason you do not agree, both copies of the report should be returned to this office with your comments.

Harold Kirkemo

Harold Kirkemo

Enclosures

cc: Director's Reading File
Minerals Resources File
OME Docket
OME Reading File
Mr. Kirkemo
130

BSLong/1 5/3/71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/13/71		120
4/13	cae	220
		120M

APR 13 1971

Mr. John F. Schmelzer
Lakeview Manor 1E
Millville, New Jersey 08332

Dear Mr. Schmelzer:

Thank you for your letter of April 8, 1971, inquiring about the availability of U. S. Geological Survey reports on a recently concluded exploration project in Ice Lake Basin, San Juan and San Miguel Counties, Colorado.

Information submitted to the Government by the applicant and data obtained in the course of an OME contract are considered to be company confidential. Only with the written permission of the Operator of the contract (Vitro Minerals Corporation) are we permitted to release this information and then only to parties designated by the company. We suggest that you ask the company for written permission to inspect or obtain this information. Upon receipt of such letter we can make available to you for inspection in this office during regular business hours factual information on this project--drill logs, assay data, and maps--furnished by the Operator.

The Geological Survey does not issue reports on individual OME projects.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
Docket OME-6689
OME Reading File
OME Region III w/cy incoming letter
Mr. Kirkemo

HKirkemo/gla 4-13-71

8 April '71

Mr. Harold Kirkomo
Chief, Office of Mineral Exploration
United States Geological Survey
Dept of the Interior
Wash. D.C.

OFFICIAL COPY
O. M. E.
RECEIVED
APR 12 1971
INITIALS | CODE
120
220

Dear Mr. Kirkomo

Vitro Minerals subsidiary of Earth Resources Company has released their Mining Lease #6-118-1G in San Juan County Colo, involving some of my property.

Last August 1970, while in Ice Lake Basin observing some of the exploration work made possible by the U.S. Geological Survey loan, I saw a comprehensive report including projections and other pertinent geological information.

Currently a friend of mine, the owner of the Bondora 1.5 miles to the S.E. of Ice Lake Basin, and I have

considered having a general prospectus prepared by a member of the faculty of the Colorado School of Mines at Golden, Colo. Today, I am sending him some old reports, assay sheets and maps. However, I am sure this researcher could save a lot of time and effort if he were able to read the U.S. Geological reports or some of the material I saw last August.

Is this available for either public use or on a confidential loan basis? Several of us with property in Lake Basin believe the gold-silver resources can be exploited on a much smaller scale than ERC anticipated.

ERC was looking for a large vein system to be exploited by quantity production.

My father was a pioneer in Ice Lake Basin - the early 1900s and I prospected there - the 1920s so I know something of the practical aspects of that type of vein system. I also own the only mill-site in the area - the old Golden Horn Mill just below Ice Lake Basin.

If a personal visit would facilitate obtaining information from the U.S. Geological Survey I normally could visit Wash D.C. early on a Friday morning. Other days are more difficult since I teach at Cumberland County College - New Jersey on an irregular schedule Mon - Thru Thurs.

Any assistance or information will be appreciated. Sincerely John F. Schmelzer

JOHN F SCHMELZER
LAKEVIEW MANOR 1E
MILLVILLE NJ
08332

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-WEC
3/4/71

OPERATOR'S MONTHLY VOUCHER

For Month of August & September 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address P.O. Box 270, Golden, Colorado 80401

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH Aug. & Sept. 1969		TO DATE		THIS MONTH		TO DATE	
	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS
Drilling		$		$		$		$
Casing lost in completed holes (7)		32.20		32.20		32.20		32.20
TOTALS		$ 32.20		$ 32.20		$ 32.20		$ 32.20

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

Date 2-18-71 *Payee VITRO MINERALS CORPORATION

Per Arthur O Meek Title Office 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.

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hedges 3/8
OME Field Officer Date

(63) 14X080

Approved for: $ 24.15
(SUBJECT TO AUDIT)

Signature MO

Date MAR 25 1971 Vou. No. 1578
(SEE OTHER SIDE)

Current audit 6-14

237237

RECEIVED
U.S. GEOLOGICAL SURVEY
MAR 12 1 32 PM '71
BUDGET & FINANCE

MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-OTE
1/4/71

OFFICIAL COPY

OPERATOR'S MONTHLY VOUCHER

For Month of October 1970

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address P. O. Box 270 Golden, Colorado 80401

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Amendment								
Fixed Unit Cost								
Tent base camp in Ice								
Lake Basin Mobilization								
and Demobilization								
@7.50 (24)	92 hrs.	100.00		100.00		100.00	92	100.00
Shelter & Subsistance								
Personnel @$10.50 each								
per day 62+ days (25)	208 days	2,181.00	1068	11,211.00	208	2,181.00	1068	11,211.00
						2781.00		
						17,717.35		135,380.64
TOTALS		$ 27,639.42		$ 145,304.71		$ ~~17,825.00~~		$ ~~135,280.29~~

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

Date 11-30-70 *Payee Vitro Minerals Corporation

Per Arthur D. Mack Title Office 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 "Y. Smith, trustee," as the case may be.

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. Williams Hosler 1/4/71
See attached memo OME Field Officer Date

13,288.01 (63) 14X0804
200.00 14X6875(08)

Approved for: $13,488.01
(Amount to Match)

Signature MS

Date JAN 20 1971 Vou. No. 14667
(SEE OTHER SIDE)

Current Cost

5

MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK - WTE 1/14/71

OPERATOR'S MONTHLY VOUCHER

For Month of October 1970

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address P. O. Box 270 Golden, Colorado 80401

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Personal Category (2) Services		$		$		$		$
Non Exempt Sub-Category								
(A) Supervision & Tech. Service (16)		2,928.47	66	5,928.47		✓	66	3,000.00 6/
Geologist (17)			66	2,850.00		✓	66	2,850.00
Field Assts. (George Ambariantz)			66	1,800.00		✓	66	1,800.00
Category (7) Miscellaneous Non-Exempt								
Assay 400 samples Gold & Silver		43.00	46	183.00		✓ ~~23.00~~ ~~51.00~~ WTE		~~163.00~~ ~~161.00~~ WTE 2/
Lead & Zinc			46	57.53		✓	46	57.53
Copper (19)			8	12.00		✓	8	12.00
Rental of Core Storage Nov. 1969 thru Oct. 1970		492.50	-			✓	3 mo.	150.00
Delivery core samples (20)		200.00	- -	842.50		✓ ✓		- 9/ - 10/
Office expenses 3 months $75/month (21)				225.00		✓		225.00
Payroll Taxes and Insurance (22)				575.00		✓		575.00
Vehicle Rental 2 vehicles 3 months $30/mo ea (23)			3 mo	180.00		✓	3 mo.	180.00
TOTALS		$		$		$ (73.00)		$

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

Date 11-30-70 *Payee Vitro Minerals Corporation

Per _____ Title Office 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.

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(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____
(SUBJECT TO AUDIT)

Signature _____

Date JAN 20 Vou. No. 14667
(SEE OTHER SIDE)

MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-Lote 1/14/71

OPERATOR'S MONTHLY VOUCHER

For Month of October, 1970

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address P. O. Box 270 Golden, Colorado 80401

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Reaming & Casing (5)		$	70	$ 385.00		$ —	70	$ 385.00
Drill Hole #6B								
@ 6.05	33'	199.65		584.65	33'	181.50	33	181.50
Drill Hole #2B								
@ 6.05	492'	2,976.60		2,976.60	492'	2,706.00	492'	2,706.00
@ 6.35	9'	57.15		57.15	9'	47.25	9'	47.25
Cementing and Redrilling (6)			200	5,198.00			200	5,198.00
@ 26.00	8 hrs	208.00		5,408.00	—	—	—	—
Moving rigging up								
Travel & standby time (6A)		4,499.50		4,499.50				
Casing lost in completed holes (7)								
Core Boxes, cardboard (8)				585.00				585.00
Cement, drill muds additives (9)				401.96				401.96
Surveying with in-hole instruments (10)								
@ 22.00	6 hrs.	132.00		1,160.84	6	132.00	52.65 Hrs	1,160.84
Transportation								
Helicopter Time (11)			180	22,500.00			180	22,500.00
Helicopter Time (12)		87-2/3		10,081.71			87 2/3	10,081.71
Saddle Horses 4 @ 6.50/da- each			372	2,418.00			372	2,418.00
Shelter & Subsistance								
Tent base camp (14)								
Camp & Board 17 personnel ~~@$10.50/ea per day 30+ (15)~~			517	5,439.00			517	5,439.00
TOTALS		$		$		$ 3066.75		$

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

Date 11-30-70 *Payee VITRO MINERALS CORPORATION

Per Arthur D. Meek Title Office 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.

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____
(SUBJECT TO AUDIT)

Signature _____

Date JAN 20 1971 Vou. No. 14667
(SEE OTHER SIDE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK WTS 1/4/71

MONTHLY VOUCHER For Month of October 1970

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address P.O. Box 270 Golden, Colorado 80401

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Drilling Continued		$		$		$		$
Drill Hole #7								
@ 8.95			250'	2,237.50			250'	2,237.50
@ 9.25			250'	2,312.50			250'	2,312.50
@ 9.55			200'	1,910.00			200'	1,910.00
Drill Hole #8			10'	105.00			10'	105.00
			240'	2,004.00			240'	2,004.00
			250'	2,162.50			250'	2,162.50
			230'	2,058.50			230'	2,058.50
~~Mobilization & Demobilization at initial drill sites 3 @ $150.00 each (2)~~				~~450.00~~		✓		450.00
Moving between drill sites & setting up drill rigs 3 Operations @ $150.00 each (3)				450.00		✓		450.00
Diamond Core & Overburden drilling - Rate See Contract (4)								
Drill Hole #1			10'	105.00			10'	105.00
			240'	2,004.00			240'	2,004.00
			108'	907.20			108'	907.20
			142'	1,228.30			142'	1,228.30
			105'	913.50			105'	913.50
Drill Hole 3A								
@ 10.50			10'	105.00			10'	105.00
@ 8.35			240'	2,004.00			240'	2,004.00
@ 8.65			250'	2,162.50			250'	2,162.50
@ 8.95			250'	2,237.50			250'	2,237.50
@ 9.25			250'	2,312.50			250'	2,312.50
@ 9.55			34'	324.70			34'	324.70
@ 9.30			167'	1,553.10			167'	1,553.10
TOTALS Drilling Costs		$ 13,621.55		$ 65,227.80		$		$

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

Date 11-30-70 *Payee VITRO MINERALS CORPORATION

Per Arthur D. Meeker Title Office 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.

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(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____ (SUBJECT TO AUDIT)

Signature _____

Date JAN 20 1971 Vou. No. 14667

(SEE OTHER SIDE)

FORM 9-1648
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-WRE
1/14/71

OPERATOR'S MONTHLY VOUCHER

For Month of October 1970

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address P. O. Box 270, Golden, Colorado 80401

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Category (1) Drilling		$		$		$		$
Mobilization & Demobilization to staging area, crews & Equip. 3 surface drill units (1)		1,225.00		2,450.00		1,225.00		2,450.00
Drill Hole #6C (4)								
@ 11.55	32'	369.60		369.60	32'	336.00	32'	336.00
@ 9.55	218'	2,081.90		2,081.90	218'	~~1,775.80~~ 1,775.80	218'	~~1,775.80~~ 1,775.80
@ 9.85	157'	1,546.45		1,546.45	157'	~~1,318.80~~ 1,318.80	157'	~~1,318.80~~ 1,318.80
						3,358.05		3,358.05
Drill Hole #2B (4)								
@ 11.55	8'	92.40		92.40	8'	84.00	8'	84.00
@ 9.20	242'	2,226.40		2,226.40	242'	2,020.70	242'	2,020.70
@ 9.50	250'	2,375.00		2,375.00	250'	2,162.50	250'	2,162.50
@ 9.85	9'	88.65		88.65	9'	80.55	9'	80.55
@ 10.20	79'	805.80		805.80	79'	~~687.30~~ 707.05	79'	~~687.30~~ 707.05
Drill Hole #6B (4)								
@ 11.55	11'	127.05		127.05	11	115.50	11'	115.50
@ 9.20	239'	2,198.80		2,198.80	239	1,995.65	239'	1,995.65
@ 9.50	51'	484.50		484.50	51	~~484.45~~ 441.30	51'	~~484.45~~ 441.30
Drill Hole #4 9.25			250'	2,312.50			250'	2,312.50
@ 10.50			70'	735.00			70'	735.00
@ 8.35			180'	1,503.00			180'	1,503.00
@ 8.65			250'	2,162.50			250'	2,162.50
@ 8.95			250'	2,237.50			250'	2,237.50
@ 9.55			157'	1,498.50			157'	1,498.50
Drill Hole #6A								
@ 10.50			30'	315.00			30'	315.00
@ 8.35			220'	1,837.00			220'	1,837.00
@ 8.65			250'	2,162.50			250'	2,162.50
@ 8.95			201'	1,798.95			201'	1,798.95
Drill Hole #7								
@ 10.50			10'	105.00			10	105.00
@ 8.35			240'	2,004.00			240	2,004.00
@ 8.65			250'	2,162.50			250	2,162.50
TOTALS		$		$		$12,346.60		$

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

Date 11-30-70 *Payee VITRO MINERALS CORPORATION

Per Arthur D. Meeker Title Office 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.

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(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____
(SUBJECT TO AUDIT)

Signature _____

Date JAN 20 1971 Vou. No. 14667
(SEE OTHER SIDE)

United States Department of the Interior

GEOLOGICAL SURVEY
Denver Federal Center
Denver, Colorado 80225

IN REPLY REFER TO:

Office of Minerals Exploration
Building 53 Room 200

March 9, 1971

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 11 1971
INITIAL & SOLR
130
gla 120 NW
HK 120
WE 120 E

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Ag-Au)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith is an original and two copies of a supplemental voucher for the month of August-September 1969 reclaiming $32.20 as shown on the Administrative Suspension Statement accompanying the voucher. The hole was later completed, and the suspended amount should be paid.

J. William Hasler
3/11/71

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

Enclosure

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

14667

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Vitro Minerals Corporation
P.O. Box 270
Golden, Colorado 80401

Amount Claimed:	Differences (Explained Below)	Amount Approved
27,639.42	9,922.07	17,717.35 13,288.01 Gov. Part. Plus 200.00 * 13,488.01

Br. Voucher No.	Payee's Invoice No.	Period
	Docket #6689 Contract #2262	October, 1970

EXPLANATION

	CLAIMED			CONTRACT ALLOWED			DISALLOWED
#60	32	at 11.55	369.60	32	at 10.50	336.00	33.60
	218	" 9.55	2,081.90	218	" 8.35	1,820.30	261.60
	157	" 9.85	1,546.45	157	" 8.65	1,358.05	188.40
#2B	8	" 11.55	92.40	8	" 10.50	84.00	8.40
	242	" 9.20	2,226.40	242	" 8.35	2,020.70	205.70
	250	" 9.50	2,375.00	250	" 8.65	2,162.50	212.50
	9	" 9.85	80.55	9	" 8.95	80.55	8.10
	79	" 10.20	805.80	79	" 8.95	707.05	98.75
#B6	11	" 11.55	127.05	11	" 10.50	115.50	11.55
	239	" 9.20	2,198.80	239	" 8.35	1,995.65	203.15
	51	" 9.50	484.50	51	" 8.65	441.30	43.20
Reaming & Casing							
	33	at 6.05	199.50	33	" 5.50	181.50	18.15
2B	492	" 6.05	2,976.60	492	" 5.50	2,706.00	270.60
	9	" 6.35	57.15	9	" 5.50	47.25	9.90
Cement &Redrill			208.00	None - Contract only allowed 200 hours claimed on Oct. 1969 Vo.			208.00
Moving Rigging,Stand.			4,499.50	None - Not included in contract			4,499.50
Sup.& Tech			2,928.47	None - Cont. only allowed $,000. claimed on Oct. 1969 Vo.			2,928.47
Assays			43.00	Support by billing recd 23.00			20.00
Delivery Core Samples			200.00	None - Cont. does not allow			200.00
Core boxStorage			492.50	None - Claimed 150.00 on Oct. 69 Vo.			492.50
Allowing $200.00 withheld on Oct. 69, Vo.3827 paid Dec. 22.1969.							9,922.07

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

Branch of Budget and Finance

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

14667

January 7, 1971

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Review of October, 1970 and Final Operator's Monthly Voucher.

Refer to footnotes on voucher.

Footnote 1/ Drill Hole No. 6C (4). The Operator used increased drilling costs from his letter dated December 2, 1970. I allowed only costs shown in Amendment No. 2 to the contract, dated July 23 as follows:

Hole 6-C Interval	Feet Drilled	Costs/ft.		Recommended costs
0' - 32'	32'	$10.50		$336.00
32' - 250'	218'	~~8.10~~	8.35 a/ WTE	~~1,765.80~~ 1,820.30 WTE
250' - 407'	157'	~~8.40~~	8.65 a/ WTE	~~1,318.80~~ 1,358.05 WTE

Footnote 2/ Hole 2-B

0' - 8'	8'	$10.50		$84.00
8' - 250'	242'	8.35	(BXWL)	2,020.70
250' - 500'	250'	8.65	(BXWL)	2,162.50
500' - 509'	9'	8.95	(BXWL)	80.55
509' - 588'	79'	~~8.70~~ WTE	(NXWL) 8.75 a/	~~687.30~~ 707.25 WTE

a/ Allow Bx prices for Nx prices, WTE
Contract does not provide for
Nx prices.

14667

Footnote 3/

Hole 6B Interval	Feet Drilled	Costs/ foot	Recommended costs
0' - 11'	11'	$10.50	$115.50
11' - 250'	239'	8.35 (BXWL)	1,995.65
250' - 301'	51'	~~8.95~~ 8.65 WFS	~~456.45~~ 441.30 WFS

Footnote 4/

REAMING AND CASING

HOLE 6B

11' - 44'	33'	$5.50	$181.50

HOLE 2B

8' - 144'	136'	$5.50	$748.00
144' - 500'	356'	5.50	$1,958.00
500 - 509'	9'	5.25	47.25

Footnote 5/ Moving, rigging up, travel and standby time $4,499.50, claimed. The Operator requested the following costs be paid as shown on billing attached to October, 1970 voucher:

Moving and rigging up $2,290.50

(Mobilization and demobilization at initial drill sites, contract allowed $450.00, which was claimed and paid on October 1969 voucher).

Travel Time.

Moving between staging areas or moving between drill sites and setting up drill rigs, the contract allowed $450.00, which was claimed and paid on October 1969 voucher, disallow the $2,067.00 claimed on October 1970 voucher.

Standby Time

Not included in contract, disallow $946.00.

Footnote 6/ Supervision, Technical was allowed, and $3,000.00 was paid on October 1969 voucher.

Footnote 7/ Allow only $~~21.00~~ 23.00 WFS for gold and silver assay, as supported by assay billing attached.

Footnote 8/ Rental core storage space, 3 months at $50.00 = $150.00 was claimed and paid on October 1969 voucher.

Footnote 9/ The claim ($842.50) on voucher page 4 is a shelter and subsistence cost and is not allowable. This is total of 492.50, 200.00, 150.00 } Rental core storage

Footnote 10/ There is no contract item for delivery or transportation of core samples. Disallow $200.00.

EARTH RESOURCES COMPANY
5920 mcintyre road · post office box 270 · golden colorado 80401 · 303·279·7631

December 2, 1970

Mr. William Hasler
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado

Dear Mr. Hasler:

Enclosed is our voucher for costs incurred during 1970 at Ice Lake under Contract 14-08-0001-2262. We are requesting an Amendment to the Contract reallocating allowable costs under the OME participation loan agreement within categories. This is being requested due to the extended length of time required to complete the drilling program.

Due to increased costs of drilling in 1970 we are requesting an increase in drilling costs as follows:

Depth Feet	Price Per Foot Non-Core From	Non-Core To	BXWL From	BXWL To	AXWL From	AXWL To
0-250	$10.50	$11.55	$8.35	$9.20	$8.10	$ 9.55
25-500			8.65	9.50	8.40	9.85
500-750			8.95	9.85	8.70	10.20
750-1000			9.25		9.00	
1000-1100			9.55		9.30	
Reaming						
0-500	5.50	6.05				
500-1000	5.25	6.35				

Thank you very much for your consideration.

Very truly yours,

VITRO MINERALS CORPORATION

Arthur D. Meeks
Office Manager

ADM:rm
Enclosures

INVOICE

[illegible] DIEMWORKS, Inc.

SCRANTON 2, PA., U. S. A.

C 16235

ADDRESS ALL COMMUNICATIONS
TO MAIN OFFICE
BOX 446
SCRANTON 2, PA.

CONTRACTORS FOR
DIAMOND DRILLING
SHOT DRILLING - SOIL SAMPLING - PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

RECEIVED
SEP 21 1970

EARTH RESOURCES COMPANY
720 EQUITABLE BUILDING
DENVER, COLORADO - 80202

LOCATION NEAR SILVERTON, COLORADO

VIA.

DATE	INVOICE NO.	YOUR ORDER NO.	ORDER DATE	TERMS: 30 Days NET CASH NO DISCOUNT ALLOWED	CONT. NO.	ENTERED BY:
/70	[illegible]				14,870	

DESCRIPTION

[illegible] Account for drilling at Ice Lake Project at the above-mentioned Site: in the [illegible] August 1 to August 31,1970 - Agreement dated 6/1/70.

ITEM 1 - Demobilization from staging area -	--	$ 1,225.00	(1)
NO. 6D:			
ITEM 3 - Core drilling (NX)- 32'-250' - 218' @ $9.55/ft. -	--	2,081.90	(4)
250'-407' - 157' @ $9.85/ft. -	--	1,546.45	(4)
ITEM 6 - Moving, rigging up - 1 Hr. @ $18.00/2 man -	--	18.00	6A
(11) Travel time - 17 man hours @ $9.00/man -	--	153.00	
ITEM 7 - Standby time - 7 Hrs. @ $22.00/hr. - per Inv.	--	154.00	6A
Survey time - 3 Hrs. @ $22.00/hr. -	--	66.00	
NO. 2B:			
ITEM 3 - Core drilling (NX) - 509'-588' - 79' @ $10.20/ft. -	--	805.80	(4)
ITEM 4 - Reaming - 144'-500' - 356' @ $6.05/ft. -	--	2,153.80	(5)
500'-509' - 9' @ $6.35/ft. -	--	57.15	(5)
ITEM 6 - Travel time - 16 man hours @ $9.00/man -	--	144.00	6A
ITEM 7 - Survey time - 6 Hrs. @ $22.00/hr. -	--	132.00	(10)
ITEM 8 - Rigging down - 91.5 man hours @ $9.00/hr. -	--	823.50	
(11) Travel time - 3 man hours @ $9.00/hr. -	--	27.00	
ITEM 11- Travel time - 66 man hours @ $7.50/hr. -	--	495.00	6A
[illegible] Ice Lake (See Attached Sheet) - Shelter & [illegible]		842.50	
AMOUNT DUE THIS INVOICE	--	$10,725.50	

TAX	AMOUNT	PRICE & TERMS CHECKED	INVOICE CHECKED

ITEM	DISTRIBUTION ACCOUNT	AMOUNT
	550.951.118	10,725.50

I CERTIFY THIS TO BE A TRUE COPY.

BY Arthur D. Meeks

INVOICE

SPRAGUE & HENWOOD, Inc.

SCRANTON 2, PA., U. S. A.

C 16188

ADDRESS ALL COMMUNICATIONS TO MAIN OFFICE BOX 446 SCRANTON 2, PA.

USE TAX	FREIGHT	PRICE TERMS & FOD CHECKED	INVOICE CHECKED
		842	✓

CONTRACTORS FOR DIAMOND DRILLING

SHOT DRILLING - SOIL SAMPLING - PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

VOUCHER NO. 6024

DISTRIBUTION

ACCOUNT	AMOUNT
550.95.1.118	12,681.85

APPROVED FOR PAYMENT

PAID SEP 2 1970

EARTH RESOURCES COMPANY
720 EQUITABLE BUILDING
DENVER, COLORADO - 80202

LOCATION: ICE LAKE PROJECT near ~~GILVERTON, COLORADO~~

VIA.

INVOICE DATE	INVOICE NO.	YOUR ORDER NO.	ORDER DATE	TERMS:	CONT. NO.	ENTERED BY:
8/6/70	97858			NET CASH 30 Days NO DISCOUNT ALLOWED	14,870	

DESCRIPTION

To Charge Account for drilling at the above-mentioned Site: in the period June 29 to July 31,1970 - Agreement dated 6/1/70

(PER ATTACHED SHEET)

ITEM 1 - No Quantity

HOLE NO. 68 - Depth 301':

ITEM 2 - Overburden drilling - 0'-11' - 11' @ $11.55/ft. - -- $ 127.05 (4)

ITEM 3 - Core drilling - (BX) 11'-250' - 239' @ $9.20/ft. - -- 2,198.80
(BX) 250'-301' - 51' @ $9.50/ft. - -- 484.50

ITEM 4 - Reaming - 11'-44' - 33' @ $6.05/ft. - -- 199.65 (5)

ITEM 6 - Moving, rigging up - 23 Hrs. @ $18.00/2 man - -- 414.00
Travel time - 6.5 Hrs. @ $18.00/2 man - -- 117.00

ITEM 7 - Standby time - 16.5 Hrs. @ $22.00/2 man - -- 363.00 6A

HOLE NO. 6C - Depth 32':

ITEM 2 - Overburden drilling - 0'-32' - 32' @ $11.55/ft. - -- 369.60 (4)

ITEM 6 - Moving, rigging up - 23 Hrs. @ $18.00/2 man - -- 450.00
Travel time - 4.0 Hrs. @ $18.00/2 man - -- 72.00

ITEM 7 - Standby time - 18.5 Hrs. @ $22.00/2 man - -- 407.00 6A

HOLE NO. 28 - Depth 509':

ITEM 2 - Overburden drilling - 0'-8' - 8' @ $11.55/ft. - -- 92.40 (4)

ITEM 3 - Core drilling - BX - 8'-250' - 242' @ $9.20/ft. - -- 2,226.40 (4)
BX - 250'-500' - 250' @ $9.50/ft. - -- 2,375.00
BX - 500'-509' - 9' @ $9.85/ft. - -- 88.65

ITEM 4 - Reaming - 8'-144' - 136' @ $6.05/ft. - -- 822.80 (5)

ITEM 5 - Cementing - 8 Hrs. @ $26.00/hr. - -- 208.00 (6)

ITEM 6 - Moving, rigging up - 11 Hrs. @ $9.00/man - -- 99.00 6A
27 Hrs. @ $18.00/2 man - -- 486.00 6A
Travel time - 10.5 Hrs. @ $18.00/2 man - -- 189.00 6A

ITEM 7 - Standby time - 1 Hrs. @ $22.00/2 man - -- 22.00 6A

I CERTIFY THIS TO BE A TRUE COPY.
BY Arthur D. Meeks

(CONTINUED)

SP[illegible]UE & HENWOOD, INC.
EAR[illegible] RESOURCES COMPANY
CONTRACT NO. 14,870
INVOICE NO. 97858

HOLE NO. 28 - (Continued)

ITEM 8 - Cardboard core boxes:

BX - 100	@	$1.20 ea. -	--	$ 120.00
NX - 50	@	$1.20 ea. -	--	60.00

ITEM 11 - Travel time between camp and staging area:

June - 40 Man Hrs.
July - 52 Man Hrs.
92 Man Hrs. @ $7.50/hr. - -- 690.00 (24)

AMOUNT DUE THIS INVOICE -- $12,681.85

I CERTIFY THIS TO BE A TRUE COPY,
BY Arthur D. Meek

STATE

SAN JUAN A[illegible]TRACT
AND INSURANCE COMPANY
P. O. BOX 185
SILVERTON, COLORADO 81433

attention:
Bill Cole
Earth Resources
5920 McINTYRE RD
RT. I.
GOLDEN, COLO.

RECEIVED
OCT 19 1970
EARTH RESOURCES COMPANY METALS

DATE

Vitro M[illegible]
720 Equitable Bldg.
Denver Colorado 80203

Our TAX	FREIGHT	PRICE TERMS & FOB CHECKED	INVOICE CHECKED
			P

DISTRIBUTION

ACCOUNT	AMOUNT
550.70.118	492.50

DETACH AND MAIL WITH YOUR CHECK. YOUR CANCELLED CHECK IS YOUR RECEIPT.

PAID
NOV 11 1970

Rental on Core House:

Nov. 1969	$ 27.50
Dec. 1969	27.50
Jan. 1970	27.50
Feb. 1970	27.50
Mar. 1970	27.50
Apr. 1970	27.50
May 1970	27.50
June 1970	60.00
July 1970	60.00
Aug. 1970	60.00
Sept. 1970	60.00
Oct. 1970 (INCL. LUMBER FOR CORE BOXES)	60.00
~~XXXXXXXX~~	$ 492. 50

(20)

Charge 550-118

OK for Payment 10-15-70
FULL MO. OF OCT. PAYS FOR
LUMBER AND MATERIALS FOR
RACK.
WAREHOUSE RELEASED OCT. 15, 1970

Robert K. Ulmer

B. B. Garrett
Earth Resources

I CERTIFY THIS TO BE A
TRUE COPY.
BY Arthur D. Meek

DENVER, COLORADO. July 22, 1970

itro Minerals Corporation

quitable Building Denver Colorado 80202

TO ROOT & SIMPSON, INC. DR.

METALLURGICAL CHEMISTS AND ASSAYERS

24 3223

P. O. Box 18329
DENVER, COLORADO 80218

307
811, 4813

Ag----------$3.00
AuAg----------$9.00
Total $12.00

s Order 5287

APPROVED FOR PAYMENT

AX	FREIGHT	PRICE TERMS & FOB CHECKED	INVOICE CHECKED

ER	DISTRIBUTION	
5 8	ACCOUNT	AMOUNT
	550.65.118	12.00

I D
1 1970

DENVER, COLORADO. July 24, 1970

Vitro Minerals Corporation

720 Equitable Building Denver Colorado 80202

TO ROOT & SIMPSON, INC. DR.

METALLURGICAL CHEMISTS AND ASSAYERS

TELEPHONE 244-3223

P. O. Box 18329
DENVER, COLORADO 80218

Gravel Sand Samples No.1, No 2,--AuAg-----$9.00
Drying & Preperation $2.00
No. 1, No. 2 Spectrograph 20.00
Total $ 31.00

APPROVED FOR PAYMENT

Purchase Order was not given and Mr. Sharps was not in when we called for one.

P.O. No 22-12

USE TAX	FREIGHT	PRICE TERMS & FOB CHECKED	INVOICE CHECKED

Ok Thomas

VOUCHER NO. 5494	DISTRIBUTION	
	ACCOUNT	AMOUNT
	550.65.118	31.00

PAID
06.178
SEP - 2 1970

I CERTIFY THIS TO BE A TRUE COPY.

BY Gordon D Meeks

September 10, 1970

TO: Keith H Elmer

FROM: A D Meeks

SUBJECT: CHECK REQUEST

PAYABLE TO: George Lancaster

AMOUNT: 200.00/100

REASON: cost of delivering ice lake core samples to Golden office

DAILY

VOUCHER NUMBER	DISTRIBUTION	
	ACCOUNT	AMOUNT
6131	550-951.118	200.00

(20)

PAID
SEP 10 1970

I CERTIFY THIS TO BE A TRUE COPY.
BY [signature]

return ok to Keith

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/13/71	Emerick	120
		120
1/13	cac	220
		120M

JAN 13 1971

Memorandum

To: Chief, Branch of Budget and Finance

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

As the Operator under the subject contract resumed work on the contract on June 15, 1970 and has submitted an acceptable final report, the $200.00 withheld from the October 1969 voucher may now be paid to the Operator.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region III
Mr. Emerick

WLEmerick/bsl 1/13/70

Rec'd. 1/20/71

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

January 7, 1971

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Review of October, 1970 and Final Operator's Monthly Voucher.

Refer to footnotes on voucher.

Footnote 1/ Drill Hole No. 6C (4). The Operator used increased drilling costs from his letter dated December 2, 1970. I allowed only costs shown in Amendment No. 2 to the contract, dated July 23 as follows:

Hole 6-C Interval	Feet Drilled	Costs/ft.	Recommended costs
0' - 32'	32'	$10.50	$336.00
32' - 250'	218'	~~8.10~~ 8.35 a/	~~1,765.80~~ 1,820.30
250' - 407'	157'	~~8.40~~ 8.65 a/	~~1,318.80~~ 1,358.05

Footnote 2/ Hole 2-B

0' - 8'	8'	$10.50	$84.00
8' - 250'	242'	8.35 (BXWL)	2,020.70
250' - 500'	250'	8.65 (BXWL)	2,162.50
500' - 509'	9'	8.95 (BXWL)	80.55
509' - 588'	79'	~~8.70~~ (NXWL) 8.95 a/	~~687.30~~ 707.05

a/ Allow Bx prices for Nx prices, wrong. Contract does not provide for Nx prices.

Footnote 3/

Hole 6B Interval	Feet Drilled	Costs/ foot	Recommended costs
0' - 11'	11'	$10.50	$115.50
11' - 250'	239'	8.35 (BXWL)	1,995.65
250' - 301'	51'	~~8.95~~ 8.65 WRE	~~456.45~~ 441.30 WRE

Footnote 4/

REAMING AND CASING

HOLE 6B

11' - 44'	33'	$5.50	$181.50

HOLE 2B

8' - 144'	136'	$5.50	$748.00
144' - 500'	356'	5.50	$1,958.00
500 - 509'	9'	5.25	47.25

Footnote 5/ Moving, rigging up, travel and standby time $4,499.50, claimed. The Operator requested the following costs be paid as shown on billing attached to October, 1970 voucher:

Moving and rigging up $2,290.50

(Mobilization and demobilization at initial drill sites,contract allowed $450.00, which was claimed and paid on October 1969 voucher).

Travel Time.

Moving between staging areas or moving between drill sites and setting up drill rigs, the contract allowed $450.00, which was claimed and paid on October 1969 voucher, disallow the $2,067.00 claimed on October 1970 voucher.

Standby Time

Not included in contract, disallow $946.00.

Footnote 6/ Supervision, Technical was allowed, and $3,000.00 was paid on October 1969 voucher.

Footnote 7/ Allow only ~~$21.00~~ 23.00 WRE for gold and silver assay, as supported by assay billing attached.

Footnote 8/ Rental core storage space, 3 months at $50.00 = $150.00 was claimed and paid on October 1969 voucher.

Footnote 9/ The claim ($842.50) on voucher page 4 is a shelter and subsistence cost and is not allowable. This is total of 482.50, 200.00, 150.00 Rental core storage site

Footnote 10/ There is no contract item for delivery or transportation of core samples. Disallow $200.00.

EARTH RESOURCES COMPANY ~~720 equitable building denver colorado 80202 303 623-7159~~
P. O. Box 270, 5920 McIntyre Street,
Golden, Colorado 80401 (303) 279-7631

OME Region III
RECEIVED
JAN 5 - P.M.
Denver, Colorado

December 31, 1970

Mr. William Hasler
Office of Mineral Exploration
U. S. GEOLOGICAL SURVEY
Federal Center
Building 53, Room 200
Denver, Colorado 80225

RE: Docket #6689
Contract #2262

Dear Mr. Hasler:

With reference to the attached Administrative Suspension Statement for 1969, a payment of $32.20 was disallowed for completion of Hole #7 which was not accomplished until after the billing period.

Please be advised that Hole #7 was completed at 1,200 ft. and the payment will be requested for this year.

Yours very truly,

Bill Cole

William C. Cole
Manager - Metals Exploration

WCC/nm
Enclosure

cc: Dellas Meeks

Note:
This Suspension Statement was returned to Region III and the Operator to be attached to a reclaim voucher as instructed on the Suspension Statement.
WHE. 1/13/71

EARTH RESOURCES COMPANY 720 equitable building · denver colorado 80202 · 303·623·7153

August 31, 1970

OME RECEIVED SEP 1 X 1970 Denver, Colorado

Mr. J. William Hasler
Office of Minerals Exploration
Federal Center
Room 200, Building 53
Denver, Colorado 80225

RE: OME-6689
Engineering-Geologic Report
August 1, 1970

Dear Mr. Hasler:

Work performed by Vitro Minerals Corporation, a division of Earth Resources Company from July 1, 1970 to July 31, 1970.

Diamond Drill Hole #6B

This BX wireline hole was started 7/2/70 and completed 7/16/70 at 301' where the core barrel was sheared off 2' from the top. No survey was taken because of caving throughout the hole.

Geologic information gained from hole:

1) The hole is entirely in the Silverton Volcanics
2) Excellent recovery was witnessed until the bleached wall of the structure was encountered at 247'
3) From 247' to 301', poor recovery was encountered and at 301', the hole was still in the structure. Throughout this interval, some pieces of vein material were encountered consisting of quartz, tetra, galena, spalerite, rhocochrosite, hematite and clay minerals
4) Several gouge zones were also encountered throughout the structure indicating possible post-mineral movement
5) The structure was steepening and also widening

A geologic log of this hole is pending assay results.

Diamond Drill Hole #2B

This hole was advanced, by BX wireline from 0' to 509' at which point BX wireline drilling ceased and NX reaming proceeded. NX reaming was advanced to 144'. Excellent recovery in the Silverton Volcanics was encountered to 509'.

Diamond Drill Hole #6C

This drill hole was advanced, by rock bit to 32' where casing was being driven.

Yours very truly,

George Ambariantz/n.m.

George Ambariantz
Project Geologist

GA/nm

OME-6689

ENGINEERING-GEOLOGIC REPORT-OCTOBER 1, 1970

Work Performed by Vitro Minerals Corporation, a subsidiary of Earth Resources Company, from August 1, 1970 to September 16, 1970

No. 2B Drill Hole

This drill hole was advanced, by NX reaming from 0 feet to 509 feet at which point the diameter of the core hole was enlarged to NX wireline size. This hole was advanced by NX wireline core drilling, from 509 feet to 588 feet where the hole was bottomed. Core recovery was very good throughout this interval. Eastman single shot surveys taken at approximately 200 foot intervals down the hole provide the following inclination and bearing readings:

Depth	Inclination from the Horizontal	Bearing
100'	-50°	N80E
300'	-51°	N78E
520'	-52°	N80E

This survey indicates that the maximum departure of 3° in inclination and 8° in bearing was encountered throughout the hole. The projected intersection of the Columbus-Grand View vein structure was between 500 feet to 530 feet, the departure of the hole would not have altered this projected intersection by more than 10 to 20 feet. The drill hole encountered a gouge zone in the interval between 509 feet to 511 feet. This gouge zone may represent the pinched out vein structure indicating the vein structure narrows appreciably at depth.

A geologic log of this hole is appended as a part of this report.

No. 6C Drill Hole

This drill hole was advanced by NX wireline core drilling, from 32 feet to 407 feet at which time Eastman single shot hole surveys were taken. The results of these surveys are as follows:

Depth	Inclination from the Horizontal	Bearing
100'	58°	N9E
200'	58°	N8E
300'	59°	N9E
400'	59°	N7E

This survey indicates that the maximum departure of 9° in inclination and 13° in bearing from the original collar setting of the hole. The 13° departure in bearing accounted most appreciably in the deeper core hole intersection of the Lucy vein structure. In this NX wireline core hole, the Lucy vein structure was intersected between 318 feet to 338.5 feet. Core recovery through the vein structure was approximately 76% which is the best recovery through any of the vein structures drilled to date. Assay results through this interval indicate that it was weakly mineralized. A geologic and assay log of this hole are appended as a part of this report.

Operator's Final Report

EARTH RESOURCES COMPANY MEMO

October 23, 1970

TO: Bill Cole

FROM: George Ambariantz

RE: Final Engineering and Geologic Report for the Ice Lake Project, San Juan County, Colorado

Discussion

The original objective of the Ice Lake project was to test the various vein structures, in the top part of the San Juan Formation. The San Juan Formation had been the biggest producer in the Telluride-Sneffels Mining District, 8 to 10 miles to the north. It was surmised by the investigators of the property that there were in the Silverton series overlying the San Juan Formation strong vein structures at the surface with erratic Au-Ag mineralization which might have at depth bonanza ore shoots in the San Juan Formation. In the Telluride-Sneffels district, the structures horsetailed at the surface with no appreciable mineralization, therefore, it was felt that there was good potential in the San Juan Formation at depth in the project area.

In order to test the vein structures, a diamond drilling program was proposed with eight holes and a total footage of 7,100 feet. At this point, Vitro Minerals Corporation applied for an Office of Mineral Exploration precious metals loan to finance the diamond drilling exploration. The OME reviewed the geologic data, the exploration targets, the proposed budget required to test these targets and granted Vitro the loan in the amount of $108,~~750~~ 975.

Work commenced on the Ice Lake project in July, 1968 with Sprague and Henwood, the diamond drilling contractor and Aerial Applicators of Salt Lake City, the helicopter contractors. The helicopter company was commissioned due to the inaccessibility of the project area. The only access to the project area was by a pack trail which was impractical for the transportation of drilling rigs and other heavy equipment.

In briefly reviewing the work performed in the 1968 and 1969 field seasons, six holes were completed by Sprague and Henwood. The results of these holes were as follows:

DDH#1 - total depth 620 ft. - vein structure 4 to 8 feet wide in the San Juan Formation. Poor core recovery, but sludge samples indicated weak mineralization.

DDH#3A - total depth 1,201 ft. - no vein intersected in the San Juan Formation. First conclusion was that the vein dipped away from the hole, but later work disproved that explanation.

DDH#4 - total depth 1,157 ft. - same as #3A

DDH#6A - total depth 710 ft. - vein structure 20 to 25 feet true width in the Silverton series. The core had 8" @ 19 oz/ton Ag. However, poor core recovery through the vein structure was encountered.

DDH#7 - total depth 1,200 ft. - no vein was intersected in the San Juan Formation. The hole was poorly located at a fault intersection.

DDH#8 - total depth 740 ft. - vein structure was 16' wide in the San Juan Formation and poor core recovery encountered with weak mineralization.

In reviewing the 1970 field season, three diamond drill holes were completed by Sprague and Henwood. The Diamond mine was opened to examine the vein structure. The results of this work were:

DDH#2B - total depth 588 ft. - vein structure narrows to gouge zone with weak mineralization.

DDH#6B - total depth 301 ft. - vein structure, 20 to 30' true width in the Silverton series, with weak mineralization. Poor core recovery was encountered through the vein structure. Spectrographic analysis of sludge samples indicated high iron and manganese content indicating the presence of hematite and rhodochrosite.

DDH#6C - total depth 407 ft. - vein structure 12-15' true width in the Silverton series near the top of the San Juan Formation with weak mineralization. Core recovery through the vein structure was good due to changing of the drilling method. Drilling mud with the combination of a larger hole size were used successfully in gaining 76% core recovery through the vein structure.

Diamond mine - this mine was opened for examination. The findings indicated that the vein dips toward diamond drill holes No. 3A and 4. The vein structure was several inches to 6 feet wide. Vein width ranged from several inches to 4 feet wide in a gouge zone. The largest stope encountered averaged 3.5 feet wide, 75 feet long and approximately 50' high. A detailed sampling program was aborted due to poor air circulation in the mine. However, several grab samples were taken from the vein and the adjacent gouge zone. The vein material assayed 8.6 oz/ton Ag and the gouge zone adjacent to the vein assayed 5.00 oz/ton Ag.

Conclusions and Recommendations

The vein structures were intersected in the Silverton series and the San Juan Formation indicating weak mineralization. The diamond drill results have shown that the attitude of the Lucy-Last Hope vein is irregular and the vein width is reasonably persistant, but without economic values. The Diamond and the Columbus-Grand View veins were shown to pinch out with depth where drilled.

In analyzing this project in retrospect, the initial method of exploration in testing the favorability of the San Juan Formation meant deep diamond drilling on poorly defined targets. Instead of this long shot approach with deep drill holes, the structures in my opinion should have been tested with shallow holes first to determine their attitude, then, with deeper holes beneath the encouraging shallow holes to test them in the San Juan Formation. This method of approach would have better defined the targets. On the project, as the initial deep drill holes failed to give satisfactory results, shallower holes were then proposed this past season to better define the structures. The drilling method in the last two holes employed NX core with drilling mud, resulting in the best core recovery on the project. With the Lucy-Last Hope structure well defined and acceptable core recovery where there was previously no recovery, Vitro Minerals is faced with the fact that this information has cost over twice the original proposed budget of $167,000.

The exorbitant project costs were two fold, expense of access and the poor performance by the drilling contractor which was probably the single most contributor to the higher costs. The expense of access, chiefly the use of a helicopter to transport equipment was unavoidable. However, the poor performance by Sprague and Henwood may have been eliminated by having a more stringent drilling contract based on performance rather than time spent on the project.

In summarizing the results of the diamond drilling program, assay results indicated that the continuity of grade of mineralization in the Silverton series is too erratic to meet Vitro Minerals' objective for a mine and there is no positive encouragement for an improvement in the San Juan Formation. The cost to prove continuity of grade and thickness of the veins in the Ice Lake Mining District in light of the past performance with its exorbitant cost is the prohibiting factor for further exploration in the area by Vitro Minerals Corporation. Therefore, the writer recommends that Vitro Minerals Corporation terminate its exploration in the Ice Lake area. An alternative plan could be to interest another company with a partial interest for a cash commitment. In this way, the geologic knowledge gained and the operating techniques employed could be put to good use.

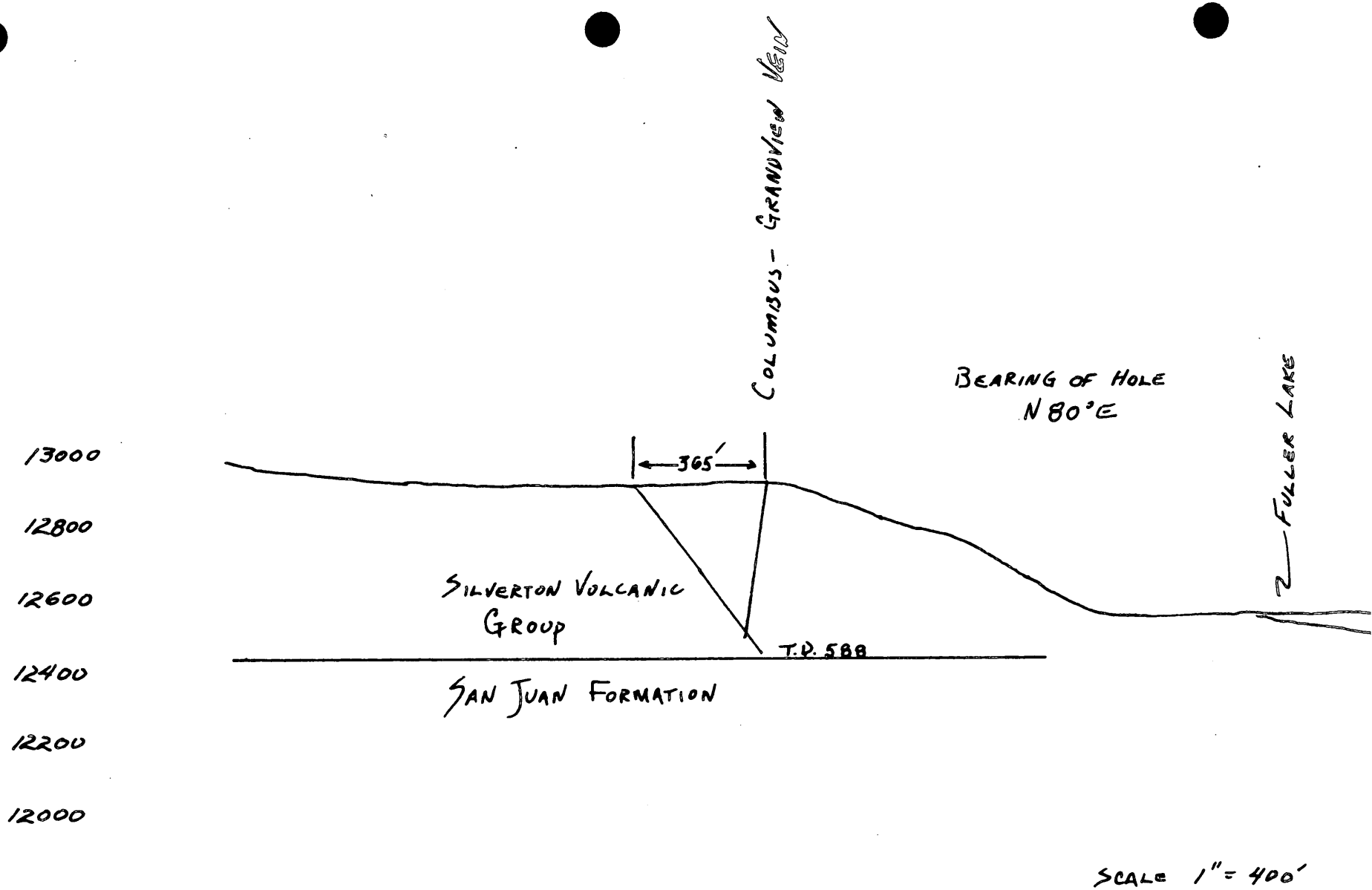
GA/nm

Costs

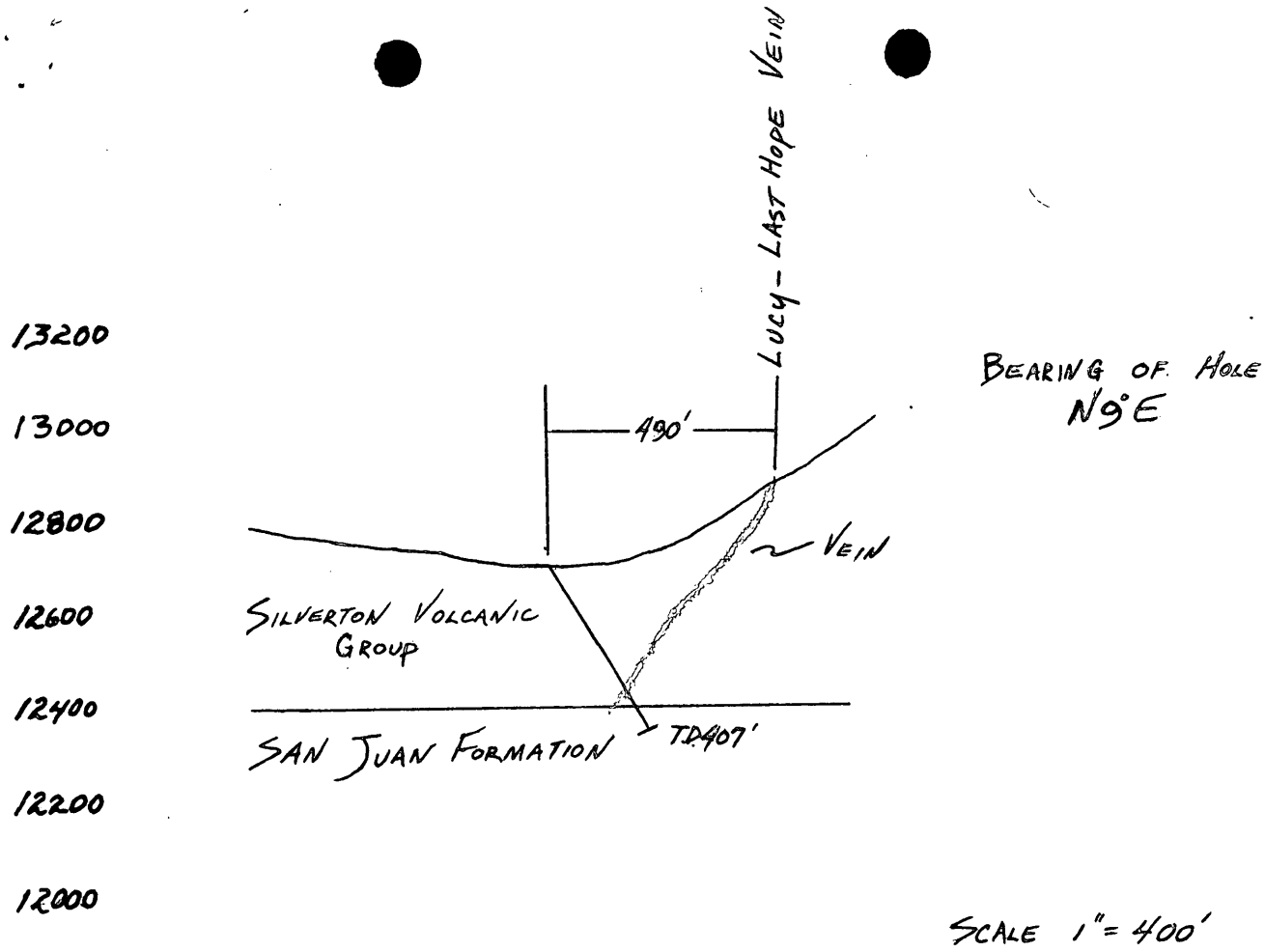
ITEM	PLANNED	ACTUAL	DIFFERENCE
Salaries (Geological)	4,000	4,275	275
Labor, Camp, Assays	7,130	8,258	1,128
Other G & A	0	1,678	1,678
Consulting	0	100	100
Drilling	21,133	24,659	3,526
Helicopter	7,250	13,834	6,584
Packer, Moving Core	4,604	4,804	200
Core and Warehouse Storage	0	492	492
	44,117	58,099	13,982

The direct drilling cost was $\frac{\$24,659}{1,296 \text{ ft.}}$ = $19.03 per ft.

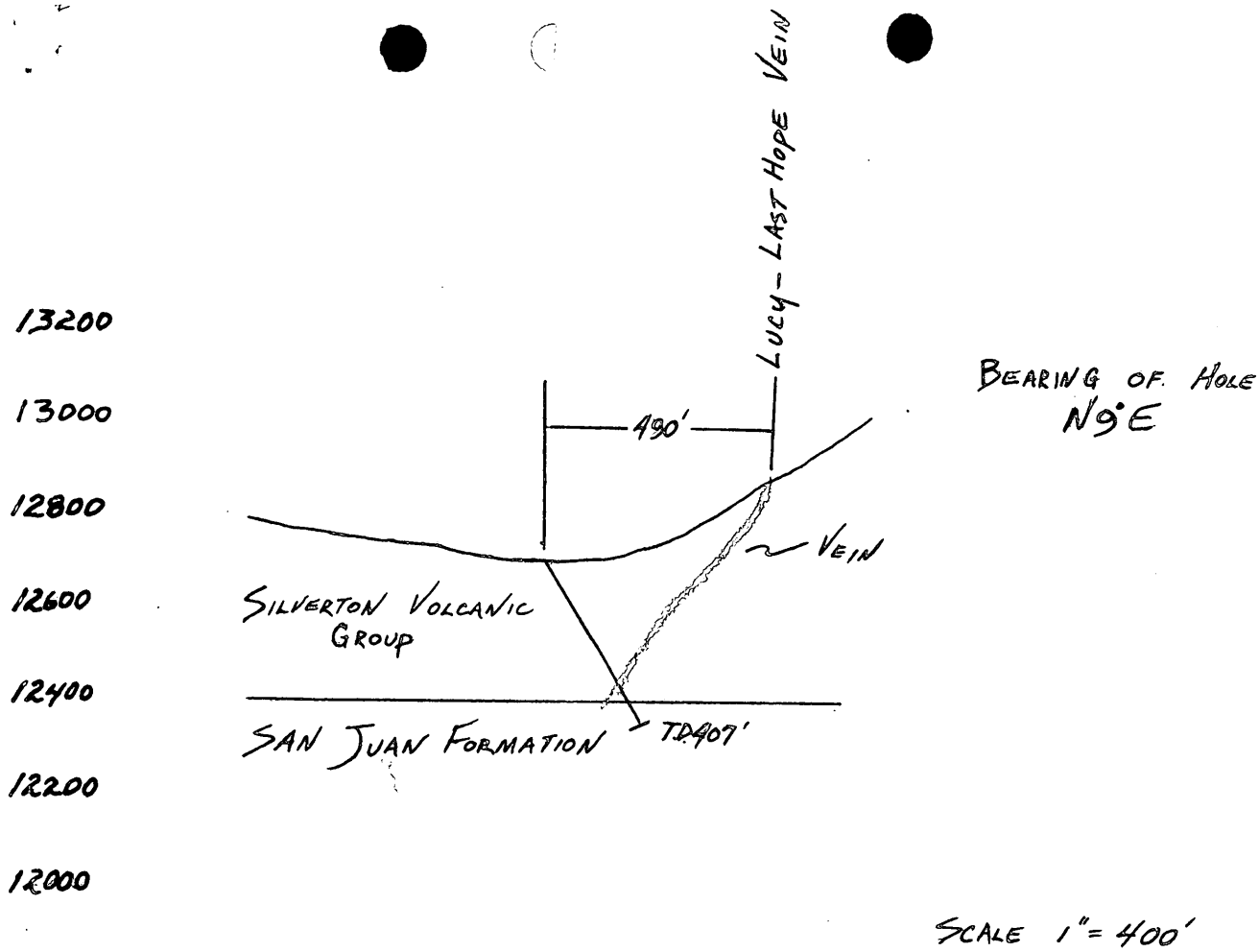
The actual costs exceeded plan because in order to obtain satisfactory drilling results, it was necessary to bing in NX drilling equipment and circulation materials. This overage is reflected principally in the helicopter costs and the additional reaming and standby time. The helicopter costs were underestimated not only because of the additional equipment needed but the underestimation of the amount of time needed to finally clear the site at the end of the project.



DIAMOND DRILL HOLE NO. 2B



DIAMOND DRILL HOLE No. 6C



DIAMOND DRILL HOLE No. 6C

EARTH RESOURCES COMPANY ~~720 equitable building -- denver colorado 80202 - 303-623-7153~~
P. O. Box 270, 5920 McIntyre Street, Golden, Colorado
80401 303-279-7631

NOV 23 1970

November 18, 1970

Mr. J. William Hasler
Office of Minerals Exploration
Federal Center
Room 200, Building 53
Denver, Colorado 80225

Dear Mr. Hasler:

Enclosed please find revised costs sheet. This should be substituted for the sheet I gave you during our October 26 meeting.

Yours very truly,

George Ambariantz /n. m.

George Ambariantz

GA/nm
enclosure

Costs

ITEM	PLANNED	ACTUAL	DIFFERENCE
Salaries (Geological)	4,000	4,275	275
Labor, Camp, Assays	7,130	8,258	1,128
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The actual costs exceeded plan because in order to obtain satisfactory drilling results, it was necessary to bing in NX drilling equipment and circulation materials. This overage is reflected principally in the helicopter costs and the additional reaming and standby time. The helicopter costs were underestimated not only because of the additional equipment needed but the underestimation of the amount of time needed to finally clear the site at the end of the project.

2114 CURTIS STREET

TELEPHONE 623-1852

CHARLES O. PARKER & CO.

CHEMISTS • ASSAYERS • ENGINEERS

DENVER, COLORADO 80205

Folio 9747

Date July 23, 1970.

Earth Resources Co.,
720 Equitable Bldg.,
Denver, Colorado. 80202
Attention: Mr. Tom Sharp.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Purchase Ore No. 5289								
Sample #1-	0.02	0.62		285-286	SLUDGE	DDH#613		
#2-	0.01	0.63		293-301	SLUDGE	DDH#68		

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 5.00

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

ROOT & SIMPSON, INC.
METALLURGICAL CHEMISTS AND ASSAYERS
PHONE 244-3223 DENVER, COLORADO 80216
ADDRESS P.O. BOX 16329

ESTABLISHED 1902

CARL H. ROSS
PRESIDENT AND TREASURER

Assayed for Vitro Minerals: Att: Thomas I. Sharps

	No1.	No. 2
Gold Oz. per ton	0.001	0.001
Silver " " "	0.34	0.30
Copper percent	0.032	0.032
Zinc percent	0.29	0.29
Lead percent	0.21	0.22
Arsenic percent	0.009	0.002
Iron percent	3.2	3.5
Nickel percent	0.006	0.005
Rubidium percent	0.02	0.017
Barium percent	0.26	0.42
Strontium percent	0.014	0.016
Titanium--percent	0.18	0.33
Zirconium percent	0.018	0.019
Columbium percent	0.005	0.002
Manganese percent	1.7	0.25
Yttrium percent	0.014	0.011

Spectographic Analysis of Sludge Samples From DDH #6B.

Charges: $ 31.00

Signed Root & Simpson, Inc.

2114 CURTIS STREET

TELEPHONE 623-1852

CHARLES O. PARKER & CO.

CHEMISTS • ASSAYERS • ENGINEERS

DENVER, COLORADO 80205

Folio 9759

Date August 4, 1970.

Vitro Minerals Corp.,
720 Equitable Bldg.,
Denver, Colorado. 80202
Attention: Thomas Sharpe.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
DIAMOND MINE GRAB SAMPLES.								
#4815	0.01	0.10	GOUGE ZONE					
#4816	0.04	5.00	GOUGE ZONE NEAR VEIN					
#4817	0.06	8.60	VEIN MATERIAL FROM LARGEST STOPE					

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 7.50

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

ROOT & SIMPSON, INC.
METALLURGICAL CHEMISTS AND ASSAYERS
PHONE 244-3223 DENVER 1, COLO.
ADDRESS P. O. BOX 2069

ESTABLISHED 1902

CARL H. ROSS
PRESIDENT AND TREASURER

Sept. 30, 1970

Assayed for: Earth Resources

ITERVAL	Lot No.	Oz. Gold Per ton	Oz.Silver Per ton	Lead Percent	Copper Percent	Zinc Percent
65-267 Core Fragments	6-B-1	0.04	6.84	39.00	0.5	14.3
67-268	6-B-2	0.01	0.02	0.22	None	None
68-270	6-B-3	0.01	0.88	0.15	None	None
7-282 Core Fragments	6-B-4	0.005	0.2	0.1	None	None
2-283.5	6-B-5	0.005	0.17	0.1	None	None
3.5-285	6-B-6	0.005	0.15	0.1	None	None
5-287	6-B-7	0.005	0.13	0.05	None	None
7-292	6-B-8	0.005	0.3	0.06	0.01	None
2-297	6-B-9	0.005	0.11	0.1	0.01	None
7-299	6-B-10	0.005	0.04	0.05	None	None
9.5-321.5	6-C-1	0.005	0.2	0.1	0.01	None
.5-322	6-C-2	0.001	None	0.4	0.07	1.0
2-323	6-c-3	0.005	0.24	0.4	0.05	0.5
4-325	6-C-4	0.005	0.32	0.2	0.1	None
5-326.5	6-C-5	0.005	0.37	0.2	0.06	None
.5-327	6-C-6	0.02	1.15	0.35	0.22	0.35
7-329.5	6-C-7	0.005	0.43	0.18	0.15	None
9.5-332	6-C-8	0.005	0.68	0.3	0.2	None
2-334	6-C-9	0.005	0.56	0.55	0.12	None
1-336	6-C-10	0.005	0.3	0.25	0.09	None
7-338.5	6-C-11	0.001	None	0.16	0.08	None

Charges: $ 304.50

Signed Root & Simpson, Inc.

DOH #23

VITRO MINERALS CORPORATION
Drill Log

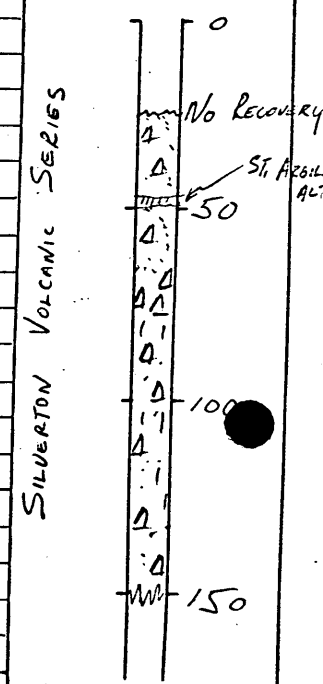
Project: ICE LAKE
County: SAN JUAN
State: COLORADO
Claim: LUCY #2
Page 1 of 3

Date Started: 7/2/70
Date Completed: 7/16/70
Logged By: G.P. ARBARIANITZ
Type Drill: S+H 40C-LYCOMING DIESEL
Hole Size: BX WIRELINE
Contractor: SPRAGUE & HENWOOD

Hole No.: 6B
Coord: _____ N, _____ E
Collar Elev.: 12710 (EST)
Total Depth: 301'
Bearing: N 28° E
Inclination: -67°

From	To	Thickness	% Core Recovery	Geologic description and remarks
0	25	25	0	0-12 NX Casing
25	35	10	99	0-29 BX Casing
35	39	4	98	0-25 plugged with rock bit no recovery
39	47	8	99	
47	52	5	99	25-200 Silverton Volcanic group
52	57	5	99	greenish-grey tuff breccia. Breccia
57	67	10	95	fragments angular to subangular range
67	73	6	99	in size from 2' to 1/16". Selective repl
73	80	7	89	of breccia fragments by sp and py.
80	87	7	99	
87	97	10	95	46-50 Bleached zone - strong argillic
97	107	10	98	alteration. Also numerous stringers
107	117	10	99	of py and qtz @ various angles.
117	127	10	99	
127	137	10	99	80-82 Moderate to strong sp alteration.
137	147	10	95	
147	157	10	99	201-202 1/4" gouge zone @ approx 50°
157	167	10	99	
167	177	10	99	207-208 Fracture zone
177	187	10	99	
187	197	10	95	

Graphic log
Scale 1" = 50'



Hole No. 6B

Project: ICE LAKE

VITRO MINERALS CORPORATION
Assay Log

Hole No.: 6B
Page 1 of 1

Sample	From	To	Thickness	CORE Au OZ/TON	CORE Ag OZ/TON	CORE Pb %	CORE Cu %	CORE Zn %		SLUDGE OR DUST Au OZ/TON	SLUDGE OR DUST Ag OZ/TON				
6B-1	265	267	2	0.04	6.84	39.00	0.5	14.3							
6B-2	267	268	1	0.01	0.02	0.22	NONE	NONE							
6B-3	268	270	2	0.01	0.88	0.15	NONE	NONE							
6B-4	277	282	5	0.005	0.20	0.10	NONE	NONE							
6B-5	282	283.5	1.5	0.005	0.17	0.10	NONE	NONE							
6B-6	283.5	285	1.5	0.005	0.15	0.10	NONE	NONE							
6B-7	285	287	2	0.005	0.13	0.05	NONE	NONE							
6B-8	287	292	5	0.005	0.30	0.06	0.01	NONE							
6B-9	292	297	5	0.005	0.11	0.01	0.01	NONE							
6B-10	297	299	2	0.005	0.04	0.05	NONE	NONE							
#1-SLUDGE	285	286	1							0.02	0.62				
#2-SLUDGE	293	301	8							0.01	0.63				

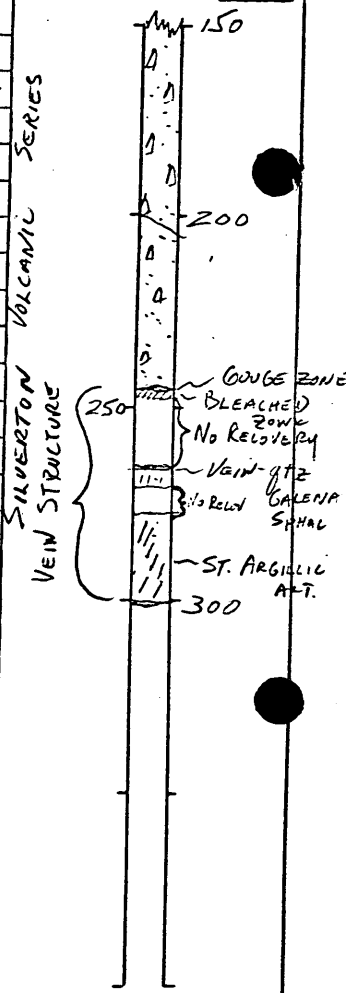
VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 6B
Page 2 of 3

From	To	Thickness	% Core Recovery	Geologic description and remarks
197	207	10	95	218.5 ~ 1/4" stringer of covellite, chalcopyrite & pyrite
207	213	5	99	intersected @ 45°
213	213.5	0.5	99	
213.5	217	3.5	99	219 ~ 1/4" stringer of qtz tetrahedrite intersected
217	227	10	99	@ 85°
227	237	10	99	
237	245	8	99	245 Gouge zone several inches thick
245	247	2	90	
247	249.5	2.5	10	246 Qtz stringer intersected @ 45°
249.5	257	7.5	0	
257	265	8	0	247-249.5 Bleached wall rock of vein.
265	267	2	10	
267	268	1	99	249.5-257 No recovery - possible gouge zone
268	269	1	10	
269	270	1	30	257-265 No recovery
270	277	7	0	
277	282	5	10	265-267 Vein material consisting of qtz, galena
282	283.5	1.5	35	sphalerite, tetrahedrite, rhodonite and
283.5	285	1.5	99	rhodochrosite > 20% combined Pb-Zn
285	286	1	0	
286	287	1	99	267-268 Massive sugar Qtz w/ disseminated
287	292	5	30	sphalerite and galena. MnO_2 stain on qtz
292	297	5	20	<5% combined Pb-Zn
297	299	2	20	268-270 Fragmented vein material
299	301	2	15	same as above. <2% Pb-Zn combined
				270-277 No recovery possible gouge zone

Graphic log
Scale 1" = 50



Hole No. 6B

VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 6B
Page 3 of 3

From	To	Thickness	% Core Recovery	Geologic description and remarks	Graphic log Scale 1"= ____
				277-283 Zone Vein w/ ~ 2% Contained Pb-Zn to intensely altered Silverton volcanic series. The volcanics has strong argillic and pyritic alteration.	
				283-285 Vein material w/ ~ 2% Contained Pb-Zn to altered volcanics same as above.	
				285-286 - No recovery but a small sludge sample was taken from remains in the core barrel	
				286-301 Intensely altered volcanics Silverton Group w/ small songe zones Volcanic rock tending to become more schistified	
				301 ~ BX Core barrel sheared off 2' from the top. The top 2' of the core barrel and approx 8' of the last drill steel were filled with sludge. This sludge was sampled.	

Hole No. 6B

VITRO MINERALS CORPORATION
Drill Log

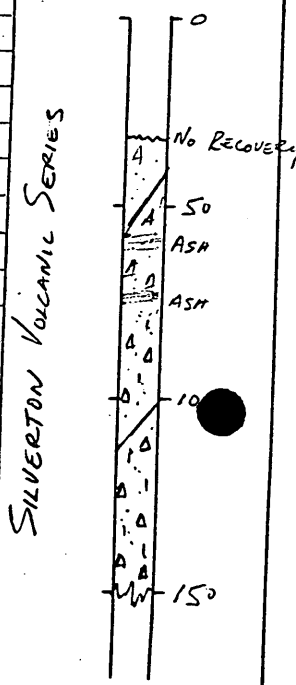
Project: Ice Lake
County: San Juan
State: Colorado
Claim: Lucy #2
Page 1 of 4

Date Started: 7/27/70
Date Completed: 8/26/70
Logged By: G.P. Ambarianitz
Type Drill: SH 40-Lycoming Diesel
Hole Size: NX Wireline
Contractor: Sprague + Henwood

Hole No.: 6C
Coord: _____ N, _____ E
Collar Elev.: 12710 (EST)
Total Depth: 407
Bearing: N20°E
Inclination: -67

From	To	Thickness	% Core Recovery	Geologic description and remarks
0	31	31	0	0-31 Plugged with rock but no recovery.
31	37	6	50	0-29 4" pipe used for casing
37	39	2	50	
39	44	5	40	31-57 Silverton Volcanic group
44	47	3	66	grey-green tuff breccia. Breccia fragments angular
47	57	10	90	to sub-angular, range in size from 2' to 1/16"
57	66.5	9.5	75	in diameter. Selective replacement of breccia
66.5	67	0.5	60	fragments by sp and py.
67	77	10	105	
77	87	10	90	46 - Qtz stringer intersected @ 60°
87	97	10	20	
97	107	10	95	57-77 Silverton Volcanic group - interbedded
107	117	10	95	ash flow tuff, Burns Latite and tuff breccia
117	127	10	105	
127	136	9	90	115-116 Two fractures intersected @ 50°
136	146	10	95	
146	167	21	95	187-188 Qtz and py stringer intersected @85-90°
167	177	10	95	
177	187	10	100	190-195 Qtz and py stringer 1/4" intersected
187	207	20	95	@ 85 to 90°
207	212	5	90	

Graphic log
Scale 1" = 50'



Hole No. 6C

Project: ICE LAKE

VITRO MINERALS CORPORATION
Assay Log

Hole No.: #6C
Page 1 of 1

				CORE						SLUDGE OR DUST					
Sample	From	To	Thick-ness	Au OZ/TON	Ag OZ/TON	Pb %	Cu %	Zn %							
6C-1	319.5	321.5	2	0.005	0.2	0.1	0.01	NONE							
6C-2	321.5	322	0.5	0.001	NONE	0.4	0.07	1.0							
6C-3	322	323	1	0.005	0.24	0.4	0.05	0.5							
6C-4	324	325	1	0.005	0.32	0.2	0.10	NONE							
6C-5	325	326.5	1.5	0.005	0.37	0.2	0.06	NONE							
6C-6	326.5	327	0.5	0.02	1.15	0.35	0.22	0.35							
6C-7	327	329.5	1.5	0.005	0.43	0.18	0.15	NONE							
6C-8	329.5	332	2.5	0.005	0.68	0.3	0.02	NONE							
6C-9	332	334	2	0.005	0.56	0.55	0.12	NONE							
6C-10	334	336	2	0.005	0.30	0.25	0.09	NONE							
6C-11	337	338.5	1.5	0.001	NONE	0.16	0.08	NONE							

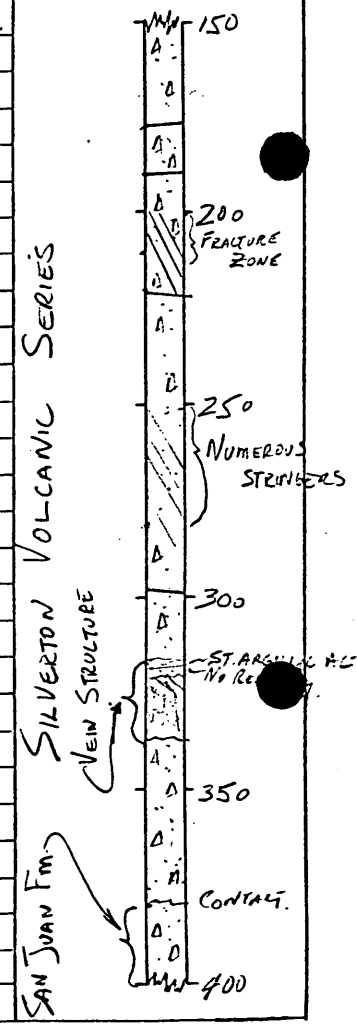
VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 6C
Page 2 of 4

From	To	Thickness	% Core Recovery	Geologic description and remarks
212	227	15	90	211-220 Fractured zone w/ gouge intersected
227	237	10	85	@ 60-70°. Iron oxide staining in gouge zones.
237	247	10	80	
247	257	10	95	217-218 Fracture w/ gouge intersected @ 85-90°
257	267	10	95	
267	277	10	90	235-250 - Numerous fractures encountered @ 75-90°
277	287	10	95	
287	298	11	80	250-277 Numerous stringers intersected @
298	306	8	80	75-85°
306	312	6	110	
312	316	4	99	298 - Fracture intersected @ 85°
316	317	1	85	
317	318	1	10	316-318 - Silverton Series w/ strong argillic
318	319.5	1.5	0	alteration and fracturing
319.5	321.5	2.0	95	
321.5	323	1.5	99	318-319.5 - No Recovery
323	325	2	10	
325	326.5	1.5	40	319.5-321.5 - Silverton Series w/ strong argillic
326.5	327	0.5	95	alteration, mod py alt. w/ gouge seams
327	329.5	2.5	140	intersected @ 45°
329.5	332	2.5	95	
332	334	2	99	321.5-323 altered Silverton Series same as
334	336	2	99	above w/ vein material consisting
336	337	1	0	of sugary qtz, galena & sphalerite.
337	338.5	1.5	85	Combined Pb-Zn < 1%.
338.5	339.5	1	95	
339.5	341.5	2	95	322 - Qtz stringer ½" wide intersected @ 80°
341.5	344.5	3	90	322.5 Gouge & zone intersected @ 80°
344.5	345.5	1	99	post qtz stringer.

Graphic log
Scale 1" = 50'



Hole No. 6C

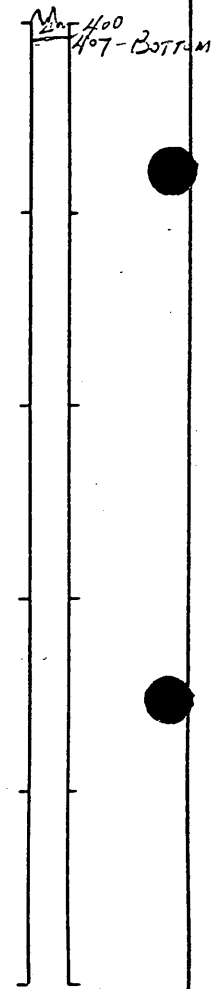
VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 6C

From	To	Thickness	% Core Recovery	Geologic description and remarks
345.5	349.5	4	99	323-325 - Sugar Qtz w/ iron oxide and minor
349.5	357	7.5	110	staining, py, galena & sphal. Contained Pb-Zn < 2%
357	374	17	95	
374	381	7	95	325-326.5 Same as above
381	387	6	95	
387	396.5	9.5	99	326.5-327 Sugar Qtz w/ carbonate, py
396.5	397	0.5	99	gal & sphal. Contained Pb-Zn < 1%
397	407	10	99	Fault breccia & gouge, fracture planes @ 75°
				327-329.5 Altered Silverton Series w/
				sugar qtz and disseminated sulfides
				Contained Pb-Zn < 2%
				328 - Gouge zone intersected @ 87°
				329 Qtz stringer intersected @ 75°
				329.5 Stringer intersected @ 15°
				329.5-334 Altered Silverton same as above
				332 Qtz stringer intersected @ 3°
				333 Qtz stringer intersected @ 80°
				334-335 Gouge zone w/ iron oxide, minor
				qtz and carbonate mineralization
				335-336 Altered Silverton Series
				336-337 - No Recovery
				337-338.5 Altered Silverton Series
				338.5 Qtz stringer intersected @ 80°

Graphic log Scale 1" = 50'



Hole No. 6C

VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 6C
Page 4 of 4

From	To	Thick-ness	% Core Recovery	Geologic description and remarks	Graphic log Scale 1"= ____
				341.5 - 1" Stringer of Qtz intersected @ 75-80°	
				349 Qtz stringer enter @ 75°	
				336-381 Silverton Volcanic group.	
				381-407 San Juan Formation - purple tuff breccia w/ mod ep-py alt.	
				387 Qtz stringer enter @ 75°	
				397-407 Numerous fracture planes @ 45-75°.	

Hole No. 6C

UOH #28

VITRO MINERALS CORPORATION
Drill Log

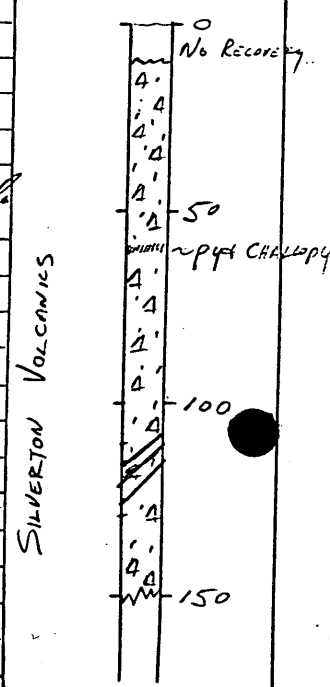
Project: Ice Lake
County: San Juan
State: Colorado
Claim: St. Anthony
Page 1 of 3

Date Started: 7/1/70
Date Completed: 8/30/70
Logged By: G.P. Ambarianitz
Type Drill: S+H 40C – Lycoming Diesel
Hole Size: 0–509' BXWL 509–588 NXWL
Contractor: Sprague & Henwood

Hole No.: 2B
Coord: _____ N, _____ E
Collar Elev.: 12900' (EST)
Total Depth: 588'
Bearing: N 72° 30' E
Inclination: –53°

From	To	Thickness	% Core Recovery	Geologic description and remarks
0	7	7	0	0–8 NX casing
8	9	1	0	0–9 plugged with rock bit no recovery
9	11	2	90	
11	15	4	99	9–30' Silverton Series possibly the Burns
15	19	4	99	Latite, grey in color with moderate py and
19	29	10	95	ep alteration also containing numerous
29	30	1	50	stringers of qtz and py. Feldspars argillized
30	33	3	99	Limonite after py.
33	40	7	95	
40	46.5	6.5	99	30–130 Silverton Series, greenish-grey tuff
46.5	50.5	4.5	90	breccia. Breccia fragments angular to subangular
50.5	59	9.5	99	range in size from 2' to 1/16". Selective
59	66	7	95	replacement of breccia fragments by epidote
66	70.5	4.5	99	and pyrite alteration.
70.5	75.5	5	99	
75.5	80.5	5	99	59–60 Intense argillic alt. w/ disseminated
80.5	90.5	10	99	py and chalcopy.
90.5	100.5	10	99	
100.5	110.5	10	99	
110.5	120	9.5	95	
120	125	5	99	

Graphic log
Scale 1" = 50'



Hole No. 2B

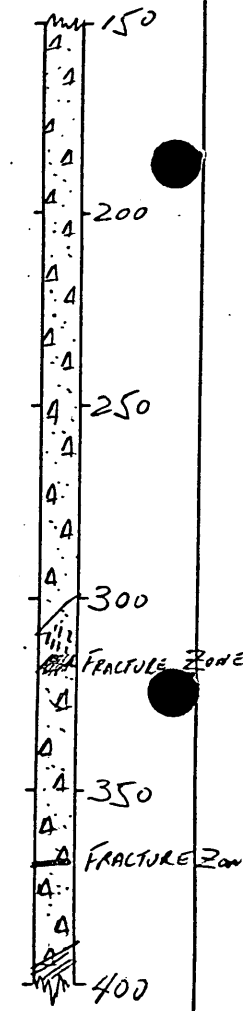
VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 23
Page 2 of 3.

From	To	Thickness	% Core Recovery	Geologic description and remarks
125	130	5	115	110.5-130 Numerous fractures intersected
130	140.5	10.5	90	@ 45°-50°
140.5	150.5	10	95	
150.5	160.5	10	99	130-240 Silverton Volcanic Series,
160.5	170	9.5	95	grey-green tuff breccia w/ mod argillic
170	180	10	115	weak ep and py alteration
180	190	10	95	
190	200	10	99	239 two parallel fractures intersected @
200	210	10	99	45°
210	220	10	99	
220	230	10	98	240-300 Silverton Volcanic Series
230	240	10	98	same as above.
240	250	10	95	
250	260	10	95	300-310 Fractures intersected @ 45-50°
260	270	10	95	
270	280	10	99	310 Intense argillic alteration w/ mod
280	282	2	75	ep & py alt.
282	290	8	95	
290	300	10	95	319- Fractured rock
300	310	10	95	
310	320	10	90	340-350 Silverton Volcanic series
320	330	10	95	tuff breccia purplish-green w/ mod
330	340	10	95	alteration; strong ep alt
340	350	10	95	
350	360	10	95	369-370 Fracture zone
360	370	10	95	
370	378	8	85	
378	388.5	10.5	90	
388.5	396	7.5	90	

Graphic log
Scale 1" = 50'



Hole No. 23

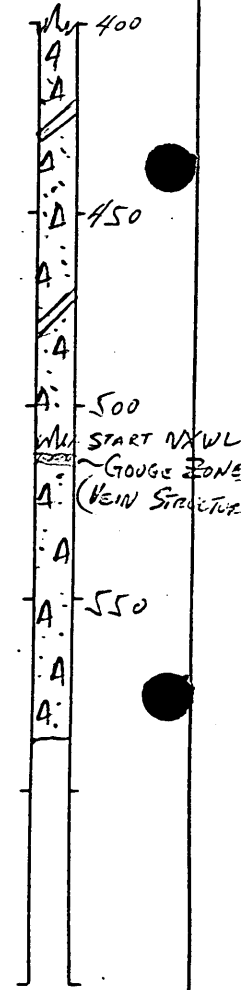
VITRO MINERALS CORPORATION SUBSIDIARY OF EARTH RESOURCES COMPANY

Drill Log

Hole No. 2B
Page 3 of 3

From	To	Thickness	% Core Recovery	Geologic description and remarks
396	400.5	4.5	95	396-400.5 Numerous fractures intersected
400.5	409	8.5	95	@ 45-70° most of which contain
409	415	6	85	iron oxide and manganese oxide
415	420.5	5.5	95	staining
420.5	430	9.5	99	
430	440	10	95	420-430
440	450	10	95	422 Series of parallel fractures intersected
450	460	10	99	@ 45°
460	470.5	10.5	95	426 Two parallel fractures inter @ 60°
470.5	480.5	10	99	
480.5	509	28.5	95	300-440 Silverton Volcanic series
509	515.5	6.5	85	purple-green tuff breccia w/ mod ep
515.5	588	72.5	85	py and argil alt.
				475 Two parallel fractures intersected
				@ 45° each contains iron oxide
				staining
				509' Marks the end of BKW Core
				Hole reamed NKD to 509'.
				509 marks the beginning of NX drilling
				509-511 Gouge zone w/ qtz stringer. This
				could possibly be the vein structure.
				440-588 Silverton Volcanic Series
				Same as above.
				515.5-588 - Core boxes dropped by helicopter
				core was measured and logged

Graphic log
Scale 1" = 50'



Hole No. 2B

INSTRUCTIONS FOR USE

1. Void Previously Used Block
2. Identify Agency of Addressee
3. Write Clearly
4. Send Surplus Envelopes to Supply Room for Reissue

OME-6689
OPERATOR'S
FINAL REPORT
MAP

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP

Use other side first

☆ U. S. GOVERNMENT PRINTING OFFICE: 1970-426-843/4

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
	STOP		STOP
J. Kirkemo Rm 4450 Interior Bldg.	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP

Use other side

Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

S Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/29/70		120
9/29	Cal	220
		120M

AIRMAIL

Mr. Keith H. Elmer
Controller
Vitro Minerals Corporation
720 Equitable Building
Denver, Colorado 80202

SEP 29 1970

Re: OME-6689 (Silver)
Vitro Corporation of America
Ice Lake Project
San Juan, San Miguel Counties, Colorado
Contract 2262

Dear Mr. Elmer:

We have a copy of Mr. J. W. Hasler's concurrence in the balance ($20,727.00) of accounts receivable as of August 30, 1970, on the subject contract as noted in your letter dated September 21, 1970, to Mr. Hasler.

Our records show the following disbursements and present balance for this contract:

Government Voucher Number	Date	For Operator's Monthly Voucher	Amount
94563	Feb. 4, 1969	July 31-Oct. 31, 1968	$37,519.97
01860	Sept. 25, 1969	June & July 1969	11,290.06
3827	Dec. 22, 1969	Aug. & Sept. 1969	8,093.60
"	"	October 1969	31,343.84 1/
		Total	$88,247.47

1/ $200.00 withheld pending resumption of work in Spring 1970. Amount will continue to be withheld pending receipt of Operator's final report.

Total estimated Government participation in contract at 75% $108,975.00
Government share for work approved through Dec. 22, 1969 88,247.47
Balance $20,727.53

Though our balance differs very slightly from yours, we offer this summary in the event it may be useful to you and your auditors.

Sincerely yours,

Harold Kirkemo (gla)

cc: Lybrand, Ross Bros. & Montgomery

Harold Kirkemo
Chief, Office of Minerals Exploration

OME Region III
Mr. Kirkemo
HKirkemo/gla 9-29-70

ng File
r Resources
OME Docket
OME Reading File

Voucher 12/22/69
show

3751997
1129006
8093600
3134384

88247.47 *

Amt g.P. 10897500
of Contract 8024747 -

C.C. 20,727.53 *

200 - withheld of
Oct voucher.

OFFICIAL
COPY
O. [redacted] E.
[redacted]
SEP 28 1970

OFFICE	CODE
	130
	120
	120

Mr Kirkimo - attached
Xpie - amt disb - bal
20,727.53 C.C.

EARTH RESOURCES COMPANY 720 equitable building · denver colorado 80202 · 303-623-7153

September 21, 1970

OME Mgmt
RECEIVED
SEP 23 1970
Denver, Colorado

Mr. J. William Hasler
Office of Minerals Exploration
Building 53 Room 200
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

Our auditors, Lybrand, Ross Bros. & Montgomery, 1576 Sherman, Denver, Colorado, 80203, are currently engaged in their annual audit of the Company's books and records. Our records show accounts receivable as of August 31, 1970 were as follows:

Docket No. OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

75 percent participation $20,727.00

If the above information is in agreement with your records, would you please so indicate by signing the enclosed copy of the letter and return it directly to our auditors in the enclosed self-addressed envelope. Any exception may be noted in the space below. We appreciate your cooperation in this matter.

Sincerely,

VITRO MINERALS CORPORATION

Keith H Elmer

Keith H. Elmer
Controller

KHE:S

Enclosures

The above information is correct.

J. William Hasler

7-2-70

Kirk:

This is only a memorandum report from Petro's geologist, I will get a full report shortly as well as an interim inspection possibly next week.

Bill

EARTH RESOURCES COMPANY 720 equitable building · denver colorado 80202 · 303·623·7153

August 31, 1970

CASE RECORD
RECEIVED
SEP 1 X 1970
Denver, Colorado

Mr. J. William Hasler
Office of Minerals Exploration
Federal Center
Room 200, Building 53
Denver, Colorado 80225

RE: OME-6689
Engineering-Geologic Report
August 1, 1970

COPY
O. M. E.
RECEIVED
SEP 8 1970
INITIALS CODE
Gal 120 m
HK 120
WE 120

Dear Mr. Hasler:

Work performed by Vitro Minerals Corporation, a division of Earth Resources Company from July 1, 1970 to July 31, 1970.

Diamond Drill Hole #6B

This BX wireline hole was started 7/2/70 and completed 7/16/70 at 301' where the core barrel was sheared off 2' from the top. No survey was taken because of caving throughout the hole.

Geologic information gained from hole:

1) The hole is entirely in the Silverton Volcanics
2) Excellent recovery was witnessed until the bleached wall of the structure was encountered at 247'
3) From 247' to 301', poor recovery was encountered and at 301', the hole was still in the structure. Throughout this interval, some pieces of vein material were encountered consisting of quartz, tetra, galena, spalerite, rhocochrosite, hematite and clay minerals
4) Several gouge zones were also encountered throughout the structure indicating possible post-mineral movement
5) The structure was steepening and also widening

A geologic log of this hole is pending assay results.

Diamond Drill Hole #2B

This hole was advanced, by BX wireline from 0' to 509' at which point BX wireline drilling ceased and NX reaming proceeded. NX reaming was advanced to 144'. Excellent recovery in the Silverton Volcanics was encountered to 509'.

Diamond Drill Hole #6C

This drill hole was advanced, by rock bit to 32' where casing was being driven.

Yours very truly,

George Ambariantz/nm

George Ambariantz
Project Geologist

GA/nm

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 16 1970
INITIAL CODE
glr 120
HK 120
WE 120

July 14, 1970

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Ag-Au)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed is a copy of a letter from the subject Operator dated July 6, 1970, informing this office the exploration work on the Ice Lake project was resumed on July 1, 1970. Diamond drill hole Nos. 2, and 6-B are presently being drilled.

J. William Hasler

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

Enclosure

EARTH RESOURCES COMPANY 720 equitable building · denver colorado 80202 · 303·623·7153

July 6, 1970

OME Region III
RECEIVED
JUL 9 - 1970
Denver, Colorado

Mr. J. William Hasler
Office of Minerals Exploration
Federal Center
Room 200, Building 53
Denver, Colorado 80225

RE: OME-6689
Ice Lake Project

Dear Mr. Hasler:

Field activities on the Ice Lake project commenced on June 15, 1970. By July 1, 55 drums of diesel fuel, gasoline and hydraulic fluid had been flown into the project area, and also by that time the bunkhouse had been rebuilt to accommodate eight men. Drilling commenced on #2 and #6B drill holes on July 1, 1970.

Mr. George Ambariantz will be the project geologist this year and will supply you with monthly reports.

We are hoping for a good year and hope that you will visit our project area this summer.

Very truly yours,

Thomas I. Sharps

Thomas I. Sharps

TIS/nm

cc: George Ambariantz

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/28/70	Emerick	120
		120
5/28	Cal	220
		120M

MAY 28 1970

AIRMAIL

Mr. Thomas I. Sharpe
Earth Resources Company
720 Equitable Building
Denver, Colorado 80202

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Sharpe:

This is in reply to your letter, dated May 8, 1970, to Mr. J. William Hasler, Field Officer, Region III, requesting permission to relocate diamond drill hole No. 2A to a new collar position to be designated No. 2B approximately 630 feet south along the strike of the Columbus vein.

The information submitted with your request sufficiently demonstrates the advantages of relocating the hole. Permission, therefore, is hereby granted to relocate diamond drill hole No. 2A to the collar position indicated above.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region III
Mr. Emerick

WLEmerick/bsl 5/28/70

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 25 1970
ORIGINAL COPE
~~130~~
bal 120 PW
HK ~~120~~
WE ~~120~~ G

May 21, 1970

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith is a request from the Operator to relocate the collar of No. 2A diamond drill hole, to a new location shown as Hole 2B on the plan map accompanying the request. The relocation of hole 2A to its proposed location will facilitate penetrating the vein at a more normal intersection of the vein, but does not alter the target area to speak of. I recommend that the relocation of Drill Hole 2A to the newly proposed location shown at 2B be allowed. This has been discussed previously with me, during a conference in the Operator's office.

J. William Hasler

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

EARTH RESOURCES COMPANY 720 equitable building · denver colorado 80202 · 303·623·7153

OME Region III
RECEIVED
MAY 18 1970
Denver, Colorado

May 8, 1970

Mr. J. William Hasler
Office of Minerals Exploration
Federal Center
Room 200, Building 53
Denver, Colorado 80225

RE: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project

Dear Mr. Hasler:

Permission is hereby requested to relocate the collar of our No. 2A diamond drill hole to a new location designated as No. 2B, which is situated approximately 630 feet south, along strike of the Columbus vein, from the old 2A site.

This relocation of the collar reduces the total postulated depth from 1,050 feet to 200 feet and also facilitates a more normal intersection of the vein. The target area is approximately the same as that of No. 2A hole.

700'

The accompanying cross section and plan illustrates the relative position and inclination planned for this hole.

Very truly yours,

Thomas I. Sharps

Thomas I. Sharps

TIS/nm
enclosure of schedule
enclosure of cross section

EARTH RESOURCES COMPANY MEMO

OME Region III
RECEIVED
MAY 18 1970
Denver, Colorado

May 7, 1970

TO: All Contracting Parties

FROM: T. I. Sharps

SUBJECT: Schedule of Operations 1970 Field Season Ice Lake Project

Field operations will commence on the Ice Lake project on June 15, 1970. The purpose of this memo is to present a coordination plan to the participating contractors so that the operation will proceed with expediency.

Trans West Aerial Applicators will have their helicopter in Silverton, Colorado on June 15, 1970 and will be ready at that time to begin hauling diesel fuel, gasoline, men and supplies to the project area at Fuller Lake. Trans West will provide in addition to their pilot a hookup man who will be responsible for loading the aircraft.

Sprague and Henwood will assemble by June 15, 1970 their entire fuel requirements for the drilling season. This will consist of 40 barrels of diesel fuel, 15 barrels of gasoline, plus several cases of motor oil and grease. They will have on hand at this time their drilling foreman and anyone else they deem requisite to the operations. Sprague and Henwood's two diamond drill helpers will report for work at Silverton on June 15 and will work for Vitro (on Vitro payroll) in rebuilding the bunkhouse at Fuller Lake. They will either be flown in and out of the project area while they are working on the bunkhouse or if they wish they may stay in the cook shack.

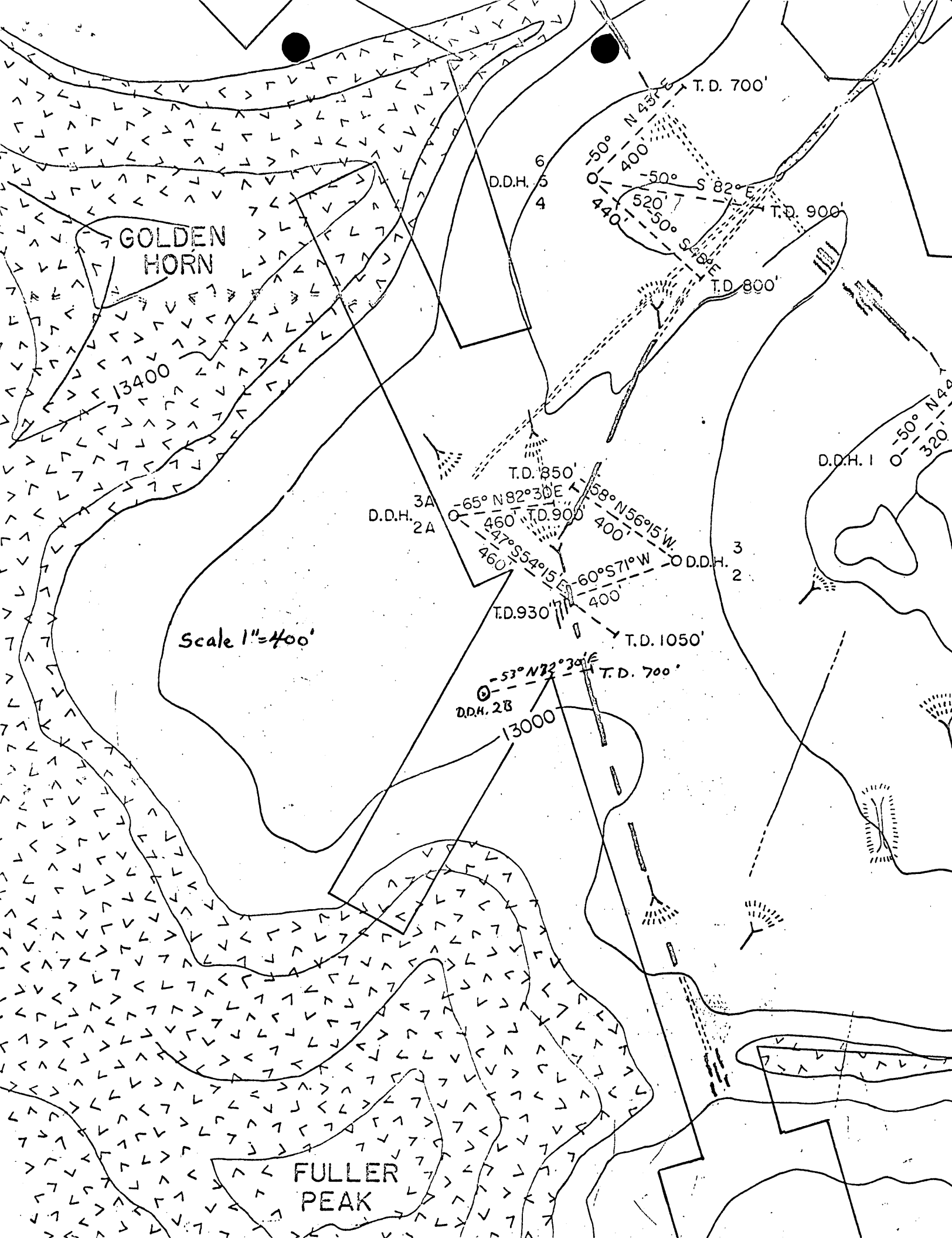
Chattanooga Valley Ranch will provide riding and pack animals as well as a mule skinner for the duration of the project. Six riding horses will be provided and pack trains will be scheduled to arrive at Fuller Lake every other day. The pack train will usually consist of eight pack animals.

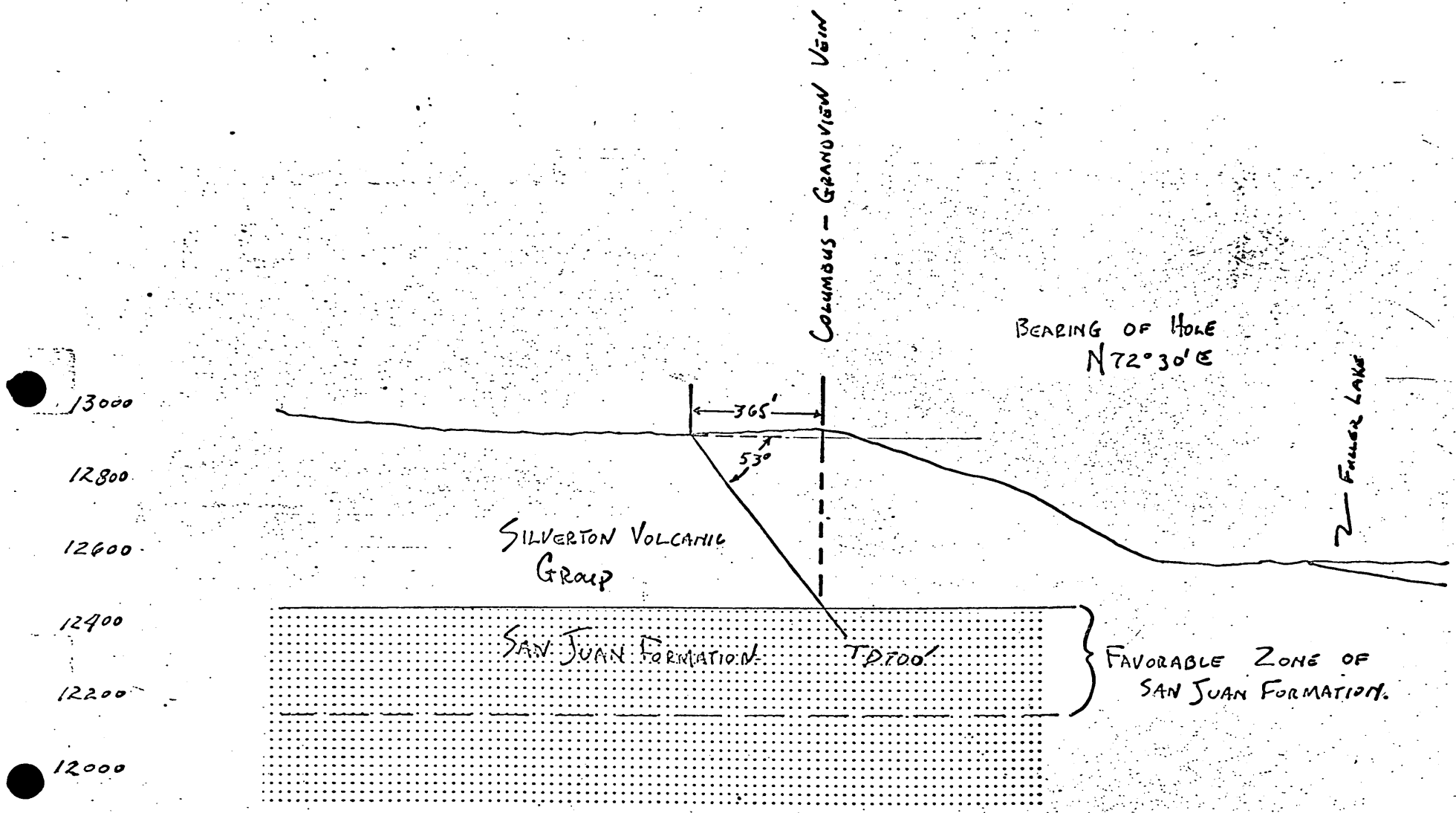
It is anticipated that all fuel will be moved to the project area and that we will be able to commence drilling by July 1, 1970. By this time, the bunkhouse should be built and the kitchen set in order. Regular scheduled pack trips will be made into the project area on or before July 1, 1970.

Thomas I. Sharps

TIS/nm

cc: Bill Cole
Jack Garrett


T. D. 700'
N 45°
-50°
400'
D.D.H. 6
5
4
-50°
S 82° E
520'
440'
-50°
S 48° E
T.D. 900'
T.D 800'
GOLDEN HORN
13400
T.D. 850'
D.D.H. 3A
2A
-65° N 82° 30' E
460'
T.D. 900
58° N 56° 15' W
400'
47°
460'
S 54° 15' E
-60° S 71° W
400'
D.D.H. 3
2
T.D. 930'
T.D. 1050'
D.D.H. 1
-50° N 44
320'
Scale 1" = 400'
-53° N 82° 30' E
T. D. 700'
D.D.H. 2B
13000
FULLER PEAK



Diamond Drill Hole No. 2B

GPA.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/19/70		120
		220
		120M

AIRMAIL

MAY 19 1970

Mr. John A. Reeder, Jr.
Staff Attorney
Earth Resources Company
303 Expressway Tower
Dallas, Texas 75206

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Reeder:

Thank you for advising us to continue dealing directly with Vitro Minerals Corporation on matters concerning the subject contract.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of
Minerals Exploration

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

cc: Director's Reading file
Mineral Resources
OME docket
OME Reading file
OME Region III w/cy letter May 14, 1970
Mr. Kirkemo

HKirkemo/gla 5-19-70

EARTH RESOURCES COMPANY 303 expressway tower • dallas texas 75206 • 214-369-2186

May 14, 1970

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 18 1970
INITIALS CODE
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Mr. Harold Kirkemo
Chief, Office of Minerals Exploration
U.S. Geological Survey
Department of Interior
Washington, D. C. 20242

RE: OME-6689-Silver

Dear Mr. Kirkemo:

Mr. E. B. Hotchkiss, Vice President of Earth Resources Company, has asked me to write your office concerning a proposed merger of Vitro Minerals Corporation into its parent, Earth Resources Company.

On advice from our independent public accounting firm, Earth Resources Company has decided to postpone the merger of Vitro Minerals Corporation, its wholly owned subsidiary, for an indefinite time. Vitro Minerals Corporation presently holds an exploration contract with your office which can be further identified as Exploration Contract 2262 (OME-6689-Silver) with amendments dated July 31, 1968, July 3, 1969 and January 7, 1970.

Therefore, until you hear to the contrary from this office, you may continue to deal directly with Vitro Minerals Corporation as you have in the past.

Very truly yours,

John A. Reeder, Jr.

John A. Reeder, Jr.
Staff Attorney

JAR:JD

CC: E. B. Hotchkiss
Gene K. Ealy

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/7/70	Emerick	120
		120
4/7	cal	220
		120M

APR 7 1970

Memorandum

To: Chief, Branch of Budget and Finance

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed is a copy of the Field Officer's letter of April 2, 1970, forwarding a copy of the Report of Review issued January 1970 to the subject Operator. Also enclosed is a copy of the report for your files.

Harold Kirkemo (gla)

Harold Kirkemo

Enclosures

cc: Director's Reading File
Mineral Resources File
OME Docket
OME ReadingFile
OME Region III
Mr. Emerick
130

WLEmerick/bsl 4/7/70

Office of Minerals Exploration
Building 53 Room 200

April 2, 1970

Mr. William Hall, President
Vitro Minerals Corporation
Subsidiary of Earth Resources Company
720 Equitable Building
730 17th Street
Denver, Colorado 80202

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Hall:

Transmitted herewith is an "Operator's Copy" of a Report of Review on the subject contract prepared by the Audit Operations Office of Survey and Review during January 1970.

I have reviewed the report and concur in the facts as stated in the Report of Review. If, for any reason, you do not concur, the Operator's Copy should be returned to this office with appropriate comments.

Sincerely yours,

J. William Hasler

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

Enclosures
cc: Chief, OME (2)
OME-6689
OME chron
Mr. Hasler

OFFICIAL FILE COPY

Date	Surname	Code
	Martin	
	Long	
	App'd. Sol. Off.	
3/18/70	Emrich	

MAR 1 8 1970

AIRMAIL

Mr. Thomas I. Sharps
Earth Resources Company
720 Equitable Building
Denver, Colorado 80202

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Sharps:

This is in reply to your letter, dated March 2, 1970, requesting clarification of the question whether the Government would require the Operator to complete work on the subject contract.

The Government cannot require the Operator to complete work under this contract. However, certain contractual provisions protecting the Government's interest in the property become effective in the event work is not resumed.

Amendment No. 3, paragraph 3, provides that if work is not resumed upon termination of the present period of work recess, certain provisions become effective. These would include termination of contract obligations, except as otherwise provided, for both parties to the contract as of October 30, 1969, preparation and submittal of the Operator's final report and final account, assumption of obligation by the Operator for payment of royalty on production from the property for a period of 11 years, and preservation of the Operator's records pertaining to the contract. In addition to these provisions of Amendment 3 under Article 9(b) of the contract the Government may avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and demand repayment of all moneys contributed by it under the contract.

We hope you will finish work on this contract. Work completed to date disclosed interesting values in silver, lead, and zinc on the principal vein within less favorable host rock than is expected to be found in the target formation. We agree with your observation that this disclosure warrants deeper testing of the vein in what we consider to be the more favorable host rocks of the San Juan Formation. Also, the attitude of this vein (45° vs. vertical) presents an interesting structural situation which may be important in evaluating the ore potential in this previously unexplored area.

OM, SOLICITOR
AR 2 7 1970
SIGNATURE

Use of the approximately $21,000 of Government funds remaining on the contract to complete the work originally planned may enable you to make a significant discovery of ore. To stop short of completing an adequate test of the veins would be an unwise decision, especially as the chances of success appear to justify the expenditure of funds for the entire project.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy to: Vitro Minerals Corporation

cc: Director's Reading File
Mineral Resources
OME docket
OME Reading File
OME Region III w/cy incoming letter
Mr. Kirkemo

HKirkemo/gla 3-6-70

EARTH RESOURCES COMPANY 720 equitable building · denver colorado 80202 · 303·623·7153

March 2, 1970

OFFICIAL COPY
O. M. E.
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Mr. Harold Kirkemo, Chief
Office of Minerals Exploration
United States Geological Survey
Room 4460, Interior Building
Washington, D.C. 20242

Dear Mr. Kirkemo:

Reference is made to Exploration Contract-Vitro Minerals Corporation-OME 6689.

The management at Earth Resources Company is currently reviewing our plans for the continuation of exploration activities on the Ice Lake project. Mr. Bill Hasler of the Denver office of OME has recommended that we proceed with the drilling during the 1970 field season and he further states that we do not have a great deal of choice in the matter as the OME would require that we complete the contract. Our management has not been able to see this provision in the contract and we would appreciate your clarifying this point.

A stipulated requirement from the OME that we do finish the exploration would preclude another review of the data generated to date and would expedite an early decision regarding the future of this project.

Very truly yours,

Thomas I. Sharps

Thomas I. Sharps

nm

3/20/70
Vitro Minerals
OME 6689

ICE LAKE PROJECT

1970 FIELD SEASON COST ESTIMATE

Diamond drilling:

No. 6B	250 ft.	@ $9.20	=	$ 2,300.00
6C	300 ft.	250 ft. @ $9.20	=	2,300.00
		50 ft. @ $9.50	=	475.00
No. 2B	700 ft.	250 ft. @ $9.20	=	2,300.00
		250 ft. @ $9.50	=	2,375.00
		200 ft. @ $9.85	=	1,970.00
Additional 750 ft.		250 ft. @ $9.20	=	2,300.00
		250 ft. @ $9.50	=	2,375.00
		250 ft. @ $9.35	=	2,462.50
Total				$18,857.50

Moving, rigging up, laying water line, etc. 40 hrs. @ $18 per 2 man crew		$ 720.00
Standby, hole surveys delays caused by Vitro 15 hrs. @ $22 per 2 man crew		330.00
Demobilization		1,225.00
Total Drilling Cost		$21,132.50
Helicopter -- Move in of fuel 14 hrs. @ $125/hr	=	$ 1,750.00
Move in of coal and propane 8 hrs @ $125/hr.	=	1,000.00
Demobilization	=	3,500.00
Total		$ 6,250.00
Pack mules -- 25 trips, 8 mules @ $10/mule	=	$ 2,000.00
Riding horses -- 6 horses, 62 days @ $7/day	=	2,604.00
Total all beasts of burden		$ 4,604.00
Camp and catering -- Camp construction 320 man hrs. @ $5.00	=	$ 1,600.00
Catering -- Cooks wages 9 weeks @ $150/wk	=	1,350.00
Groceries	=	1,840.00
Coal and butane	=	90.00
Total camp costs		$ 4,880.00
Total All Costs		$36,866.50

Total cost per foot $\frac{\$36,866.50}{2,000} = \$16.43$

Assaying - Au, Ag, Cu, Pb, Zn - @ $12.50 — 1,250.00

38,116.50

OME Form 7
(2/63)

OFFICIAL FILE COPY

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2/3/70	Emerick	120
		120
2/3	CAC	220
		120M

FEB 3 1970

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed are two copies of a Report of Review issued January 1970.

If you concur in the facts in the report, the Operator should be sent its copy with appropriate comments. As evidence of your concurrence, two copies of your letter transmitting the Operator's copy of the report should be furnished this office. If for any reason you do not agree, both copies of the report should be returned to this office with your comments.

Harold Kirkemo (glr)
Harold Kirkemo

Enclosures

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick
130

BSLong/1 2/3/70

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

January 22, 1970

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith are the "Government's Copy" and the "Budget and Finance's Copy" of Amendment No. 3 on the above-stated subject, signed for the Government and by the Operator. The Operator has retained the "Operator's Copy" and the "Field Office's Copy" and "Extra Copy for Field Use" has been retained for the Region III OME field office files.

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

Enclosures

See left side

Office of Minerals Exploration
Building 53 Room 200

ORIGINAL
COPY
O. M. E.
JAN 19 1970

January 14, 1970

Mr. Keith H. Elmer, Controller
Vitro Minerals Corporation
720 Equitable Building
730 17th Street
Denver, Colorado 80202

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Elmer:

Enclosed are the original and three copies of proposed Amendment No. 3 (two pages), to the subject contract, signed for the Government.

If the proposed amendment is satisfactory to you, all four copies should be signed by an authorized representative of the company, return all copies of the executed amendment to this office, except the "Operator's Copy" whicy you should retain for your files.

If any part of the proposed amendment does not have your approval, the original and all copies are to be returned to this office together with the proposed changes for consideration.

Sincerely yours,

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

Enclosure
cc: Chief, OME
cc: OME-6689
OME chron
Mr. Hasler

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

ADMINISTRATIVE DISCRETION STATEMENT

Name and Address of Payee: Vitro Minerals Corp.
720 Equitable Bldg.
730 17th St.
Denver, Colo. 80202

Amount Claimed:	Differences (Explained Below)	Amount Approved
Aug. & Sept. 1969 10,823.67 Oct. 1969 41,793.78	34.20	52,583.25 39,437.44 Cov. Part. Less 200.00 * 39,237.44
Voucher No	Payee's Invoice No.	Period
	Docket #6689 Contract #2262	Aug. & Sept. 1969 Oct. 1969

EXPLANATION

Disallowed 32.20 on Aug. & Sept. Vo. for Hole #7 which was not completed until Oct.

Disallowed 2.00 on Oct. Vo. for Cementing & Redrilling. Invoice shows 1,690.00 Claimed 1,692.00

*Withholding 200.00 pending resumption of work.

[illegible] certified copy is [illegible] true on microfilm [illegible] and reported by the original [illegible].

Branch of Budget and Finance

FORM 9-1648
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

RECEIVED DEC 22 1969 INITIALS CODE

Page 4

OPERATOR'S MONTHLY VOUCHER

For Month of October 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St. Denver, Colo 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Category (7) Miscellaneous								
None Exempt								
Assay, 400 samples								
Gold & Silver			46	140.00			46	140.00
Lead & Zinc			46	57.53			46	57.53
Copper (19)			8	12.00			8	12.00
				.53				
Rental of Core Storage space 3 months at $50/month (20)				150.00				150.00
Office Expenses 3 months $75/month (21)				225.00				225.00
Payroll Taxes and Insurance (22)		15.07		575.00		15.07		575.00
Vehicle Rental 2 Vehicles 3 months $30/month each (23)			3 Mo	180.00			3 mo	180.00
Amendment Fixed Unit Cost Tent base camp in Ice Lake Basin Mobilization and Demobilization (24)								
Shelter & Subsistance Personnel @ $10.50 ea. per day 62+ das. (25)	163 da.	1,711.50	860	9,030.00	163	1,711.50	860	9,030.00
TOTALS		$41,793.78		$117,665.29		$~~41,793.78~~ 41,791.73 WDL		$~~117,665.29~~ 117,663.29 WDL

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

Date 11-30-69 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler, OME Field Officer Date 12/10/69

over

(63) 14X0804
31,343.84
200.00 14X6815 (08)

Approved for: $ ~~31,143.84~~ (SUBJECT TO AUDIT)

Signature [signature]

Date 12/22/69 Vou. No. 3827

(SEE OTHER SIDE)

Previous Credit

MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-WFE
12/16/69

OPERATOR'S MONTHLY VOUCHER For Month of October 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St. Denver, Colo. 80203

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH		TO DATE		THIS MONTH		TO DATE	
	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS
Category (1) Drilling		$		$		$		$
Mobilization & Demobilization to staging area, crews & Equip. 3 surface drill units (1)				1,225.00				1,225.00
Mobilization & Demobilization at initial drill sites 3 @ $150.00 each (2)				450.00				450.00
Moving between drill sites & setting up drill rigs 3 Operations @ $150.00 each (3)				450.00				450.00
Diamond Core & Overburden drilling - Rate See Contract (4)								
Drill Hole #1			10'	105.00			10	105.00
			240'	2,004.00			240	2,004.00
			108'	907.20			108	907.20
			142'	1,228.30			142	1,228.30
			105'	913.50			105	913.50
Drill Hole #3A								
@ 10.50	10'	105.00	10'	105.00	10	105.00	10	105.00
@ 8.35	240'	2,004.00	240'	2,004.00	240	2,004.00	240	2,004.00
@ 8.65	250'	2,162.50	250'	2,162.50	250	2,162.50	250	2,162.50
@ 8.95	250'	2,237.50	250'	2,237.50	250	2,237.50	250	2,237.50
@ 9.25	250'	2,312.50	250'	2,312.50	250	2,312.50	250	2,312.50
@ 9.55	34'	324.70	34'	324.70	34	324.70	34	324.70
@ 9.30	167'	1,553.10	167'	1,553.10	167	1,553.10	167	1,553.10
TOTALS		$		$		$		$

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

Date 11-30-69 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hacker OME Field Officer Date 12/10/69

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

FORM 9-1648
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of October 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $145,300.00
Gov't. Participation % 75 $108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg 730 17th St Denver,Colo 80202

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH		TO DATE		THIS MONTH		TO DATE	
	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS
Drilling-Continued		$		$		$		$
Drill Hole #4 @ 10.50	70'	735.00	70'	735.00	70	735.00	70'	735.00
@ 8.35	180'	1,503.00	180'	1,503.00	180	1503.00	180	1503.00
@ 8.65	250'	2,162.50	250'	2,162.50	250	2,162.50	250	2,162.50
@ 8.95	250'	2,237.50	250'	2,237.50	250	2237.50	250	2,237.50
@ 9.25	250'	2,312.50	250'	2,312.50	250	2312.50	250	2,312.50
@ 9.55	157'	1,498.50	157'	1,498.50	157	1,498.50	157	1,498.50
Drill Hole #6A								
@ 10.50	30'	315.00	30'	315.00	30	315.00	30	315.00
@ 8.35	220'	1,837.00	220'	1,837.00	220	1,837.00	220	1 837.00
@ 8.65	250'	2,162.50	250'	2,162.50	250	2162.50	250	2,162.50
@ 8.95	201'	1,798.95	201'	1,798.95	201	1 798.95	201	1 798.95
Drill Hole #7								
@ 10.50	10'	105.00	10'	105.00	10	105.00	10'	105.00
@ 8.35	240'	2,004.00	240'	2,004.00	240	2004.00	240	2,004.00
@ 8.65	250'	2,162.50	250'	2,162.50	250	2162.50	250	2 162.50
@ 8.95	250'	2,237.50	250'	2,237.50	250	2,237.50	250	2 237.50
@ 9.25	250'	2,312.50	250'	2,312.50	250	2 312.50	250	2,312.50
@ 9.55	200'	1,910.00	200'	1,910.00	200	1,910.00	200	1 910.00
Drill Hole #8			10'	105.00	10		10	105.00
			240'	2,004.00			240	2,004.00
			250'	2,162.50			250	2,162.50
			230	2,058.50	3		230	2 058.50
Total Drilling Cost		37,993.25		49,481.25				
Reaming & Casing (5)			70'	385.00			70	385.00
Cementing and Redrilling (6)	65 hrs	1,692.00		5,200.00	65	1650.00 ~~1,642.00~~	200	5198.00 ~~5,200.00~~
Casing lost in completed holes (7)								
TOTALS		$		$		$		$

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

Date 11-30-69 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Taylor OME Field Officer Date 12/10/69

Approved for: $
(SUBJECT TO AUDIT)

Signature

Date Vou. No.
(SEE OTHER SIDE)

FORM 9-516
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of October 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St. Denver, Colo 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Drilling - Continued								
Core Boxes, cardboard (8)				585.00				585.00
Cement, drill muds additives (9)				401.96				401.96
Surveying with in-hole instruments (10)				1,028.84				1,028.84
Transportation								
Helicopter Time (11)			180	22,500.00			180	22,500.00
Helicopter Time (12)			87-2/3	10,081.71			87 1/3	10,081.71
Saddle Horses 4 @ $6.50/day each			372	2,418.00			372	2,418.00
Shelter & Subsistance								
Tent base camp (14)								
Camp & Board 17 personnel @ $10.50/ea per day 30+ days (15)			517	5,439.00			517	5,439.00
Category (2) ~~Personal Services~~								
None Exempt								
Sub-Category (A) Supervision & Technical Service (16)			66	3,000.00			66	3,000.00
Geologist (17)			73	2,850.00			73	2,850.00
Field Assts. (18) (George Ambariantz)	14	381.96	66	1,800.00	14	381.96	66	1,800.00
TOTALS		$		$		$		$

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

Date 11/30/69 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hooper, OME Field Officer Date 12/10/69

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

November 13, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 17 1969

INITIALS	CODE
bel	200 M
HK	120
	200

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith are the original and two copies of Form 9-1648 (Operator's Monthly Voucher) for the months of August and September, 1969 for the above-captioned subject, recommended for payment.

J. William Hasler
me

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

Enclosures

20 B+F 12/5

OFFICIAL COPY O. M. E. RECEIVED DEC 22 1969 INITIALS CODE

GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of August & September

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $145,300.00
Gov't. Participation %75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St. Denver, Colo. 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Category (2) Personal Servic es Continued								
Geologist (17)	14 da	302.38 73		2,850.00	7	302.26	66	2,849.85 2,850.00
Field Asst. (18)	15 da	409.05	52	1,418.04	15	409.05	52	1,418.04
Category (7) Miscell. None Exempt								
Assay 400 samples								
Gold & Silver			46	140.00			46	140.00
Lead & Zinc			46	57.53			46	57.53
Copper (19)			8	12.00			8	12.00
Rental of Core Storage space 3 months at $50/month (20)				150.00				150.00
Office Expenses 3 months $75/Month (21)				225.00				225.00
Payroll Taxes and Insurance (22)		77.41		559.93		77.41		559.93
Vehicle Rental 2 vehicles 3 months $30/month each (23)			3 mo.	180.00			3	180.00
Amendment Fixed Unit Cost Tent base camp in Ice Lake Basin mobilization & Demobiliation (24)								
Shelter & Substance (25) Personnel $10.50/each per day 62+days	407 da	4,273.50	697 da	7,318.50	407	4,273.50	697	7,318.50
TOTALS		$ 10,823.67		$ 75,903.71		$10,799.85		$ 75,871.36

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

Date 10-31-69 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler OME Field Officer Date 11/4/69

See other side (63)14X0804

Approved for: $ 8093.60 (SUBJECT TO AUDIT)

Signature [signature]

Date 12/22/69 Vou. No. 3827 (SEE OTHER SIDE)

3

1/- allow $3,248.00 for [illegible] handling on time to allow for cement to set is an inherent part of cementing or drilling.

2/ Disallow $32.20 for carry load in DDH No 7; as hole No 7 was not completed until October - out

3/ Allow only 7 days for [illegible] at $43.18 or $302.26.

4/ Operator entitled to $302.38 as claimed. Actual time worked more than 7 days. WTE

GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER For Month of August & September

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bld. 730 17th St. Denver, Colo. 80202

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH Period Aug. & Sep. UNITS	COSTS	TO DATE UNITS	COSTS	THIS MONTH UNITS	COSTS	TO DATE UNITS	COSTS
		$		$		$		$
Drilling-Continued								
Casing lost in completed holes (7)		32.20		32.20	—	—	—	— 21
Core Boxes, cardboard (8)				585.00				585.00
Cement, drill muds additivies (9)		226.34		401.96		226.34		401.96
Surveying with in-holes instruments (10)		654.84		1,028.84		654.84		1,028.84
Transporation Helicopter Time (11)		(	180	22,500.00			180	22,500.00
Helicopter Time (12)			87 2/3	10,081.71			87 2/3	10,081.71
Saddle Horses (13) 4@6.50/day each	151H.Da	981.50	372	2,418.00	151	981.50	372	2,418.00
Shelter & Subsistance Tent base camp (14)								
Camp & Board 17 personnel @10.50/each per day 30 days (15)			517	5,439.00			517	5,439.00
Category (2) ~~Personal Services~~ None Exempt Sub=category (A) Supervision & Technical Service (16)	7 da.	318.45	66	3,000.00	7	318.45	66	3,000.00
TOTALS		$		$		$		$

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

Date 10-31-69 *Payee ~~VITRO MINERALS CORPORATION~~

Per [signature] Title Controller

*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.

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(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____
(SUBJECT TO AUDIT)

Signature _____

Date _____ Vou. No. _____
(SEE OTHER SIDE)

MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-WTE
12/16/69

OPERATOR'S MONTHLY VOUCHER

For Month of August & September, 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St, Denver, Colo. 80202

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A) Period Aug. & Sept.	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Category (1) Drilling		$		$		$		$
Mobilization & Demobilization to staging area, crews, & Equip. 3 surface drill units (1)				1,225.00				1,225.00
(1) Mobilization & Demobilization at initial drill sites 3 @150.00 each (2)				450.00				450.00
Moving between drill sites & setting up drill rigs 3 Operts. @$150.00 each (3)		300.00		~~450.00~~		300.00		450.00
Diamon d Core & Overburden drilling-Rate See Contract Drill Hole #-1 (4)			10'	105.00			10	105.00
			240'	2,004.00			240	2,004.00
			108'	907.20			108	907.20
			142'	1,228.30			142	1,228.30
			105'	913.50			105	913.50
Drill Hole #8 (4)			10'	105.00			10	105.00
			240'	2,004.00			240	2004.00
			250'	2,162.50			250	2,162.50
			230'	2,058.50			230	2058.50
Reaming & Casing (5)			70'	385.00			70'	385.00
Cementing and Redrilling (6)		3,248.00		3,508.00		3,248.00		3,508.00 +1
TOTALS		$		$		$ ~~10,791.35~~		$ ~~75,871.39~~

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

Date 10-31-69 *Payee Vitro Minerals Corporation

Per [signature] Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler 11/1/69
OME Field Officer Date

see page 3

Approved for: $
(SUBJECT TO AUDIT)

Signature

Date Vou. No.
(SEE OTHER SIDE)

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

October 31, 1969

OME Region III
RECEIVED
NOV 3 X 1969
Denver, Colorado

Mr. William Hasler
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado

Dear Mr. Hasler:

I am enclosing the Operators Monthly Voucher covering expenditures for the month of August and September 1969 under OME Contract 2262 Docket Number 6689 requesting approval and reimbursement of $8,117.75 covering seventy-five (75%) percent of expenditures totaling $10,823.67.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer

Keith H. Elmer
Controller

KHE:rm
Enclosures

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

October 31, 1969

Mr. William Hasler
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado

Dear Mr. Hasler:

During the months of August and September we did not complete any drill holes and I certify the costs billed are supporting costs to the drilling program under Docket Number OME 6689, Contract 14-08-001 2262.

At such time the drill holes are completed we will submit reimbursement for OME participation with supporting documents.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm
Enclosures

SPRAGUE & HENWOOD, Inc.

SCRANTON 2, PA., U. S. A.

S&H SINCE 1883

C 12552

ADDRESS ALL COMMUNICATIONS
TO MAIN OFFICE
BOX 2556
Salt Lake City, Utah 84110

CONTRACTORS FOR
DIAMOND DRILLING
SHOT DRILLING - SOIL SAMPLING - PRESSURE GROUTING
WATER WELLS - CHURN DRILLING

RECEIVED SEP 30 1969 VITRO MINERALS CORPORATION

Vitro Minerals Corporation
720 Equitable Building
17th & Stout Streets
Denver, Colorado 80202

LOCATION

Tom Sharps
% Anthony Krinock
P. O. Box 681
Silverton, Colorado 81433
VIA.

INVOICE DATE	INVOICE NO.	YOUR ORDER NO.	ORDER DATE	TERMS:	CONT. NO.	ENTERED BY:
9-9-69	C 12552	Proposal	4-29-69	NET CASH NO DISCOUNT ALLOWED		

DESCRIPTION

To Charges Account Drilling - Ice Lake, Colorado Project - Period Ending 8-31-69.

Item 3. Core Drilling

Hole No. 3					
(917 - 1000)	83'	BX	@	$ 9.25/ft.	$ 767.75
(1000 - 1034)	34'	BX	@	9.55/ft.	324.70
Hole No. 4					
(681 - 703)	22'	BX	@	8.95/ft.	196.90
(Redrill 406 - 472)	66'	BX	@	8.65/ft.	570.90
Hole No. 7					
(727 - 750)	23'	BX	@	8.95/ft.	205.85
(750 - 1000)	250'	BX	@	9.25/ft.	2,312.50
(1000 - 1167)	167'	BX	@	9.55/ft.	1,594.85

APPROVED FOR PAYMENT 10-30-69 Robert F. Schoop

USE TAX	FREIGHT	PRICE & FOB CHECKED	INVOICE CHECKED

VOUCHER	DISTRIBUTION ACCOUNT	AMOUNT
8422		
ed ctr 1969	550.95.1.100	10064.99

Item 5. Cementing and drilling out cement

Hole No.	Date	Hours
4	8-10	2
4	8-19	7
4	8-20	12
4	8-22	12
3	8-23	5
4	8-23	3
3	8-26	12
		53 hours

53 hours @ 26.00/hour 1,378.00

LE 8.30 10 a/c 200.01

continued page 2

I CERTIFY THIS TO BE A TRUE COPY.
BY

AGUE & HENWOOD, INC.

SECOND SHEET INVOICE

Vitro Minerals Corporation
Denver, Colorado 80202

Invoice No. C 12552
September 9, 1969

Item 6. Laying Water Lines, Etc.

Date	Hours		
8-5	9	(Elmer)	
8-5	12	(Schlottman)	
8-6	11	(Elmer)	
8-6	11	(Schlottman)	
8-7	4	(Loddy and helper)	
8-8	2	(" ")	
	43 hours	@ 9.00/hr.	387.00
	6 hours	@ 18.00/hr.	108.00

Item 7. Standby, Waiting for Cement to Set, Hole Surveys

Cementing time

Date	Hole No.	Hours
8-9	3	6
8-9	4	4
8-12	7	3
8-19	4	5
8-19	7	4
8-20	8-20	5
8-21	4	6
8-22	3	11
8-23	3	5
8-24	4	12
8-24	3	12
8-25	3	12
		85
	85 hours	@ 22.00/hr. 1,870.00

Item 8. 100 BX Core Boxes @ 0.90 each 90.00

Item 9. Casing Left in Holes

Hole No. 7
10' NX @ 33.90/10' joint less 5% 32.20

Condition 2.

Mud, Cement, Additives

Halliburton	#24592	93.59
Halliburton	#24583	78.79
Independent Lbr. Co.	#15020	43.98
Carl D. Curtis Co	#12387	2.29
" "	#14132	7.69
		$10,064.99

I CERTIFY THIS TO BE A TRUE COPY.
BY [signature]

Checked against daily log and OK for payment — Thomas J. Sharpe

	Sharpe, T.	Ambrosini,	Hrinoch, A.	Ranson, G.	Hussard, G.	Hussard, C.	Davis, F.	Ramse D.	Fleming, T.	Fleming, W.	Holman, R.	Patterson L.	
1	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	
2	✓	✓	✓	✓	✓	✓			✓	✓	✓		
3	✓	✓	✓	✓	✓	✓			✓	✓	✓		
4	✓	✓	✓	✓	✓	✓			✓	✓	✓		
5	✓	✓	✓	✓	✓	✓			✓	✓			
6	✓	✓	✓	✓	✓	✓	✓		✓	✓			
7	✓	✓	✓	✓	✓	✓	✓		✓	✓			
8	✓	✓	✓	✓	✓	✓	✓		✓	✓			
13	✓	✓	✓	✓	✓	✓	✓		✓	✓			
14	✓	✓	✓	✓	✓	✓	✓		✓	✓			
15	✓	✓	✓	✓	✓	✓	✓						
16	✓	✓	✓	✓	✓	✓	✓						
17	✓	✓	✓	✓	✓		✓						
20	✓	✓	✓	✓	✓		✓	✓					
21	✓	✓	✓	✓	✓		✓	✓					
22	✓	✓	✓	✓	✓		✓	✓					
23	✓	✓	✓	✓	✓		✓	✓					
24	✓	✓	✓	✓	✓		✓	✓					
25	✓	✓	✓	✓	✓		✓						
26	✓	✓	✓	✓	✓		✓						
27	✓	✓	✓	✓	✓		✓						
Total Days	21	21	21	21	21	12	16	5	10	10	4	1	163 days

I CERTIFY THIS TO BE A TRUE COPY.

BY [signature]

Vita Minerals Corporation
Schedule October 1969 Board & Room
Ice Lake Project

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

December 2, 1969

OME Region III
RECEIVED
DEC 3 - 1969
Denver, Colorado

Mr. William Hasler
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado

Dear Mr. Hasler:

I am enclosing the Operator's Monthly Voucher for the month of October 1969 with supporting documents covering the expenditures billed. The drilling covers the period of 1968 and 1969 operations. We are unable to bill the costs incurred in prior months because the holes were not completed until the month of October.

We are also enclosing the monthly Engineers Geological Report as called for under the Contract Number 2262 OME Docket 6189.

I certify that the supporting documents and costs billed are true and applicable to the Contract.

I am requesting reimbursement of seventy-five (75%) of the current months cost of $41,793.78.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm
Enclosures

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/7/70	Kirkemo	120
1/7/70	Kilsgaard	
		220
		120M

JAN 7 1970

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Corporation of America
Ice Lake Project
San Juan, San Miguel Counties, Colorado
Contract 2262

Enclosed are the original and three copies of proposed Amendment No. 3 (two pages), to the subject contract, signed for the Government. An extra copy of the amendment is also enclosed for field use.

If the proposed amendment is satisfactory to you and the Operator, all four copies should be signed by an authorized representative of the Operator and distributed in the usual manner.

If any part of the proposed amendment does not have your approval or that of the Operator, the original and all copies are to be returned to this office together with the proposed changes for consideration.

Harold Kirkemo (gln)

Harold Kirkemo

Enclosures

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick
130

BSLong/1 1/7/70

6

REFERENCE SLIP

OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. Assoc. Sol. MR, Rm. 6054, Int. (Through Room 6042)		
2. Mr. Emerick, Rm. 4460, Interior		
3.		
4.		
5.		
FROM: Chief, OME		

FOR: Check items for action desired

X Action	____ Reply for signature of ____	
X Approval	____ Investigate	____ Surname
____ Comment	____ Recommendations	____ Signature
____ Conference	X Rewrite	____ File
____ Instructions	Your information	

REMARKS:

OME-6689 Vitro Minerals Corporation

(Proposed Amendment No. 3)

SOLICITOR

DEC 22 1969

INTERIOR DEPT.

23862.3123

INT.-DUP. SEC., WASH., D.C. M50943

[redacted]

To Legal 12/24

120 Emerick

120 Kirkham

120M

DRAFT 12/23/69
WLEMERICK/bsl

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

Amendment No. 3

It is agreed this _____ day of _____, 1969, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, Office of Minerals Exploration, hereinafter referred to as the "Government," and Vitro Minerals Corporation, hereinafter referred to as the "Operator," that Exploration Contract 2262 (OME-6689), dated July 31, 1968, as amended, is further amended effective October 29, 1969, as follows:

1.(a) Work under the contract may be suspended during the period beginning October 30, 1969, and ending not later than July 15, 1970.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government.

(c) The Government shall not contribute to any cost of rehabilitation or repair incurred by the Operator which in its opinion would not have occurred had there been no suspension of work.

(d) 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.

2. The date fixed in Amendment No. 1 of the contract for completion of the work is further extended from 24 to 27 months from the date of the contract, or until October 31, 1970.

3. It is the essence of the contract that the work be resumed on or before the termination of the period herein fixed for suspension, and if not so resumed, the following provisions shall thereupon become effective:

(a) The contract and all obligations of the parties thereunder, except as hereinafter otherwise provided herein, shall be and are hereby terminated effective October 30, 1969, if the work has not been resumed on or before July 15, 1970.

(b) The Government will contribute only to the allowable costs incurred prior to October 30, 1969. the date set forth in 3(a) above.

(c) 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.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay to the Government the royalty on production provided for in the contract in the same manner and amount and for the same period as if certification of possible production had been made by the Government pursuant to Article 7

of the contract, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the contract with respect to certification of possible production, royalties on production and liens to secure the payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayments are hereby preserved.

This amendment shall not be construed to increase the estimated total cost of the contract, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, nor the fixed unit cost of any item of work.

Executed in quadruplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By_____
Chief, Office of Minerals Exploration
U. S. Geological Survey

VITRO MINERALS CORPORATION

By_____

Title_____

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 22 1969

December 12, 1969

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

The Operator, in a letter dated December 2, 1969 that accompanied the October 1969 voucher, requested an amendment to the subject contract to allow for a recess in operations from November 1, 1969 to July 15, 1970 due principally to inclement winter weather conditions at elevations above 10,000 feet above sea level.

The Operator completed two diamond drill holes in October, 1969 during extremely inclement and hazardous weather conditions, during which time the bunk house in Ice Lake Basin was blown down, and virtually demolished, luckily no one was injured.

Exploration work completed to date under the subject on the Lucy-Last Hope, Diamond and the Columbia-Grand View veins consists of the completion of diamond drill hole numbers 1, 3a, 4, 6, 7 and 8 for a total footage of 5,594 feet. Operational problems, have been numerous both from a labor and equipment standpoint as well as drilling and geological.

The Diamond vein was not intersected by drill hole Nos. 3A, and 4, indicating that vein dips northeasterly rather than southwesterly as was originally postulated.

The Lucy-Last Hope vein was intersected by diamond drill hole Nos. 1, 8, 6a and 7, thus exploring the vein for a distance along its strike for some 3,600 feet, however, in only drill hole (6a) was

any significant mineralized material penetrated. The vein zone at this intersection was as wide as 22 feet, and a two-foot zone within the 22 feet assayed 19.6 oz. Ag, 0.25 oz. Au, 6.29% Zn, 4.22% Pb and 0.30% Cu. Other samples within the vein zone assayed lesser amounts as shown in the October geologic report. Drill holes 6a, and 7 show the Lucy-Last Hope vein to dip southwesterly at a much flatter degree than was originally postulated, however, a review of the geologic logs shows some brecciation and faulting deeper in the hole, and may indicate a split in the vein or possibly some parallel structure. A thorough study of these structures should be made prior to the commencement of drilling next spring.

The Operator has completed a total of 5,594 feet of diamond drilling out of an allowed total of 7,500 feet leaving a balance of 1,906 feet that may yet be drilled to further explore the Lucy-Last Hope veins. It is advisable that the balance of footage be used to further define and test especially, the Lucy-Last Hope vein at depth.

The company has expended $117,665.29 of a total estimated cost of $145,300.00, of which the Government's contribution would be $108,975.00 on a 75 percent participation basis.

It is therefore recommended that an amendment be prepared and executed to recess the project as requested.

J. William Hasler

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

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

Dec ember 2, 1969

OME Region III
RECEIVED
DEC 3 - 1969
Denver, Colorado

Mr. William Hasler
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado

Re: OME 6689
Contract 2262
Ice Lake Project
San Juan & San Miguel
Counties, Colorado

Dear Mr. Hasler:

The purpose of this letter is to notify you that Vitro Minerals Corporation has recessed operations under OME Docket 6689, Contract Number 2262 on the Ice Lake Project, San Juan and San Miguel Counties, Colorado on October 30, 1969.

Suspension of operations was due to adverse weather conditions in the area.

We are requesting your approval for recess in the operations from November 1, 1969 to July 15, 1970.

Thank you for your contribution.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm
bcc: Mr. Gene Ealy
Mr. Robert Schryver

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

December 13, 1969

OFFICIAL COPY
O. K. E.
DEC 18 1969

Mr. Harold Kirkino
Office of Minerals Exploration
U. S. Geological Survey
Room 4460 Interior Building
Washington D. C. 20242

Dear Mr, Kirkino:

Mr. Hasler requested that I forward to you supporting documents covering salaries, payroll taxes and subsistance to the costs billed for the months of August, September and October 1969. These were billed under Docket No. OME 6689, Contract 14-08-0001 2262.

The copies enclosed outline the individuals and dates they were furnished board and room and would fall under the subsistance allowance of $10.50 each. You will find that the columns are totaled and the corresponding days are reflected on the monthly billing statement.

In reference to the payroll Mr. Thomas Sharps is the Supervisor on the project and the days corresponding with his board and room are charged on the billing until the maximum participation was used up. Mr. Bob Rogers was the Geologist on the job and the days shown on the board and room corresponds with the days charged for personnel opposite geologist costs. Mr. George Ambariantz was the Field Assistant and he also has been charged according to the number of days shown on the board and room schedule.

In reference to the payroll taxes this has been billed as a fixed percentage of personnel services charged.

Trusting this will give you the information to approve the two vouchers submitted for OME participation exploration costs.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm
Enclosure
cc; Mr. William Hasler

	20 days	Aug 27 D	L	B	Aug 26 D	L	B	Aug 25 D	L	B	MEALS
Supervising	20	X	X	X	X	X	X	X	X	X	Tom Sharps
Geologist	20	X	X	X	X	X	X	X	X	X	Bob Rogers
	20	X	X	X	X	X	X	X	X	X	Blain Downen
	20	X	X	X	X	X	X	X	X	X	Terry Nisson
	20	X	X	X	X	X	X	X	X	X	Tony Krine
	20	X	X	X	X	X	X	X	X	X	George Ranger
	20	X	X	X	X	X	X	X	X	X	Dave Schlottman
	19	X	X	X	X	X	X	X	X	X	D.O. Laddy
	20	X	X	X	X	X	X	X	X	X	Keith Elmer
	10	X	X	X	X	X	X	X	X	X	Tom Fleming
	10,4	X	X	X	X	X	X	X	X	X	Charles Palmer
	2	O	O	O	O	O	O	O	O	O	Dave Brewer
											Mark Wilson

215 days
[illegible]

August 1969

	Aug 4			Aug 5			Aug 6			Aug 7			Aug 8			Aug 9			Aug 10			Aug 11			August 12		
MEALS	L	D	B	L	D	B	L	D	B	L	D	B	L	D	B	L	D	B	L	D	B	L	D	B	L	D	B
Tom SHARPS	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bob Rogers	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Blair Downer	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Terry Nisson	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tony Krincek	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
George Ranger	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dave Schlottman	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
D.D. Laddy	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Keith Elmer	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tom Fleming	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Charles Palmer	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Dave Brewer	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mark Wilson	○	○	X	X	X	X	X	X	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

RECEIVED
OCT 5 1969
VITRO MINERALS CORPORATION

	Sharpe, T.	Barbaranz, G.	Hitzock, A.	Ranger, G.	Hubbard, G.	Hubbard, C.	Davis, F.	Ranse D.	Fleming, T.	Fleming, W.	Hulman, R.	Patterson L.
1	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
2	✓	✓	✓	✓	✓	✓			✓	✓	✓	
3	✓	✓	✓	✓	✓	✓			✓	✓	✓	
4	✓	✓	✓	✓	✓	✓			✓	✓	✓	
5	✓	✓	✓	✓	✓	✓			✓	✓		
6	✓	✓	✓	✓	✓	✓	✓		✓	✓		
7	✓	✓	✓	✓	✓	✓	✓		✓	✓		
8	✓	✓	✓	✓	✓	✓	✓		✓	✓		
13	✓	✓	✓	✓	✓	✓	✓		✓	✓		
14	✓	✓	✓	✓	✓	✓	✓		✓	✓		
15	✓	✓	✓	✓	✓	✓	✓					
16	✓	✓	✓	✓	✓	✓	✓					
[illegible]	✓	✓	✓	✓	✓		✓					
20	✓	✓	✓	✓	✓		✓	✓				
21	✓	✓	✓	✓	✓		✓	✓				
[illegible]	✓	✓	✓	✓	✓		✓	✓				
23	✓	✓	✓	✓	✓		✓	✓				
24	✓	✓	✓	✓	✓		✓	✓				
25	✓	✓	✓	✓	✓		✓					
26	✓	✓	✓	✓	✓		✓					
27	✓	✓	✓	✓	✓		✓					
Total Days	21	21	21	21	21	12	16	5	10	10	4	1

163 days

Vitro Minerals Corporation
Schedule October 1969 Board Room
Lee Lake Project

Area II Team

Sept 1969

SEP	TOM SHARPS	GEORGE AMBARINTI	BLAIR DOCKNER	Robert Rogers	TERRY NISS	Kelly Elmer	TOM KRIMODI	GEORGE RANGER	TOM Fleming	CHAS PALMER	ROGER HOLMAN	WILLIS Fly	Jerry SHUMWAY	LYNA Patterson	Lyna Patterson	Glen Hubbard	Carl Hubbard
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Corp Hill													HOSP Pay Day			Join 9-16-69	Join 9-16-69

Tom Sharps	
Robert Rogers	Left 9-6-69 to Return to College
Blair Dowder	
George Ambariants	
Terry Hess	
Torey Krunock	
Dean Loddy	Quit PM - 9-5-69 — X — In Court
George Rawger	
Tom Fleming	
Charles Palmer	
Roger Holmann	
Todd Stoddard	
Keith Elmer	To College 9-15-69
Charlie Lemon	Hired & Quit 9-5-69 — XX
Bruce Warlock	Bob Schrieber - Boss — XXXX
~~Bob Schrieber~~	Hired 9-4-69 - Walked off hill AM of 9-6-69 Bruce Warlock
J.D. Hotchkiss	Big Boss — XXXX — Second Visitation

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

November 11, 1969

OME Region III
RECEIVED
NOV 12 1969
Denver, Colorado

Mr. William Hasler
Office of Minerals Exploration
U. S. Geological Survey
Federal Center
Denver, Colorado

Dear Mr. Hasler:

We are enclosing new copies of the invoice billings from Chattanooga Ranch covering horses rented and used on the Ice Lake Project.

These are to replace the ones previously submitted with expense statement for the months of August and September per your telephone conversation of this date.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm
Enclosures

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OFFICIAL COPY
O. M. E.
RECEIVED
OCT 29 1969

INITIALS	CODE
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Wel	120
	120
WE	~~120~~

ONE 6689

Suit

PLEASE ACKNOWLEDGE the following statement of your account which is sent to you at the request of our auditors, Lybrand, Ross Bros. & Montgomery, The Daly Building, Sixteenth Avenue at Sherman Street, P.O. Box 1829, Denver, Colorado 80201. It is for audit purpose only and should not be considered a request for payment.

Please sign the statement if correct, and mail it in the enclosed envelope. If not correct please give particulars of any differences.

William Hurter
Field Office Receivers
Office of Minerals Exploration
Federal Center
Denver, Colorado

In account with

Utah Minerals Corporation

		DR.	CR.
File in docket	Balance 8/31/69	30125 36	
~~Where is it?~~ WE			

This statement is correct at .....

.....
(Signature)

NOTE—Remittances should not be sent to the auditors

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 22 1969
INITIALS | CODE
gla / 20
Bol / 20
HK / 20
TOT / 170

October 21, 1969

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Corporation of America
Ice Lake Project
San Juan, San Miguel Counties, Colorado
Contract 2262

An interim inspection of the Ice Lake Project was made on October 14 and 15, 1969 by the Field Officer, Region III in company with Mr. Thomas Sharps, Project Manager and Mr. George Ambariantz, geologist for the Operator. Recent repeated heavy snows at elevations above 11,000 feet above sea level have made surface diamond drilling operations extremely difficult but it is hoped that the footage remaining to be drilled on holes 4 and 6 can be completed this fall.

Below is a review of the exploration work completed under the subject contract as of October 15, 1969:

DRILL HOLE NO. 1

Objective: To explore for the downward extension of the Lucy-Last Hope vein on the southeast side of the intersection between the Lucy-Last Hope vein and the Diamond vein some 150 feet northwest of Fuller Lake.

The hole was drilled to a total depth of 605 feet. The Lucy-Last Hope vein was penetrated at a depth of 333.5 feet, indicating the vein has a dip of 67° S. 44° W. in the vicinity of drill hole No. 1. ?

Assay determinations made on sludge samples taken between 333 and 336 feet shows only minor amounts of gold and silver, indicating that the Lucy-Last Hope vein feathers out southeastward, beyond its junction with the Diamond vein.

DRILL HOLE 2 AND/OR 2A

Will not be drilled until next summer (1970), and, as indicated in the contract, may be drilled only if drill hole No. 4 indicates that the Diamond vein is found to dip to the northwest, or proves encouraging otherwise.

DRILL HOLE 3A

Objective: To explore the Diamond vein at depth, southwest of Fuller Lake

Drill hole 3A had been drilled to a depth of 917 feet as of July, 1969 and has since been completed to a total depth of 1200 feet, according to the Operator's project geologist, and has penetrated no distinct vein material from the Diamond vein, however, some mineralized material was penetrated in a highly altered zone between 188 and 192.5 feet where the core recovered assayed as much as 4 oz. silver per ton. This mineralized material was in the footwall of the vein as well as being in the Silverton volcanics, considerably above the San Juan formation. This would indicate, from the section (Fig. 1) accompanying the July 1969 voucher, that the Diamond vein may have an easterly dip, at least locally.

DRILL HOLE NO. 4

Objective: To explore the Diamond vein some 900 feet northwest of the drill hole No. 3 target area.

The Operator's report covering the period from September 1, 1960 to October 3, 1968 indicated that a quartz vein penetrated at a depth of 600 feet contained some tetrahedrite, however, circulation was lost, and drilling was then suspended. Assays of the material indicated there were only minor amounts of silver and gold. This may or may not have been the Diamond vein, consequently the Operator elected to deepen the hole to insure them of the location of the Diamond vein at depth. It is hoped drill hole No. 4 can be completed this fall, however, recent persistent heavy snow storms, at high elevations (12,000 - 13,000+ feet above sea level) may prevent completion of drill hole No. 4.

Drill hole No. 4 was drilled beyond 600 feet and was deflected downward at about 500 feet, and would have missed the vein entirely. The hole was then whipstocked and at the time of the interim inspection on October 15, 1969 was at a depth of 1152 feet, with a total depth anticipated of 1225 feet.

DRILL HOLE NO. 5

Objective: To further explore the Diamond vein and/or the Lucy-Last Hope near the junction of these two veins.

If drill hole No. 6 proves encouraging drill hole No. 5 should certainly be drilled. Mr. Sharps feels it is a very critical hole and relates to the entire project and should be drilled in any instance. This hole has not yet been drilled and is scheduled for completion next spring.

DRILL HOLE NO. 6

Objective: To explore the Lucy-Last Hope vein north of the intersection with the Diamond vein.

The drill hole had been drilled to a depth of 427 feet as of October 15, 1969 leaving approximately 123 feet yet to be drilled to an estimated total depth of 550 feet.

DRILL HOLE NO. 7

Objective: To explore the downward extension of the Lucy-Last Hope vein nearly 1200 feet southeast of the drill hole No. 8 target area.

The drill hole was completed to a total depth of 727 feet. The contact between the Silverton Volcanics and the San Juan Tuff was at a depth of 575 feet. There was no vein-type mineralized material penetrated in drill hole No. 7, except for finely disseminated pyrite.

DRILL HOLE NO. 8

Objective: To intersect the Lucy-Last Hope vein at depth at its most northwestern extremity SE of Pilot Knob.

The intensely altered zone adjacent to and on the hanging wall side of the Lucy-Last Hope vein was intersected at a depth of 594 feet. From this depth the drill passed through a sequence of highly altered, mineralized breccia, massive quartz vein material, more highly altered mineralized breccia and eventually, at 623 feet, the drill re-entered barren country rock which appeared to be of the San Juan Formation. The true thickness of the vein as illustrated in figure 3 is approximately 6 feet, and when the intensively altered wall rock on the hanging and footwall sides of the vein are taken into consideration, the true thickness of the lode is 21.5 feet. The zone of alteration on the footwall side is quite thick and measures 13 feet, whereas on the hanging wall, it is approximately 2.5 feet thick. Assays?

J. William Hasler

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

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

September 17, 1969

to B&F 9/22

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 19 1969

INITIALS	CODE
	130
bal	120
	120
	120

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver-Gold)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith are the original and two copies of Form 9-1648 (Operator's Monthly Voucher) for the months of June and July, 1969 on the above-stated subject recommended for payment.

J. William Hasler
mc

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

Enclosures

FORM 9-1048
MARCH 1968

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 26 1969
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

ok. WE
9/22/69

OPERATOR'S MONTHLY VOUCHER

For Month of June & July 1969

Docket No. OME- 6689
Contract 14-08-0001 (2262)
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th Street
Denver, Colorado 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Category (2) Personal Services Continued								
Geologist (17)	23 da	993.14	59 day	2,547.62	23	993.14	59	2,547.62
Field Assts. (18)			37 da	1,008.99			37	1,008.99
Category (7) Miscellaneous None Exempt								
Assay, 400 samples								
Gold & Silver			46	140.00			46	140.00
Lead & Zinc			46	57.53			46	57.53
Copper (19)			8	12.00			8	12.00
Rental of Core Storage space 3 months at $50/month (20)				150.00				150.00
Office Expenses 3 months $75/Month (21)				225.00				225.00
Payroll Taxes and Insurance (22)		153.21		482.52				482.52
Vehicle Rental 2 Vehicles 3 months $30/month each (23)	2/3 Mo	48.00	3 Mo	180.00	2/3	48.00	3 mo	180.00
Amendment								
Fixed Unit Cost Tent base camp in Ice Lake Basin Mobilization and Demobilization (24)								
Shelter & Subsistance (25) Personnel @$10.50 each per day 62+ days	290	3,045.00	290	3,045.00	290	3,045.00	290	3,045.00
TOTALS		$ 15,053.41		$ 65,080.04		$ 15,053.41		$ 65,080.04

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

Date 9-2-1969 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

*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.

Approved as noted, subject to field examination and audit.

Signature J. William Hasler, OME Field Officer Date 9/15/69

11,290.06 (63) 14X0804
200.00 14X6875(08)

Approved for: $ 11,490.06
(SUBJECT TO AUDIT)

SEP 25 1969

01860

Release $200.00 withheld last winter. JWA

Last item on Page 3 under shelter & subsistence should have been shown on Page 2 under same item. JWA.

FORM 9-1048
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER For Month of June & July 1969

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St. Denver, Colo 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH Period June & July 1969 UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Drilling -Continued								
Casing lost in completed holes (7)								
Core Boxes, cardboard (8)	200	180.00		585.00	200	180.00	650	585.00
Cement, drill muds additives (9)				175.62				175.62
Surveying with in-hole instruments (10)			17 hr	374.00				374.00
Transportation Helicopter Time (11)	56.5	7,062.50	180	22,500.00	56.5	7,062.50	180	22,500.00
Helicopter Time (12)	21.967	2,526.21	87.2/3	10,081.71	21.967	2,526.21	87.66	10,081.71
Saddle Horses 4 @$6.50/day each			221	1,436.50			221	1,436.50
Shelter & Subsistance Tent base camp (14)								
Camp & Board 17 personnel @$10.50/ea per day 30 days (15)			517	5,439.00			517	5,439.00
Category (2) Personal Services								
None Exempt								
Sub-category (A) Supervision & Technical Service	23 days	1,045.35	59da	2,681.55	23	1,045.35	59	2,681.55
TOTALS		$		$		$		$

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

Date 9=2-1969 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

*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.

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____
(SUBJECT TO AUDIT)

Signature _____

FORM 9-1068
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OME Region III RECEIVED SEP 4 - 1969 Denver, Colorado

OPERATOR'S MONTHLY VOUCHER For Month of June & July 1969

Docket No. OME- 6689
Contract No. 14-08-0001- 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th St Denver, Colo 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH (Period June July 1969) UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Category (1) Drilling		$		$		$		$
Mobilization & Demobilization to staging area, crews & Equip. 3 durface drill units (1)				1,225.00				1,225.00
Mobilization & Demobilization at initial drill sites 3 @$150.00 each (2)				450.00				450.00
Moving between drill sites & setting up drill rigs 3 Operations @$150.00 each (3)				150.00				150.00
Diamond Core & Overburden drilling - Rate See Contract								
Drill Hole #1 (4)			10'	105.00			10'	105.00
			240'	2,004.00			240'	2,004.00
			108'	907.20			108'	907.20
			142'	1,228.30			142'	1,228.30
			105'	913.50			105'	913.50
Drill Hole #8 (4)			10'	105.00			10'	105.00
			240'	2,004.00			240'	2,004.00
			250'	2,162.50			250'	2,162.50
			230'	2,058.50			230'	2,085.50
Reaming & Casing (5)			70'	385.00			70'	385.00
Cementing and Redrilling (6)				260.00				260.00
TOTALS		$		$		$		$

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

Date 9-2-69 *Payee VITRO MINERALS CORPORATION

Per [signature] Title Controller

*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.

Approved as noted, subject to field examination and audit.

Signature _____ OME Field Officer Date

Approved for: $ _____
(SUBJECT TO AUDIT)

Signature

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

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Vitro Minerals Corporation
720 Equitable Bldg.
730 17th Street
Denver, Colorado 80202

Amount Claimed:	Differences (Explained Below)	Amount Approved:
15,053.41	200.00	15,053.41 11,290.06 Govt. Part. Plus 200.00 * 11,490.06
Min. Voucher No.	Payee's Invoice No.	Period
	Docket #6689 Contract #2262	June & July, 1969

EXPLANATION

* Refund of $200.00 withheld pending resumption of work.

[illegible] Deduction Card in [illegible] on subsequent [illegible] not supported by the original [illegible] statement.

SG

Branch of Budget and Finance

OME Region III
RECEIVED
SEP 5 - 1969
Denver, Colorado

MONTHLY ENGINEERING - GEOLOGICAL REPORT

OME-6689

ICE LAKE PROJECT

July 1969

MONTHLY ENGINEERING - GEOLOGICAL REPORT - AUGUST 1, 1969

Work Performed by Vitro from July 1, 1969 to July 31, 1969

No. 3A Drill Hole

This drill hole was advanced from 340 feet to 917 feet by Bx wireline core drilling. Core recovery throughout this interval was excellent.

The contact between the Burns latite member of the Silverton Volcanic Series and the underlying San Juan Tuff was intersected at 509.7 feet down the hole. This contact is therefore approximately 40 feet higher in elevation than originally postulated. In as much as the contact between the Burns latite and the San Juan Tuff represents an old erosion surface, the difference between the postulated and the true elevation of the top of the San Juan Tuff is quite within reason. No surveys have as yet been made on this hole.

No significant metal mineralization was encountered in this hole during July. A geologic log of this hole is appended as a part of this report. Figure 1 illustrates the cross section of this drill hole and figure 2 depicts its surface trace.

No. 4 Drill Hole

No. 4 drill hole was advanced by Bx wireline core drilling from 600 feet to 681 feet. Core recovery through this interval has been very good.

With the exception of finely disseminated pyrite which is apparent through most of this section, the core was quite free of metallic mineralization. In the monthly report dated October 3, 1968 it was stated that the "Diamond" vein may have been intercepted at a depth of 600 feet. Advancement of this drill beyond this period has proven that premiss to be false with the "quartz vein" intercepted just below the dellenite dike being nothing more than a narrow stringer adjacent to the dike.

No in-hole surveys were made on this hole during the month of July.

The geologic log for this hole is appended as a part of this report and the surface trace is illustrated in figure 2. Figure 3 shows the cross section of this drill hole. Data required for preparing the surface trace and cross section were, however, gathered subsequent to July 1969.

No. 7 Drill Hole

Drilling began at the No. 7 drill site on July 10, 1969. The hole was drilled and cased NX size to 10 feet and from there it was advanced by Bx wireline core drilling to a depth of 727 feet. Core recovery throughout the interval has been very good. No in-hole surveys of this hole were made during July.

The contact between the Silverton volcanic series and the San Juan Tuff was intercepted at a down the hole depth of 575 feet.

No significant metalic mineralization, other than finely dissiminated pyrite, has been found in this hole.

A detailed geologic long is appended as part of this report and a cross section and surface trace of the hole are illustrated in figure 4 and 2 respectively. Data for the generation of these illustrations was gained subsequent to July 1969.

Respectfully submitted,

Thomas I. Sharps

Thomas I. Sharps

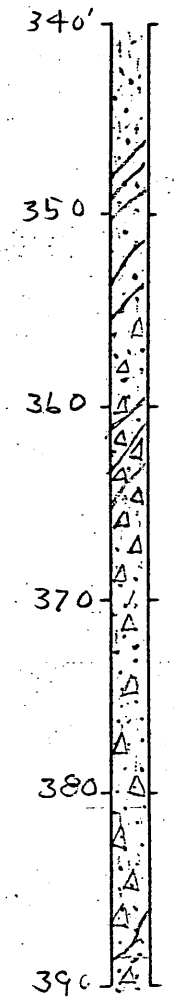
July 10, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 7 of

From	To	Thick-ness	% Core Recovery	Geologic description and remarks
340	341	1	90	Correction from last year - Drilling was stopped at
341	343	2	90	340' instead of 348' as reported. Drilling was
343	345	2	75	resumed on June 29, 1969 at 340'
345	346	1	95	
346	350	4	95	340-346 - Silverton breccia; has been altered gray
350	354	4	100	Considerable pyrite, disseminated and in fine
354	359	5	90	grain masses 4% 1/4".
359	363	4	100	340-346 - Vuggy areas in breccia fragments
363	368	5	95	
368	370	2	95	346-354 Silverton breccia which has been altered gray
370	371	1	85	Pyrite veinlets as well as grain masses and dissemin-
371	372	1	100	ated pyrite. Oxidation of pyrite veins at 351'. Small
372	374	2	85	amounts of qtz from 352 to 354 in form of thin veinlets.
374	376	2	90	
376	378	2	90	354-374- Silverton breccia altered gray. Considerable
378	381	3	40	pyrite with abundance of disseminated and grain mass
381	384	3	100	material remaining constant. Veinlets decreasing in
384	386	2	95	abundance to 374'. Chlorite and epidote alteration
386	389	3	65	starting at 358'. Epidote abundant from 360' to 365'
389	391	2	100	and commonly encloses grain masses of pyrite. Chlorite
				often occurs along pyrite veinlets.
				374-391 - Silverton breccia, altered gray. Abundance
				of pyrite decreasing slightly with depth. Very few
				veinlets but fine grained masses becoming slightly more
				abundant. Chlorite-epidote alteration continues with
				increasing amounts of chlorite in veinlets. 372.5 - 373.5'
				dark gray silicified band
				374-375' small grains of black metallic mineral/hematite(?)

Graphic log
Scale 1" = 10'



Hole No. 3

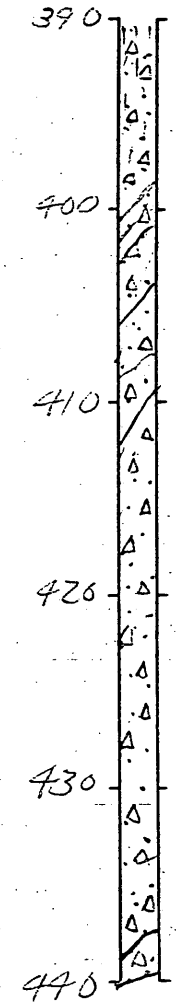
July 12, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 8 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
391	394	2	100	391-398' Silverton breccia altered to a purplish
394	396	2	100	grey-green. Breccia fragments becoming more
396	398	2	55	visible and vary in color from dark green to red-brown
398	400	2	65	Chlorite-Epidote alteration continuing with some
400	406	6	100	breccia fragments strongly epidotized. Pyrite not as
406	410	2	45	common as above and in disseminate form only
409	411	2	100	Argillaceous alteration of feldspars
411	415	4	75	397-399 Zone of strong purple-grey alteration
415	421	6	100	
421	423	2	100	398-405 Silverton breccia altered as from 391-398
423	433	10	90	but becoming slightly less grey and more green-purple
433	436	3	100	Chlorite-Epidote and argillaceous alteration continuing.
436	440	4	100	Amount of disseminated pyrite remaining constant. Veinlets
				of pyrite reappearing
				405-412 - Rock same as 398-405 section with the ex-
				ception of quartz along pyrite vienlets
				412-423 - Silverton breccia altered purplish-grey green.
				Chlorite-epidote alteration. Argillaceous alteration
				decreasing at 420'. No veinlets. Disseminated
				pyrite only. Selective mineralization of some breccia
				fragments
				423-435 Silverton breccia alteration same as
				above. Slight increase in size of breccia
				fragments up to 3 inches in diameter. Pyrite very
				finely disseminated and slightly less abundant
				than above.

Graphic log
Scale 1" = 10



Hole No. 3

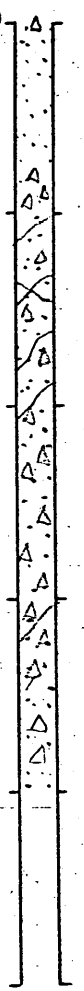
July 12, 1959

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 9 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
440	441	1	100	435 - 440.5 Silverton breccia with purplish-grey-green
441	443	2	50	alteration. Slightly less grey. Chlorite-epidote alteration
443	446	3	85	Disseminated pyrite. Veinlets of pyrite with quartz. Some
446	448	2	0	show slight oxidation.
448	451	3	100	
451	456	5	80	440.5 - 447.5 - Greenish-grey silicified zone. No visible
456	466	10	100	breccia fragments. Qtz veinlets. Pyrite becoming
466	476	10	100	more abundant and is in the form of disseminated grains,
				masses of grains, and veinlets.
				447.5 - 462 - Silverton breccia silicified greenish
				grey. Breccia fragments visible but not always distinct
				Slight chlorite-epidote alteration with strong band from
				449.5 to 450. Pyrite becoming more common. Strongly
				disseminated and in veinlets. Several areas of
				slightly oxidized pyrite. Veinlets decreasing in abundance with depth
				462 - 479 - Silverton breccia regaining purplish-grey
				green color. Breccia fragments again becoming distinct
				Many fragments strongly epidotized. Pyrite common
				but decreasing with depth. It is in form of disseminated
				grains with occasional grain masses and veinlets
				478' large breccia fragment, 7 inches in diameter
				very strongly epidotized

Graphic log
Scale 1" = 10



Hole No. 3

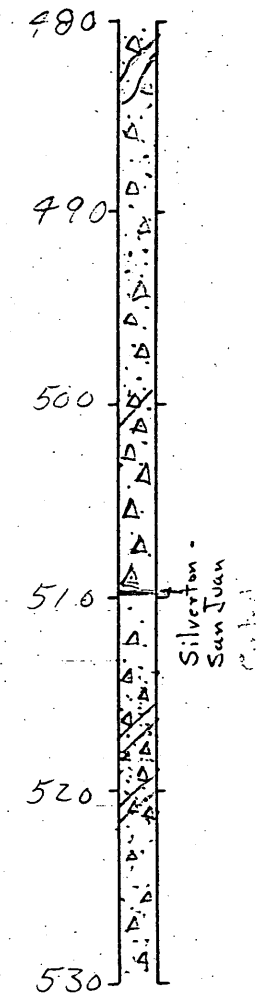
July 13, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 10 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
476	486	10	100	479-509.7 - Silverton breccia, altered. Color is a grey-
486	496	10	100	green with spotty areas of purplish-grey coloration.
496	506	10	100	Breccia fragments up to 4 in. in diameter and usually
506	516	10	100	a darker green than matrix. Strong chlorite-epidote
516	517	1	100	alteration. Chlorite along seams and throughout the rock
517	522	5	100	Epidote disseminate in small grains throughout. Some
522	526	4	100	breccia fragments very strongly epidotized. Disseminated
526	530	4	100	pyrite throughout. Occasional grain masses. Veinlets of pyrite
				489-495 - slightly oxidized. Slight oxidation of pyrite
				grains from 492-503. Some pyrite xls to 1/8".
				509.7 San Juan - Silverton contact
				509.7-513.5 San Juan breccia, grey-green. Breccia fragments
				smaller and more common than in Silverton. Some
				epidote and chlorite alteration. Pyrite finely disseminated
				513.5-530 San Juan breccia. Color - areas of grey-green mixed
				with areas of brownish-purple. Increase in size of breccia
				fragments to 4". Increase in amount of epidote and
				chlorite alteration with some fragments strongly epidotized
				Increase in pyrite, mostly disseminated and selectively
				mineralized some breccia fragments.
				517-522 Pyrite veinlets and grain masses. Slight
				oxidation of some pyrite in selected breccia fragments
				522-530 Slightly darker in color. Some decrease in
				epidotization

Graphic log
Scale 1" = 10



Hole No. 3

R. J. Rosen

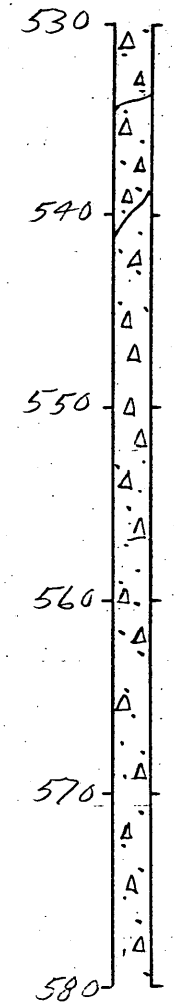
July 15, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 11 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
530	536	6	100	530-546 San Juan breccia. Ranges from a brownish-purple
536	546	10	100	and grey-green to a greyish green. Strong epidote
546	551	5	100	alteration throughout w/ some breccia fragments nearly
551	556	5	100	totally epidotized. Chlorite alteration throughout.
556	564	8	100	Several lt. gr. veins. Pyrite common and disseminated
564	572	8	100	in fine grains. Occasional thin veinlets of pyrite.
572	582	10	100	
				546-552 San Juan breccia. Rock color and alteration
				same as above. No pyrite
				552-581 San Juan breccia, greyish-green. Strong
				epidote alteration. Some of epidotized breccia
				fragments are vuggy. Strong chlorite alteration
				Disseminated pyrite in form of grains and small xls
				is common. Several thin qtz veins.

Graphic log
Scale 1" = 10



Hole No. 3

Rob Rogers

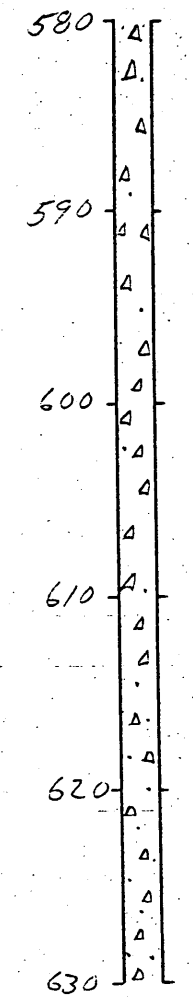
July 15, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 12 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
582	588	6	100	581-616 San Juan breccia, greyish green in color but
588	590	2	100	gradually regaining a purplish tint with depth
590	596	6	100	Epidote and chlorite same as above. Little to no
596	606	10	100	very finely disseminated pyrite. Several epidote
606	616	10	100	seams.
616	626	10	100	
626	636	10	100	616-647 San Juan breccia greyish green. Epidote and
				chlorite alteration continue to be strong. Some breccia
				fragments nearly replaced by epidote. Others are vuggy.
				Chlorite found mainly in the matrix. Small amounts of
				disseminated pyrite. Also small amounts of disseminated
				black mineral which is probably metallic. However it is too
				small for hand lense identification. Slight decreas in the
				amount of pyrite with depth

Graphic log
Scale 1" = 10'



Hole No. 3

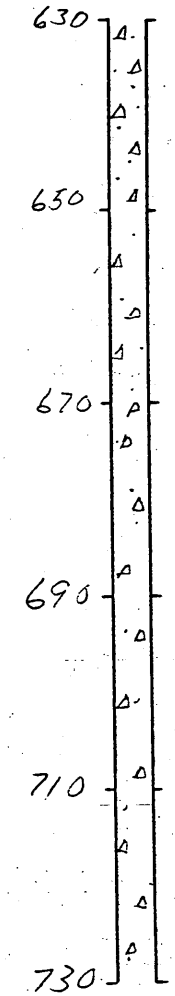
July 22, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 13 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
636	646	10	100	647-667 San Juan breccia with greyish-green color. Rock
646	656	10	100	denser than above. Epidote and chlorite alteration is
656	666	10	100	similiar to above with a decrease in the amount of epidote
666	675	9	100	Very small amounts of finely disseminated pyrite. Disseminated
675	676	1	100	black mineral continuing in slightly lesser amounts - hematite(?)
676	680	4	75	647.5' Replacement of a breccia fragment w/ black mineral
680	681	1	100	About 1/2" across. It is possibly hematite
681	690	9	100	
690	696	6	100	667-723 San Juan breccia with color patchy, grains
696	705	9	100	from grey-greens to brownish purples. Breccia fragments
705	706	1	75	distinct with a wide variation in color and size. Epidote
706	716	10	100	and chlorite alteration. Epidote in seams and strongly
716	726	10	100	replacing some fragments. Small amounts of black
726	736	10	100	disseminated mineral believed to be hematite(?).
				Small amounts of very finely disseminated pyrite. Slight
				variations in amount. Small scattered areas of Fe oxide
				staining. Occasional small vugs some of which are
				lined with epidote

Graphic log
Scale 1" = 20'



Hole No. 3

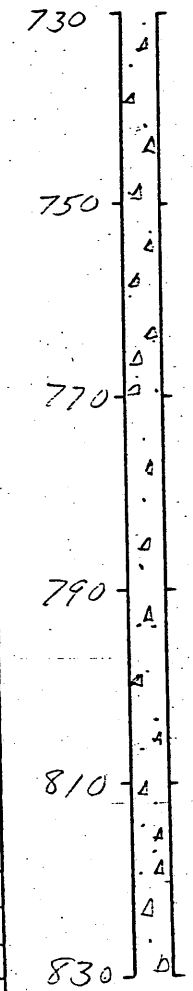
July 25, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 14 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
736	746	10	100	733-772 San Juan breccia with color becoming more
746	755	9	100	uniform + tending toward a greyish-green Breccia fragments
755	765	10	100	smaller than above. Epidote and chlorite as above. Rock
765	775	10	100	less dense and more porous than above. Pyrite and
775	785	10	100	possible hematite(?) as above.
785	795	10	100	
795	799	4	100	772-799 San Juan breccia greyish-green. Fragments small
799	806	7	100	and/or indistinct. Epidote + chlorite alteration w/ slightly
806	814	8	100	less epidote. Rock denser than above. Little to no finely
814	820	6	95	disseminated pyrite. Small amounts of disseminated
820	828	8	100	hematite(?)
				799-820 San Juan breccia color mainly a greyish-
				green Fragment becoming larger and more distinct
				Epidote and chlorite alteration. Occasional thin seams
				of epidote and qtz. Very small amounts of disseminated
				pyrite. Small amounts of disseminated hematite(?).
				795-800 High concentration of qtz and epidote
				seams, very thin
				820-836 San Juan very similiar to above with two
				exceptions. No hematite(?) Also only occasional grains
				of pyrite

Graphic log
Scale 1" = 20'



Hole No. 3

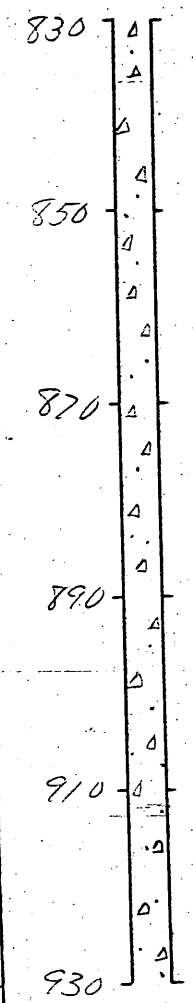
July 29, 1969 + Aug 15, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 3
Page 15 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
828	833	5	100	836-912 San Juan breccia color a greyish-green with
833	836	3	70	small areas of brownish purples. Chlorite alteration fairly
836	844	8	100	strong. Epidote alteration throughout. Some epidote lined
844	854	10	100	vugs, small. Occasional thin seams of epidote. Very small
854	864	10	100	amounts of disseminated hematite(?). Occasional areas of
864	869	5	100	areas of small amounts of disseminated pyrite.
869	876	7	100	851 - Area of hematite 1/2" x 1" " "
876	885	9	100	
885	895	10	100	912-931 San Juan tuff breccia color a greyish-green but
895	905	10	100	slightly different than above. Epidote and Chlorite
905	912	7	100	alteration throughout. Possibly small amounts of disseminated
912	917	5	90	hematite. Occasional scattered grains of disseminated
917	919	2	95	pyrite. Argillaceous alteration
919	923	4	100	
923	928	5	100	
928	931	3	100	

Graphic log
Scale 1" = 20



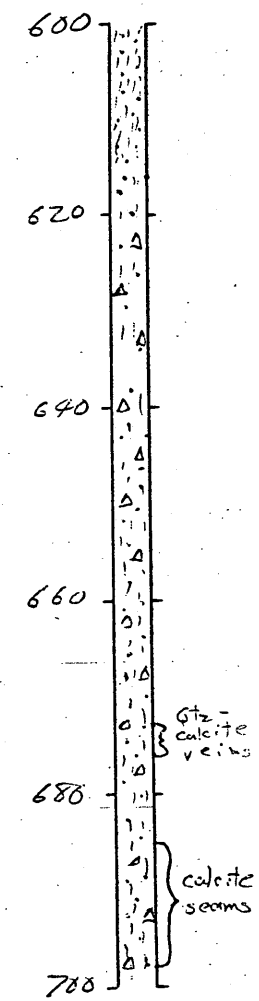
Hole No. 3

VITRO MINERALS CORPORATION
Drill Log

Hole No. 4
Page 7 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
600	602	2	80	600-614 San Juan - alt. grey w/ fragments
602	604	2	60	indistinct. Rock has been silicified and alt.
604	609	5	100	causing presents of some clay material. Fine dis-
609	613	4	80	semiated pyrite common throughout. Core badly
613	618	5	80	broken.
618	621	3	100	611-614 Strong zone of clay alteration
621	628	7	100	
628	630	2	85	614-619½ San Juan tuff - grayish-green. Small frag-
630	638	8	100	ments to ½" clay alteration. Occasional masses of
638	643	5	100	fine pyrite grains. Also disseminated grains
643	648	5	100	
648	657	9	100	619½-646 San Juan tuff. Color is grayish-green
657	659	2	100	Epidote alteration w/ small amounts of chlorite
659	665	6	30	alt. Small amounts of disseminated pyrite
665	670	5	100	Rock has been slightly leached.
670	672	2	100	
672	681	9	90	646-685 San Juan tuff breccia. light grey-green in
681	687	6	100	color. Epidote and chlorite alteration w/ some
687	691	4	65	epidote seams, < 1/16". Occasional seams of
691	695	4	80	calcite. Some leaching of the rock. Pyrite common
695	697	2	100	in disseminated grains and occasional thin veinlets.
697	698	1	100	< 1/16"
				672.5-675.5 Qtz-calcite veins every 6-10". Thickness
				1/4" to 1" - No metallics other than pyrite
				685-698 San Juan breccia fragments to 3'. Color grey-green
				Chlorite and epidote alt. Occasional calcite seams < 1/16"
				Some leaching. Pyrite common in disseminated grains
				and scattered grain masses.

Graphic log
Scale 1" = 20'



Hole No. 4

July 13, 1969

VITRO MINERALS CORPORATION
Drill Log

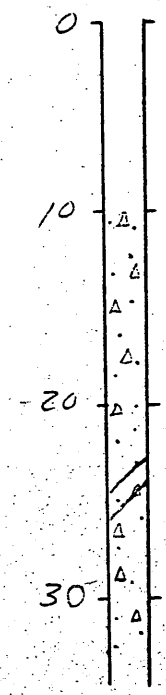
Project: Ice Lake
County: San Juan
State: Colorado
Claim: Vitro No. 10
Page 1 of

Date Started: July 10, 1969
Date Completed:
Logged By: R.J. Rogers
Type Drill: Diamond Wyoming Diesel
Hole Size: BXNL
Contractor: Spague & Henwood

Hole No.: 1
Coord: N, E
Collar Elev.: 12,920'
Total Depth:
Bearing: N 83° 45' E
Inclination: -76° (at collar)

From	To	Thickness	% Core Recovery	Geologic description and remarks
0	10	10	0	0-10 NX casing set - no core recovery
10	17	7	100	10-32 Silverton formation - lithic tuff breccia;
17	21	4	100	color - purplish-grey; fragments up to 10" and greyish-
21	29	8	100	green in color. Some epidote alteration of matrix.
29	32	3	70	Fragments more intensly epidotized. Some large
32	42	10	100	fragments are vuggy. Small amounts of fine
				disseminated pyrite, some slightly oxidized. Occasional
				grain masses of pyrite which are oxidized.
				Fractured zone from 23.5 - 25 with Fe oxide and
				small amounts of Mn staining along fractures

Graphic log
Scale 1" = 10'



pyrite epidote / Fractures

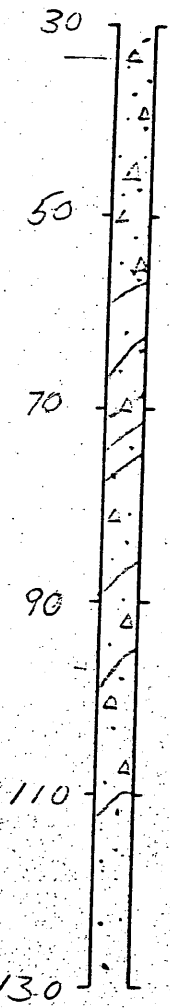
Hole No. ___

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 2 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
42	52	10	10	37-58.5 - Silverton formation. Similar to above.
52	62	10	100	Some brownish-purple fragments. Vuggy epidotized
62	72	10	100	fragments. Possibly a slight increase in amount of
72	82	10	100	pyrite, which is slightly oxidized
82	92	10	100	" " "
92	102	10	100	42-52 - tube mis-latched; ground core
102	112	10	100	" "
112	122	10	100	58.5-77 Silverton formation, rock same as above
				Possibly slight decrease in epidote. Pyrite also
				slightly decreased. Fractured zone with Fe oxide
				and staining and chlorite along fractures. Fractures
				intersect core from 20-30°
				77-115 Silverton formation - purplish-grey. Some
				vuggy breccia fragments. Occasional fractures stained
				as those above. Very small amounts of disseminated
				pyrite. Scattered grain masses and stringers of
				oxidized pyrite. Very small amounts of epidote.
				diminishing with depth.
				95-115 Small amounts of a finely disseminated
				black mineral possibly metallic. In both breccia
				fragments and matrix. Jul, 79 - This mineral is now
				believed to be hematite.

Graphic log
Scale 1" = 20'



Rogers

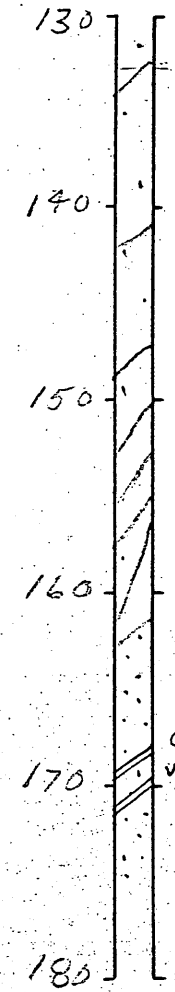
Hole No. 7

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 3 of

From	To	Thickness	% Core Recovery	Geologic description and remarks
122	130	8	100	115-147 Silverton breccia; purple-grey becoming
130	137	7	100	slightly greenish with depth. No visible epidote
137	147	10	100	alteration. Occasional fractures intersecting core
147	157	10	100	at various angles. Most are stained by Fe oxide.
157	167	10	100	Some contain qtz with possible chlorite. Very
167	177	10	100	little to no disseminated pyrite. Rare blotches to
				1/4" of oxidized pyrite. Small amounts of a dissemin-
				ated black mineral which may be metallic. It is
				slightly decreasing in abundance with depth
				122-124.5 Hydro area
				147-163 Silverton breccia greenish-purple-grey
				Fractured zone - all fractures with some Fe oxide
				staining. Amount of staining variable. Chlorite(?)
				along most fractures. Little to no disseminated
				pyrite. Occasional blotches of oxidized pyrite, to
				1 1/4". Very small amounts of possibly metallic
				black mineral demninishing with depth. It seems
				to favour breccia fragments. Tolerably probable hematite
				163-175 Silverton breccia color same as above. Occasional
				fractures stained as above. Marked increase in amount of
				pyrite disseminated through rock. Very small amounts of
				the black mineral which may be hematite
				169.5' Crystalline qtz vein 1 in thick containing sphalerite
				170' Pyrite veins

Graphic log
Scale 1" = 10'



Rogers

Hole No. 7

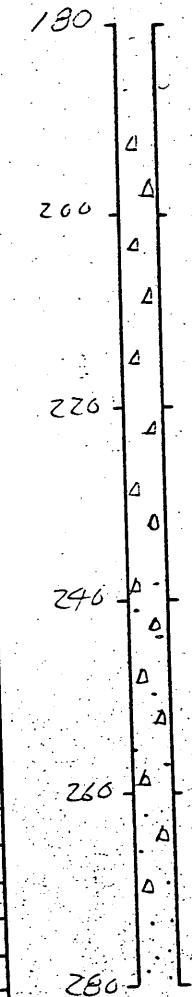
July 22, 1967

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 4 of ___

From	To	Thickness	% Core Recovery	Geologic description and remarks
177	187	10	100	175-193 Silverton breccia with color remaining the same.
187	197	10	100	Occasional Fe oxide stained fractures. No pyrite. Hematite(?)
197	207	10	100	disseminated throughout some of which is oxidized.
207	217	10	100	183' Qtz vein 1/2" thick with no minerals
217	227	10	100	
227	233	6	100	193-237 Silverton breccia color a greyish green with areas
233	243	10	100	of a purplish brown. Epidote alteration begins abruptly
243	253	10	100	at 193'. Some chlorite alteration is found with it. Some
253	261	8	100	seam of epidote thin. Rock is porous. No visible
261	267	6	100	pyrite. Hematite continues as above.
267	277	10	100	"
277	280	3	100	237-273 Silverton breccia color becoming a more uniform
				greyish green. Epidote & chlorite alteration remaining
				the same. Occasional seams of epidote. Disseminated
				pyrite throughout and varying in amount from area to area
				" little to no hematite. Rock continues to be porous
				273-295 Silverton breccia color a greenish grey. Fragments
				less distinct. Silicified zone, dense. Little to no
				epidote or chlorite alteration. Disseminated pyrite
				" throughout.
				287-292 Area greener in color. Not as strongly
				silicified. Epidote alteration

Graphic log
Scale 1" = 20'



Hole No. 7

b Rogers

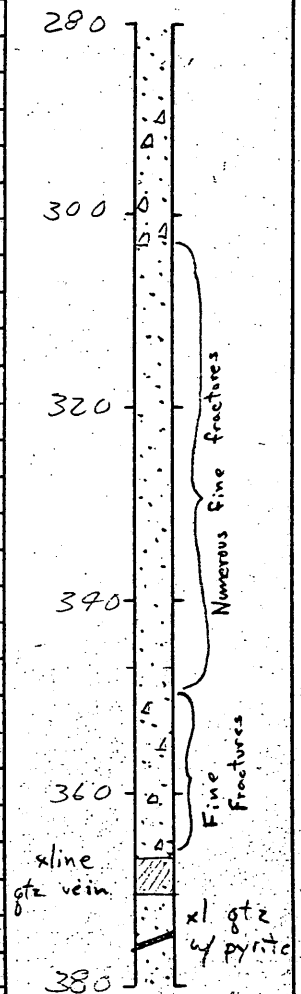
July 25, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 5 of ___

From	To	Thickness	% Core Recovery	Geologic description and remarks
280	297	7	100	292-304 Silverton breccia color a greyish-green. Fragments
287	297	10	100	distinct. Chlorite + epidote alteration? Some breccia
297	307	10	100	fragments strongly epidotized. Slight silicification
307	317	10	100	Small amounts of disseminated pyrite
317	321	4	100	"
321	331	10	100	304-350 Silverton breccia color a greenish grey
331	341	10	100	Fragments indistinct in places. Rock has been silicified,
341	351	10	100	the intensity varies from area to area. No visible epidote or
351	357	6	100	chlorite alteration. Occasional thin qtz seams.
357	365	8	100	Disseminated pyrite common throughout. Numerous
365	370	5	90	fine fractures throughout. Occasional vuggy areas
370	376	6	60	
376	378	2	50	350-367 - Silverton breccia color a grey-green. Fragments
				indistinct in places. Some epidote and chlorite
				alteration. Silicification of the rock. Disseminated pyrite
				common. Occasional grain masses to 1/2" that favor
				breccia fragments. Small fracture from 2" to 12" apart
				359-367 Several qtz veins to 1/8" thick
				367-370 Crystalline quartz and silicified rock
				fragments grey in color. Porous, vuggy zone. Fe oxide
				staining throughout. Large amounts of disseminated pyrite
				and grain masses of pyrite in silicified rock. Qtz
				veins contain some pyrite and a dark mineral which is
				probably sphalerite.

Graphic log
Scale 1" = ___



Hole No. 7

Rogers

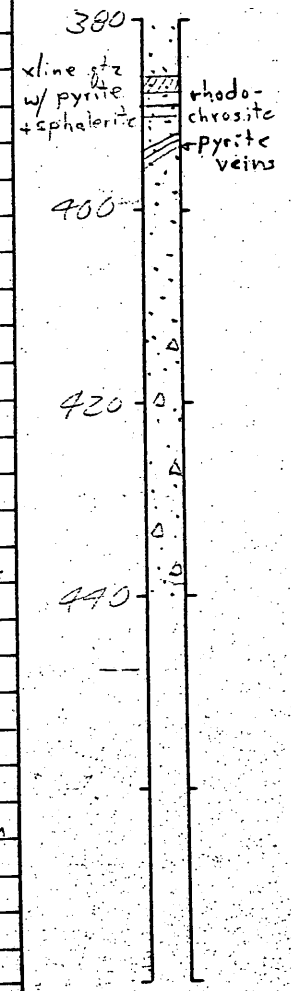
July 26, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 6 of ___

From	To	Thickness	% Core Recovery	Geologic description and remarks
378	387	9	50	370-390 Highly altered zone bleached a light grey. Rock
387	392	5	80	has undergone silicification and argillaceous alteration
392	397	5	100	Rock is soft and crumbly. Disseminated pyrite
397	407	10	100	throughout.
407	417	10	100	378' Qtz vein approx. 3" thick containing some
417	427	10	100	pyrite Qtz xline. Fe oxide staining
427	437	10	100	386-387.5 Xline qtz vein containing pyrite and
				sphalerite (?). Fe oxide staine
				387.5-390 Small (<1") xline qtz veins Clay-like-mud
				Small (to 1/2") areas of rhodochrosite. Pyrite
				390-394 Silicified rock solid. Bleached light green-grey. Pyrite common in form of thin vein, grain masses and disseminated grains. Occasional qtz veins to 1/8" thick
				394-415 Silverton breccia color greenish-grey. Fragments indistinct. Rock has been silicified. Vuggy areas. Common disseminated pyrite. Thin (to 1/8") qtz veins with random directions of orientation
				415-441. Silverton breccia color a brownish-purple to a greyish-green. Fragments distinct. Rock "not as strongly silicified as above". Some chlorite and epidote alteration. Common disseminated pyrite xls to 3/32". Occasional grain masses of pyrite. Qtz veins to 1/8" some with small amounts of pyrite.
				416-420 Only continues thin qtz vein < 1/8" thick.

Graphic log
Scale 1" = 20



Hole No. 7

Rogers

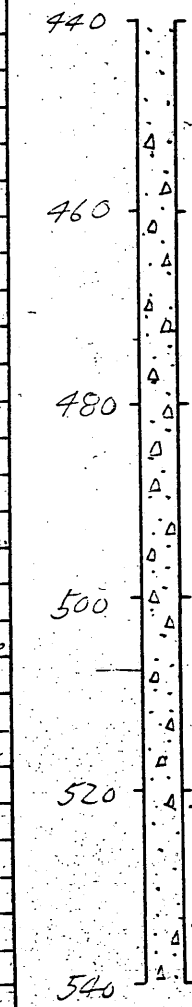
July 28, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 7 of ___

From	To	Thickness	% Core Recovery	Geologic description and remarks
437	445	8	100	441-451.5 Silverton breccia, color a greenish-grey.
445	450	5	80	The rock has been silicified. Fragments indistinct
450	457	7	100	Small amounts of chlorite alteration — no epidote.
457	466	9	100	Disseminated pyrite common. Thin quartz veins (1/16")
466	477	11	100	6 to 16 in. apart.
477	487	10	100	444-445 Bleached light grey rock is soft
487	497	10	100	448.5-550.2 - Bleached light grey. Rock is soft w/
497	507	10	100	clay like material
507	517	10	100	
517	520	3	100	451.5-473 Silverton breccia color patchy brownish-purple to
520	527	7	100	greenish-green. Fragments small and poorly outlined.
527	537	10	100	Chlorite and epidote alteration throughout. Disseminated
				pyrite common
				473-522 Silverton breccia - color greenish-green with small areas
				of brownish-purple. Becoming more uniform greenish-green w/ depth.
				Fragments more distinct, larger and more common. becoming
				smaller from 510-522. Chlorite and epidote alteration.
				Disseminated pyrite common. Occasion thin qtz veins some
				containing pyrite. At 520.5' - 1/2" qtz vein w/ no mineral
				522-533 Silverton breccia - color a light greenish grey. Fragments
				are very common making up > 75% of rock. Pyrite in a "net-"
				work" of thin veinlets and seams between fragments. Some
				disseminated pyrite in fragments

Graphic log
Scale 1" = 20'



Hole No. 7

J. Rogers

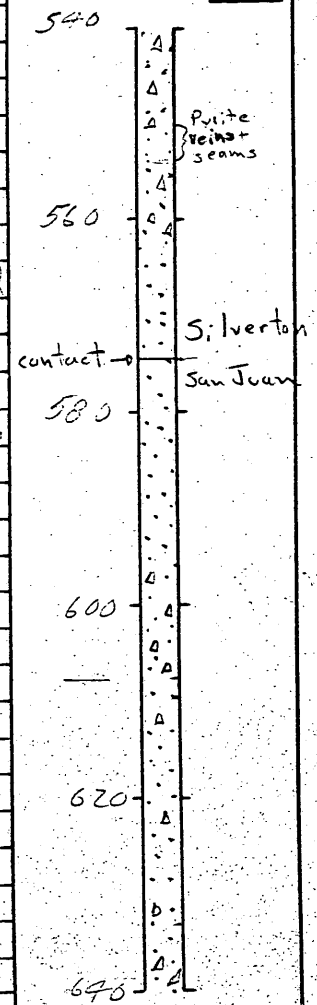
July 28, 1969

VITRO MINERALS CORPORATION
Drill Log

Hole No. 7
Page 8 of ___

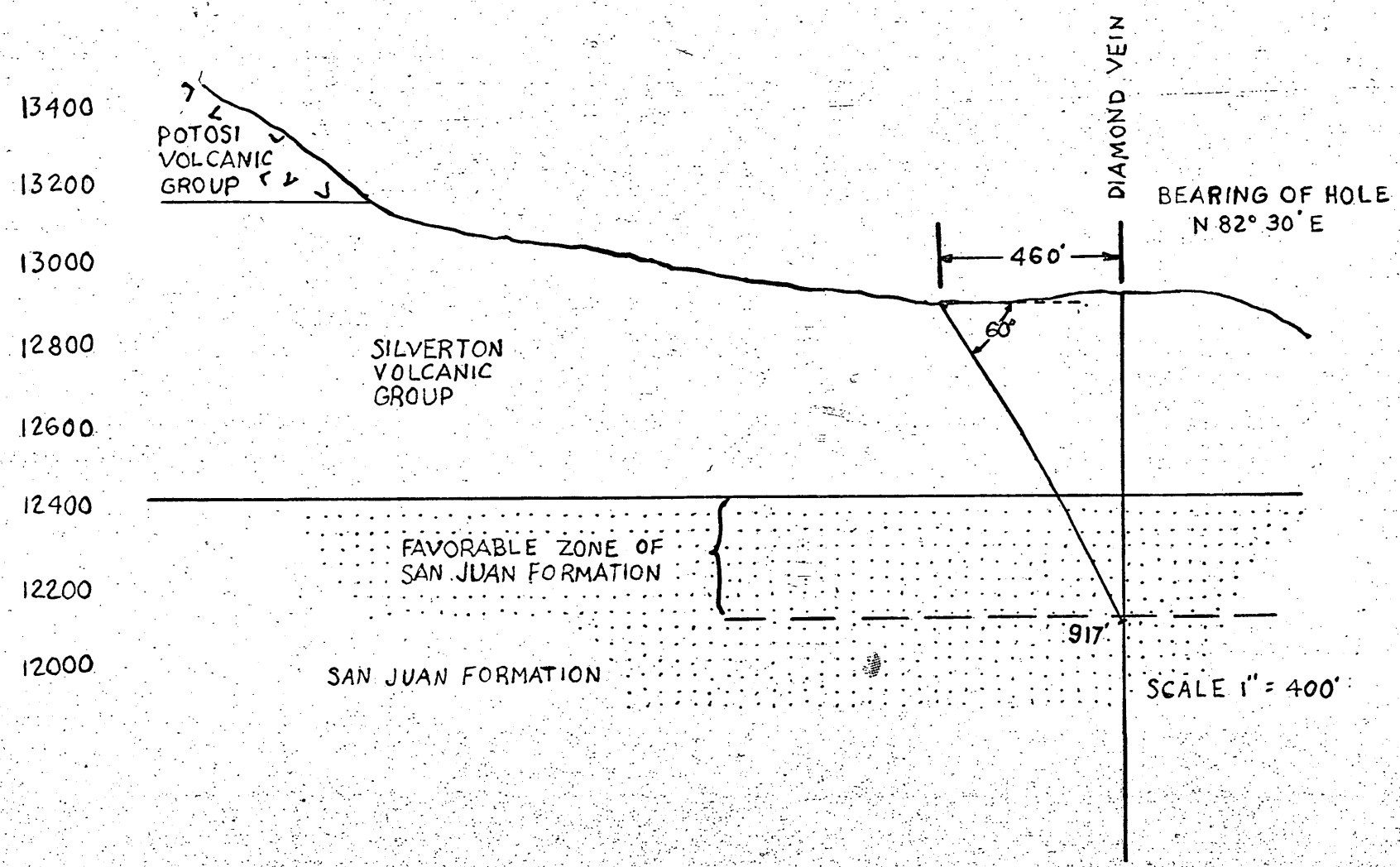
From	To	Thickness	% Core Recovery	Geologic description and remarks
537	547	10	100	533-550 Silverton breccia color grey-green and brownish-
547	557	10	100	purple. Fragments less common than above. Chlorite
557	567	10	100	and epidote alteration. Occasional qtz veins. Disseminated
567	572	5	100	pyrite common
572	577	5	100	
577	587	10	100	550-553.5 Identical to 522-533 rock
587	597	10	100	
597	607	10	100	553.5-563 Silverton breccia color greenish green and
607	610	3	65	brownish purple. Epidote + chlorite alteration. Disseminated
610	617	7	100	pyrite common. Some grain masses of pyrite. Occasional
617	627	10	100	fractures
627	637	10	100	
				575' Believed to be contact between San Juan and Silverton
				Hard to identify due to alteration + silicification
				563-589 Silverton + San Juan color purple-greenish grey
				Fragments indistinct in many places. Rock has been
				silicified. Pre-silicification chlorite. Disseminated
				pyrite. Grain masses of pyrite. Very thin (<1/32") qtz veins
				some w/ pyrite
				589-596 San Juan breccia color purplish-brown and greenish-grey
				Rock strongly silicified. Disseminated pyrite common
				596-608 Rock similiar to above (589-596) with the
				addition of epidote alteration. Disseminated pyrite common

Graphic log
Scale 1" = 20'



Hole No. 7

Rogers

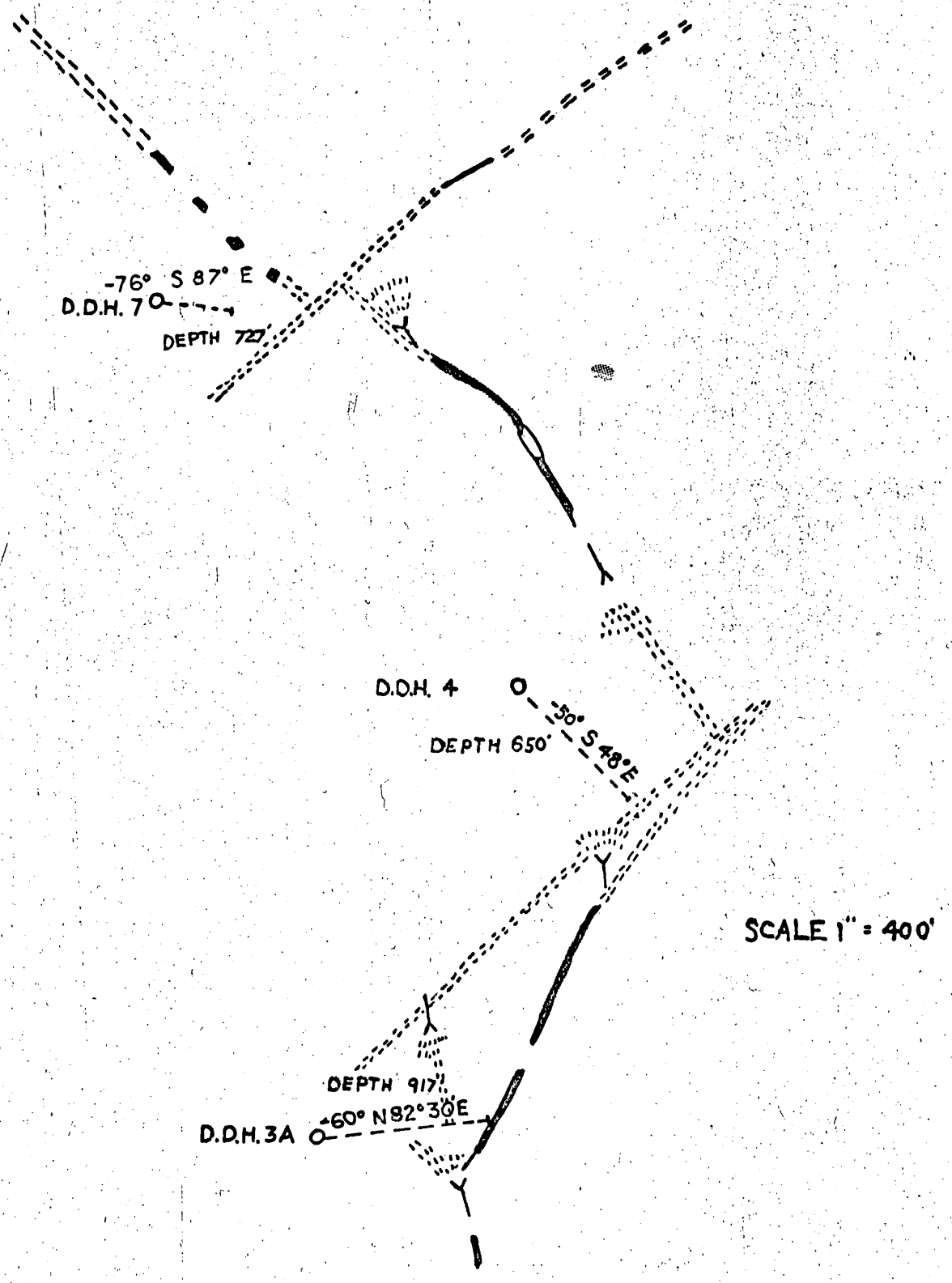


DIAMOND DRILL HOLE NO. 3A

AS OF JULY 31, 1969

Figure 1

R.J. ROGERS

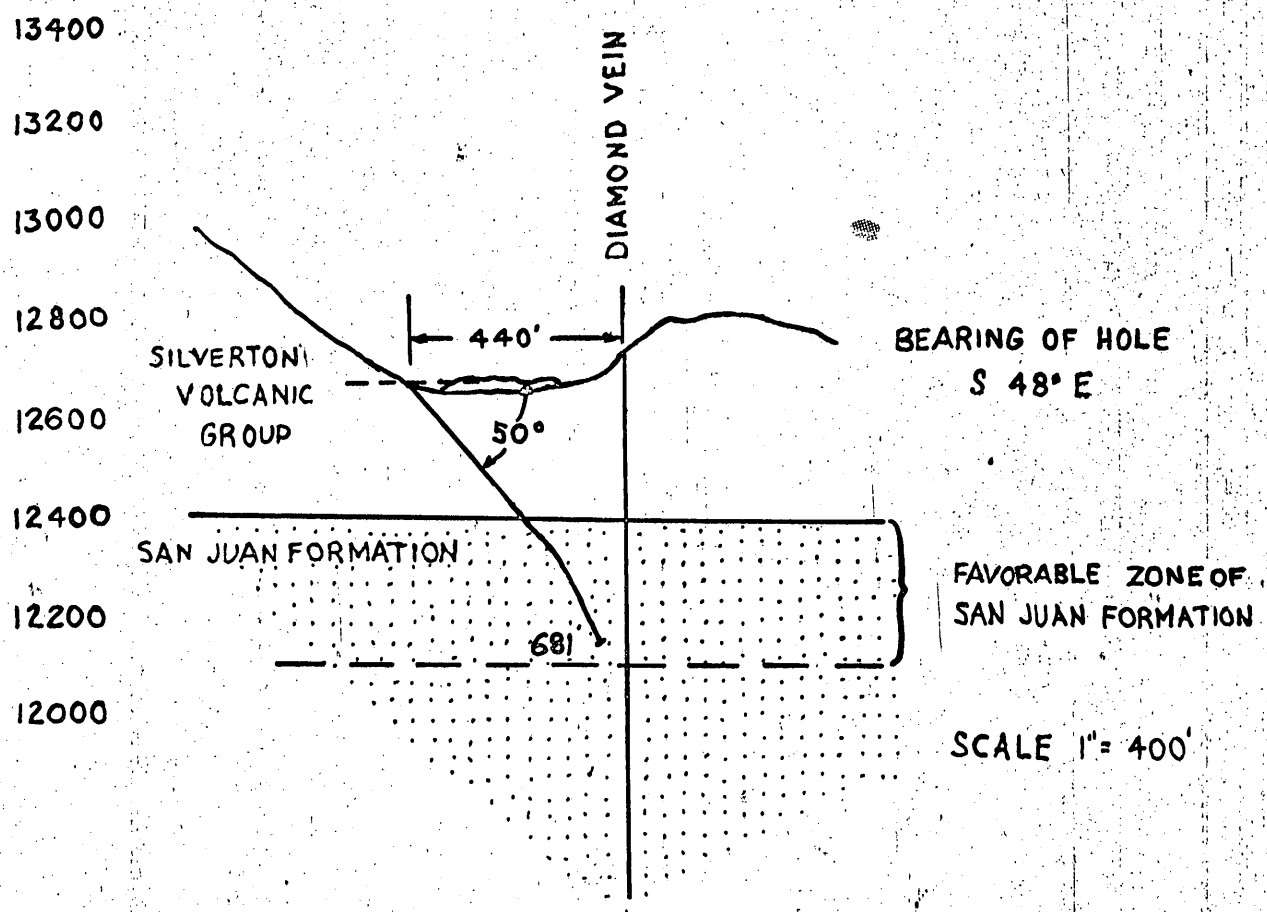


SURFACE TRACE MAP OF D.D. HOLES

AS OF JULY 31, 1969

Figure 2

R.J. ROGERS

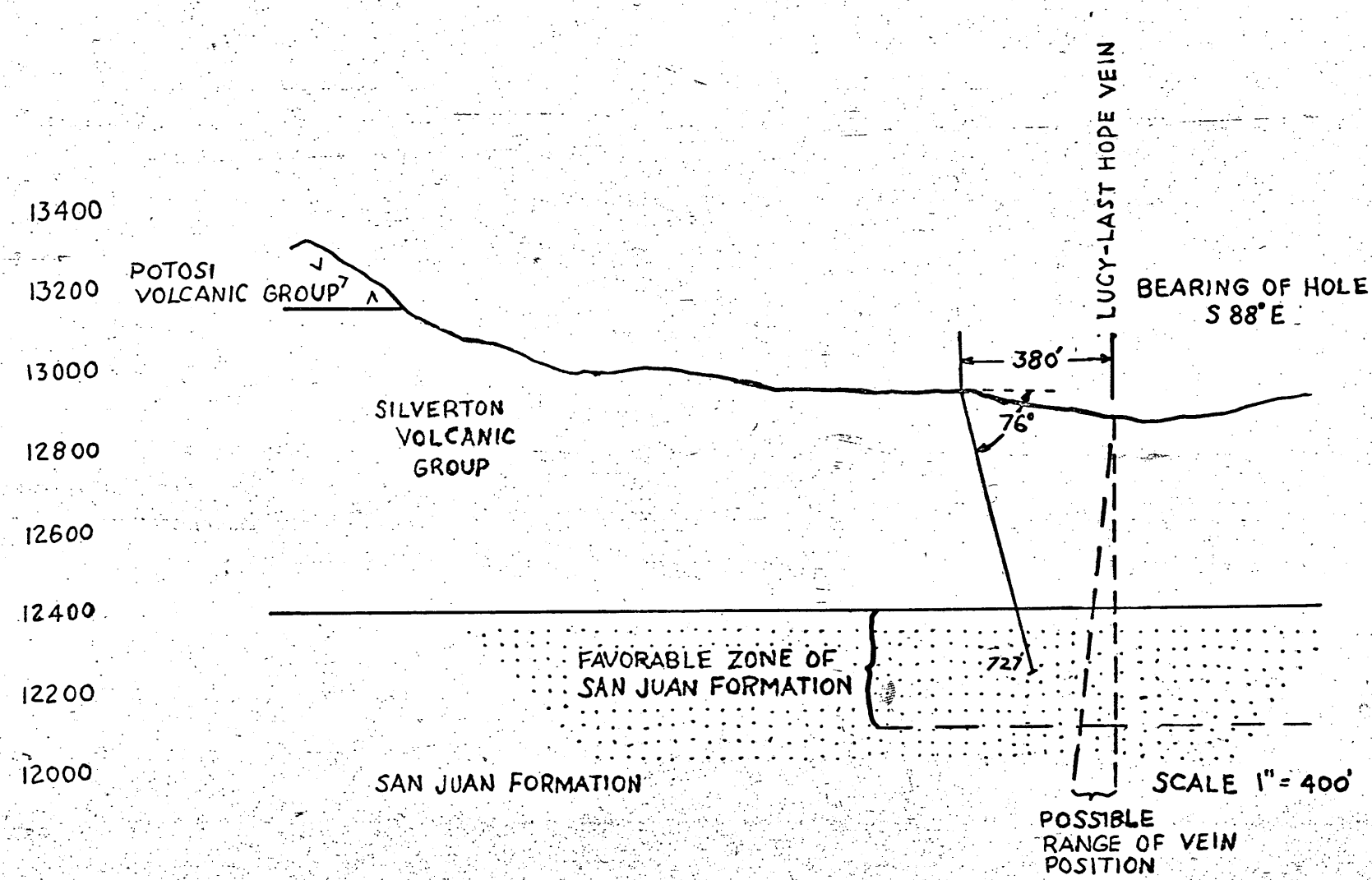


DIAMOND DRILL HOLE NO. 4

AS OF JULY 31, 1969

Figure 3

R.J. ROGERS



DIAMOND DRILL HOLE NO. 7

AS OF JULY 31, 1969

Figure 4

R.J. ROGERS

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/22/69	Emerick	120
9/22	Case	220
		120M

SEP 22 1969

Memorandum

To: Chief, Branch of Budget and Finance

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver-Gold)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

As the Operator under the subject contract has now resumed work on the contract, the $200.00 withheld from the voucher for the period 7/31/68 through 10/31/68 may be paid to the Operator.

William L. Emerick (gfa)
W. L. Emerick
For: Harold Kirkemo

Enclosure

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Region III
Mr. Emerick

WLEmerick/bsl 9/22/69

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

September 9, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 11 1969
INITIALS | CODE
~~130~~
bal 120m
HK ~~120~~
WB ~~120E~~

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Gold-Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Mr. E. B. Hotchkiss, Vice President, Vitro Minerals Corporation and Mr. R. F. Schryver, Project Manager, Metals Exploration Division, of Vitro Corporation of America, visited this office September 8, 1969 to discuss the subject exploration contract, as they had just returned from an inspection trip to the project area.

They reported that diamond drill hole No. 4 has been whipstocked at 400 feet and was at a depth of 500 feet. They will request moving the collar location of 2A from its present proposed location to a point where the hole will intersect the Columbia-Grand View vein more normal to the vein in the same target area as shown on the contract map, terrane problems are the main reason for the relocation request, Figure 2. The new collar location will fall off the claims presently under lien and subordination to the Government; however, the Operator now has staked additional claims adjacent to the Frederick and St. Anthony claims and will subordinate them when necessary. I informed them it would be required.

There may be some other changes such as increased hole depth for diamond drill Hole No. 3 and Hole No. 5 may not be drilled at all, depending on results obtained from drill hole Nos. 4 and 6, presently being drilled.

Drill Hole No. 6 may be whipstocked after its present completion to test the Lucy-Last Hope Vein at a different point along the vein.

The Operator hopes to complete drill holes Nos. 2A, 3, 4 and 6 before adverse winter conditions drive them off the mountain. They hope to double the drilling rate by adding additional diamond drill crews. I have scheduled an interim inspection for October 8, 1969 at which time they hope to have most of the work completed, and possibly complete the contract work this fall. However, should an early snow drive them out

they may request an additional recess for winter and complete the exploration program next summer.

We discussed disposition of diamond drill core, and I informed them that perhaps someone in the Survey such as Bob Luedke may want some of the core and that I would inform them if he did, otherwise after my final inspection they could dispose of the core unless the OME wanted some of it.

J. William Hasler

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

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration
Building 53 Room 200

September 9, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 11 1969

INITIALS	CODE
	~~130~~
bal	120m
HK	
WE	120E

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Gold-Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith is a letter from the Operator's Senior Geologist dated August 28, 1969 requesting relocation of the collar of Diamond Drill Hole No. 6.

I gave the Operator verbal approval to relocate the collar of drill hole 105 feet S. 48° E. of the presently proposed collar location due to difficult terrane conditions. The target area on the Lucy-Last Hope Vein will remain the same.

J. William Hasler

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

Enclosure

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

August 28, 1969

OME Region III
RECEIVED
AUG 29 1969
Denver, Colorado

Mr. J. William Hasler
U.S. Geological Survey
Office of Minerals Exploration
Room 200, Building 53
Denver Federal Center
Denver, Colorado

Ref. OME 6689

Dear Mr. Hasler:

In accordance with our phone conversation of August 21, 1969, permission is hereby requested to relocate the collar of our No. 6 drill hole 105 feet in a S48°E direction. The target area of this revised drill hole, which is designated Hole No. 6A, will be the same as the old No. 6 hole. This request is made to expedite the program by utilizing the rig which is now drilling No. 7 hole and which otherwise would be idle upon completion of that hole.

A cross section of the revised hole is enclosed for your files.

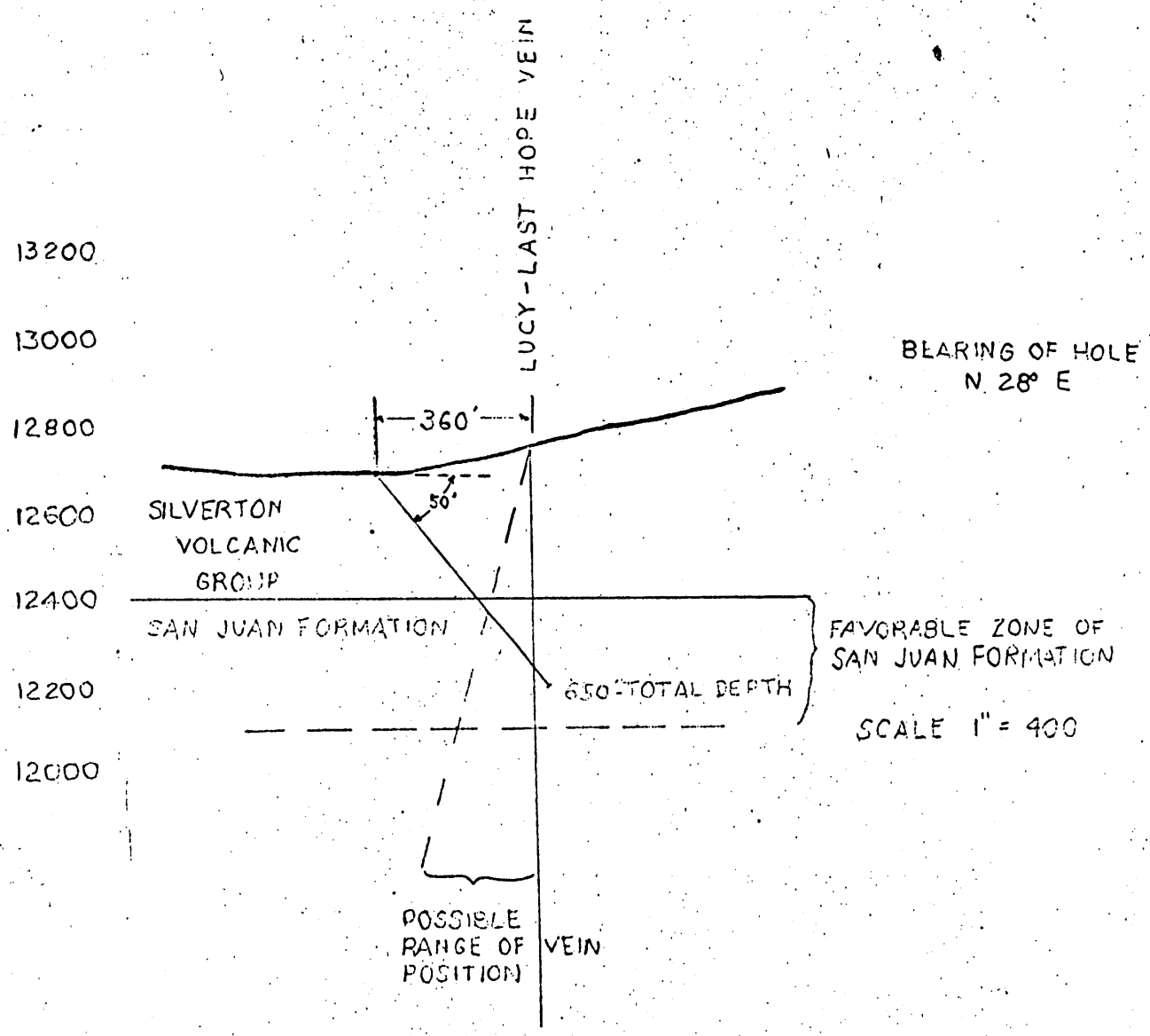
Very truly yours,

VITRO MINERALS CORPORATION

Thomas I. Sharps

Thomas I. Sharps
Senior Geologist

Enclosure
TIS:gr



DIAMOND DRILL HOLE NO. 6 A

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

OME Region III
RECEIVED
AUG 29 1969
Denver, Colorado

August 28, 1969

Mr. J. William Hasler
U.S. Geological Survey
Office of Minerals Exploration
Room 200, Building 53
Denver Federal Center
Denver, Colorado

Ref. OME 6689

Dear Mr. Hasler:

In accordance with our phone conversation of August 21, 1969, permission is hereby requested to relocate the collar of our No. 6 drill hole 105 feet in a S48°E direction. The target area of this revised drill hole, which is designated Hole No. 6A, will be the same as the old No. 6 hole. This request is made to expedite the program by utilizing the rig which is now drilling No. 7 hole and which otherwise would be idle upon completion of that hole.

A cross section of the revised hole is enclosed for your files.

Very truly yours,

VITRO MINERALS CORPORATION

Thomas I. Sharps

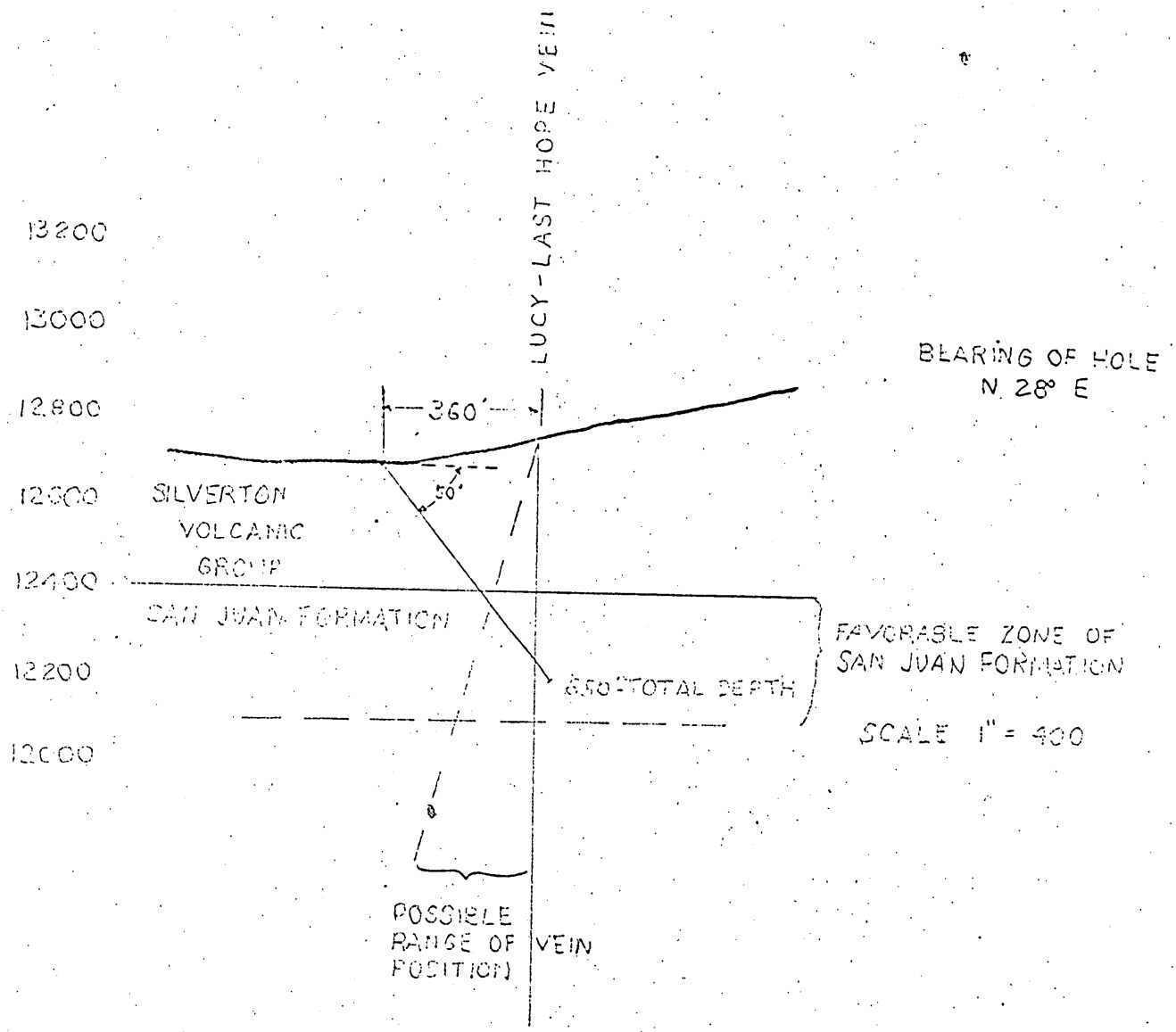
Thomas I. Sharps
Senior Geologist

Enclosure
TIS:gr

OFFICIAL COPY
U. M. E.
RECEIVED
SEP 2 1969

INITIALS	CODE
	~~1/20~~
bsl	1/20
HK	~~1/20~~
WE	~~1/20~~

This Copy to Washington
8/29/69



DIAMOND DRILL HOLE NO. 6 A

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

August 8, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
AUG 12 1969

INITIALS	CODE
JH	130
Gal	120
HK	120
WE	120

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver-Gold)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed are the "Government's Copy", and the"Fiscal Section's Copy" of Amendment No. 2 of the subject contract, executed by both the Government and the Operator.

I have retained the "Field Office Copy" and the "Extra Copy for Field Use".

Enclsoed also is a letter dated July 31, 1969 informing us that no holes had been completed during the month of June, 1969, and that their billing will be deferred until July.

J. William Hasler

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

See left side

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

July 31, 1969

OME Region III
RECEIVED
AUG 1 - 1969
Denver, Colorado

J. William Hasler
Field Officer, Region III
Office of Minerals Exploration
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

We have received the Executed proposed Ammendment Number 2 to the OME-6689 Exploration Contract and are returning three copies to you for distribution as called for in your letter of July 29, 1969.

We wish to thank you for your handling of the Agreement to the Exploration Contract covering shelter and subsistence during the month of June. The only reimburseable costs that were incurred applicable to the Exploration Contract was subsistence and shelter and helicopter flying time. There were no holes completed and because of this we will defer submitting of expenses until the end of July at which time we will make a submittal covering the month of June and July costs for reimbursement for the Government participation.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm
Enclosures

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 30 1969

INITIALS	CODE
	130
	120
HK	170
WE	120

July 29, 1969

Mr. Cecil Smith,
Chief of Exploration
Vitro Minerals Corporation
720 Equitable Building
730 17th Street
Denver, Colorado 80202

Subject: OME-6689 (Silver-Gold)
Vitro Minerals Corporation
Ice Lake Project
San Juan & San Miguel Counties, Colorado
Contract 2262

Dear Mr. Smith:

Enclosed are the original and three copies of proposed Amendment No. 2 (four pages) to the subject contract, signed for the Government.

If the proposed amendment is satisfactory to you, all four copies should be signed by an authorized representative of Vitro Minerals Corporation. Retain the Operator's copy and return the Government's Copy, Fiscal Section's copy, and the Field Office's copy to this office for proper distribution.

If any part of the proposed amendment does not have your approval, the original and all copies are to be returned to this office together with the proposed changes for consideration.

Sincerely yours,

J. William Hasler
mc.

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

Enclosures

cc: Chief, OME ✓ OME-6689 OME chron Mr. Hasler

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/17/69	Emerick	120
"	Kirkemo	120
7/22	W. Pin	
7/22	Hesse	
		220
		120M

AIRMAIL

JUL 23 1969

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver-Gold)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed are the original and three copies of proposed Amendment No. 2 (four pages), to the subject contract, signed for the Government. An extra copy of the amendment is also enclosed for field use.

If the proposed amendment is satisfactory to you and the Operator, all four copies should be signed by the Operator and distributed in the usual manner.

If any part of the proposed amendment does not have your approval or that of the Operator, the original and all copies are to be returned to this office together with the proposed changes for consideration.

Harold Kirkemo (gla)

Harold Kirkemo

Enclosures

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick
130

~~XXXXXXX~~
BSLong/1 7/17/69

REFERENCE SLIP

OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. (Through Room)		
2. Mr. Emerick, Rm. 4460, Interior		
3.		
4.		
5.		
FROM: Chief, OME		

1875

SOLICITOR

JUL 11 1969

INTERIOR DEPT.

FOR: Check items for action desired

____ Action	____ Reply for signature of ____	
x Approval	____ Investigate	____ Surname
____ Comment	____ Recommendations	____ Signature
____ Conference	x Rewrite	____ File
____ Instructions	Your information	

REMARKS:

OME-6689 Vitro Minerals Corporation

Amendment No. 2

FROM SOLICITOR

JUL 15 1969

FOR SIGNATURE

INT.-DUP. SEC., WASH., D.C. M50943

120 Emerick

120 Kirkemo

120M

DRAFT 7/11/69
WLEmerick/bsl

to legal 7/11

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

AMENDMENT NO. 2

It is agreed this _____ day of _____, 1969, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, Office of Minerals Exploration, hereinafter referred to as the "Government," and Vitro Minerals Corporation, hereinafter referred to as the "Operator," that Exploration Contract 2262 (OME-6689), dated July 31, 1968, as amended, is further amended effective June 10, 1969 as follows:

In Exhibit A:

1. Under the heading Estimated Costs of the Project, Actual Costs, Category (1), Independent Contracts is revised to read as follows:

Drilling

Mobilization and demobilization to staging area, crews and equipment, 3 surface drill units	$2,450.00
Mobilization and demobilization at initial drill sites, 3 @ $150.00 each	450.00

Moving between drill sites and setting up drill rigs,

3 operations @ $150.00 each $ 450.00

Diamond core and overburden drilling,

7,500 feet 61,590.00

Price Per Foot

Depth, Feet	Non-core (Overburden) (incl. casing)	BXWL	AXWL
0-250	$10.50	$8.35	$8.10
250-500		8.65	8.40
500-750		8.95	8.70
750-1000		9.25	9.00
1000-1100		9.55	9.30

Reaming and casing, all sizes, 800 feet 4,400.00

Depth Depth

0'-500' @ $5.50/ft., 500'-1,000' @ $5.25/ft.

Cementing and redrilling,

200 hours @ $26.00/hr. 5,200.00

Casing lost in completed holes,

800 feet @ $3.00/ft. 1/ 2,400.00

Core boxes, card board

650 @ $0.90/each 585.00

Cement, drill muds, additives 2,000.00

Surveying with in-hole instrument,

75 hours @ $22.00/hr. 1,650.00

Transportation

Helicopter - Bell Model 47 G3B-1 or equivalent model. Two hours per day minimum flight time for each 30-day period, 3 months total, 180 hours, minimum flight time,

@ $125.00/hour	$22,500.00
87-2/3 hours, @ $115.00/hour	10,081.59

Saddle horses -

4 @ $6.50 per day each for 93 days	2,418.00

Subsistence

Camp and board, 17 personnel

@ $10.50 each per day, 30 + days, (518 man days)	5,439.00

Total Category (1), rounded $121,614.00

2. Under the heading Estimated Cost of the Project, Actual Costs, Total Estimated Actual Costs is revised to read:

Total Estimated Actual Costs (rounded) $133,989.00

3. Under the heading Estimated Costs of the Project, add a section to read as follows:

Fixed Unit Costs

Tent base camp in Ice Lake Basin, mobilization and demobilization	$ 100.00
Shelter and subsistence, 17 personnel @ $10.50 each per day, 62 + days	11,211.00

Total Estimated Fixed Unit Costs . . . . . $ 11,311.00

4. Summary is revised to read:

Total Estimated Actual Costs (rounded). . .	$133,989.00
Total Estimated Fixed Unit Costs	$ 11,311.00
Total Estimated Cost of the Project . . .	$145,300.00
Government Participation @ 75%	$108,975.00

This amendment shall not be construed to increase the estimated cost of the contract, the aggregate amount which the Government may be required to contribute, nor the amount of any item designated as maximum.

Executed in quadruplicate the day and year first above written.

By_____
Chief, Office of Minerals Exploration

VITRO MINERALS CORPORATION

By_____

Title_____

7/7/69
Frances Clark will inform Elmer to bill all expenses under Fixed Unit Costs.
WFE

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

720 EQUITABLE BUILDING / 730 17TH STREET / DENVER, COLORADO 80202 / 303-623-7153

June 30, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 3 1969
INITIALS | CODE
~~130~~
bal 120
HK ~~120~~

OME Region III
RECEIVED
JUL 1 - 1969
Denver, Colorado

Mr. J. William Hasler
Office of Minerals Exploration
United States Geological Survey
Federal Center
Denver, Colorado

Dear Mr. Hasler:

Under the Exploration Contract Docket Number OME-6689 dated July 31, 1968 covering reimburseable costs we had contracted for board at $10.50 per day for each employee, this was contracted to George Lancaster. Mr. Lancaster has terminated the arrangements to room and board the personnel working under this Agreement.

We are requesting approval to allow us to room and board the employees under contract for drilling this property and qualifying for the participation in the cost under Shelter and Subsistence of the Exploration Contract with the OME Office. The company feels that it can provide room and board for the personnel and have less difficulties than what we are encountering in trying to contract this out. Mr. Lancaster stated he was losing money and could no longer provide this service at the $10.50 price, because of this, we are asking your approval to maintain the quarters and feed the personnel and submit a statement setting forth the days and the personnel covered for a participating cost of $10.50 per day as called for under the OME Loan. We feel we can provide this for nearer the amount called for as indicated in reimburseable participation cost.

On the assumption that this will be approved we have hired a cook and are constructing shelter for the employees.

Thank you for this consideration.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer

Keith H. Elmer
Controller

KHE:rm

Original to Washington 7/1/69

Vitro MINERALS CORPORATION

Subsidiary of

EARTH RESOURCES COMPANY

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 27 1969

INITIALS	CODE
	120
gla	120
JHK	120

OME Reg.
RECEIVED
JUN 24 1969
Denver, Colorado

June 23, 1969

OME-6689

Mr. J. William Hasler
Office of Minerals Exploration
United States Geological Survey
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

In accordance with the provisions of the OME Contract Number 2262 Docket Number 6689, we wish to advise that Vitro Minerals Corporation started to move equipment to the Ice Lake Property on June 11, 1969 and drilling will commence this week.

Very truly yours,

VITRO MINERALS CORPORATION

Original Signed by
K. H. ELMER

Keith H. Elmer
Controller

KHE:rm

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 19 1969

INITIALS	CODE
	150
gm	120
HK	120

June 18, 1969

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Ag-Au)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Mr. Keith H. Elmer, Controller for the Operator informed this office by telephone June 17, 1969 that the Operator is presently moving equipment and materials into the Ice Lake project area, and that exploration work will actually be resumed prior to July 1, 1969.

This office will be notified by letter concerning the actual date of resumption of the exploration work in the Ice Lake project.

J. William Hasler

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

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/28/70	Emerick	120
"	Kirkham	120
		220
		120M

May 28, 1970

Memorandum

To: The File

From: William L. Emerick
Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Justification for Relocating Diamond Drill Hole No. 2A

Approximately 1,900 feet of drilling footage remains under the contract for further exploration of the Lucy-Last Hope veins. As set up under the contract diamond drill hole No. 2A was to have been drilled from the same site or collar location as hole No. 3A. The Operator requested permission to move the collar location of diamond drill hole No. 2A to a new collar position, to be designated No. 2B, approximately 630 feet south along the strike of the vein.

The hole inclination to its intersection with the vein at the 2A collar location would be -47° on a bearing of S. 54° 15' E., which is at an angle to the strike of the vein. Postulated depth of the hole was 1,050 feet.

At the new collar location designated No. 2B, the inclination of the hole to its intersection with the vein will be -53° on a bearing of N. 72° 30 E., which is a bearing approximately normal to the strike bearing of the vein. Postulated depth of the hole to its intersection with the vein is 700 feet.

The Operator's plan map, submitted with the relocation request, suggests that there should be no topography problems involved in moving to a new collar location. There are several advantages in relocating the collar position, namely, (1) there will be no change in the target area, (2) the hole will be drilled approximately normal to the strike of the vein instead of at an angle to it, and (3) the depth of the hole will be shortened from 1,050 feet to 700 feet.

Paragraph 8 under General Provisions of the contract provides authority for granting permission for changes in the location, direction, and extent of any work item in the contract.

William L. Emerick

William L. Emerick

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME - Mr. Emerick

WLEmerick/bsl 5/28/70

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 21 1969
INITIALS | CODE
120

January 16, 1969

Memorandum

To: Chief, Office of Minerals Exploration

From: James L. Gualtieri

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties,
Colorado
Contract 2262

Transmitted herewith is the original and ~~two~~ 3 copies of the Operator's Monthly Voucher for the period 7/31/68 through 10/31/68 on the above-stated subject.

J. L. Gualtieri for

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

Enclosures

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

January 7, 1971

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 11 1971

INITIALS	CODE
glr	30
Eal	20
HK	~~120~~
HE	~~120~~ E

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Transmitted herewith is the October, 1970 and final Operator's Monthly Voucher for the subject contract with supporting data, as well as a request to amend the contract to allow for additional drilling and other increased costs. Enclosed also is the Operator's copy of an Administrative Suspension Statement reclaiming $32.20 for Drill Hole #7, which has since been completed, and to release $200.00 withheld pending resumption of work in 1970. Work was resumed on June 15, 1970 and completed during October 1970.

Two copies of the Operator's final geologic and engineering report is also transmitted herewith, and is acceptable, along with the geologic and engineering report dated October 1969 that covers the drilling completed during the 1969 period.

It is concluded that certain geologic data concerning the Lucy-Last Hope, Diamond, and Columbus-Grandview veins in the Ice Lake Basin was obtained as a result of the exploration program, especially as to vein continuity, however the discovery of significant mineralized material was essentially non-existant. It is recommended that the contract be terminated and that no certification of discovery be made as there were no significant reserves of silver ore discovered as a result of the exploration work.

J. William Hasler

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

ORM 9-1648
ARCH 1968

OFFICIAL COPY O. M. E. RECEIVED FEB 6 1969 INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Period 7-31/68 Thru 10-31/68

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th Street
Denver, Colorado 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE Period 7-31 Thru 10-30/68 THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
ategory (2) Personal Services Continued		$		$		$		$
Geologist (17)	36days	1,554.48	36days	1,554.48	36 days	$ 1,554.48	36 days	$ 1,554.48
Field Assts. (18)	37 "	1,008.99	37 "	1,008.99	37 days	1,008.99	37 days	1,008.99
ategory (7) Miscellaneous None Exempt								
Assay, 400 samples								
Gold & Silver	46	161.00	46	161.00	46 samples	140.00	46 samples	140.00
Lead & Zinc	46	92.00	46	92.00	46 samples	57.53	46 samples	57.53
Copper (19)	8	12.00	8	12.00	8 samples	12.00	8 samples	12.00
Rental of Core Storage space 3 months at $50/month (20)		150.00		150.00	3mos	150.00	3mos	150.00
Office Expenses 3 months $75/month (21)	3months	225.00	3months	225.00	3mos	225.00	3mos	225.00
Payroll Taxes and Insurance (22)		332.73		332.73	–	329.31 ~~315.65~~	–	~~315.65~~
Vehicle Rental 2 Vehicles 3 months $30/month each (23)	2	180.00	2	180.00	2⅔ mos	132.00	2⅔ mos	132.00
otal Invoice $50,958.77 overnment Participation 5% $38,219.08								
						50,026.63		50,026.63
TOTALS		$ 50,958.77		$ 50,958.77		$ ~~50,022.29~~		$ ~~50,022.29~~

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

Date 11-22-68 *Payee VITRO MINERALS CORPORATION

Per Keith H. Elmer Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature James L. Gualtieri OME Field Officer Date 1/16/69

$200.00 withheld see other side
37,519.97 (63) 14X0804
14X6875(68)

Approved for: $ 200.00 (SUBJECT TO AUDIT)
37,319.97

Signature

Date FEB 4 1969 Vou. No. 94563

(SEE OTHER SIDE)

ORM 9-1648
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

Period For Month of 7-31/68 Thru 10-31/68

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation %75 $ 108,975.00

Operator's Name Vitro Minerals Corporation
Address 720 Equitable Bldg, 730 17th Street
Denver, Colorado 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: Period 7-31 thru 10-31/68 THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
rilling - Continued								
Casing lost in completed holes (7)		204.00		204.00	–	$ 0.00	–	$ 0.00
Core Boxes, cardboard (8)		405.00		405.00	450 boxes	405.00	450 boxes	405.00
Cement, drill, muds additives (9)		175.62		175.62	–	175.62	–	175.62
Surveying with in-hole instruments (10)	17 hr.	374.00	17 hr	374.00	17 hrs	374.00	17 hrs	374.00
ransportation								
Helicopter Time (11)	129.5	15,437.50	129.5	15,437.50	123.5 hrs	15,437.50	123.5 hrs	15,437.50
Helicopter Time (12)	65.7	7,555.50	65.7	7,555.50	65.7 hrs	7,555.50	65.7 hrs	7,555.50
Saddle Horses 4 @ $6.50/day each for 93 days (13)	221	1,538.00	221	1,538.00	221 Horse days	1,436.50	221 Horse days	1,436.50
helter and Subsistance								
Tent base camp (14)								
Camp and Board 17 personnel @$10.50/ea per day 93 days (15)	519	5,449.50	519	5,449.50	~~519~~ 518 Man days	~~5,439.00~~ 5,449.50	~~519~~ 518 Man days	~~5,439.00~~ 5,449.50
Category (2) Personal Services								
None Exempt								
Sub-category (A) Supervision & Technical Service								
Supervisor (16)	41 days	1,863.45	41days	1,863.45	36 days	1,636.20	36 days	1,636.20
TOTALS		$		$		$		$

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

Date 11-22-1968 *Payee VITRO MINERALS CORPORATION

Per Keith H. Elmer Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature James J. Gualtieri OME Field Officer Date 1/16/69

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

RM 9-1648
RCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-WRS
1/27/69

OPERATOR'S MONTHLY VOUCHER

For ~~Month~~ Period of 7-31/1968 Thru 10-31/1968

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name Vitro Minerals Corporation
Address 720 Equitable Bldg., 730 17th Street
Denver, Colorado 80202

COST ITEMS	FOR OPERATOR'S USE: THIS MONTH (Period 7-31 thru 10/31/68) UNITS	COSTS	TO DATE UNITS	COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	COSTS	TO DATE UNITS	COSTS
Independent Contracts		$		$		$		$
Category (1) Drilling								
Mobilization & Demobilization to staging area, crews & Equip. 3 surface drill units (1)		1,225.00		1,225.00	–	$ 1,225.00	–	$ 1,225.00
Mobilization & Demobilization at initial drill sites 3 @$150.00 each (2)		450.00		450.00	–	450.00	–	450.00
Moving between drill sites & setting up drill rigs 3 Operations @$150.00 each (3)		432.00		432.00	1 operation	150.00	1 operation	150.00
Diamond Core & Overburden drilling -Rate See Contract								
Drill Hole #1 (4)	10'	105.00	10'	105.00	10'	105.00	10'	105.00
	240'	2,004.00	240'	2,004.00	240'	2004.00	240'	2,004.00
	108'	907.20	108'	907.20	108'	907.20	108'	907.20
	142'	1,228.30	142'	1,228.30	142'	1,228.30	142'	1,228.30
	105'	913.50	105'	913.50	105'	913.50	105'	913.50
Drill Hole #8 (4)	10'	105.00	10'	105.00	10'	105.00	10'	105.00
	240'	2,004.00	240'	2,004.00	240'	2,004.00	240'	2,004.00
	250'	2,162.50	250'	2,162.50	250'	2,162.50	250'	2,162.00
	230'	2,058.50	230'	2,058.50	230'	2,058.50	230'	2,058.50
Reaming & Casing (5)	70'	385.00	70'	385.00	70'	385.00	70'	385.00
Cementing and Redrilling (6)		260.00		260.00	10 hrs	260.00	10 hrs	260.00
TOTALS		$		$		$		$

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

Date 11-22-68 *Payee VITRO MINERALS CORPORATION

Per Keith H. Elmer Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature James L. Gualtieri, OME Field Officer — Date 1/16/69

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

94563

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

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee:

Vitro Minerals Corp.
720 Equitable Bldg.
730 17th St.
Denver, Colo. 80202

Amount Claimed:	Differences (Explained Below)	Amount Approved
50,958.77	932.14	50,026.63 37,519.97 Gov. Part. Less 200.00 * 37,319.97
Bu. Voucher No.	**Payee's Invoice No.**	**Period**
	Docket #6689 Contract #2262	7/31/68 - 10/31/68

EXPLANATION

Claimed	Allowed		Disallowed
$432.00 for moving between drill	$150.00 for 30		282.00
1,538.00 for 221 horse days	1,436.50	for 221 days at 6.50 per day	101.50
204.00 Casing lost in holes	-0-		204.00
5,449.60 for 519 Man days	5,439.00	Supporting documents only show 518 days	10.50
1,863.45 for Supervisor including 5 days with two.	1,636.20	because Contract only allows one Supervisor on project at one time.	227.25
161.00 for 46 Au Ag Assays	140.00	for 46 Assays - Can only allow the amount billed.	21.00
92.00 for 46 Pb Zn	57.53	Same as above	34.47
332.73 for P.R. taxes & ins. prorated on Contract Allow.	329.31	Actual	3.42
180.00 for Vehicle Rental for 3 months	132.00	for Rental - since active operation only lasted 2 1/3 mo.	48.00
			932.14

* Withholding $200.00 pending resumption of work.

Paid 2/4/69

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

ms

Branch of Budget and Finance

1.

RM 9-1648
ARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OK-WRE
1/27/69

OPERATOR'S MONTHLY VOUCHER

Period For ~~Month~~ of 7-31/1968 Thru 10-31/1968

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $ 108,975.00

Operator's Name Vitro Minerals Corporation
Address 720 Equitable Bldg., 730 17th Street
Denver, Colorado 80202

COST ITEMS	FOR OPERATOR'S USE: THIS MONTH (Period 7-31 thru 10/31/68) UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Independent Contracts		$		$		$		$
ategory (1) Drilling								
Mobilization & Demobilization to staging area, crews & Equip.								
3 surface drill units (1)		1,225.00		1,225.00	—	1,225.00	—	1,225.00
Mobilization & Demobilization at initial drill sites 3 @$150.00 each (2)		450.00		450.00	—	450.00	—	450.00
Moving between drill sites & setting up drill rigs 3 Operations @$150.00 each (3)		432.00		432.00	operation	150.00	operation	150.00
Diamond Core & Overburden drilling -Rate See Contract								
Drill Hole #1 (4)	10'	105.00	10'	105.00	10'	105.00	10'	105.00
	240'	2,004.00	240'	2,004.00	240'	2004.00	240'	2004.00
	108'	907.20	108'	907.20	108'	907.20	108'	907.20
	142'	1,228.30	142'	1,228.30	142'	1,228.30	142'	1,228.30
	105'	913.50	105'	913.50	105'	913.50	105'	913.50
Drill Hole #8 (4)	10'	105.00	10'	105.00	10'	105.00	10'	105.00
	240'	2,004.00	240'	2,004.00	240'	2,004.00	240'	2,004.00
	250'	2,162.50	250'	2,162.50	250'	2,162.00	250'	2,162.00
	230'	2,058.50	230'	2,058.50	230'	2,058.50	230'	2,058.50
Reaming & Casing (5)	70'	385.00	70'	385.00	70'	385.0	70'	385.00
Cementing and Redrilling (6)		260.00		260.00	10 hrs	260.00	10 hrs	260.00
TOTALS		$		$		$		$

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

Date 11-22-68 *Payee VITRO MINERALS CORPORATION

Per Keith H. Elmer Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature James L. Gualtieri, OME Field Officer — Date 1/16/69

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

FORM 9-1648
MARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

Period ~~For Month~~ of 7-31/68 Thru 10-31/68

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation %75 $ 108,975.00

Operator's Name Vitro Minerals Corporation
Address 720 Equitable Bldg, 730 17th Street
Denver, Colorado 80202

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: Period 7-31 Thru 10-31/68 THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
rilling - Continued								
Casing lost in completed holes (7)		204.00		204.00	—	$ -0.00	—	$ 0.00
Core Boxes, cardboard (8)		405.00		405.00	450 boxes	$ 405.00	450 boxes	405.00
Cement, drill, muds additives (9)		175.62		175.62	—	175.62	—	175.62
Surveying with in-hole instruments (10)	17 hr.	374.00	17 hr	374.00	17 hrs	374.00	17 hrs	374.00
ransportation								
Helicopter Time (11)	129.5	15,437.50	129.5	15,437.50	123.5 hrs	15,437.50	123.5 hrs	15,437.50
Helicopter Time (12)	65.7	7,555.50	65.7	7,555.50	65.7 hrs	7,555.50	65.7 hrs	7,555.50
Saddle Horses 4 @ $6.50/day each for 93 days (13)	221	1,538.00	221	1,538.00	~~221~~ Horse Days	1,436.50	~~221~~ Horse days	1,436.50
helter and Subsistance								
Tent base camp (14)								
Camp and Board 17 personnel @$10.50/ea per day 93 days (15)	519	5,449.50	519	5,449.50	~~519~~ 518 Man Days	~~5439.00~~ 5,449.50	~~519~~ 518 Man Days	~~5439.00~~ 5,449.50
ategory (2) Personal Services								
None Exempt								
Sub-category (A) Supervision & Technical Service								
Supervisor (16)	41 days	1,863.45	41days	1,863.45	36 days	1,636.20	36 days	1,636.30
TOTALS		$		$		$		$

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

Date 11-22-1968 *Payee VITRO MINERALS CORPORATION

Per Keith H. Elmer Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature James L. Gualtieri OME Field Officer Date 1/16/69

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

ORM 9-1648
ARCH 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

Period For ~~Month~~ of 7-31/68 Thru 10-31/68

Docket No. OME- 6689
Contract 14-08-0001 2262
Contract Amount $ 145,300.00
Gov't. Participation % 75 $108,975.00

Operator's Name VITRO MINERALS CORPORATION
Address 720 Equitable Bldg. 730 17th Street
Denver, Colorado 80202

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	Period THIS MONTH 7-31 thru 10-30/68 UNITS	COSTS	TO DATE UNITS	COSTS	THIS MONTH UNITS	COSTS	TO DATE UNITS	COSTS
ategory (2) Personal Services Continued		$		$		$		$
Geologist (17)	36days	1,554.48	36days	1,554.48	36 days	$ 1,554.48	36 days	$ 1,554.48
Field Assts. (18)	37 "	1,008.99	37 "	1,008.99	37 days	1,008.99	37 days	1,008.99
ategory (7) Miscellaneous None Exempt								
Assay, 400 samples								
Gold & Silver	46	161.00	46	161.00	46 samples	140.00	46 samples	140.00
Lead & Zinc	46	92.00	46	92.00	46 samples	57.53	46 samples	57.53
Copper (19)	8	12.00	8	12.00	8 samples	12.00	8 samples	12.00
Rental of Core Storage space 3 months at $50/month (20)		150.00		150.00	3 mos	150.00	3 mos	150.00
Office Expenses 3 months $75/month (21)	3months	225.00	3months	225.00	3 mos	225.00	3 mos	225.00
Payroll Taxes and Insurance (22)		332.73		332.73	–	~~329.31~~ ~~315.65~~	–	~~329.31~~ ~~315.65~~
Vehicle Rental 2 Vehicles 3 months $30/month each (23)	2	180.00	2	180.00	2 1/5 mos	132.00	2 1/5 mos	132.00
otal Invoice $50,958.77 overnment Participation 5% $38,219.08								
						50,036.63		50,036.63
TOTALS		$ 50,958.77		$ 50,958.77		$ ~~50,022.29~~		$ ~~50,022.29~~

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

Date 11-22-68 *Payee VITRO MINERALS CORPORATION

Per Keith H. Elmer Title Controller

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

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

(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature James L. Gualtieri OME Field Officer 11/16/69 Date

* 200.00 Withheld - See other side

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

2382 WEST 580 NORTH
SALT LAKE CITY, UTAH 84116

INC.

Specialists in Aerial Spraying, Fire Fighting and Mountain Flying

FIXED WING AND HELICOPTER

~~1231 SOUTH MAIN STREET~~ • SALT LAKE CITY, UTAH ~~202-4913~~

RECEIVED
SEP 16 1968
VETRO MINERALS
CHEMICAL CORP.

DATE SEPT. 12, 1968

VETRO CHEMICAL CORP.
600 WEST 3300 SOUTH
SALT LAKE CITY, UTAH

BALANCE OF FLIGHT TIME FOR 30 DAY PERIOD
24TH JULY TO AUG. 23.
(ALREADY INVOICED 29.4 HR.) through 7-30-68

(1) 30.6 HRS.	@125.00	$3825.00	(11)
(2) 36.7 HRS.	@115.00	4220.50	(12)
	TOTAL-	$8045.50	

COPY OF INVOICE #4112

Thank You! IT HAS BEEN A PLEASURE TO SERVE YOU!

OME Region III
RECEIVED
DEC 30 1968
Denver, Colorado

2382 W. 1700 S. NORTH
SALT LAKE CITY, UTAH 84116

TRANS-WEST AIR SERVICE

Division of Aerial Applicators, Inc.

FAA REPAIR STATION #4683 | ENGINE OVERHAUL & AIRCRAFT MAINTENANCE

CHARTER SERVICE

CUSTOMER'S ORDER NO.

DATE Sept. 7, 1968

SOLD TO Vitro Chemical

ADDRESS 600 West 3300 South

SALESMAN Salt Lake City, Utah TERMS GH

CASH SALE	CHARGE SALE	MDSE. RET'D	REC'D. ON ACC'T	MISC.	PAID OUT
	✓				

QTY.	PART NUMBER	DESCRIPTION	PRICE	AMOUNT
		Helicopter flying in Silverton, Colo. as per agreement.		
		Aug. 26 to Sept 2		
(1) 24.3 hrs.		@ 125.00		3037.50 (10)

USE TAX | FREIGHT | PRICE

VOUCHER NO. 3705

ACCOUNT | AMOUNT

O.K. [illegible]
9-23-68

PAID

Vitro-OME
OCT 10 1968

805. -100

RECEIVED
SEP 9 1968
VITRO MINERALS CORPORATION

RECEIVED BY

TOTAL 3037.50

4283

Firmpak Moore Business Forms, Inc.

OME Region III
RECEIVED
DEC 30 1968
Denver, Colorado

INVOICE

SPRAGUE & HENWOOD, Inc.

SCRANTON 2, PA., U.S.A.

S&H SINCE 1883

OME Region III RECEIVED DEC 30 1968 Denver, Colorado

C 13413

ADDRESS ALL COMMUNICATIONS TO MAIN OFFICE
BOX 2556
Salt Lake City, Utah 84110

CONTRACTORS FOR DIAMOND DRILLING
DRILLING - SOIL SAMPLING - PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

Vitro Minerals Corporation
P. O. Box 15437
Salt Lake City, Utah 84115

LOCATION

VIA

INVOICE DATE	INVOICE NO.	YOUR ORDER NO.	ORDER DATE	TERMS: NET CASH NO DISCOUNT ALLOWED	CONT. NO.	ENTERED BY:
8-21-68	C 13413	Proposal	4-29-68			

DESCRIPTION

To Charges Account Drilling - Ice Lake, Colorado Project - Period 7-31-68 thru 8-17-68.

Item 1. Mobilization			½ Lump Sum	$ 1,225.00	(1)
Item 2. Overburden Drilling					
Hole No. 1					
(0 - 10')	10'	@	$10.50/ft.	105.00	(1)
Hole No. 4.					
(0 - 54')	54'	@	10.50/ft.	567.00	(1)
Hole No. 8					
(0 - 10')	10'	@	10.50/ft.	105.00	(1)
Item 3. Core Drilling					
Hole No. 1					
(10-- 250')	240'	@	8.35/ft.	2,004.00	(1)
(250 - 333')	83'	@	8.65/ft.	717.95	
Hole No. 8					
(10 - 223')	213'	@	8.35/ft.	1,778.55	(1)
Item 4. Reaming					
Hole No. 1					
(10 - 79')	69'	@	5.50/ft.	379.50	(1)

continued page 2

WOOD, INC.

SECOND SHEET INVOICE

Vitro Minerals Corporation
Salt Lake City, Utah 84115

Invoice No. C 13413
August 21, 1968

Item 5.	No Quantity.					
Item 6.	Moving in, rigging up water line installation -	406 hours	@	$ 9.00/hr.	$ 3,654.00	(2)
Item 7.	Standby	7 hours	@	22.00/hr.	154.00	
Item 8.	Core Boxes	300 BX	@	.90 each	270.00	(8)
		150 AX	@	.90 each	135.00	
Item 9.	No Quantity					
					$11,095.00	

OK
Tiphone
OHL

805.97/100

Contract No. 2262

USE TAX	FREIGHT	PRICE TERMS & FOR CHECK

VOUCHER NO. 3360

DISTRIBUTION ACCOUNT

PAID

SEP 23 1968 805.97/100 11095.00

RECEIVED
AUG 26 1968
VITRO MINERALS CORPORATION

HENWOOD, INC. SECOND SHEET INVOICE

Vitro Minerals Corporation
Salt Lake City, Utah 84115

Invoice No. 13413
August 21, 1968

BREAKDOWN ITEMS 6 and 7

Item 6.

Name	7/31	8/1	8/2	8/3	8/4
1. Wallace Rogers	10	--	--	--	--
2. Richard Lucas	10	10	10	10	8
3. David McGinn	10	10	10	10	8
4. David Revello	2	9	10	9	5
5. Lemuel Hammes	10	10	10	10	8
6. Peter Klein	10	--	--	--	--
7. John Ross	10	10	10	--	8
8. Ray Riley	11	10	10	8	5
9. Ed Murphy	11	10	10	4	5
10. James Huffman	8	8	10	5	8
	92	77	80	56	55

8-5 16 hours. (2 man crew)
8-6 10 hours (1 man - Ross)
8-12 20 hours (2 men - Revello - Lucas)
406 hours

Item 7.

8-14 2 hours
8-15 4 hours
8-16 1 hour
7 hours

RECEIVED AUG 26 1968 VITRO MINERALS CORPORATION

INVOICE

SPRAGUE & HENWOOD Inc.

SCRANTON 2, PA., U. S. A.

SINCE 1893

C 13420

ADDRESS ALL COMMUNICATIONS
TO MAIN OFFICE
BOX 2556
Salt Lake City, Utah 84110

CONTRACTORS FOR
DIAMOND DRILLING
SHOT DRILLING - SOIL SAMPLING - PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

RECEIVED
DEC 30 1968
Denver, Colorado

SEP 20 1968
VITRO MINERALS & CHEMICAL COMPANY

Vitro Minerals Corporation
P. O. Box 15437
Salt Lake City, Utah 84115

LOCATION

VIA

INVOICE DATE	INVOICE NO.	YOUR ORDER NO.	ORDER DATE	TERMS	CONT. NO.	ENTERED BY
9-19-68	C 13420	Proposal	4-29-68	NET CASH NO DISCOUNT ALLOWED		

DESCRIPTION

To Charges Account Drilling - Ice Lake, Colorado Project - Period ending 9-14-68.

Item 1. No Quantity.

Item 2. Overburden Drilling

Hole No. 4

(54 - 70)	16'		@	10.50/ft.	$ 168.00 (4)

Item 3. Core Drilling

Hole No. 1

(333 - 392)	59'	BX	@	8.65/ft.	510.35
(392 - 500)	108'	AX	@	8.40/ft.	907.20 (4)
(500 - 605)	105'	AX	@	8.70/ft.	913.50

Hole No. 4

(70 - 250)	180'	BX	@	8.35/ft.	1,503.00
(250 - 395)	145'	BX	@	8.65/ft.	1,254.25 (4)

Hole No. 8

(223 - 250)	27'	BX	@	8.35/ft.	225.45
(250 - 500)	250'	BX	@	8.65/ft.	2,162.50 (4)
(500 - 682)	182'	BX	@	8.95/ft.	1,628.90

Item 4. Reaming

Hole No. 1

(79 - 80)	1'		@	5.50/ft.	5.50 (5)

Item 5. No Quantity.

continued page 2

SPRAGUE & HENWOOD, INC.

OND SHEET INVOICE

Vitro Minerals Corporation
Salt Lake City, Utah 84115

September 19, 1968

Invoice No. 13420

Item 6. Moving, Laying Water Line

Date	Hours
9-12-68	4
9-13-68	10
9-14-68	10
	24 hours

24 hours @ $ 18.00/hr. 432.00 (3)

Item 7. Standby - Travel

Date	Hours	Date	Hours
8-18-68	1	9- 4-68	4 9-9-68 10
8-19-68	2	9-11-68	2
8-20-68	2	9-12-68	2
8-21-68	6	9-13-68	1
8-26-68	4	9-14-68	1
			25 hours

~~25 hours~~ 35 hours @ 22.00/hour Less 50% ~~275.00~~ 385.00

Standby - Surveys

Date	Hours	Date	Hours
8-28-68	1	9- 9-68	~~14~~ 4
8-30-68	3	9-10-68	2
8-31-68	1	9-11-68	4
		9-12-68	2
			27 hours

~~27 hours~~ 17 @ 22.00/hr. ~~594.00~~ 374.00 (10)

Item 8. No Quantity.

Item 9. Casing Left At Request

Vitro only

Hole No. 1

333' AX @ 18.30/10' length -Less 5% 573.70 ~~521.55~~

@ 11.45/ 3' length -Less 5% 10.88

Vitro only

Continued page 3

SPRAGUE & HENWOOD, INC.

OND SHEET INVOICE

Vitro Minerals Corporation
Salt Lake City, Utah 84115

September 19, 1968

Invoice No. 13420

-3-

Miscellaneous

Condition 2. Drilling Mud, Additives, Cement

20 sacks (100#)	Gel	@	2.38/bag	47.60
1 sack (50#)	Caustic Soda	@	7.69/bag	7.69
1 sack (50#)	Quebracho	@	16.31/bag	16.31
5 sacks (40#)	Cal-Seal	@	6.13/bag	30.65
2 sacks (100#)	Bran	@	3.63/bag	7.26
2 sacks (25#)	Am-9			56.15
25#	AMM. Persulphate	@		9.96
	Sludge Boxes - Anderson Lumber Company #23972			17.48
10 hours	Shop Time	@	7.50/hr.	75.00
				$ ~~11,380.28~~

(9) 175.62

3 sludgeboxes previously billed - not allowed twice.

Deduct 92.48

D.M.

~~$ 11,432.73~~

less 92.48

11339.85

OK
LeRoy
9-23-68
805 -100

Vitro-OME

$ 11,322.63

USE TAX

TOTAL INVOICE PICKED

a

VOUCHER NO. 3703

	AMOUNT
805-97-1-100	11339.85

PAID

OCT 7 1968

JLH

Vitro MINERALS CORPORATION
720 Equitable Building
730 Seventeenth Street
Denver, Colorado 80202

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 17 1969

INITIALS	CODE
	120
Gal	120
	110
HK	120

OME Regional
RECEIVED
JAN 8 - 1969
Denver, Colorado

January 7, 1969

Mr. J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration
United States Department of Interior
Geological Survey
Building 53, Room 200
Federal Center
Denver, Colorado 80225

SUBJECT: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan & San Miguel
Counties, Colorado
Contract 2262

Dear Mr. Hasler:

We are returning three executed copies of Amendment No. 1 to our Ice Lake Project. We appreciate your assistance in obtaining the suspension and extension of our program.

We are looking forward to your visit this summer, and suggest you bring some field equipment such as a fly rod.

Very truly yours,

VITRO MINERALS CORPORATION

C. H. Smith
Exploration Manager

CHS/jv

Enclosures

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

January 10, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 13 1969

INITIALS	CODE
gl	130
JL	120
~~RCL~~	~~140~~
HK	~~120~~

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan & San Miguel Counties, Colorado
Contract 2262

Transmitted herewith are the "Government's Copy" and the "Budget and Finance's Copy" of Amendment No. 1 signed for the Government and by the President of Vitro Minerals Corporation pertinent to the above-captioned subject.

J. William Hasler

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

Enclosures

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL COPY
M. E.
RECEIVED
JAN 6 1969
INITIALS | CODE
HK | 120

January 3, 1969

Mr. Cecil Smith, Manager of Exploration
Vitro Minerals and Chemical Co.
720 Equitable Building
730 17th Street
Denver, Colorado 80202

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan & San Miguel Counties, Colorado
Contract 2262

Dear Mr. Smith:

Enclosed are the original and three copies of proposed Amendment No. 1 (three pages) to the subject contract, signed for the Government.

If the proposed amendment is satisfactory to you all four copies should be signed by an authorized representative, and return all but the "Operator's Copy" to this office.

If any part of the proposed amendment does not have your approval, the original and all copies are to be returned to this office together with the proposed changes for consideration.

Sincerely yours,

J. William Hasler

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

Enclosures
cc: Chief, OME
cc: OME-6689
OME chron
Mr. Hasler

MME Form 7
(2/63)

12/31

OFFICIAL FILE COPY

Date	Surname	Code
12/26/68	On lv.	120E
"	On lv.	120
"	Johnson	110
12/30	Kuizyan	220
12/30	Kupp	
		110
		220

120M

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed are the original and three copies of proposed Amendment No. 1 (three pages) to the subject contract, signed for the Government. An extra copy of the amendment is also enclosed for field use.

If the proposed amendment is satisfactory to you and the Operator, all four copies should be signed by an authorized representative of the Operator and distributed in the usual manner.

If any part of the proposed amendment does not have your approval or that of the Operator, the original and all copies are to be returned to this office together with the proposed changes for consideration.

FRANK E. JOHNSON
Frank E. Johnson

Enclosures

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Emerick
130

GLAult/a 12-26-68

Vitro MINERALS CORPORATION
600 W. 33rd SO. ST. P. O. BOX 15437 SALT LAKE CITY, UTAH 84115 TELEPHONE 262-2491

November 26, 1968

Mr. J. William Hasler
Office of Minerals Exploration
United States Geological Survey
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

We wish to inform you that Vitro Minerals Corporation is relocating their Corporate and General Accounting Offices to Denver, Colorado effective December 1, 1968.

We would appreciate your correct your mailing address to read: VITRO MINERALS CORPORATION 720 Equitable Building, 730 17th Street, Denver, Colorado 80202.

Very truly yours,

VITRO MINERALS CORPORATION

Keith H. Elmer
Controller

KHE:rm

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 11 1968
INITIALS | CODE
HK 720

Copy forwarded to Branch of Budget & Finance
12/10/68 (Re: OME-6689, Contract 2262)

MME FORM 6 REFERENCE SLIP

REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. Assoc. Sol.--~~MR,~~ Room 6554 (Through Room 6042)		
2. Mr. Emerick 4459		
3.		
4.		
5.		
FROM: Chief, OME		

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

__x__ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference __x__ Rewrite ____ File

____ Instructions ____ Your information

REMARKS: L-68-20673192

RECEIVED DEC 11 1968 Division of Mineral Resources General Legal Services

SOLICITOR DEC 11 1968 INTERIOR DEP

INT.-DUP. SEC., WASH., D.C.

In hand 12/10/68

120 Emerick
120 HK
~~110~~ JHJ
120M

12/9/68 DRAFT
WLEmerick/bsl

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

AMENDMENT NO. 1

It is agreed this _____ day of _____, 1968, between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, Office of Minerals Exploration, hereinafter called the "Government", and Vitro Minerals Corporation, hereinafter called the "Operator," that Exploration Contract 2262 (OME-6689), dated July 31, 1968 is amended effective October 3, 1968, as follows:

1(a) Work under the contract may be suspended during the period beginning October 4, 1968, and ending not later than July 1, 1969.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government.

(c) The Government shall not contribute to any cost of rehabilitation or repair incurred by the Operator which in its opinion would not have occurred had there been no suspension of the work.

(d) 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.

2. The time fixed by Article 1 of the contract for the completion of the work is extended from 15 to 24 months from the date of the contract, or until July 31, 1970.

3. The maximum period for royalty payments and for the lien to secure the payment thereof provided for in the contract is extended from 10 to 11 years from the date of the contract.

4. It is the essence of the contract that the work be resumed on or before the termination of the period herein fixed for suspension and if not so resumed, in the manner required by the contract, the following provisions shall thereupon become effective:

(a) The contract and all obligations of the parties thereunder, except as hereinafter otherwise provided, shall be and are hereby terminated effective October 4, 1968, if the work has not been resumed on or before July 1, 1969.

(b) The Government will contribute only to allowable costs incurred prior to the date set forth in 4(a) above.

(c) 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.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example, if the Operator either transfers or fails to retain his interest in the land), shall pay th the Government the royalty on production provided for in the contract in the same manner and amount, for the same period, and subject to the same provisions provided for in the contract as amended herein as if certification of possible production had been made, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the contract with respect to a certification of possible production, percentage royalty and liens to secure payment thereof, reports (including preservation of Operator's records), accounts, audits, and the right to recover any overpayments are hereby preserved.

(e) The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of the contract, except as otherwise provided for in this Amendment No. 1.

This amendment shall not be construed to increase the estimated total cost of the contract, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, nor the fixed unit cost of any item of work.

Executed in quadruplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By_____
Chief, Office of Minerals Exploration

VITRO MINERALS CORPORATION

By_____

Title_____

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 203

November 22, 1968

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

A letter from the Operator dated November 12, 1968 notifying us the Operator had suspended operations under the subject contract due to adverse weather conditions was received in this office November 14, 1968. A copy was sent to you on the same day.

The letter I believe constitutes a request for an amendment to recess the project from October 4, 1968 until June 15, 1969 or thereabouts.

I recommend that an amendment to the contract be prepared to allow for the recess, and suggest July 1, 1969 as a beginning date.

J. William Hasler

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

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November 12, 1968

RECEIVED
NOV 14 1968
Denver, Colorado

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

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan, San Miguel Counties, Colorado
Contract 2262

Dear Mr. Hasler:

The purpose of this letter is to notify you that Vitro Minerals Corporation has recessed operations under OME-6689 (Silver), Ice Lake Project, San Juan, San Miguel Counties, Colorado, on October 4, 1968. Suspension of operations was due to advance weather conditions in the Ice Lake Basin area.

We plan to resume operations on or about June 15, 1969 and request your approval of these plans.

Thank you for your cooperation.

Very truly yours,

VITRO MINERALS CORPORATION

Original Signed by
Cecil H. Smith

CECIL H. SMITH
Exploration Manager

CHS:bas

cc: Mr. E. B. Hotchkiss

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
11/6/68	Kirkemo	120
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November 6, 1968

Memorandum

To: Associate Solicitor--Mineral Resources

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Enclosed are letters received from Earth Resources Company, Vitro Corporation of America, and Vitro Minerals Corporation regarding the recent sale of Vitro Minerals Corporation to Earth Resources Company. These were sent in response to Mr. Long's recent telephone request to Mr. William B. Hall, President, Vitro Minerals Corporation, for written notification of the sale from the parties involved.

We understand that no further administrative action is required with respect to the OME contract with Vitro Minerals Corporation. Vouchers and legal documents will continue to be executed by authorized representatives of Vitro Minerals Corporation. Please advise if this understanding is correct.

FRANK E. JOHNSON (gla)

Frank E. Johnson

Enclosures

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Kirkemo

HKirkemo/gla 11-6-68

IN REPLY REFER TO:
A-68-2195.3192

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON, D.C. 20240

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November 8, 1968

120M

Memorandum

To: Chief, Office of Minerals Exploration

From: Assistant Solicitor, Oil and Gas and Minerals Exploration

Subject: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

We have reviewed the letters from Earth Resources Company, Vitro Corporation of America, and Vitro Minerals Corporation transmitted with your memorandum of November 6, 1968.

The letters are adequate proof of the transfer of stock of Vitro Minerals Corporation to the new owners Earth Resources Company and that Vitro Minerals Corporation will continue its responsibilities to the OME contract referred to above. You are correct in your understanding that no further administrative action is required with respect to the OME contract with Vitro Minerals Corporation.

Robert W. Long
Robert W. Long
Assistant Solicitor
Oil and Gas and Minerals Exploration

Enclosure

EARTH RESOURCES COMPANY 303 expressway tower · dallas texas 75206 214 369-2186

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O. M. E.
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November 1, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20240

Re: OME-6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan & San Miguel Counties, Colorado
Contract #2262

Dear Mr. Johnson:

This letter is to advise you that Earth Resources Company purchased all of the outstanding stock of Vitro Minerals Corporation from Vitro Corporation of America. This transaction took place on September 10, 1968.

Vitro Minerals Corporation will operate as a subsidiary of Earth Resources Company, and will continue its responsibilities under the OME contract referred to above.

If you have need for any further information, please contact me.

Very truly yours,

Robert J. Donachie

Robert J. Donachie
Vice President - Finance

RJD:bbc

CC - Mr W. B. Hall
Mr. William H. Denne, Jr.

Copy to OME Region III

Vitro CORPORATION OF AMERICA

90 PARK AVENUE · NEW YORK, N.Y. 10016 · (212) 682-5700

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OFFICE OF THE SECRETARY

October 30, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20240

Dear Mr. Johnson:

Reference is made to the letter of Mr. W. B. Hall to you dated October 30, 1968 advising you that all of the stock of Vitro Minerals Corporation was sold on September 10, 1968 by Vitro Corporation of America, the then owner, to Earth Resources Company, a Delaware corporation whose principal office is at 303 Expressway Tower, 6116 North Central Expressway, Dallas, Texas, 75206.

If there is any further information which you may desire in connection with this matter, we shall be pleased to furnish the same to you.

Cordially yours,

W. H. Denne, Jr.
Secretary

whd:jd

Copy to OME Region III

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

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October 30, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U.S. Department of the Interior
Geological Survey
Washington, D. C. 20240

Re: OME-6689 (Silver
Vitro Minerals Corporation
Ice Lake Project
San Juan & San Miguel Counties, Col.
Contract #2262

Dear Mr. Johnson:

Mr. Robert W. Long of the Solicitor's Office, Department of the Interior, has asked that I write you concerning the above contract and the status of Vitro Minerals Corporation.

All of the stock of Vitro Minerals Corporation, formerly owned by Vitro Corporation of America, was sold on September 10, 1968 to Earth Resources Company, a Delaware corporation, whose principal office is at 303 Expressway Tower, 6116 No. Central Expressway, Dallas, Texas 75206.

Vitro Minerals Corporation will continue its responsibilities under the OME contract referred to above. It is expected that the project will be completed by the end of the summer of 1969.

In the near future you should hear from both Vitro Corporation of America and the Earth Resources Company confirming the sale and purchase of the stock of Vitro Minerals Corporation.

Very truly yours,

William B. Hall, President.

WBH:rsh

cc: Mr. Robert J. Donachie
Mr. William H. Denne, Jr.

Copy to OME Region III

Office of Minerals Exploration
Building 53 Room 203

October 11, 1968

Mr. Keith H. Elmer, Controller
Vitro Minerals Corporation
600 West 33rd South Street
Salt Lake City, Utah 84115

Subject: OME-6689 (Silver)
Vitro Corporation of American
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Elmer:

I'm writing to you in reference to your letter of October 3rd and the submittal of a corrected Operator's Monthly Voucher (July 31st-August 31st inclusive), and the more recent telephone conversation of October 9th between yourself and Mr. H. Kirkemo of the Office of Minerals Exploration. We would like to call your attention to the following points which are noted in the order of each contract category.

Category (1) Independent Contracts

Drilling

610 ft. - $11,095.00

Our computations find your figure to be correct, regretably however, it is not O.M.E. policy to pay its share of footage drilled until a hole is successfully completed, hence the sum $11,095.00 is disallowed on the submitted voucher, but of course, may be claimed on the September voucher inasmuch as these holes were completed during that month.

Transportation

91.6 hours helicoptor time	$11,083.00
52 horse days	338.00
Total	$11,421.00

Helicoptor is computed correctly; use of horses is shown as 52 horse days which computes to $388.00. The item of $50.00 for packing men's gear from camp to South Mineral (8-21-68) must be shown as additional horse days in order to be claimed.

Shelter and Subsistence

235 man days $2,467.00

O.M.E. requests a day by day break down.

Category 2 - Personal Services

Supervision and Technical Services

Supervisor

It is not indicated in the payroll summary in which capacity the listed personnel are employed; we assume the supervisor to be Mr. C. H. Smith, but possibly Mr. L. C. Rove also acted in this capacity. In any case the contract allows $1,000/month for the supervisor's salary; based on a 22 work-day month, 9 days would come to considerably less than $509.17 shown on the voucher for supervisory salary. Aside from the question of salary, where O.M.E. contracts allow for the cost of a supervisor, the implied understanding is that the project has this supervision at all times while contract work is being performed.

Geologist

23 man days $1,125.34

Our computation based on a 22 work-day month @ $950.00/month comes to ($950.00 + $43.18) $993.17

Field Assistant

23 man days - $637.01

Our computation based on a 22 work-day month @ $600.00/month comes to ($600.00 + $27.27) $627.27.

If there is a difference of opinion in this matter, we wish to know how you compute or pro rate salaries for periods of less than a month.

Category 7 - Miscellaneous

Office Expenses $75.00

This is correct as shown.

Payroll Taxes and Insurance $454.30

We assume this figure to be correct but wish to point out that the figure represents about 80 percent of the $575.00 total allowable under terms of the contract. Please show us how you arrived at this figure.

Vehicle rental (2 vehicles) $60.00

This is correct as shown.

In view of the above we regret that it will be necessary for you to submit yet another voucher for the period July 31st, 1968 - August 31st, inclusive. The federal government accounting office requires a rather detailed substantiation of money spent under an actual cost or long form contract.

Most sincerely,

James L. Gualtieri, Geologist
Office of Minerals Exploration

cc: Chief, OME
OME-6689
OME chron
Mr. Hasler

P. S. Enclosed in your voucher for the period July 31st - August 31st inclusive and substantiating receipts.

Washington copy
262 2491

Vitro MINERALS CORPORATION
600 W. 33rd SO. ST. • P. O. BOX 15437 • SOUTH SALT LAKE 84115 • TELEPHONE 467-5414

September 24, 1968

OME R... SEP 24 1968 Denver, Colorado

OFFICIAL COPY O. M. E. RECEIVED OCT 21 1968
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Mr. J. William Hasler
Field Officer, Region III
Office of Minerals Exploration
United States Geological Survey
Federal Center
Denver, Colorado 80225

RE: OME 6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan, San Miguel Counties, Colorado
Contract 2262

Dear Mr. Hasler:

Enclosed please find original and three copies of Voucher Form 9-1648, Operator's Monthly Voucher for the period of July 31 through August 31, 1968. Documentary evidence supporting expenditures to date are attached to the original of Form 9-1648. Also, enclosed are original and three copies of Operator's Narrative Report, describing the work performed.

As previously mentioned in our telephone conversation, we have completed Hole #1 and Hole #8. Hole #1 confirms the feathering out of mineralization toward Fuller Lake, but Hole #8 intersected strong veining and mineralization between 594 - 623 feet. Assay results are not yet available, but we are very excited about the possibilities.

The project has run fairly smoothly except for the lack of a full drilling crew. This situation has caused the program to go much slower than estimated and will require suspension before winter and completion of the program next year.

Very truly yours,

VITRO MINERALS CORPORATION

Cecil H. Smith

CECIL H. SMITH
Exploration Manager

CHS:bas

Enclosures

Information from Jack Rigg, Colorado Mining Assoc. in OME docket 6689, Vitro Minerals Corp.

September 19, 1968

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EARTH RESOURCES COMPANY (Delaware Corp.)
303 Expressway Tower
6116 North Central Expressway
Dallas, Texas

This company is an investment vehicle 10% owned by Dan Krausse, Dallas, Texas, (formerly, head of Champlin Refining Company); 80% owned by the so-called Wyly brothers of Dallas, Texas; and 10% owned by associated other investors. The company has recently been formed as a Delaware corporation to engage in petroleum and natural resources exploration and production activities through subsidiaries and affiliates.

The principal subsidiary at this time is the Delta Refining Company located in Tennessee which was purchased for $40MM cash and which will provide cash flow for support of exploratory operations in other subsidiary companies.

One of the affiliates is a silver mine in Mexico, 30% ownership of which was acquired through a stock exchange and which mine will be rehabilitated and placed into profitable production.

Another subsidiary purchased on September 17, 1968, is Vitro Minerals & Chemical Co. Until that time, this company was a wholly-owned subsidiary of Vitro Corporation of America. Vitro Minerals & Chemical Co. has opened accounts with us and is moving its operating and exploratory offices to Denver in November from Salt Lake City. Vitro is shutting down a minerals beneficiation plant in Salt Lake City and has undeveloped assets, which it will explore through the Denver office, in the form of mineral leases in Alaska and a silver property near Silverton (on which it has an OME loan commitment of $135,000), and various uranium leases in the Rocky Mountains. ($145,300) Hoskins note.

We were introduced to the Vitro Minerals & Chemical Co. people by Jack Rigg of the Colorado Mining Association and by the reference of Mr. Bob Ryan of the Mining Dept. of the First National City Bank of New York. The control of the accounts will be out of Dallas, Texas, through Mr. Arty Smith who is Treasurer for both Earth Resources Co. and Vitro Minerals & Chemical Co.

Our relationship with Vitro in Denver will be carried on primarily through Mr. Bill Hall, President, who is moving from New York; Mr. Cecil H. Smith, Exploration Manager, who is moving from Salt Lake City; and Mr. Keith H. Elmer, Comptroller, who is moving from Salt Lake City. Our relationship in New York will be through Mr. Eugene B. Hotchkiss, Vice President, who will be the only remaining member in New York and who will conduct the company's business affairs as they relate to governmental agency problems, labor relations problems, and joint venture and partnership proposals with other New York-based mining companies.

Several people in our bank have had contact with Hall, Smith, Hotchkiss, and Elmer. Such contacts have been recorded for marketing purposes.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

Building 10

9 September 1968

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Memorandum

To : Chief, Office of Minerals Exploration

From : Robert G. Luedke

Subject: Interim inspection
OME - 6689 (Silver)
Vitro Minerals Corporation
Ice Lake mining district
San Juan County, Colorado

The subject project area was visited on August 17 and drill core (stored in Silverton, Colorado) was examined on August 19. Prior to making the inspection, the company's copy of the contract was briefly reviewed, and several items pertaining thereto were discussed with T. A. Sharps (resident geologist), L. C. Rove, Jr., (chief geologist), and E. B. Hotchkiss (vice-president) - all of Vitro Minerals Corporation.

Exploration methods under OME Contract 2262 call for drilling at three different sites simultaneously. These drill sites (hole nos. 1, 4, and 8) were visited, in the company of Messrs. Sharps and Rove, and all were found to be operating and progressing with apparent good core recovery. However, no sludge was being recovered, as called for in the contract, at any of the drill sites for several reasons. 1) Drill hole no. 1 hit a void, in what logically had been assumed to be hard compact country rock, at about 67-70 feet depth and immediately lost their water. To remedy this, the company was going to case the hole to about 80 feet in hopes of solving the problem. 2) Drill hole no. 4, because of engine troubles in early days of this drilling program which began in late July, and miscalculation of the thickness of cover (talus) to be penetrated had not hit bedrock with consequently nothing to recover in the way of core. 3) Drill hole no. 8 was thought to not be seating properly and hence no sludge was being forced up, just oily water. 4) In the case of all drill holes, the country rock perhaps is more fractured than suggested from surface exposures thus sludge and water is being forced out into the walls. 5) Also, in the case of all drill holes it was thought that the annular space and/or grease on the drill stem were not permitting passage of sludge. A new special flanged or wider bit was on order. 6) An internal but contributing factor also was the first drilling crew on the job was reluctant to do a proper job - they only wanted to make footage. They were replaced.

"Luedke sent copy to Region III"

The company realized the fact that the contract called for recovery of sludge and was doing everything they could to correct the situation. At the time of inspection they had not yet hit their targets or had passed through any mineralized ground.

At the time of inspection, depths of the drill holes were no. 1 - 340 feet with good core recovery except for the void mentioned above; no. 4 - 54 feet and thought to be just at interface of talus and bedrock; and no. 8 - 212 feet with good core recovery. The cores of holes nos. 1 and 8 were examined. The rock was not mineralized but was altered to varying degrees with considerable chlorite and locally epidote. In logging the core from hole no. 1 they had picked the contact between the Burns and San Juan Formations at about 280 feet - I saw no reason to disagree with this, in fact I am glad they had to do it, not me.

All items stated under General Provisions, Exhibit A, in the contract (such as camp, board, and transportation facilities, storage and logging of core, etc.) were being met as far as I could observe, except again as mentioned above, the sludge recovery problem.

From discussions on the site as related to the problems, Vitro posed the following two questions to OME for consideration.

1) If Vitro goes ahead with drilling hole no. 1, not recovering sludge, and perhaps gets less than 60 percent core recovery in the vein, is this an incomplete hole as far as OME is concerned and thus OME would not contribute to cost? if then, Vitro wedges off and cuts the ore zone again at their expense getting more than 60 percent core or else recovering sludge, would OME then consider hole no. 1 as completed and share in cost of the original hole no. 1?

2) It is probable (in fact, sure) that drill hole no. 1 will bottom (assuming they overcome the sludge problem) before hole no. 4. The latter, as called for in the contract, determines the position of holes nos. 2 and 3 or nos. 2A and 3A. Can Vitro move equipment at hole no. 1 and proceed with hole nos. 2 and 3 or 2A and 3A using their best judgment as to the site selection?

Drill site locations of question 2 above was discussed with Sharps in the field and we both tentatively agreed site of hole nos. 2 and 3 appeared to be the better. This decision may be different dependent upon developments subsequent to my visit.

In the process of this inspection, some geologizing was done which disclosed definitely an offset, determined by a heretofore undiscovered and displaced dike, near proposed drill site no. 7. This may result in Vitro finding it necessary to make an amendment proposing changes of drill site location.

This reiterates my oral reports with both Washington, D. C. and Denver offices following the inspection, and adds some detail. Before leaving the field an attempt to contact Sharps relative to making amendments concerning drill site no. 7 and starting of drill hole no. 2 (as not dependent upon information from drill hole no. 4) before completion of drill hole no. 4, but he could not be raised by radio contact. However, on August 21, before my departure for Denver, I met the head man of the drilling crew who said they were then beginning to recover sludge.

Robert G. Luedke

Robert G. Luedke, Geologist
Southern Rocky Mountains Branch
Regional Geology Division

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UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Date: AUGUST 23, 1968

Memorandum

To: Compliance Officer

From: Acting Field Officer, Region III

Subject: Equal Employment Opportunity Under Government Contracts
OME-6689 (Gold-Silver)
Operator: VITRO MINERALS CORPORATION
Name of Property: ICE LAKE PROJECT
County-State: SAN JUAN AND SAN MIGUEL COS., COLO.
Contract No. 2262

I have obtained the following information from my visit to the operating project under the subject contract:

1. Number of all employees — 17
2. Number of women employees — 1
3. Number of Negro employees — 0
4. Number of other minority groups (Indian, Latin, Oriental, etc.) — 0
5. Was employment through a union? — No
6. Distance to the closest union headquarters — 60 miles (?)
7. Are the discrimination posters prominently displayed? — YES
8. If employment was through a union, was the union furnished Standard Form 38? — —
9. If employment was not through a union, in what manner was employment made? — ADVERTISEMENT
10. Acts of intimidation matter has been discussed with: T. I. SHARPS

sent Mr. Olmert a copy 9/3/68

Office of Minerals Exploration
Building 53 Room 203

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August 13, 1968

Mr. Cecil H. Smith, Exploration Manager
Vitro Minerals Corporation
600 West 33rd South Street
P. O. Box 15347
Salt Lake City, Utah 84115

Subject: OME-6689 (Gold-Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado
Contract 2262

Dear Mr. Smith:

Pursuant to the subject contract Exhibit B, Nondiscrimination in Employment (Section 202, Executive Order 11236, September 24, 1965), will you kindly fill out the questionnaire, and return the two (2) copies to this office, as well as to post the signs in a prominent place in the camp, at the Ice Lake project.

Sincerely yours,

J. William Hasler
mc

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

Enclosures
cc: Chief, OME
OME-6689
OME chron
Mr. Hasler

Vitro MINERALS CORPORATION
600 W. 33rd SO. ST. P. O. BOX 15437 SALT LAKE CITY, UTAH 84115 TELEPHONE 262-2491

OFFICIAL COPY

OME Region III RECEIVED AUG 5 - 1968 Denver, Colorado

August 1, 1968

Mr. J. W. Hasler, Field Officer
Office of Minerals Exploration
USGS - Building 53
Denver Federal Center
Denver, Colorado 80225

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Re: OME 6689 (Gold-Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties,
Colorado
Contract No. 2262

Dear Mr. Hasler:

In accordance with your instructions and confirming our telephone conversation of this morning, Vitro Minerals Corporation started work under the above contract on July 31, 1968.

Any questions or information you may wish to inform us about can be directed to our Salt Lake City Office or through Mr. George Lancaster at the Chattanooga Ranch near Silverton, Colorado. Mr. Lancaster has setup radio contact with the project camp in Ice Lake Basin.

We look forward to both your and Mr. Luedke's visit to the project area in the very near future.

Sincerely yours,

VITRO MINERALS CORPORATION

Cecil H. Smith

CECIL H. SMITH
Exploration Manager

CHS:bas

cc: Messrs. W. B. Hall
E. B. Hotchkiss

Office of Minerals Exploration
Building 53 Room 203

August 1, 1968

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Mr. Cecil Smith
Manager of Exploration
Vitro Minerals Exploration
P. O. Box 15435
Salt Lake City, Utah 84115

Subject: OME 6689 (Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan, San Miguel Co., Colorado
Contract 2262

Dear Mr. Smith:

Persuant to your telephone call this morning concerning the subject contract I am sending you a supply of Form 9-1648, Operator's Monthly Voucher, for claiming costs allowed and incurred under the terms of the subject OME contract.

The instructions are self-explanatory, however should you have any questions concerning the forms or other items pertaining to the contract work please feel free to call or visit us.

Sincerely yours,

J. William Hasler

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

Enclosure

CC-Chief, OME
OME-6689
OME chron
Mr. Hasler

SURNAME COPY

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7/30 Johnson 110

7/30 Jewett

AIRMAIL

Vitro Minerals Corporation
Post Office Box 15437
600 West 33rd South Street
Salt Lake City, Utah 84115

~~130~~

Re: OME-6689 (Silver) 110
Vitro Minerals Corporation
Ice Lake Project 220
San Juan and San Miguel Counties, Colorado
Contract 2262 120M

Gentlemen:

Enclosed is the Operator's copy of the subject contract which has been signed for the Government. As you have already signed, the contract is now in force.

Please note that the 7-3/4 percent interest accrues from the dates on which individual payments are made by the Government and like the principal is repayable from royalty on production.

Monthly reports and vouchers shall be prepared and sent to Mr. J. William Hasler, OME Field Officer, Region III, Room 203, Building 53, Denver Federal Center, Denver, Colorado 80225. Any questions regarding the contract work should be directed to Mr. Hasler.

A supply of voucher forms (Form 9-1648) will be sent to you by Mr. Hasler.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

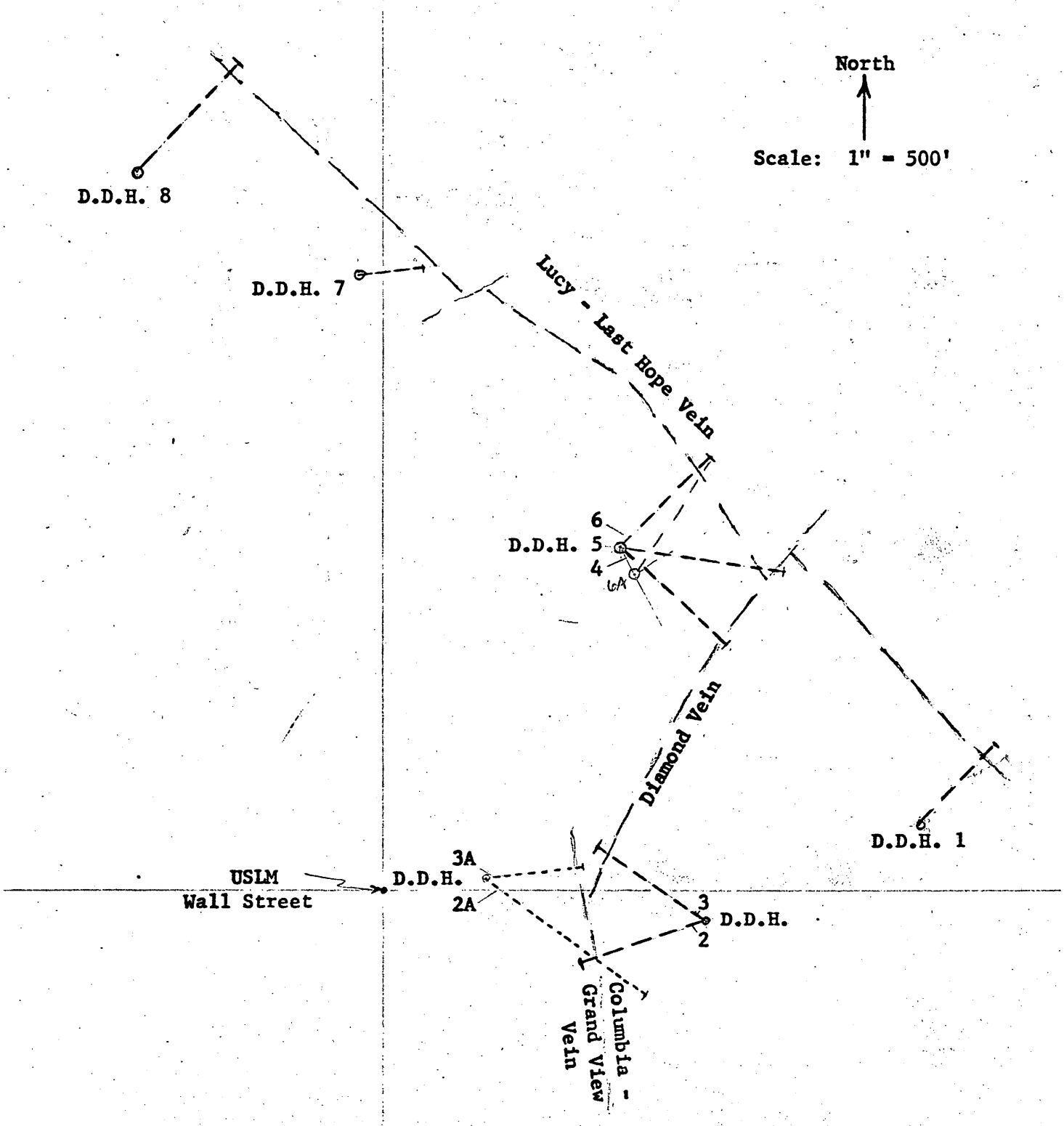
Enclosure

Copy to: Mr. W. B. Hall
President
Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Copy to: OME Region III
We suggest that you insert the contract number, date of contract, starting date, and interest rate on the extra copy of the contract for field use which already is in your files.

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Kirkemo
130

HKirkemo/gla 7-29-68



Map Showing
Proposed Drill Holes
Ice Lake Project
San Juan County, Colorado

Figure 2

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

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July 23, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20242

Dear Mr. Johnson:

Re: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties,
Colorado

In accordance with your letter of July 17, 1968, we are returning herewith the original and three copies of the exploration contract OME-6689 executed by Vitro Minerals Corporation. We have inserted the date and addresses covering the Lien and Subordination Agreements signed by Anne S. Crouch and Edward E. Kingery.

We trust that you will find this in order, and look forward to the completion of the program.

Sincerely,

VITRO MINERALS CORPORATION

W. B. Hall
President

WBH:bn
Enc. (4)

SURNAME COPY

7/17/68 Kirkbano 120

" Johnson 110

JUL 17 1968 Kulogowski 220

7/17 Kepp

Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Attention: Mr. Eugene B. Hotchkiss
Executive Vice President 120

Re: OME-6689 (Gold and Silver) 110
Vitro Minerals Corporation
Ice Lake Project 220
San Juan and San Miguel Counties, Colorado 120M

Gentlemen:

Enclosed are the original and three copies of a proposed contract to explore the subject property. The contract consists of MME Form 50 (seven pages), Annex I (four pages), ten Lien and Subordination Agreements, Exhibit A (six pages), Exhibit B (one page), and two maps (Figures 1 and 2).

It is noted that the MME Form 52, Lien and Subordination Agreements, signed by Anne S. Crouch and Edward E. Kingery is neither dated nor addresses inserted. This Lien and Subordination Agreements is included in the ten attached to the proposed contract. Please complete this information.

Please carefully review the terms of the contract and all specifications set forth in Exhibit A. Without prior approval confirmed in writing, the Government may refuse to contribute to the cost of any work that does not conform to the specifications.

You will note that the contract date, starting date, rate of interest, and execution for the Government are lacking. If the proposed contract is otherwise acceptable to you, please sign all copies and return all copies to this office.

When funds are available, the contract date, the starting date, and the interest rate will be inserted and the contract executed for the Government. The Operator's copy will then be returned to you.

<u>No reimbursement for work done before the, as yet, undetermined date of the contract can be made by the Government.</u>

SURNAME COPY

If any part of the proposed contract does not have your approval, all copies should be returned unsigned by you with a statement of your proposed changes for consideration.

The normal procedure for transmitting proposed contracts to the Operator is for the Field Officer to review the contract before sending it to the Operator. In the interest of saving time in this case, we have sent an extra copy of the proposed contract to Mr. J. W. Hasler, Field Officer, OME Region III, Room 203, Building 53, Denver Federal Center, Denver, Colorado 80225. He will review the contract and advise us by phone of any corrections or suggested changes. If any changes should be offered, we will advise you of them at once.

Field administration of all matters relating to the project work will be Mr. Hasler's responsibility. Monthly vouchers and reports should be sent to his office for processing, and any questions pertaining to the project should be directed to Mr. Hasler.

We enclose a sample copy of the newly adopted voucher (Form 9-1648) which will be used on your contract. This form replaces MME Forms 60 and 61, samples of which we gave to Mr. Hotchkiss on a recent visit to this office. A supply of vouchers will be furnished by Mr. Hasler to the Salt Lake City office when the contract has been fully executed.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
OME Region III w/copies of 10 MME Forms 52, to be attached to Field Office's Extra Copy
Mr. Kirkemo
130

HKirkemo/gla 7-17-68

SURNAME COPY
7/16/68 Kirkemo 120

AIRMAIL 110

Memorandum JUL 16 1968 7/16 cal 220

To: Field Officer, Region III 120M

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Enclosed is the Field Office's Extra Copy of the proposed contract to explore the subject property. The original and all other copies will be reviewed and, as appropriate, signed by the Government and sent to the Operator's headquarters office in New York City for approval and signature. This procedure will save time in transit inasmuch as the Operator's office in Salt Lake City, Utah, would have to send the contract to New York for signature.

Please review the proposed contract as soon as possible and phone your comments or approval to us. Upon receipt of these, we will consider any suggested changes and make necessary corrections before forwarding the proposed contract to the Operator.

We were informed yesterday by phone by Mr. Eugene B. Hotchkiss, Executive Vice President, Vitro Minerals Corporation, that preparations to establish a base camp in Ice Lake Basin already are under way.

Please retain this extra copy of the contract for your files. We will advise you of any changes made in the contract here, and provide corrected pages as necessary.

FRANK E. JOHNSON (gla)

Frank E. Johnson

Enclosure

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Kirkemo
130

HKirkemo/gla 7-16-68

Legal 7/10/68

MME Form 50
July 1965

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

EXPLORATION CONTRACT
(Long Form)

Docket No.	Commodity	Contract No.	County	State
OME -6689	Silver		San Juan San Miguel	Colorado

It is agreed _____ (Date), between the United States of America, acting through the Department of the Interior, U. S. Geological Survey, hereinafter called the "Government," and

Vitro Minerals Corporation, a Delaware corporation

whose mailing address is Post Office Box 15437, 600 West 33rd South Street, Salt Lake City, Utah 84115, hereinafter called the "Operator," as follows:

ARTICLE 1. Authority and scope.--(a) This contract entered into under the authority of Public Law 701, 85th Cong., 2d sess. (72 Stat. 700; 30 U.S.C. § 641 - 646), consists of this form, the attached Annex I (land description), Exhibit A (work and costs), and the maps and documents listed. The work is a search for new or unexplored deposits of the commodity designated above. The Operator shall begin the work on or before _____ (Date), and, subject to the provisions of Article 9 and Exhibit A, shall either have completed the work within 15 months from the date of the contract or shall have incurred allowable costs (see Article 6) in a sum not less than the total cost set forth in Exhibit A.

(b) The total allowable cost of the work set forth in Exhibit A is $145,300.00. The Government will contribute 75 percent of the allowable costs as they are incurred, in a total sum not in excess of $108,975.00 in accordance with the provisions of Articles 3, 4, 5, and 6. "Costs incurred" means costs that have been paid or have become due and payable, or that the Government determines have become obligations.

(c) Interest computation.--Simple interest at the rate of _____ percent shall accrue from the dates Federal funds are made available until the period specified for payment of royalty expires, or until the amount of Federal funds contributed is fully repaid with interest.

(d) The Operator shall not transfer or assign this contract or any right or obligation thereunder without the written consent of the Government.

ARTICLE 2. Operator's right in land.--(a) The Operator represents and undertakes that Annex I correctly describes the land which is the subject of this contract and the nature of the Operator's right of property and possession therein (whether as owner, lessee, or otherwise), and that such right, title, or interest is subject only to the following claims, liens, or encumbrances:

ANNEX I

(b) 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 lien agreement of any holder of the legal title of the land (lessor, seller, optionor, etc.) are attached as follows:

ANNEX I

(c) The Operator shall preserve and maintain his right, title, or 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. 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 royalty on production and liens for the payment thereof. Two true copies of such instrument shall be furnished to the Government. If the Government's rights to royalty as provided in Article 7 have been terminated, the provisions of this paragraph (c) shall become inapplicable.

ARTICLE 3. Performance of the work.--(a) Operator's responsibility.--The work shall be performed diligently, efficiently, in a workmanlike manner in accordance with good mining standards, and in compliance with State laws governing health, safety, and liability **insurance** covering employment. The Operator shall provide suitable and adequate equipment, facilities, materials, supplies, and labor to complete the work as specified in Article 1(a).

(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 (see Article 6(a), Category (1)). 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, the Government will participate in payments to the independent contractor only as to work performed in accordance with the provisions of this exploration 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 production operations during the period that royalty is payable to the Government. The Operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 4. Contribution by the Government.-- The Government will make its contribution on the basis of the monthly vouchers referred to in Article 5(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 and the Operator's final report has been received, the Government may withhold such sums as are necessary to protect its interests. The Government may make payments for the account of the Operator directly to independent contractors and suppliers rather than to the Operator.

ARTICLE 5. 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. 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 all pertinent books, documents, papers, and records of the Operator. 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) Monthly reports.--The Operator shall provide the Government with four copies of monthly reports in three sections as follows:

(1) Operator's Monthly Voucher claiming costs for work performed;

(2) Operator's Progress Report showing the number of units of the various types of work performed; 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; however, the original of the Operator's Monthly Voucher shall be supported by documentary evidence, such as certified copies or transcripts of payrolls and invoices, for all costs claimed under Article 6 (a) (1).)

(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 three copies of a final report (in addition to the final monthly report). 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 the related costs.

(d) Report of sales.--The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's royalty relates, such as two copies of smelter or concentrator settlement sheets and certified accounts of production and sale or other disposition of production.

(e) Compliance with requirements.--If the Government determines that 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 preparation or completion of the same 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 6. Costs.--(a) Allowable costs.--The allowable costs of the work to which the Government will contribute are limited to:

(1) the necessary, reasonable, and direct actual costs that are estimated in Exhibit A by categories as specified in this article; and

(2) fixed costs for units of work to be performed (per foot, per hour, etc.) agreed upon in lieu of actual costs and set forth in Exhibit A.

The Government will not contribute to costs under any category or subcategory omitted from the estimate of costs in Exhibit A. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost; any excess over a fixed unit cost; and any excess over the total allowable cost of the work are not allowable. The Operator shall incur such excesses for his own account without contribution by the Government, but the Operator is not obligated to incur more than his agreed percentage of the total allowable cost of the work.

Any category or subcategory or element thereof not designated as a maximum in this article, or in Exhibit A may be exceeded, provided that the total allowable cost of the work, which is a maximum, is not exceeded.

CATEGORY (1)--INDEPENDENT CONTRACTS.--(See Article 3(b)). The total of this category and the average unit cost estimated for each type of work to be performed under an independent contract are maximums.

CATEGORY (2)--PERSONAL SERVICES.

Subcategory (a)--Supervision and Technical Services--All elements of this subcategory (number of supervisors, technicians, outside consultants, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)--Labor.

CATEGORY (3)--OPERATING MATERIALS AND SUPPLIES.--Includes such items as drill bits and steel, explosives, fuel, pipe, power, timber, rail, and small tools costing less than $50 each.

CATEGORY (4)--OPERATING EQUIPMENT.

Subcategory (a)--Rental.--The number of each rented item [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 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.--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

Subcategory (a)--Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).--The total of this subcategory is a maximum.

Subcategory (b)--Initial rehabilitation and repairs of operating equipment.--The total of this subcategory is a maximum.

CATEGORY (6)--NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).--Costs of items listed under this category include all requirements, 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 total of this category is a maximum.

CATEGORY (7)--MISCELLANEOUS.--Includes requirements and costs that do not fall within any of the first six categories, such as repairs other than initial and maintenance of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, and communications.

(b) Nonallowable costs.--In addition to the limitations imposed by paragraph (a) of this Article 6 the Government will not contribute to the following costs:

(1) Costs of the land, such as rental, depreciation, depletion, or other costs 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 total cost. The provision does not apply to receipts from production which are subject to the Government's royalty under the provisions of Article 7.

ARTICLE 7. Repayment by Operator.--(a) Certification.--If the Government considers that mineral or metal production from the land covered by the contract may be possible as a result of the exploration work, it shall so certify in writing to the Operator at any time not later than six months after a sufficient final report and final accounting (see Article 5) have been furnished.

(b) Royalty on production.--The Operator, whether or not the producer (for example, if the Operator either transfers or does not retains his interest in the land), shall pay to the Government a royalty on all minerals and metals mined or produced from the land as follows:

(1) irrespective of any certification of possible production--from the date of the contract until the lapse of the time within which the government may issue such certification or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first; or

(2) if the Government issues a certification of possible production--for a period of ten years from the date of the contract, or until the total net amount contributed by the Government is fully repaid with interest, whichever occurs first.

(c) Payment of royalty.--(1) The Government's royalty shall be five percent of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrate, 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 (such as treatment processes performed by the buyer, sampling and assaying to determine the value of the production sold, and freight payable by the buyer to a carrier (not the Operator or producer)), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. No costs of the Operator or Producer are deductible in arriving at the "gross proceeds" as that term is here used.

The term "treatment processes" means those processes (such as milling, concentrating, smelting, refining, or equivalent, but excluding fabricating or manufacturing) applied to the crude ore or other production after it is extracted from the ground to put it into a commercially marketable form.

(2) 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.

(d) Unsold production.--If any production (ore, concentrate, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used 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, concentrate, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used 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 thereof in the form in which and at the time 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) Lien for payment.--To secure the payment of royalty (see Article 7(b)), the Operator hereby grants to the Government a lien upon his interest in the land and upon any production of minerals and metals therefrom until the royalty claim is extinguished by lapse of time or is fully paid.

(f) Notice to purchasers.--The Operator or producer 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 Government, and this estimate shall be final and binding upon the Operator or producer.

(g) No obligation to produce.--Nothing in this contract shall be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(h) Government not obligated to buy.--Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals and metals mined or produced from the land.

ARTICLE 8. 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, and any reasonable and necessary cost thereof will be treated as an allowable cost of the exploration. After the completion of the work, termination of the Government's obligation to contribute, or when such property is not being used for the work, the Operator shall not use it elsewhere without the written consent of the Government and without paying a reasonable rental to be fixed by the Government for its proportionate interest.

(c) Disposal of property.--Upon the completion of the work, 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, sale to others, purchase by the Operator, or sale or transfer to 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 that cost more than $500, and shall not sell at less than 25 percent of the purchase price any item of property that 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 offers. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, explosives, pipe, or rail), 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 exploration.

(d) Default of the Operator re disposal.--If within 90 days after the completion of the work, termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, 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:

(1) in writing extend the time within which the Operator must dispose of or liquidate the property;

(2) by written notice to the Operator, place upon such property what it determines to be 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; and

(3) 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 9. Termination of the Government's obligations.--(a) If the Government determines that operations at any time have failed to achieve anticipated results and further work is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

(b) If the Government determines that the Operator is 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 final accounting and reporting; and

(2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to final accounting and reporting.

The Government may also avail itself of any other remedy the law may provide for breach of contract, including the right to rescind the contract and to demand repayment of all moneys contributed by the Government under the contract.

(c) The giving of any notice by the Government under the provisions of this Article 9 shall not affect the Government's rights as provided for in the contract with respect to royalty and liens to secure the payment thereof, and such rights shall be fully preserved.

(d) The determinations of the Government are subject to appeal under Article 13.

ARTICLE 10. Notices to be given by the Government may be delivered to the Operator, or may be sent by certified 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 11. 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 12. Nondiscrimination in Employment. The provisions respecting nondiscrimination in employment which are required by section 301 of Executive Order 10925, dated March 6, 1961 as amended and supplemented are attached hereto as Exhibit B and are hereby incorporated in and made a part of this contract.

ARTICLE 13. Disputes.--Any dispute arising under this contract which is not disposed of by agreement shall be decided by the Director, U. S. Geological Survey, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Operator. The decision of the Director, U. S. Geological Survey, shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Operator mails or otherwise furnishes to the Director, U. S. Geological Survey, a written appeal addressed to the Secretary of the Interior. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

The term "Director, U. S. Geological Survey," as used herein includes his duly authorized representative.

ARTICLE 14. Work Hours Act of 1962 - Overtime Compensation.--This contract, to the extent that it is of a character specified in the Work Hours Act of 1962 (Public Law 87-581, 76 Stat. 357-360) and is not covered by the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), is subject to the following provisions and to all other provisions and exceptions of said Work Hours Act of 1962.

(a) Overtime requirements.--No Operator or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic to be employed on such work in excess of eight hours in any calendar day or in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate of not less than one and one-half times his basic rate of pay for all hours worked in excess of eight hours in any such calendar day or in excess of forty hours in any such workweek, as the case may be.

(b) Violations; liability for unpaid wages; liquidated damages.--In the event of any violation of the clause set forth in subparagraph (a) of this paragraph, the Operator and any subcontractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such Operator and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for

liquidated damages. Such liquidated damages shall be computed, with respect to each individual laborer or mechanic employed in violation of the clause set forth in subparagraph (a) of this paragraph, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (a) of this paragraph.

(c) Withholding for unpaid wages and liquidated damages.--The U. S. Geological Survey may withhold or cause to be withheld, from any moneys payable on account of work performed by the Operator or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such Operator or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (b) of this paragraph.

ARTICLE 15. Copeland (Anti-Kickback) Act--Nonrebate of wages.--The regulations of the Secretary of Labor applicable to contractors and subcontractors (29 CFR, Part 3), made pursuant to the Copeland Act, as amended (40 U. S. C. 276c) and to aid in the enforcement of the Anti-Kickback Act (18 U. S. C. 874) are made a part of this contract by reference. The Operator will comply with these regulations and any amendments or modifications thereof and will be responsible for the submission of affidavits required of independent contractors thereunder. The foregoing shall apply except as the Secretary of Labor may specifically provide for reasonable limitations, variations, tolerances, and exemptions.

ARTICLE 16. Changes and added provision.--

quadruplicate

Executed in ~~quadruplicate~~ the day and year first above written.

THE UNITED STATES OF AMERICA

VITRO MINERALS CORPORATION
(Operator)

By

By
Director, U. S. Geological Survey

Title

I, _____, certify that I am the
(Name)

_____ secretary of the corporation named as Operator herein; that

_____, who signed this contract on behalf of the Operator, was then
(Name)

_____ of said corporation; that said contract was duly signed for
(Title)

and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

DRAFT - 7/3/68
HKirkemo/bsl

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

ANNEX I

The land, including all rights pertaining thereto, referred to in Article 2 of the contract consists of eleven (11) patented and nineteen (19) unpatented lode mining claims in unsurveyed sections 18, 19, 30, and 31, T. 41 N., R. 8 W., and sections 13, 14, 15, 22, 23, 24, and 25, T. 41 N., R. 9 W., New Mexico Principal Meridian, Ice Lake Mining District, San Juan County, and the Iron Springs Mining District, San Miguel County, Colorado. It is shown on Figure 1, entitled "Map Showing Ice Lake Project Area, San Juan and San Miguel Counties, Colorado", which is attached and made part hereof.

The patented lode mining claims are as follows:

Name	U. S. Survey No.	County
Columbus	11693	San Juan
Grand View	11693	San Juan
Iowa	12298	San Juan
Lake	12298	San Juan
Last Hope	11695	San Juan and San Miguel
Lelia	13372	San Juan
Lucy	13372	San Juan
Lucy No. 2	13372	San Juan
May Band	13372	San Juan
Utopia	15457	San Miguel
Webster	11695	San Juan

The following eighteen (18) unpatented lode mining claims are recorded in the County Recorder's Office, San Juan County, Silverton, Colorado as follows: (If recordings were amended, the original recordings are shown in parenthesis).

Name	Book	Page
Ben	189	542
Charlotte Mary	142 (165)	410 (33)
Diamond	142 (92)	405 (564)
Dover	189	542
Frederick	142 (147)	409 (20)
Joseph	142 (147)	408 (375)
Palmyra	142 (147)	407 (18)
St. Anthony	142 (147)	406 (18-19)
Vitro No. 1	189	536
Vitro No. 2	189	537
Vitro No. 3	189	537
Vitro No. 4	189	538
Vitro No. 5	189	538
Vitro No. 6	189	539
Vitro No. 7	189	539
Vitro No. 8	189	540
Vitro No. 9	189	540
Vitro No. 10	189	541
Vitro No. 11	189	541

That portion of the Dover claim situated in San Miguel County is recorded in the County Recorder's Office, San Miguel County, Telluride, Colorado in Book 331 on Pages 85-86.

The Operator is the owner of the Utopia, Last Hope (portion in San Miguel County), Iowa, and Lake patented mining claims by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 4 of the Supplement to Appendix I.

The Operator is the owner of the Ben, Dover, and the Vitro No's 1-11 unpatented lode mining claims by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 47 of the Supplement to Appendix 1.

The Operator is the owner of 54.5% interest in the Columbus, Grand View, Last Hope (San Juan County) and Webster lode mining claims all situated in San Juan County, Colorado, by virtue of a mining deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 4 of the Supplement to Appendix 1. The Operator has possession of the remaining 45.5% interest in these claims under the terms of a Lease Agreement transferred to the Operator by an Assignment dated April 1, 1968, from Vitro Corporation of America. This Assignment appears at page 9 of the Supplement to Appendix 1.

The Operator is the owner of a 50% interest in the Diamond, Palmyra, St Anthony, Frederick, Joseph, and Charlotte Mary unpatented lode mining claims all situated in San Juan County, Colorado, by virtue of a Mining Deed dated April 1, 1968, from Vitro Corporation of America, which appears at page 4 of the Supplement to Appendix 1. The Operator has possession of the remaining 50% interest in these claims under the terms of a Lease Agreement, transferred to the Operator by an Assignment dated April 1, 1968, from Vitro Corporation of America. This Assignment appears at page 9 of the Supplement to Appendix 1.

The Operator is in possession of the Lucy, Lelia, May Band, and Lucy No. 2 patented lode mining claims under the terms of seven Lease and Agreement contracts transferred to the Operator by seven separate Assignments all dated April 1, 1968, from Vitro Corporation of America, and one Lease and Agreement dated June 19, 1968, executed directly between the owner of a part interest in the claims and the Operator. The eight leases referred to above represent 100% of the ownership of these claims. The Assignments transferring these leases to the Operator appear at pages 14, 19, 24, 29, 34, 39 and 44 of the Supplement to Appendix 1. The one lease between the owner of a part interest in the claims and the Operator, referred to above, appears in Appendix 1.

All leases, mining deeds, and assignments which represent the complete chain of title to all of the mining claims covered by this contract, and which represent that the Operator has rights in such claims at least sufficient to complete the work under this contract in accordance with all of its terms and provisions, are contained in Appendix 1, and the Supplement to Appendix 1, which are contained in the docket of this contract. Such documents are by this reference specifically incorporated into and made a part of this contract for the purpose of proving the Operator's rights in the claims.

Operator warrants that all recording information appearing on all documents referred to above is accurate.

Operator warrants that all documents referred to in the leases, mining deeds and assignments are either original or exact duplicate originals and that all signatures whether original or duplicate original, are genuine.

Lien and Subordination Agreements covering all interests in claims covered by the contract which are not owned by the Operator, are attached and made a part hereof.

Operator warrants that all signatures, whether original or exact duplicate original, which appear on the documents referred to in the leases, mining deeds and assignments, Lien and Subordination Agreements, are genuine.

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6689

EXHIBIT A

The purpose of the project is to explore by drilling from sites to be prepared on the surface for silver-bearing ore bodies in and along the Lucy-Last Hope, Columbus - Grand View, and Diamond veins which occur in volcanic rocks in the San Juan Formation and the Silverton Vokanic Group, both of tertiary age.

General Provisions

All drill holes shall be completed not less than AX wireline size, and shall be cased as necessary. The Government will not contribute to the cost of casing left in a hole at the Operator's request.

Facilities shall be provided for recovering diamond drill sludge, and such sludge shall be retained when drilling in significantly mineralized rock and identified as to hole number and depths represented.

All drill core shall be stored in boxes identified as to hole number with markers in the core sections indicating the depths represented. Significantly mineralized core shall be split and one split assayed for gold and silver, and for lead, zinc or copper as warranted. Whenever core recovery is less than 60 percent, a

split of the corresponding retained sludge shall be assayed separately. The remaining core shall be stored in proper sequence with the unsampled core, and the remaining sludge stored in suitable containers properly identified as to hole number and depth. Stored samples shall be made available for Government inspection and possible use, and may be disposed of by the Operator with prior Government approval.

True copies of assay certificates of all samples shall be submitted with the Operator's monthly report which shall include also a map, sketch, or cross section showing the drilling completed during the reporting period and the locations of all samples taken from the drill holes.

All drill holes shall be logged and copies of the logs of completed holes shall be submitted with the Operator's monthly report.

insert from p. 3

The Operator shall provide such supervision, labor, and technical services as may be required to perform the work in a satisfactory manner.

The location, direction, and extent of each work item shall be subject to Government approval.

Camp and board facilities, and aerial and surface transportation between camp site and drill sites shall be provided for personnel essential to the project.

To page 2

The bearing and inclination of each drill hole may be determined with a suitable in-hole surveying instrument at 200-foot intervals.

The Operator shall establish and maintain a camp in Ice Lake Basin providing food and tent shelter for personnel essential to the project.

The Operator shall provide and maintain helicopter service between Silverton, Colorado, a base camp in Ice Lake Basin, and the several drill sites for the transport of personnel, equipment, and supplies. The helicopter and pilot shall be stationed at the base camp where supplies of fuel, oil, field maintenance equipment, and parts are to be available.

Any helicopter used on the project shall have performance capabilities equal to those of a 270-horsepower Bell Model 47G3B-1. The useful load capacity shall be not less than 1050 pounds. Landings and takeoffs will be required at altitudes ranging up to 13,200 feet. Helicopters used in the performance of the contract shall be operated and maintained in accordance with Federal Aviation Agency (F.A.A.) regulations, and shall bear a current and valid certificate of airworthiness issued by F.A.A.

Pilots for this project must hold a commercial pilot's certificate with helicopter ratings in accordance with F.A.A. requirements. Mechanics assigned to maintain the helicopters must hold a mechanic's certificate with airframe and power plant rating in accordance with F.A.A. requirements, and must have had at least one year experience in helicopter field maintenance.

The Operator shall provide and maintain four (4) saddle horses at the base camp for services as required. The horses shall be in good health, and each capable of carrying an adult rider to the several drill sites in Ice Lake Basin.

Description of the Work

The work shall consist of preparing about five drill sites for approximately 8 drill holes, and drilling a maximum of 7,500 feet which includes about 6,900 feet of core drilling and about 600 feet of overburden drilling.

The approximate locations and bearings of the drill holes are shown in plan view on Figure 2, entitled, "Map Showing Proposed Drill Holes, Ice Lake Project, San Juan County, Colorado," which is attached hereto and made part hereof.

The approximate bearings, inclinations, and depths of the proposed holes are as follows:

Hole No.	Bearing	Inclination	Depth, Feet
1	N. 44° E.	-50°	600
2	S. 71° W.	-60°	930
(2A)	(S. 54° 15' E.)	(-47°)	(1050)
3	N. 56° 15' W.	-58°	850
(3A)	(N. 82° 30' E.)	(-65°)	(900)
4	S. 48° E.	-50°	800
5	S. 82° E.	-50°	900
6	N. 45° E.	-50°	700
7	N. 83° 45' E.	-76°	950
8	N. 44° E.	-55°	1000

Holes 2A and 3A will be drilled in lieu of Holes 2 and 3 if data obtained from previously drilled Hole 4 indicate that the Diamond vein dips to the northwest.

Three drill rigs will be used, and each rig will drill the following sequence of holes:

Drill Rig No.	Sequence of Holes		
1	1	3 or 3A	2 or 2A
2	4	6	5
3	8	7	

Estimated Costs of the Project

Actual Costs

Category (1) Independent Contracts

Drilling

Mobilization and demobilization to staging area,

crews and equipment, 3 surface drill units $2,450.00

Mobilization and demobilization at

initial drill sites 3 @ $150.00 each 450.00

Moving between drill sites and setting up drill rigs

3 operations @ $150.00 each 450.00

Diamond core and overburden drilling,

7,500 feet 61,590.00

Depth, Feet	Price Per Foot: Non-core (Overburden) incl. casing	BXWL	AXWL
0-250	$10.50	$8.35	$8.10
250-500	"	8.65	8.40
500-750	"	8.95	8.70
750-1000	"	9.25	9.00
1000-1100	"	9.55	9.30

Reaming and casing, all sizes, 800 feet

0-500' depth @ $5.50/ft., 500'-1,000' depth @ $5.25/ft. 4,400.00

Cementing and redrilling,

200 hours @ $26.00/hr. 5,200.00

Casing lost in completed holes,

800 feet @ $3.00/ft. 2,400.00

Core boxes, cardboard		
650 @ $0.90/each	585.00	
Cement, drill muds, additives	2,000.00	
Surveying with in-hole instrument,		
75 hours @ $22.00/hour	1,650.00	
Transportation		
Helicopter - Bell Model 47 G3B-1 or equivalent model. Two hours per day minimum flight time for each 30-day period, 3 months total, 180 hours, minimum flight time,		
@ $125.00/hour	22,500.00	
87-2/3 hours, @$115.00/hour	10,081.59	
Saddle horses -		
4 @ $6.50 per day each for 93 days	2,418.00	
Shelter and Subsistence		
Tent base camp in Ice Lake Basin		
Mobilization and demobilization	100.00	
Camp and board,		
17 personnel @ $10.50/each per day, 93 days	16,650.00	
Total Category (1), rounded		$132,925.00

Category (2) Personal Services

None except:

Subcategory (a) Supervision and Technical Services

Supervisor, 3 months @ $1,000/month	$3,000.00	
Geologist, 3 months @ $950.00/month	2,850.00	
Field assistant, 3 months @ $600.00/month	1,800.00	
		7,650.00

Category (7) Miscellaneous

None except:

Assaying, 400 samples	$3,600.00	
Gold and silver @ $3.50/sample		
Lead and zinc, $2.00 each		
Copper, $1.50		
Rental of core storage space,		
3 months @ $50.00/month	150.00	
Office expenses, 3 months @ $75.00/month	225.00	
Payroll taxes and insurance	575.00	
Vehicle rental, 2 vehicles		
3 months @ $30.00/month each	180.00	
		4,730.00
Total Estimated Actual Costs (rounded)		$145,300.00

S U M M A R Y

Total Estimated Cost of the Project	$145,300.00
Government Participation @ 75%	$108,975.00

1/ The Government will not contribute to the cost of casing left in place at the request of the Operator.

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

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June 21, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U.S. Department of the Interior
Geological Survey
Washington, D.C. 20240

Re: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties,
Colorado

Dear Mr. Johnson:

I am enclosing herewith two properly signed copies of the original Lease and Agreement, dated January 15, 1960 between Manley S. Nolen and Western Exploration and Management Company, which should be substituted for the same agreements which were included in our Appendix 1 in connection with the above OME loan application, but which were found to lack Mr. Nolen's signature.

I am also enclosing a lease executed by Mrs. Anne S. Crouch as guardian of the estate of Laurie Anne Crouch and Charles Douglas Crouch, and a lease executed by Edward E. Kingery as Conservator of the estate of James Donald Crouch and Sandra Jurgens, Mental Incompetents. These leases should be added to those we have already sent you in our original Appendix 1 covering the title position to land involved under this application. We will send you the recording data on these leases as soon as we have filed them in the County Recorders Office. These leases represent the last 1/45 interest in title to our Ice Lake property.

I am also sending five copies of Lien and Subordination Agreements covering each of the following groups of mine claims:

1. Diamond, Palmyra, St. Anthony, Frederick, Joseph and Charlotte Mary unpatented lode mining claims executed by John F. Schmelzer as owner and lessor of an undivided 1/2 interest.

2. Golden Gate, Silver Dick, aka Silver Pick, and Isabel patented lode mining claims executed by John F. Schmelzer as owner and lessor of an undivided 1/2 interest.

3. Columbus, Grand View, Webster and Last Hope patented lode mining claims executed by John F. Schmelzer as owner and lessor of an undivided 45.5/100th interest.

4. Lucy, Lelia, May B and Lucy No. 2 patented lode mining claims:

   (a) Anne S. Crouch as Guardian of the Estates of Laurie Anne Crouch and Charles Douglas Crouch, minors - owners of an undivided 1/90 interest in said claims.

   Edward E. Kingery as Conservator of the Estates of James Donald Crouch, Jr., and Sandra Jurgens, mental incompetents - owners of an undivided 1/90 interest in said claims.

   (b) Marjorie S. Crouch as owner and lessor of an undivided 1/45th interest.

   (c) J. Douglas Crouch as owner and lessor of an undivided 1/45th interest.

   (d) Lucia N. Standish as owner and lessor of an undivided 1/10th interest.

   (e) Manley S. Nolen as owner and lessor of an undivided 1/30th interest.

   (f) Clark Thomas and Ellen Thomas as owner and lessor of an undivided 99.75/160th interest.

   (g) Margaret T. Beazley as owner and lessor of an undivided 14.125/160th interest.

   (h) Earl P. Thomas Estate as owner and lessor of 14.125/160th interest. Said Lien and Subordination Agreement has been executed by the following:

      (1) Tim L. Thomas - Devisee of Earl P. Thomas Estate.

      (2) John R. Thomas - Devisee of Earl P. Thomas Estate.

      (3) Mrs. Monroe Staples - Devisee of Earl P. Thomas Estate.

Very truly yours,

VITRO MINERALS CORPORATION

William B. Hall
President

WBH:EBH:mg

Certified Mail No. 110135
Return Receipt Requested

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/20/68		120
"	Johnson	110
		220
		120M

June 20, 1968

Memorandum

To: The File

From: Assistant Chief
Office of Minerals Exploration

Subject: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado

On June 3, 1968, I phoned Mr. Eugene B. Hotchkiss, Executive Vice President, Vitro Minerals Corporation, to advise him of the following deficiencies in the Applicant's property rights which had been disclosed to us on May 29, 1968, by Mr. Richard Bliss, Attorney in the Office of the Assistant Solicitor:

1. Original lease with Manley S. Nolen for his 1/30 interest in the Lucy, Lucy No. 2, May Band and Lelia claims is unexecuted.

2. Interests accounted for in the various leases in the above-named claims total 97.77 percent. Is there a missing lease to account for the remaining 2.223 percent interest?

Mr. Hotchkiss said that a letter on this subject was not necessary as he clearly understood the problem, and would act on it at once.

On June 18, 1968, Mr. L. C. Rove, Jr., Chief Geologist, Vitro Minerals Corp., visited this office to discuss any problems we may have regarding the geology and plan of work for the proposed project. I reported that we had not yet drafted a contract pending receipt of the legal papers necessary to establish full rights in the property. We reviewed the revised pattern of drilling, and discussed

the estimated costs. I mentioned that certain items under assaying and petrographic work and technical costs could not be included in an OME contract. He explained that the proposal was prepared to include all possible contingencies so that in the event an OME contract was not executed the proposal could be discussed without further preparation with a possible partner in the exploration venture.

Mr. Rove reported that Vitro Minerals Corporation had agreements with Sprague and Henwood, drilling contractor, Aerial Applicators, Inc., helicopter contractor, and George Lancaster, camp contractor, to stand by until July 15 for possible activation of the Ice Lake project on an OME contract. If work is not started by that date, Vitro Minerals is subject to a penalty payment to these contractors. I told Mr. Rove that we have no information regarding funds for OME operations in fiscal year 1969.

Mr. Rove stated that Mr. Hotchkiss had obtained all necessary legal data pertaining to the Applicant's rights in the property, and that Mr. Hotchkiss probably would bring them to this office in the next week or so.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Mr. Kirkemo

HKirkemo/bsl 6/20/68

May 29, 1968

Mr. Kirkemo:

Include the following in your next letter to Vitro:

"The original lease in Appendix I with Manley S. Nolen for his 1/30th interest in the Lucy, Lucy No. 2, May Band and Lelia claims is unexecuted (the two supplements are executed). Please furnish us with an executed copy.

"We call your attention to the fact that when all of the various interests accounted for in the leases in Appendix I in the above-named claims are added up they total 97.777%. Thus 2.223% is not accounted for. Is there a missing lease? We have leases on these claims of various interests from:

7.0625/160	1.	~~Beasley~~ Margaret T. Beasley
Estate of Charlotte P. Thomas 7.0625/160		
7.0625/160	2.	Earl P. Thomas
1/45	3.	~~J. Douglas Crouch~~
1/45	4.	Marjorie S. Crouch
1/30	5.	Manley S. Nolen
1/10	6.	Lucia N. Standish
99.75/160	7.	Clark and Ellen Thomas

MME Form 7
(2/63)

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Date	Surname	Code
6/3/68	Kirkemo	120
		110
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JUN 4 1968

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Enclosed is a copy of an amendment to Geologic Report and Exploration Proposal on the Ice Lake Project Area which replaces Pages 37 through 53 of the Applicant's original report, and a copy of Supplement to Appendix 1 of the same report. This material should complete your file on this application.

We also enclose a copy of Standard Field Tables which Thor Kiilsgaard contends is a useful item for field purposes. We concur in this contention!

FRANK E. JOHNSON

Frank E. Johnson

Enclosures

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Mr. Kirkemo

HKirkemo/bsl 6/3/68

Vitro CORPORATION OF AMERICA

90 PARK AVENUE · NEW YORK, N.Y. 10016 · MURRAY HILL 2-5700

April 4, 1968

OFFICE OF THE VICE-PRESIDENT

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20025

Dear Mr. Johnson:

Re: OME-6689
(Gold and Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties
Colorado

Vitro Corporation of America proposes to transfer all of its exploration and mining activities, including the Ice Lake Project, which is the subject of the referenced application, to its wholly owned subsidiary, Vitro Minerals Corporation, subject to the assumption by the subsidiary of all related obligations and liabilities. This change is proposed for organizational reasons to increase the effectiveness of these operations. Since 1954, Vitro Minerals Corporation has been engaged in exploration and/or mining activities, and is currently engaged in coal mining in Alaska. It is believed that the consolidation of all exploration and mining activities in this one organization should promote efficiencies and increase the effectiveness of these operations.

The personnel directing the operations would be the same, as will be seen from the following tabulation:

	Position in Vitro Corporation of America	Position in Vitro Minerals Corp.
Frank B. Jewett, Jr.	President	Chairman of Board
William B. Hall	Vice President and President of Vitro Minerals & Chemical Company Division	President
Eugene B. Hotchkiss	Vice President-Exploration of Vitro Minerals & Chemical Company Division	Executive Vice President
Cecil H. Smith	Exploration Manager of Vitro Minerals & Chemical Company Division	Exploration Manager

Vitro CORPORATION of AMERICA

The geologic staff of three experienced geologists, the equipment, maps, data, records, etc., relating to all past and current exploration activities will be transferred to Vitro Minerals Corporation.

It appears to us that all of the information furnished in support of the application of Vitro Corporation of America is applicable to an application by Vitro Minerals Corporation, its wholly owned subsidiary, and we would propose to submit an assignment of the application, prepared by our counsel, or on a form which you might deem suitable for such purpose. If you would prefer, we can execute a new application in the name of Vitro Minerals Corporation on MME Form 40 incorporating by reference the supporting material and information furnished with our application OME-6689 and would, of course, be willing to furnish any additional material you may require.

We shall proceed promptly upon the receipt of your advice.

Very truly yours,

VITRO CORPORATION OF AMERICA

W. B. Hall

W. B. Hall
Vice President

WBH:bn

5/16/68

When legal documents ~~xxx~~ now in preparation by Vitro have been received, a copy of May 8 letter and one (blue) bound copy of amendment are to be sent to Mr. Hasler.

gla

5/21/68

Vitro MINERALS CORPORATION

90 PARK AVENUE · NEW YORK, N. Y. 10016 · MURRAY HILL 2-5700

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May 21, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20240

Re: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties,
Colorado

Dear Mr. Johnson:

Thank you for your letter of May 16, 1968 acknowledging receipt of the above numbered application and the amendment to the original Geologic Report and Exploration Proposal on the Ice Lake Project Area.

We have now prepared and are pleased to enclose herewith two copies of a supplement to Appendix 1 of the said Geologic Report evidencing the chain of title into Vitro Minerals Corporation and furnishing recording data.

We shall be pleased to furnish any other information which you may desire.

Very truly yours,

VITRO MINERALS CORPORATION

W B Hall

W. B. Hall
President

bn
enc.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/16/68	On leave	120
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MAY 16 1968

Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Re: OME-6689 (Gold and Silver)
Vitro Minerals Corporation
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Gentlemen:

This will acknowledge receipt of Mr. W. B. Hall's letter and a new application (MME Form 40), both dated May 6, 1968, which replaces the application of Vitro Corporation of America dated January 22, 1968. We also acknowledge receipt of Mr. Cecil H. Smith's letter of May 8 and two copies of an amendment to your original "Geologic Report and Exploration Proposal on the Ice Lake Project Area, San Juan and San Miguel Cos., Colorado," which supercedes and replaces pages 37 through 52 and Plate V of the original report.

As soon as the legal documents now in preparation have been received, we will process the new application.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
OME Region III
Mr. Kirkemo

HKirkemo/gla 5-15-68

Vitro MINERALS CORPORATION
600 W. 33rd SO. ST. P. O. BOX 15437 SAL LAKE CITY, UTAH 84115 TELEPHONE 262-2491

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| 120

May 8, 1968

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Washington, D. C. 20240

Subject: OME-6689; An Amendment

Dear Mr. Johnson:

Enclosed please find two copies of an amendment to our original "Geologic Report and Exploration Proposal on the Ice Lake Project Area, San Juan and San Miguel Cos., Colorado." This amendment supercedes and replaces pages 37 through 52 and Plate V of the original report.

Following our recent discussion with you and Mr. Kirkemo, our geologic staff gave careful consideration to the several valuable suggestions made concerning the collar locations, bearings, and inclinations of several of the drill holes originally proposed. This has resulted in the proposal of new collar locations for Hole Nos. 2, 3, 7, and 8. The collar locations of Holes No. 4, 5, and 6 were discussed at length and have not been altered from our original plan. Based on aerial photographs, field knowledge, and favorable angle of intersection, we feel that this location is the best one to provide the required data.

The changes in drill hole locations have resulted in reducing the total maximum drilling footage. We have recalculated the estimated costs for reaming, cementing, etc., which has slightly reduced the estimated drilling cost per foot. We found an error in our original estimated helicopter costs and have increased that estimate. Overall, the total estimated cost of the project has been reduced to $165,566.00.

We wish to thank you and Hal Kirkemo for your advice on this project and will look forward to hearing from you regarding these amendments or changes.

Sincerely yours,

VITRO MINERALS CORPORATION

Cecil H. Smith

CECIL H. SMITH
Exploration Manager

CHS:bas

Enclosures

Holes reoriented why not consider testing best segments of veins?

12,590
12,320
270

DDH 1 may intersect vein about at contact assuming a 75° SW dip to vein. If so hole depth range from 400' to 450'. Horizontal distance to vein about 230'.

DDH 2 Proposed 1100' depth would extend into unclaimed ground.
Site placed hole beneath unmineralized joint-vein-fault structure (see Plate 1) south of mineralized vein, and south of tunnel.

DDH 3 Collar of hole is 200' from St. Anthony claim and on unclaimed ground.

DDH 4-6 Drill from lower levels near Diamond Lake.

DDH 7 — Move site to point closer to junction of vein and N-NE fractures.

DDH 8 - May not intersect vein if dip is 70°-80° SW. Site is at or above helicopter operating limit. Better site SW of vein 600'-800' south of present site — can be eliminated.

ICE LAKE

Holes 1, 6, 7, 8 disregard dip of the vein

Holes 4–6 collaring above Diamond Lake in talus on elaborate platform, when same results could be obtained from a site more on the level (still in some talus but better location) on elaborate platform

Are Holes 2 and 8 necessary — instead of proving out a possible one structure they appear to be testing sites which show mineral and were in past originally prospected because of ease of access.

Hole 7 seems to be of no gain — suggest setting up on knoll (see Fig. 8) and aim hole about east or a few degrees north of east at the supposed offset of the Lucy-Last Hope vein with the north and NE fractures. Also why put the rig on the bench between 13,100 and 13,200 feet and attempt to undercut the vein? (Fig. 19).

Supercharged Bell helicopter & 2 passengers could not make 13,000'. Rig could be set up lower in the basin on the slope about elev. 12,900'–13000' southwest of vein about 350 feet or so. Footage saved on this and other holes, two more holes could be drilled — from North and N45–50°E thereby exploring more of the vein. This hole could be eliminated without impairing overall value (getting close to west end of vein)

Hotchkiss
Oil ~~Rose~~ Smith
Johnson
Kirkemo

4/26

New letter and application form coming soon

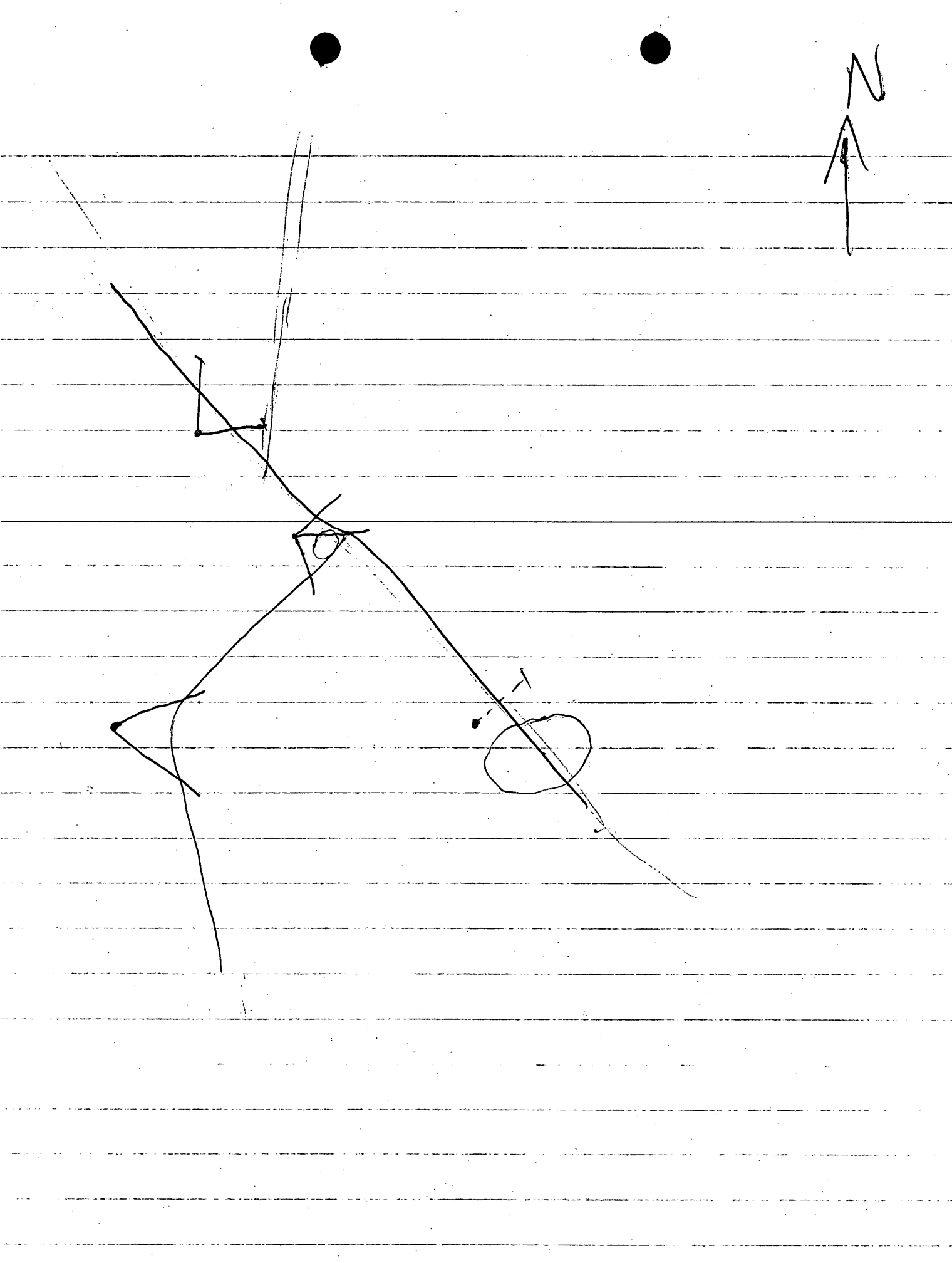
Hole 3 - Will relocate to site within claim boundaries and plan two holes to intersect both vein segments.
Holes 7 & 8 - combine for one site in HW of vein for two holes

Holes 4-5-6 - Check location with respect to talus - will change if necessary.

90' core per 24 hours

	Ball park
1 supervisor —	1200
1 Geologist —	± 950
2 assistants —	600

Camp - discussed - decided


N

OMB Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/26/68		120
		110
		220
		120M

All distribution copies destroyed.

Rewrite?

April 26, 1968

Vitro Corporation of America
P. O. Box 15437
Salt Lake City, Utah 84115

Re: OME-6689 (Gold and Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Gentlemen:

We have reviewed your application for financial assistance to explore the subject property, and we offer the following comments for your review and consideration.

We have commented previously regarding your financial eligibility, and you have initiated steps to reapply for assistance under the name "Vitro Minerals Corporation, a wholly-owned subsidiary of Vitro Corporation of America." You have our letter of April 18, 1968, pertaining to these matters.

Our principal comments on the technical and cost aspects of the application are as follows:

Proposed holes 1, 6, 7, and 8 disregard the dip of the vein.

Proposed holes 4, 5, and 6 require a drill site in talus above Diamond Lake. The same results could be achieved by drilling from a site in a better location.

Are proposed holes 2 and 8 necessary? Hole 2 appears to test a vein near its terminus, and hole 8 is more for prospecting than exploration of a specific target. A better site for 8 would be 600 to 800 feet south of its present site and in the hanging wall of the vein instead of in the foot wall.

A better site for proposed hole 7 might be a point closer to the offset of the Lucy-Last Hope vein by the N-NE fractures shown on Plate 1.

Perhaps by changing the sites of some of the holes and by eliminating others, some footage may be available for drilling other holes as the results become known. The proposed wide-spaced pattern of holes is more in the nature of prospecting than exploration. Except for holes 4, 5, and 6, the holes are isolated. Success with any one of them would require additional holes in the same general area in order to determine whether a worthwhile exploration target existed.

Under Exploration Costs and Budget, we consider the proposed technical costs and camp costs to be greater than necessary for a project involving only 7,100 feet of drilling. One supervisor, a geologist and an assistant should be able to handle this project. The Government's participation in the salaries would be in accord with the usual allowances for these services on OME projects.

The costs for camps of comparable size established for Geological Survey projects have been considerably less than the estimate used in your application. The proposed crew to be maintained in the camp is larger than we believe is necessary.

We will discuss these and other problems with Mr. Hotchkiss today when he visits this office.

Sincerely yours,

/s/ Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
OME Region III

HKirkemo/gla 4-26-68

Extra

April 26, 1968

Vitro Corporation of America
P. O. Box 15437
Salt Lake City, Utah 84115

Re: OME-6689 (Gold and Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties, Colorado

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We will discuss these and other problems with Mr. Hotchkiss today when he visits this office.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

April 25 1968

Kirk,

These are notes from Mr. Robert Foley. Foley worked this at the request of J. E. Mundine, Chief, Branch of Field Surveys, Topo. Division, Denver Colorado

Bill

OME 6689

Vitro Corp. 10 mi only 2 mo.

I would Recommend Awarding Camp Contract To Chattanooga Ranch if there equipment is satisfactory To maintain Comfortable camp.

The helicopter contract could go to either Aerial Applicators or Skychopper Depending on what guarantee you want to use.

Unless there is a Tremendous amount of Drill equipment To Transport in To the area I would be in Favor of guaranteeing only 2 hrs per Day as you have no Maximum. A few Days of Bad weather might make it difficult To maintain a 3 hr a day minimum.

I attempted To Figure cost of Housing men in Town and Ferrying them back and Forth from Drill area To South Mineral Creek Camp ground. It appears That it would Take 2 hrs per Day Flying Time To do this. Using $10.00 a day Per Man For subsistence in Town, The extra helicopter Time and Per Diem would be more Than Maintaining a Camp using The Low Bidder (Chattanooga Ranch).

Total cost for maintaining a Camp and guaranteeing 2 hrs per Day Flight time for 92 days

Aerial Applicators - $23,000 Chattanooga Ranch 23,000 $46,000	Skychopper 22,000 Chattanooga Rch. 23,000 45,000

Total cost for maintaining a Camp and guaranteeing 3 hrs per Day Flight for 92 days

Aerial Applicators 30,360 Chattanooga Rch. 23,000 $53,360	Skychopper 31,740 Chattanooga Rch. 23,000 $54,740

Total cost for Housing men in Town and guaranteeing 4hrs Flight Time for 92 days -

Aerial Applicators - 38,640 Per Diem 18,400 $10.00 Per Day Per Man. 57,040	Sky Chopper 43,056 Per Diem 18,400 61,456

Estimated cost of establishing own camp for 20 Men for 92 days -

Material -			
40 sleeping Bags	@ 20.00	$800.00	3 Hr 1 day guarantee Maintaining own Camp
20 cots	@ 6.00	120.00	Aerial App. - 23,000
20 Mattresses	@ 5.00	100.00	(2hr guarantee) 16,895
5 (4 Man Tents)	@ 150.00	750.00	39,895
2 (Large Tents)	@ 250.00	500.00	Sky chopper - 22,000
2 (utility Tents)	@ 100.00	200.00	16,895
10 heaters	@ 75.00	750.00	38,895 over 60 Hr
100 gals Fuel	@ .25	25.00	3hr guarantee -
6 Aluminum Tables	@ 15.00	90.00	Aerial App - 30,360
10 Lanterns	@ 12.00	120.00	16,895
Cooking and Mess equipt	--	500.00	47,255
INCidental equip. (Lumber, Tools)		500.00	Sky chopper 31,740
			16,895
			38,635
		4455.00	Total for equipment.
Food $3.75/day/man	@ 70.00	$6440	
Salary cook	@ 1000.00	3000	
Salary 2 Camp hands $500 ea.	@ 1000.00	3000	
		12,440	Total for Cook, asst. and Food.
		12,440	
		4455	
		$16,895	Grand Total.

Kirk,
Here is a sample bid,
contract etc
Topography

OFFICIAL
COPY
O. H. E.
RECEIVED
MAY 3 1968
INITIALS | CODE

STANDARD FORM 33, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

SOLICITATION, OFFER, AND AWARD

3. CERTIFIED FOR NATIONAL DEFENSE UNDER BDSA REG. 2 AND/OR DMS REG. 1
RATING:

4. PAGE 1 + 18 Maps 1 & 2

1. CONTRACT (Proc. Inst. Ident.) NO. 14-08-0001-11152

2. SOLICITATION NO. 68-24
[X] ADVERTISED (IFB) [ ] NEGOTIATED (RFP)

5. DATE ISSUED 3-12-68

6. REQUISITION/PURCHASE REQUEST NO. 97645-68

7. ISSUED BY CODE
U. S. Geological Survey
Bldg. 25, Federal Center
Denver, Colorado 80225
Attention: Procurement Unit, Room 1619

8. ADDRESS OFFER TO (If other than Block 7)

SOLICITATION

9. Sealed offers in original and no copies for furnishing the supplies or services described in the Schedule will be received at the place specified in Block 8, OR, IF HAND CARRIED, IN THE DEPOSITORY LOCATED IN same as block 7 until 3:00 P.M., MST, 4-3-68 (Time, Zone, and Date)

If this is an advertised solicitation, offers will be publicly opened at that time. CAUTION—LATE OFFERS: See par. 8 of Solicitation Instructions and Conditions. All offers are subject to the following:

1. The attached Solicitation Instructions and Conditions, SF 33A.
2. The General Provisions, SF 32 June 1964 edition, which is attached or incorporated herein by reference.
3. The Schedule included below and/or attached hereto.
4. Such other provisions, representations, certifications, and specifications as are attached or incorporated herein by reference. (Attachments are listed in the Schedule.)

FOR INFORMATION CALL (Name and Telephone No.) (No collect calls): F. L. Gaber (303) 233-3611 Ext. 6792

SCHEDULE

10. ITEM NO.	11. SUPPLIES/SERVICES	12. QUANTITY	13. UNIT	14. UNIT PRICE	15. AMOUNT
	ITEM 1, HELICOPTER OPERATION (NORTHWESTERN MONTANA); ITEM 2, HELICOPTER OPERATION (SOUTHWEST MONTANA), all in accordance with the attached specifications, conditions, and provisions.				
	NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE - Bids for these items will be accepted only from small business concerns as defined on page 15 of this Solicitation.				
	MARK SEALED BIDS in lower left hand corner for identification as follows:				
	INVITATION NO. 68-24 HELICOPTER OPERATION OPENING: 3:00 P.M., MST, APRIL 3, 1968				

OFFER (NOTE: Reverse Must Also Be Fully Completed By Offeror)

In compliance with the above, the undersigned offers and agrees, if this offer is accepted within ____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered, at the price set opposite each item, delivered at the designated point(s), within the time specified in the Schedule.

16. DISCOUNT FOR PROMPT PAYMENT
% 10 CALENDAR DAYS; % 20 CALENDAR DAYS; % 30 CALENDAR DAYS; % CALENDAR DAYS

17. OFFEROR NAME & ADDRESS (Street, city, county, state, & ZIP Code) CODE FACILITY CODE
Alpine Helicopters, Inc.
7655 So. 135th St.
Seattle, Wash. 98178
Area Code and Telephone No. 206 GE 2-0222 or AL 5-8746
[ ] Check If Remittance Address Is Different From Above. Enter Such Address In Schedule.

18. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or Print)
Karl J. Spee
President

19. SIGNATURE Karl J. Spee

20. OFFER DATE 3-29-68

AWARD (To Be Completed By Government)

21. ACCEPTED AS TO ITEMS NUMBERED
1 and 2 - All

22. AMOUNT
Not to exceed $28,480.00

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES (4 copies unless otherwise specified) TO ADDRESS SHOWN IN BLOCK 27

25. NEGOTIATED PURSUANT TO: [ ] 10 U.S.C. 2304(a)( ) [ ] 41 U.S.C. 252(c)( )

26. ADMINISTERED BY (If other than Block 7) CODE

27. PAYMENT WILL BE MADE BY CODE
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

28. NAME OF CONTRACTING OFFICER (Type or Print)
J. L. Ramsey
Management Officer, Rocky Mountain Region

29. UNITED STATES OF AMERICA
BY /s/ J. L. Ramsey
(Signature of Contracting Officer)

30. AWARD DATE 4-24-68

33-124 Award will be made on this form, or on Standard Form 26, or by other official written notice.

REPRESENTATIONS, CERTIFICATIONS, AND ACKNOWLEDGMENTS

The Offeror represents and certifies as part of his offer that: *(Check or complete all applicable boxes or blocks.)*

1. SMALL BUSINESS *(See par. 14 on SF 33A)*

He [X] is, [ ] is not, a small business concern. If offeror is a small business concern and is not the manufacturer of the supplies offered he also represents that all supplies to be furnished hereunder [ ] will, [ ] will not, be manufactured or produced by a small business concern in the United States, its possessions, or Puerto Rico.

2. REGULAR DEALER—MANUFACTURER *(Applicable only to supply contracts exceeding $10,000)*

He is a [X] regular dealer in, [ ] manufacturer of, the supplies offered.

3. CONTINGENT FEE *(See par. 15 on SF 33A)*

(a) He [ ] has, [X] has not, employed or retained any company or person *(other than a full-time, bona fide employee working solely for the offeror)* to solicit or secure this contract, and (b) he [ ] has, [X] has not, paid or agreed to pay any company or person *(other than a full-time, bona fide employee working solely for the offeror)* any fee, commission, percentage, or brokerage fee contingent upon or resulting from the award of this contract; and agrees to furnish information relating to (a) and (b) above, as requested by the Contracting Officer. *(For interpretation of the representation, including the term "bona fide employee," See Code of Federal Regulations, Title 41, Subpart 1-1.5.)*

4. TYPE OF BUSINESS ORGANIZATION

He operates as [ ] an individual, [ ] a partnership, [ ] a non profit organization, [X] a corporation, incorporated under the laws of the State of Washington.

5. AFFILIATION AND IDENTIFYING DATA *(Applicable only to advertised solicitations.)*

Each offeror shall complete (a) and (b) if applicable, and (c) below:

(a) He [ ] is [X] is not, owned or controlled by a parent company. *(See par. 16 on SF 33A.)*

(b) If the offeror is owned or controlled by a parent company, he shall enter in the blocks below the name and main office address of the parent company:

NAME OF PARENT COMPANY	MAIN OFFICE ADDRESS *(Include ZIP code)*.

(c) Employer's Identification Number *(See par. 17 on SF 33A)*

OFFEROR'S E.I. NO.	PARENT COMPANY'S E.I. NO.
91-0761022	

6. EQUAL OPPORTUNITY

He [ ] has, [X] has not, participated in a previous contract or subcontract subject either to the Equal Opportunity clause herein or the clause originally contained in section 301 of Executive Order No. 10925, or the clause contained in section 201 of Executive Order No. 11114; that he [ ] has, [X] has not, filed all required compliance reports; and that representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained prior to subcontract awards. *(The above representation need not be submitted in connection with contracts or subcontracts which are exempt from the clause.)*

7. BUY AMERICAN CERTIFICATE

The offeror hereby certifies that each end product, except the end products listed below, is a domestic source end product (as defined in the *clause* entitled "Buy American Act"); and that components of unknown origin have been considered to have been mined, produced, or manufactured outside the United States.

EXCLUDED END PRODUCTS	COUNTRY OF ORIGIN

8. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION *(See par. 18 on 33A.)*

(a) By submission of this offer, the offeror certifies, and in the case of a joint offer, each party thereto certifies as to its own organization, that in connection with this procurement:

(1) the prices in this offer have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other offeror or with any competitor;

(2) unless otherwise required by law, the prices which have been quoted in this offer have not been knowingly disclosed by the offeror and will not knowingly be disclosed by the offeror prior to opening in the case of an advertised procurement or prior to award in the case of a negotiated procurement, directly or indirectly to any other offeror or to any competitor; and

(3) no attempt has been made or will be made by the offeror to induce any other person or firm to submit or not to submit an offer for the purpose of restricting competition.

(b) Each person signing this offer certifies that:

(1) he is the person in the offeror's organization responsible within that organization for the decision as to the prices being offered herein and that he has not participated, and will not participate, in any action contrary to (a) (1) through (a) (3) above; or

(2) (i) He is not the person in the offeror's organization responsible within that organization for the decision as to the prices being offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (a) (1) through (a) (3) above, and as their agent does hereby so certify; and (ii) he has not participated, and will not participate, in any action contrary to (a) (1) through (a) (3) above.

ACKNOWLEDGMENT OF AMENDMENTS			
The offeror acknowledges receipt of amendments to the Solicitation for Offers and related documents numbered and dated as follows:			
AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

NOTE.—Offers must set forth full, accurate, and complete information as required by this Solicitation (including attachments). The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

☆ GPO : 1966 OF—239-171

STANDARD FORM 33A, JULY 1966
GENERAL SERVICES ADMINISTRATION -
FED. PROC. REG. (41 CFR) 1-16.101

SOLICITATION INSTRUCTIONS AND CONDITIONS

1. DEFINITIONS.
As used herein:
(a) The term "solicitation" means Invitation for Bids (IFB) where the procurement is advertised, and Request for Proposal (RFP) where the procurement is negotiated.
(b) The term "offer" means bid where the procurement is advertised, and proposal where the procurement is negotiated.
(c) For purposes of this solicitation and Block 2 of Standard Form 33, the term "advertised" includes Small Business Restricted Advertising and other types of restricted advertising.

2. PREPARATION OF OFFERS.
(a) Offerors are expected to examine the drawings, specifications, Schedule, and all instructions. Failure to do so will be at the offeror's risk.
(b) Each offeror shall furnish the information required by the solicitation. The offeror shall sign the solicitation and print or type his name on the Schedule and each Continuation Sheet thereof on which he makes an entry. Erasures or other changes must be initialed by the person signing the offer. Offers signed by an agent are to be accompanied by evidence of his authority unless such evidence has been previously furnished to the issuing office.
(c) Unit price for each unit offered shall be shown and such price shall include packing unless otherwise specified. A total shall be entered in the Amount column of the Schedule for each item offered. In case of discrepancy between a unit price and extended price, the unit price will be presumed to be correct, subject, however, to correction to the same extent and in the same manner as any other mistake.
(d) Offers for supplies or services other than those specified will not be considered unless authorized by the solicitation.
(e) Offeror must state a definite time for delivery of supplies or for performance of services unless otherwise specified in the solicitation.
(f) Time, if stated as a number of days, will include Saturdays, Sundays and holidays.
(g) Code boxes are for Government use only.

3. EXPLANATION TO OFFERORS. Any explanation desired by an offeror regarding the meaning or interpretation of the solicitation, drawings, specifications, etc., must be requested in writing and with sufficient time allowed for a reply to reach offerors before the submission of their offers. Oral explanations or instructions given before the award of the contract will not be binding. Any information given to a prospective offeror concerning a solicitation will be furnished to all prospective offerors as an amendment of the solicitation, if such information is necessary to offerors in submitting offers on the solicitation or if the lack of such information would be prejudicial to uninformed offerors.

4. ACKNOWLEDGMENT OF AMENDMENTS TO SOLICITATIONS. Receipt of an amendment to a solicitation by an offeror must be acknowledged (a) by signing and returning the amendment, (b) on the reverse of Standard Form 33, or (c) by letter or telegram. Such acknowledgment must be received prior to the hour and date specified for receipt of offers.

5. SUBMISSION OF OFFERS.
(a) Offers and modifications thereof shall be enclosed in sealed envelopes and addressed to the office specified in the solicitation. The offeror shall show the hour and date specified in the solicitation for receipt, the solicitation number, and the name and address of the offeror on the face of the envelope.
(b) Telegraphic offers will not be considered unless authorized by the solicitation; however, offers may be modified by telegraphic notice, provided such notice is received prior to the hour and date specified for receipt. (However, see par. 8.)
(c) Samples of items, when required, must be submitted within the time specified, and unless otherwise specified by the Government, at no expense to the Government. If not destroyed by testing, samples will be returned at offeror's request and expense, unless otherwise specified by the solicitation.

6. FAILURE TO SUBMIT OFFER. If no offer is to be submitted, do not return the solicitation unless otherwise specified. A letter or postcard should be sent to the issuing office advising whether future solicitations for the type of supplies or services covered by this solicitation are desired. Failure of the recipient to offer, or to notify the issuing office that future solicitations are desired, may result in removal of the name of such recipient from the mailing list for the type of supplies or services covered by the solicitation.

7. MODIFICATION OR WITHDRAWAL OF OFFERS.
(a) If this solicitation is advertised, offers may be modified or withdrawn by written or telegraphic notice received prior to the exact hour and date specified for receipt of offers. An offer also may be withdrawn in person by an offeror or his authorized representative, provided his identity is made known and he signs a receipt for the offer, but only if the withdrawal is made prior to the exact hour and date set for receipt of offers. (However, see par. 8.)
(b) If this solicitation is negotiated, offers may be modified (subject to par. 8, when applicable) or withdrawn by written or telegraphic notice received at any time prior to award. Offers may be withdrawn in person by an offeror or his authorized representative, provided his identity is made known and he signs a receipt for the offer prior to award.

8. LATE OFFERS AND MODIFICATIONS OR WITHDRAWALS. (This paragraph applies to all advertised solicitations. In the case of Department of Defense negotiated solicitations, it shall also apply to late offers and modifications (other than the normal revisions of offers by selected offerors during the usual conduct of negotiations with such offerors) but not to withdrawals of offers. Unless otherwise provided, this paragraph does not apply to negotiated solicitations issued by civilian agencies.)
(a) Offers and modifications of offers (or withdrawals thereof, if this solicitation is advertised) received at the office designated in the solicitation after the exact hour and date specified for receipt will not be considered unless: (1) they are received before award is made; and either (2) they are sent by registered mail, or by certified mail for which an official dated post office stamp (postmark) on the original Receipt for Certified Mail has been obtained, or by telegraph if authorized, and it is determined by the Government that the late receipt was due solely to delay in the mails, or delay by the telegraph company, for which the offeror was not responsible; or (3) if submitted by mail (or by telegram if authorized) it is determined by the Government that the late receipt was due solely to mishandling by the Government after receipt at the Government installation; provided, that timely receipt at such installation is established upon examination of an appropriate date or time stamp (if any) of such installation, or of other documentary evidence of receipt (if readily available) within the control of such installation or of the post office serving it. However, a modification of an offer which makes the terms of the otherwise successful offer more favorable to the Government will be considered at any time it is received and may thereafter be accepted.
(b) Offerors using certified mail are cautioned to obtain a Receipt for Certified Mail showing a legible, dated postmark and to retain such receipt against the chance that it will be required as evidence that a late offer was timely mailed.
(c) The time of mailing of late offers submitted by registered or certified mail shall be deemed to be the last minute of the date shown in the postmark on the registered mail receipt or registered mail wrapper or on the Receipt for Certified Mail unless the offeror furnishes evidence from the post office station of mailing which establishes an earlier time. In the case of certified mail, the only acceptable evidence is as follows: (1) where the Receipt for Certified Mail identifies the post office station of mailing, evidence furnished by the offeror which establishes that the business day of that station ended at an earlier time, in which case the time of mailing shall be deemed to be the last minute of the business day of that station; or (2) an entry in ink on the Receipt for Certified Mail showing the time of mailing and the initials of the postal employee receiving the item and making the entry, with appropriate written verification of such entry from the post office station of mailing, in which case the time of mailing shall be the time shown in the entry. If the postmark on the original Receipt for Certified Mail does not show a date, the offer shall not be considered.

9. DISCOUNTS. (a) Notwithstanding the fact that a blank is provided for a ten (10) day discount, prompt payment discounts offered for payment within less than twenty (20) calendar days will not be considered in evaluating offers for award, unless otherwise specified in the solicitation. However, offered discounts of less than 20 days will be taken if payment is made within the discount period, even though not considered in the evaluation of offers.
(b) In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when delivery and acceptance are at point of origin, or from date of delivery at destination or port of embarkation when delivery and

 NOTE: Unless otherwise specified, this form (SF-33A) is designated as Pages 3 and 4 of this solicitation.

acceptance are at either of those points, or from the date correct invoice or voucher is received in the office specified by the Government, if the latter date is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

10. AWARD OF CONTRACT. (a) The contract will be awarded to that responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered.

(b) The Government reserves the right to reject any or all offers and to waive informalities and minor irregularities in offers received.

(c) The Government may accept any item or group of items of any offer, unless the offeror qualifies his offer by specific limitations. UNLESS OTHERWISE PROVIDED IN THE SCHEDULE, OFFERS MAY BE SUBMITTED FOR ANY QUANTITIES LESS THAN THOSE SPECIFIED; AND THE GOVERNMENT RESERVES THE RIGHT TO MAKE AN AWARD ON ANY ITEM FOR A QUANTITY LESS THAN THE QUANTITY OFFERED AT THE UNIT PRICES OFFERED UNLESS THE OFFEROR SPECIFIES OTHERWISE IN HIS OFFER.

(d) A written award (or Acceptance of Offer) mailed (or otherwise furnished) to the successful offeror within the time for acceptance specified in the offer shall be deemed to result in a binding contract without further action by either party.

The following paragraphs (e) through (h) apply only to negotiated solicitations:

(e) The Government may accept within the time specified therein, any offer (or part thereof, as provided in (c) above), whether or not there are negotiations subsequent to its receipt, unless the offer is withdrawn by written notice received by the Government prior to award. If subsequent negotiations are conducted, they shall not constitute a rejection or counter offer on the part of the Government.

(f) The right is reserved to accept other than the lowest offer and to reject any or all offers.

(g) The Government may award a contract, based on initial offers received, without discussion of such offers. Accordingly, each initial offer should be submitted on the most favorable terms from a price and technical standpoint which the offeror can submit to the Government.

(h) Any financial data submitted with any offer hereunder or any representation concerning facilities or financing will not form a part of any resulting contract; provided, however, that if the resulting contract contains a clause providing for price reduction for defective cost or pricing data, the contract price will be subject to reduction if cost or pricing data furnished hereunder is incomplete, inaccurate, or not current.

11. GOVERNMENT-FURNISHED PROPERTY. No material, labor, or facilities will be furnished by the Government unless otherwise provided for in the solicitation.

12. LABOR INFORMATION. General information regarding the requirements of the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), the Contract Work Hours Standards Act (40 U.S.C. 327-330), and the Service Contract Act of 1965 (41 U.S.C. 351-357) may be obtained from the Department of Labor, Washington, D.C. 20210, or from any regional office of that agency. Requests for information should include the solicitation number, the name and address of the issuing agency, and a description of the supplies or services.

13. SELLER'S INVOICES. Invoices shall be prepared and submitted in quadruplicate (one copy shall be marked "original") unless otherwise specified. Invoices shall contain the following information: Contract and order number (if any), item numbers, description of supplies or services, sizes, quantities, unit prices, and extended totals. Bill of lading number and weight of shipment will be shown for shipments made on Government bills of lading.

14. SMALL BUSINESS CONCERN. A small business concern for the purpose of Government procurement is a concern, including its affiliates, which is independently owned and operated, is not dominant in the field of operation in which it is submitting offers on Government contracts, and can further qualify under the criteria concerning number of employees, average annual receipts, or other criteria, as prescribed by the Small Business Administration. (See Code of Federal Regulations, Title 13, Part 121, as amended, which contains detailed industry definitions and related procedures.)

15. CONTINGENT FEE. If the offeror, by checking the appropriate box provided therefor, has represented that he has employed or retained a company or person (other than a full-time bona fide employee working solely for the offeror) to solicit or secure this contract, or that he has paid or agreed to pay any fee, commission, percentage, or brokerage fee to any company or person contingent upon or resulting from the award of this contract, he shall furnish, in duplicate, a complete Standard Form 119, Contractor's Statement of Contingent or Other Fees. If offeror has previously furnished a completed Standard Form 119 to the office issuing this solicitation, he may accompany his offer with a signed statement (a) indicating when such completed form was previously furnished, (b) identifying by number the previous solicitation or contract, if any, in connection with which such form was submitted, and (c) representing that the statement in such form is applicable to this offer.

16. PARENT COMPANY. A parent company for the purpose of this offer is a company which either owns or controls the activities and basic business policies of the offeror. To own another company means the parent company must own at least a majority (more than 50 percent) of the voting rights in that company. To control another company, such ownership is not required; if another company is able to formulate, determine, or veto basic business policy decisions of the offeror, such other company is considered the parent company of the offeror. This control may be exercised through the use of dominant minority voting rights, use of proxy voting, contractual arrangements, or otherwise.

17. EMPLOYER'S IDENTIFICATION NUMBER. (Applicable only to advertised solicitations.) The offeror shall insert in the applicable space on the offer form, if he has no parent company, his own Employer's Identification Number (E.I. No.) (Federal Social Security Number used on Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941), or, if he has a parent company, the Employer's Identification Number of his parent company.

18. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION. (a) This certification on the offer form is not applicable to a foreign offeror submitting an offer for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.

(b) An offer will not be considered for award where (a)(1), (a)(3), or (b) of the certification has been deleted or modified. Where (a)(2) of the certification has been deleted or modified, the offer will not be considered for award unless the offeror furnishes with the offer a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

19. ORDER OF PRECEDENCE. In the event of an inconsistency between provisions of this solicitation, the inconsistency shall be resolved by giving precedence in the following order: (a) the Schedule; (b) Solicitation Instructions and Conditions; (c) General Provisions; (d) other provisions of the contract, whether incorporated by reference or otherwise; and (e) the specifications.

* U.S. GOVERNMENT PRINTING OFFICE : 1966 OF—255-148—(8-6)

BIDDING SCHEDULE

BIDDERS MAY BID ON ANY ONE OR MORE ITEMS:

BIDDERS ARE INVITED TO SUBMIT BIDS ON THE FOLLOWING:

Item No. 1.

Furnish one (1) helicopter, one (1) qualified pilot and one (1) maintenance crew (in this instance the maintenance crew will include at least one (1) mechanic; however, the pilot and mechanic must be different individuals, unless this requirement is waived by the Contracting Officer), with field maintenance equipment and parts for exclusive use of the United States Government in Northwestern Montana, in areas outlined on the attached map, labeled Item No. 1, Map 1.

For the period July 10, 1968 through September 2, 1968. (55 Calendar days, extendible for an additional 10 calendar days.) (See paragraph 27.)

For each hour of actual flying time (see paragraph 22) for the helicopter, the Government will pay the bid price per flying hour. The Government guarantees a minimum of 77 flying hours based on an average 1.4 flying hours per calendar day. The minimum guarantee applies provided the helicopter is kept in a constant state of readiness for service during the daylight hours of the contract period. The maximum number of flying hours that can be paid for under this contract is 91 hours.

BID PRICE PER FLYING HOUR FOR ITEM 1 (MAXIMUM 91 HOURS). . . . . $160.00 (Flying Hour) $14,560 (Total)

Item No. 2.

Furnish one (1) helicopter, one (1) qualified pilot and one (1) maintenance crew (in this instance the maintenance crew will include at lease one (1) mechanic; however, the pilot and mechanic must be different individuals, unless this requirement is waived by the Contracting Officer), with field maintenance equipment and parts for exclusive use of the United States Government in Southwest Montana, in areas outlined on the attached map, labeled Items 1, 2, and 3 on Map 2.

For the period July 10, 1968 through August 30, 1968. (52 calendar days, extendible for an additional 10 calendar days.) (See paragraph 27.)

For each hour of actual flying time (see paragraph 22) for the helicopter, the Government will pay the bid price per flying hour. The Government guarantees a minimum of 73 flying hours based on an average of 1.4 flying hours per calendar day. The minimum guarantee applies provided the helicopter is kept in a constant state of readiness for service during the daylight hours of the contract period. The maximum number of flying hours that can be paid for under this contract is 87 hours.

BID PRICE PER FLYING HOUR FOR ITEM 2 (MAXIMUM 87 HOURS). . . . . $160.00 (Flying Hour) $ 13,920 (Total)

The intent of the Solicitation to Bid is to obtain a bid price per flying hour. Bids offering a scaled bid price per flying hour, that is, a bid price for an initial period of flying hours and a different bid price for subsequent flying hours, will not receive consideration.

The bidder represents and agrees that there are no Federal Transportation taxes included in the bid price.

Discounts offered for less than 20 days will not be considered in evaluating bids.

NOTICE TO ALL BIDDERS

1. EACH BIDDER SHALL FURNISH WITH HIS BID THE INFORMATION LISTED BELOW: FAILURE TO FURNISH THE INFORMATION LISTED BELOW MAY BE CONSIDERED SUFFICIENT REASON FOR THE REJECTION OF THE BID.

   (a) Evidence of availability of parts and facilities including an outline of the bidder's plans for stocking and/or supplying spare parts at the operation area for the maintenance of the helicopter.

   (b) Evidence of financial responsibility, including ability to meet current payrolls.

   (c) Record of bidder's performance on comparable contracts during three (3) year period preceding date of scheduled bid opening.

   (d) Proof of ownership or availability of the helicopter(s) which the bidder intends to use in the performance of the contract. (See paragraph 10.)

   (e) Location at which bidder's equipment (the equipment he intends to use if awarded a contract) may be inspected if requested by the Contracting Officer.

   (f) Safety Record, as per paragraph 9 of the Specifications.

2. BID GUARANTEE: If the total amount of the bid, figured on the basis of the maximum number of flying hours specified times the bid price per flying hour, exceeds $2,000.00 a bid guarantee is required in the amount of 20% of the total maximum amount of the bid.

   Where a bid guarantee is required by the Solicitation for Bids, failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids may be cause for rejection of the bid.

   A bid guarantee shall be in the form of a firm commitment, such as a bid bond, postal money order, certified check, cashier's check, irrevocable letter of credit or, in accordance with Treasury Department Regulations, certain bonds or notes of the United States. Bid guarantees, other than bid bonds, will be returned (a) to unsuccessful bidders as soon as practicable after the opening of bids, and (b) to the successful bidder upon execution of such further contractual documents and bonds as may be required by the bid as accepted.

   If the successful bidder, upon acceptance of his bid by the Government within the period specified therein for acceptance (sixty days if no period is specified) fails to execute such further contractual documents, if any, and give such bond(s) as may be required by the terms of the bid as accepted within the time specified (ten days if no period is specified) after receipt of the forms by him, his contract may be terminated for default. In such event he shall be liable for any cost of procuring the work which exceeds the amount of his bid, and the bid guarantee, shall be available toward offsetting such difference.

3. PERFORMANCE BOND: If the maximum amount of the resulting contract exceeds $2,000.00, the bidder to whom award is made shall furnish a good and sufficient performance bond, Standard Form 25, in the amount of 50% of the maximum amount that the contract is not to exceed.

4. LATE BIDS: Subpart 1-2.303-1 through 8 of the Federal Procurement Regulations will govern the disposition of the late bids, except that bids bearing metered postage and lacking an official postmark or other means of positively identifying time of mailing will not be considered if received after the bid opening time shown in this Solicitation.

5. AWARD: In determining the lowest responsible bidder, the Government reserves the right to consider in addition to the price, other factors such as characteristics and adaptability of equipment, financial responsibility, skill, experience, record of integrity in business, ability to furnish repairs and maintenance services, record of performance on comparable contract, and safety record. Any other factor not specifically mentioned or provided for herein, in addition to that of the bid price, which will affect the final cost to the Government, will be taken into consideration in making award.

6. REQUIREMENTS: The intent of the specifications is to obtain the use of two (2) different helicopters, each powered by an engine developing not less than 225 H.P. at 8800 feet altitude on ICAO standard day. The helicopters are to be utilized to facilitate field surveying operations as described in Items 1 and 2. The helicopters will be required to make landings and takeoffs in small clearings within timber at altitudes ranging up to 12,000 feet above sea level. Landings may be required on barren peaks at altitudes up to 14,000 feet. Since operations are scheduled during the months of July and August, the performance must be routinely accomplished in relatively high air temperatures. The helicopters must be certified by F.A.A. to carry two (2) passengers exclusive of pilot. The helicopters must be capable of carrying a useful load of not less than 1,050 pounds.

7. SPECIAL REQUIREMENTS: Each helicopter shall be equipped with the following:

   (a) Complete set of instruments, including a carburetor air temperature gauge to warn pilots of carburetor icing conditions.

   (b) Skid type landing gear.

   (c) Racks outside for carrying instruments and supplies.

8. AVAILABLE FLYING HOURS AND F.A.A. CERTIFICATION: No helicopter may be used in the performance of the contract which has, as of the date operations are scheduled to start, more than 400 flying hours since completion of a major engine and transmission overhaul. The contractor must display in the helicopter a current and valid certificate of airworthiness issued by the F.A.A. Any helicopter used in the performance of the contract shall be operated and maintained in accordance with the Federal Aviation Agency regulations.

9. SAFETY RECORD: The bidder must submit a complete record of all his helicopter accidents which have occurred within the past five (5) years involving an injury or fatality to the pilot or passenger. Complete data is required showing the number of injuries and/or deaths which resulted in each accident. This includes the activities of the parent organization and/or all subsidiary companies, or service contracts wherein equipment or personnel who were associated with the bidder were involved. Failure to list any accident involving injuries or fatality to pilot or passengers shall be deemed sufficient grounds for rejection of the bid or cancellation of the resulting contract if omission of any accident involving injuries or fatality is not discovered until after award.

10. PROOF OF OWNERSHIP OR AVAILABILITY OF HELICOPTER(S): The bidder shall submit with his bid, proof of ownership or of availability of the helicopter(s) he intends to use in the performance of the contract. The proof shall consist of copies of current F.A.A. records indicating the owner or a copy of the agreement with the owner's name shown on the current F.A.A. records.

Bidder shall fill in the information requested below regarding the helicopter(s) he intends to use in the performance of the contract:

Item 1. Helicopter Make BELL and Model 47G3B-1 Engine Make Lycoming and H.P. 270 Maximum Weight 2950 (Pounds) Empty Weight 1900 (Pounds) Useful Load 1050 (Pounds)

Date of Manufacture 1965 F.A.A. No. of Helicopter N8509F and date helicopter passed last periodic inspection as prescribed by the F.A.A. Feb. 28, 1967

Item 2. Helicopter Make BELL and Model 47G3B-1 Engine Make Lycoming and H.P. 270 Maximum Weight 2950 (Pounds) Empty Weight 1900 (Pounds) Useful Load 1050 (Pounds)

Date of Manufacture 1965 F.A.A. No. of Helicopter N1182W and date helicopter passed last periodic inspection as prescribed by the F.A.A. Feb. 28, 1967

. . . . . .

11. INSPECTION: The bidder and contractor agree, if requested by the Contracting Officer, to make available within three (3) calendar days after receipt of the request, the helicopters, maintenance equipment, and facilities, he intends to use in the performance of the contract for inspection by the Contracting Officer or his designated representative.

PERSONNEL

12. PILOT QUALIFICATIONS: The bidder and contractor agree that pilots used in the performance of the contract must possess the following qualifications:

(a) Must hold a commercial pilot's certificate with helicopter rating(s) in accordance with F.A.A. requirements.

(b) At least 700 helicopter flying hours as pilot in command.

(c) At least 400 hours of (b) shall have been in geological or surveying type helicopter operations in remote and rugged terrain similar to that of the contract area, involving numerous takeoffs and landings under varied conditions requiring a high degree of pilot skill.

(d) At least 50 hours of (c) shall have been in helicopter operations in the make and type of the helicopter to be used in the performance of the contract.

(e) Capable of making landings and takeoffs on irregular terrain (plus and minus change of elevation of one foot), the area of which may be as small as 100 square feet without benefit of ground effect and operating in winds of up to 30 mph velocity.

13. PERFORMANCE AND SKILL OF PILOTS: Within five (5) calendar days after receipt of award of the contract, the contractor agrees to furnish the Contracting Officer a list of pilots to be utilized in the performance of the contract with the following information:

(a) Name

(b) Commercial Pilot Certificate Number and Ratings.

(c) Total number of helicopter flying hours as pilot in command.

(d) Total number of helicopter flying hours as pilot in command in the type of helicopter operations specified under paragraph 12(c) of the contract.

(e) Number of hours included in (d) in make and type of helicopter to be used in the performance of the contract.

(f) Record of past performance on comparable contracts, giving area of operations, date and name and address of employer. If under government contract, furnish contract number and name and address of agency.

(g) A certification from the pilot that he has read the specifications and conditions of the contract, fully understands the requirements, has agreed to fly for the contractor on the contract and agrees to abide by all listed specifications and conditions.

Only those pilots who are regularly employed by the contractor, or whose past performance and experience can be verified to the satisfaction of the Contracting Officer, will be considered for use under this contract. The above pilot information is necessary to enable the Contracting Officer to determine whether or not a pilot demonstration is necessary.

The contractor agrees at the request of the Contracting Officer to make available the pilot(s) within five (5) calendar days after date of receipt of request, to enable the Government to test their ability to land and take off in a limited area with a full useful load at an elevation of 9,000 feet. Each pilot may also be required to demonstrate his ability to make an autorotative approach to within ten (10) feet of the ground and a power recovery back to normal flight. The helicopter used for this demonstration shall be the same type and model as the contractor will use on the contract. The contractor agrees to select the place and conduct the demonstration at his own expense. The Contracting Officer shall be notified by the contractor as to the time and place of at least three (3) days prior to the demonstration.

If the pilot(s), in the opinion of the Contracting Officer, fail(s) to meet the requirements of paragraph 12, or fail(s) to pass the test, the contractor shall furnish within three (3) days a substitute pilot for testing. The failure of a substitute pilot to meet the requirements or pass the test in time to permit start of operations as scheduled shall be cause for default under Clause 11 of Standard Form 32, General Provisions. The determination of the Contracting Officer as to the desirability of a demonstration test and as to the ability of the pilot(s) is final.

14. MECHANIC(S): The bidder and contractor agree that mechanics assigned to the performance of this contract must possess the following qualifications:

(a) Must hold a mechanic's certificate with airframe and power plant rating in accordance with F.A.A. requirements.

(b) Must have had at least one (1) year helicopter field maintenance and be capable of making any and all adjustments and repairs normally accomplished in the field without technical assistance.

Within five (5) days after receipt of award of the contract, the contractor agrees to furnish the Contracting Officer a list of mechanic(s) to be utilized in the performance of the contract with the following information:

(a) Name

(b) Mechanic Certificate number and rating.

(c) Total years of experience in helicopter maintenance.

(d) Number of years of helicopter field maintenance experience.

(e) A certification from the mechanic that he has read the specifications and conditions of the contract, fully understands the requirements, has agreed to work for the contractor on the contract and agrees to abide by all listed specifications and conditions.

(f) Name and address of employer(s) for past five (5) years.

The mechanic(s) to be utilized under the terms of this contract shall be available for consultation with the Contracting Officer if so requested.

15. PERFORMANCE UNDER CONTRACT: The Government may determine, at any time during the term of the contract, whether or not the cooperation, performance, or skill of a pilot or mechanic is unsatisfactory. If a determination is made, the contractor will be notified, in writing, stating why the contractor's personnel is unsatisfactory. The contractor will be allowed three (3) calendar days after receipt of notice to rectify the conditions, or when necessary, seven (7) calendar days to replace the pilot and/or mechanic.

If a helicopter is rendered inactive due to this cause the contract period will be extended by the calendar number of days lost during the three (3) day or seven (7) day period.

The contractor's failure to replace an unsatisfactory pilot or mechanic within seven (7) calendar days shall be deemed a sufficient reason for declaring the contractor in default under Clause 11 of Standard Form 32, General Provisions.

The contractor shall not use a pilot or mechanic in the performance of the contract whose name and qualifications have not been submitted to and approved by the Contracting Officer. Any replacement pilot is subject to the performance demonstration requirements. Performance demonstrations required for replacement pilots will be held where the replacement pilot reports for duty, at the contractor's expense.

OPERATIONS

16. REPORT FOR DUTY: Helicopter, pilot and maintenance crew with field maintenance equipment and parts shall, at the contractor's expense, report ready for operations at the point designated in the letter of award.

The equipment and personnel are to remain continuously in the approximate operations area for the contract term.

17. COST OF DELIVERY, MAINTENANCE AND SUBSISTENCE: The costs of placing the helicopter, pilot, maintenance crew, and equipment at the reporting point ready for operations, as well as the cost of maintenance and repair of the helicopter during the term of the contract and removal of equipment and personnel from termination point after completion of the contract shall be at the contractor's expense. Flying time in connection with field maintenance, as well as flying time for return to base of operations due to mechanical trouble shall be at the contractor's expense. Flying time between projects will be paid by the Government at the contracted rate.

The contract will terminate on one of the projects outlined on attached maps.

The contractor shall initiate operations in the areas as outlined by the Contracting Officer. Each day's operations may be carried on from a different point, usually on or near a road. Transportation from base of operations to various operating points will be furnished by the Government.

The bases of operation will be selected by the Contracting Officer's designated representative, and will be located as closely as possible to the operating points, giving due consideration to a source of supply of aviation fuel, oil, other supplies and living facilities for all personnel.

Housing and subsistence of the contractor's personnel will be at the contractor's expense.

18. SCHEDULE OF OPERATIONS: The schedule of operations will be planned by the Government with the cooperation of the pilot(s). The contractor agrees to designate, in writing, one pilot to represent the contractor on the job for the purpose of planning operations with the Contracting Officer's designated representative(s). Work will normally be carried out on Mondays through Fridays, National Holidays excepted. Saturdays, Sundays, and National Holidays are not normally considered work days. The Government reserves the right to work on any day, and during any daylight hours, if the necessity of the work requires. Work performed on these days will be counted as part of the minimum guarantee.

19. HELICOPTER USE: The helicopter(s) shall not be used for any purpose other than Government business, except in cases of emergency. In such cases, the Contracting Officer may release the helicopter(s) for errands of mercy. Helicopter(s) furnished under the contract shall not be used for the salvage of damaged or demolished helicopters or other aircraft without specific permission of the Contracting Officer.

20. GASOLINE AND LUBRICATING OIL: It is the responsibility of the contractor to furnish at his own expense, all gasoline and lubricating oil needed to perform the contract.

21. TIME OF MAKING FLIGHT: Flights in the operational areas shall be made only on days considered suitable for surveying purposes in the opinion of, and as directed by the Contracting Officer's designated representative(s).

22. DEFINITION AND COMPUTATION OF FLYING TIME: As used in these specifications, "actual flying time" shall mean the logged time (to the nearest five minutes, i.e., 5:12 would be logged as 5:10, and 5:13 would be logged as 5:15) from takeoff to landing, while the helicopter is engaged in transporting the survey parties with equipment and supplies to and from their field stations. The Government may furnish time recorders to be attached to each helicopter.

In the event that the helicopter is not ready for use, when needed, during any part of a work day (a day chosed for work) between 7:00 a.m. and 5:00 p.m., and if the period of non-readiness is of 2 hours duration or more, the contract period will be extended one day.

23. REPLACEMENT OF HELICOPTER: In the event that a helicopter is rendered inactive or damaged beyond immediate repair the contractor must within seven (7) calendar days (from the hour the helicopter goes out of commission) furnish a replacement helicopter which will meet the terms of the contract. The contract period will be extended by the time lost during the seven (7) day period. If the contractor does not make the replacement as outlined above, the Government will take the necessary steps to secure a replacement and the contractor will be charged with any excess costs incurred which exceed the contract terms. Contractor may be required to replace a helicopter which in the opinion of the Contracting Officer is unsuitable for the work being performed. An example of this would be a case in which excessive down time or repeated equipment failure adversely affects progress on the job.

24. REPAIR AND RESCUE: When search for and rescue of Government and contractor's personnel or repair of ships which are out of commission (either at the base camp or in the field) is made necessary by the failure of the contractor's equipment or accidents caused by his employees, the cost of such search, rescue and repairs are solely the responsibility of the contractor. This includes all flying time required to return the rescued men to the base of operations. If the contractor fails to arrange for search and rescue operations, the Government's agent will take the necessary steps to initiate this operation and the contractor will be liable for costs incurred.

25. REPORTS: A copy of the daily log of flying hours with entries in a standard aircraft log book for the helicopter shall be submitted to the Contracting Officer's designated representative at the end of each day. The log book shall be attested by the Contracting Officer's designated representative.

26. FEDERAL TRANSPORTATION TAXES: As only Government personnel and incidental equipment and baggage will be transported by the contractor's helicopter(s) Federal Transportation Taxes are not applicable to this contract. Therefore, bids shall not include Federal Transportation Taxes nor shall invoices or vouchers include such taxes.

27. TIME EXTENSION: Time extension will be made as provided in paragraphs 15, 22, and 23 due to non-readiness; however the minimum guarantee will not be increased if time extension is due to non-readiness. Also the Government reserves the right to extend the period of the contract, up to the additional calendar days shown for each item. If the contract is so extended the guaranteed number of flying hours per calendar day will be 1.4 and the limitations imposed by the specifications of the contract shall apply. The Government reserves the right to use any part of or all of the respective calendar days extension.

28. PAYMENTS: The contractor, for services performed, shall prepare and submit in quadruplicate, to the Contracting Officer's named representative, his invoice or voucher for payment on July 31, 1967 and at 2 week intervals thereafter, until the end of the contract period. Each voucher or invoice must cite purchase order and contract number.

Payment for services rendered prior to termination because of default shall be made only on the basis of hours actually flown and no minimum guarantee will be effective, and final settlement shall be made only after replacement equipment and services have been obtained by the Government and the cost thereof determined.

Prompt payment discount period will be based on the date correct invoice is received by the Contracting Officer and the date of the covering check issued by the Treasury Disbursing Office.

29. LIABILITIES: Except as otherwise provided by law, the Government will not be responsible for the loss of, or damage to, the helicopter(s) or death of, or injury to, the contractor's personnel, or for death of, or injury to persons or for damages to property resulting from operations of the helicopter(s). The contractor shall be liable for death of, or injury to, personnel being transported under the terms of the contract, caused by the negligent operation of the helicopter(s) by employees or agents of the contractor. The contractor shall be responsible for all damages to persons or property that occur as a result of his fault or negligence in connection with the prosecution of the work.

TERMINATION FOR CONVENIENCE OF THE GOVERNMENT

The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Part 1-8 of the Federal Procurement Regulations (41 CFR 1-8), in effect on this contract's date. To the extent that this contract is for services and is so terminated the Government shall be liable for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE

(a) RESTRICTION. Bids or proposals under this procurement are solicited from small business concerns only and this procurement is to be awarded only to one or more small business concerns. This action is based on a determination by the Contracting Officer, alone or in conjunction with a representative of the Small Business Administration, that it is in the interest of maintaining or mobilizing the Nation's full productive capacity, in the interest of war or national defense programs, or in the interest of assuring that a fair proportion of Government procurement is placed with small business concerns. Bids or proposals received from firms which are not small business concerns shall be considered nonresponsive.

(b) DEFINITION. A "small business concern," in the Air Transportation industry, is a concern that (1) is certified as a small business concern by the Small Business Administration, or (2) is independently owned and operated, is not dominant in the field of operation in which it is bidding on Government contracts, and, with its affiliates, employs not more than 1,000 employees. In addition to meeting these criteria, a manufacturer or a regular dealer submitting bids or proposals in his own name must agree to furnish in the performance of the contract end items manufactured or produced in the United States, its possessions, or Puerto Rico, by small business concerns: Provided, that this additional requirement does not apply in connection with construction or service contracts.

FEDERAL, STATE, AND LOCAL TAXES

(a) Except as may be otherwise provided in this contract, the contract price includes all applicable Federal, State and local taxes and duties.

(b) Nevertheless, with respect to any Federal excise tax or duty on the transactions or property covered by this contract, if a statute, court decision, written ruling, or regulation takes effect after the contract date, and--

(1) Results in the Contractor being required to pay or bear the burden of any such Federal excise tax or duty or increase in the rate thereof, which would not otherwise have been payable on such transactions or property, the contract price shall be increased by the amount of such tax or duty or rate increase: Provided, That the Contractor if requested by the contracting officer, warrants in writing that no amount for such newly imposed Federal excise tax or duty or rate increase was included in the contract price as a contingency reserve or otherwise; or

(2) Results in the Contractor not being required to pay or bear the burden of, or in his obtaining a refund or drawback of, any such Federal excise tax or duty which would otherwise have been payable on such transactions or property or which was the basis of an increase in the contract price, the contract price shall be decreased by the amount of the relief, refund, or drawback, or that amount shall be paid to Government, as directed by the Contracting Officer. The contract price shall be similarly decreased if the Contractor, through his fault or negligence or failure to follow instructions of the Contracting Officer, is required to pay or bear the burden of, or does not obtain a refund or drawback of any such Federal excise tax or duty.

(c) No adjustment pursuant to paragraph (b) above will be made under this contract unless the aggregate amount thereof is or may reasonably be expected to be over $100.

(d) As used in paragraph (b) above, the term "contract date" means the date set for the bid opening, or if this is a negotiated contract, the date of this contract. As to additional supplies or services procured by modification to this contract, the term "contract date" means the date of such modification.

(e) Unless there does not exist any reasonable basis to sustain an exemption, the Government upon request of the Contractor, without further liability, agrees, except as otherwise provided in this contract, to furnish evidence appropriate to establish exemption from any tax which the Contractor warrants in writing was excluded from the contract price. In addition, the Contracting Officer may furnish evidence to establish exemption from any tax that may, pursuant to this clause, give rise to either an increase or decrease in the contract price. Except as otherwise provided in this contract, evidence appropriate to establish exemption from duties will be furnished only at the direction of the Contracting Officer.

(f) The Contractor shall promptly notify the Contracting Officer of matters which will result in either an increase or decrease in the contract price, and shall take action with respect thereto as directed by the Contracting Officer.

TERMINATION FOR CONVENIENCE OF THE GOVERNMENT

The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Part 1-8 of the Federal Procurement Regulations (41 CFR 1-8), in effect on this contract's date. To the extent that this contract is for services and is so terminated the Government shall be liable for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE

(a) RESTRICTION. Bids or proposals under this procurement are solicited from small business concerns only and this procurement is to be awarded only to one or more small business concerns. This action is based on a determination by the Contracting Officer, alone or in conjunction with a representative of the Small Business Administration, that it is in the interest of maintaining or mobilizing the Nation's full productive capacity, in the interest of war or national defense programs, or in the interest of assuring that a fair proportion of Government procurement is placed with small business concerns. Bids or proposals received from firms which are not small business concerns shall be considered nonresponsive.

(b) DEFINITION. A "small business concern," in the Air Transportation industry, is a concern that (1) is certified as a small business concern by the Small Business Administration, or (2) is independently owned and operated, is not dominant in the field of operation in which it is bidding on Government contracts, and, with its affiliates, employs not more than 1,000 employees. In addition to meeting these criteria, a manufacturer or a regular dealer submitting bids or proposals in his own name must agree to furnish in the performance of the contract end items manufactured or produced in the United States, its possessions, or Puerto Rico, by small business concerns: Provided, that this additional requirement does not apply in connection with construction or service contracts.

FEDERAL, STATE, AND LOCAL TAXES

(a) Except as may be otherwise provided in this contract, the contract price includes all applicable Federal, State and local taxes and duties.

(b) Nevertheless, with respect to any Federal excise tax or duty on the transactions or property covered by this contract, if a statute, court decision, written ruling, or regulation takes effect after the contract date, and--

(1) Results in the Contractor being required to pay or bear the burden of any such Federal excise tax or duty or increase in the rate thereof, which would not otherwise have been payable on such transactions or property, the contract price shall be increased by the amount of such tax or duty or rate increase: Provided, That the Contractor if requested by the contracting officer, warrants in writing that no amount for such newly imposed Federal excise tax or duty or rate increase was included in the contract price as a contingency reserve or otherwise; or

(2) Results in the Contractor not being required to pay or bear the burden of, or in his obtaining a refund or drawback of, any such Federal excise tax or duty which would otherwise have been payable on such transactions or property or which was the basis of an increase in the contract price, the contract price shall be decreased by the amount of the relief, refund, or drawback, or that amount shall be paid to Government, as directed by the Contracting Officer. The contract price shall be similarly decreased if the Contractor, through his fault or negligence or failure to follow instructions of the Contracting Officer, is required to pay or bear the burden of, or does not obtain a refund or drawback of any such Federal excise tax or duty.

(c) No adjustment pursuant to paragraph (b) above will be made under this contract unless the aggregate amount thereof is or may reasonably be expected to be over $100.

(d) As used in paragraph (b) above, the term "contract date" means the date set for the bid opening, or if this is a negotiated contract, the date of this contract. As to additional supplies or services procured by modification to this contract, the term "contract date" means the date of such modification.

(e) Unless there does not exist any reasonable basis to sustain an exemption, the Government upon request of the Contractor, without further liability, agrees, except as otherwise provided in this contract, to furnish evidence appropriate to establish exemption from any tax which the Contractor warrants in writing was excluded from the contract price. In addition, the Contracting Officer may furnish evidence to establish exemption from any tax that may, pursuant to this clause, give rise to either an increase or decrease in the contract price. Except as otherwise provided in this contract, evidence appropriate to establish exemption from duties will be furnished only at the direction of the Contracting Officer.

(f) The Contractor shall promptly notify the Contracting Officer of matters which will result in either an increase or decrease in the contract price, and shall take action with respect thereto as directed by the Contracting Officer.

EQUAL OPPORTUNITY

(a) Clause 18, regarding "Equal Opportunity," in the attached (by reference) Standard Form 32, is amended by deleting references to the President's Committee on Equal Employment Opportunity, Executive Order No. 10925 of March 6, 1961, as amended, and section 303 of Executive Order No. 10925 of March 6, 1961, as amended; and substituting therefor the Secretary of Labor, Executive Order No. 11246 of September 24, 1965, and section 204 of Executive Order No. 11246 of September 24, 1965, respectively.

(b) In accordance with regulations of the Secretary of Labor, the rules, regulations, orders, instructions, designations, and other directives referred to in section 403(b) of Executive Order No. 11246, remain in effect and, where applicable, shall be observed in the performance of this contract until revoked or superseded by appropriate authority.

CHANGES IN GENERAL PROVISIONS, Standard Form 32, June 1964 Edition Clause 22 is changed to read as follows:

Clause 22. Utilization of Concerns in Labor Surplus Areas.

(The following clause is applicable if this contract exceeds $5,000.00)

"It is the policy of the Government to place contracts with concerns which will perform such contracts substantially in or near concentrated unemployment of under-employment sections of States or in areas of persistent or substantial labor surplus, where this can be done consistent with the efficient performance of the contract and at prices no higher than are obtainable elsewhere. The Contractor agrees to use his best efforts to place his subcontracts in accordance with this policy. In complying with the foregoing and with paragraph (b) of the clause of this contract entitled "Utilization of Small Business Concerns" the Contractor in placing his subcontracts shall observe the following order of preference: (a) Certified-Eligible concerns which are also small business concerns; (b) other certified-eligible concerns; (c) persistent labor surplus area concerns which are also small business concerns; (d) other persistent labor surplus area concerns; (e) substantial labor surplus area concerns which are also small business concerns; (f) other substantial labor surplus area concerns; and (g) small business conerns which are not labor surplus area concerns."

ORAL STATEMENT: No Oral statement of any person shall be allowed in any manner or degree to modify or otherwise affect the terms, conditions, and specifications of this Solicitation for Bids, or the resulting contract.

INFORMATION REQUIRED OF ALL BIDDERS

1. The following certification shall be required to be included with all bids:

   (a) Have you participated in any contractual agreement which contained the Equal Employment Opportunity Clause prescribed in Section 202 of Executive Order 11246?
   Yes_____ No. X . If "Yes", answer question (b).

   (b) Were you required pursuant to the Rules and Regulations on Equal Employment Opportunity (41 CFR 60-1) to file a compliance report as the result of such contractual agreements?
   Yes_____ No X . If "Yes", answer question (c).

   (c) Did you file the necessary compliance report in accordance with the instructions contained on the appropriate report forms?
   Yes_____ No X . If "Yes," answer question (d).

   (d) Name of agency requiring report_____

   _____

   (e) Has any action been required of you to improve your compliance posture?
   Yes_____ No_____.

   (f) What is your current total employment? 4

MAP #1
Item #1
To Calgary 100 miles To Lethbridge 57 miles
Cardston
Milk River
WATERTON-GLACIER
INTERNATIONAL
Waterton Park
Chief Mtn.
Whiskey Gap
Del Bonita
ALTA.
MONT.
Coutts
Sunburst
BLACKFEET
INDIAN
RESERVATION
Browning
East Glacier Park
Cut Bank
Kevin
Shelby
Conrad
Valier
Dupuyer
Heart Butte
Lake Frances
Choteau
Fairfield
Great Falls
Black Eagle
Vaughn
Sun River
Simms
Augusta
Cascade
Ulm
Eden
Sand Coulee
Stockett
Whitefish
Columbia Falls
Columbia Heights
Kalispell
Somers
Bigfork
Lakeside
Polson
Pablo
Ronan
Charlo
St. Ignatius
Ravalli
Arlee
Dixon
Perma
Paradise
Camas Prairie
FLATHEAD
INDIAN
RESERVATION
FLATHEAD NATIONAL FOREST
Condon
Seeley Lake
Big Salmon Lake
Missoula
Milltown
Frenchtown
Alberton
Clinton
Bearmouth
Drummond
Florence
Stevensville
Victor
Corvallis
Hamilton
Grantsdale
Darby
BITTERROOT
Philipsburg
Anaconda
Georgetown
Southern Cross
Deer Lodge
Garrison
Avon
Elliston
Lincoln
Ovando
Greenough
Helmville
Garnet
Helena
E. Helena
Marysville
Canyon Creek
Wolf Creek
Boulder
Basin
Walkerville
Opportunity
Townsend
White Sulphur Sprs.
LEWIS AND CLARK
HELENA
LOLO
DEERLODGE
NATIONAL FOREST
BROADWATER
JEFFERSON
CONTINENTAL DIVIDE
Canyon Ferry
Rimini
Toston

Great Falls
Missoula
Helena
E. Helena
Deer Lodge
Philipsburg
Hamilton
Anaconda
Walkerville
Butte
Boulder
Townsend
Belgrade
Bozeman
Salmon
Dillon
Virginia City
White Sulphur Sprs.
#1
#2
#3
MAP

CERTIFICATE OF AIRCRAFT REGISTRATION

must be in the aircraft when operated.

NATIONALITY AND REGISTRATION MARKS N 85092

AIRCRAFT SERIAL NO 3381

MANUFACTURER AND MANUFACTURER'S DESIGNATION OF AIRCRAFT

BELL 47G-3B1

ISSUED TO

ALPINE HELICOPTERS, INC.
7655 SOUTH 133RD STREET
SEATTLE, WASHINGTON 98178

This certificate is issued for registration purposes only and is not a certificate of title. The Federal Aviation Agency does not determine rights of ownership as between private persons.

It is certified that the above described aircraft has been entered on the register of the Federal Aviation Agency, United States of America, in accordance with the Convention on International Civil Aviation dated December 7, 1944, and with the Federal Aviation Act of 1958, and regulations issued thereunder.

DATE OF ISSUE

June 27, 1965

William F. McLee

Administrator, Federal Aviation Agency

DURATION - See reverse side.

FEDERAL AVIATION AGENCY · UNITED STATES OF AMERICA

FAA Form 8050-3 (1-66) SUPERSEDES FAA FORM 500

UNITED STATES OF AMERICA

DEPARTMENT OF TRANSPORTATION — FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF AIRCRAFT REGISTRATION

This certificate must be in the aircraft when operated.

NATIONALITY AND REGISTRATION MARKS N 1182W

AIRCRAFT SERIAL NO. 2949

MANUFACTURER AND MANUFACTURER'S DESIGNATION OF AIRCRAFT

BELL 47G-3B-1

ISSUED TO

ALPINE HELICOPTERS INC
22430 CEDAR GROVE ROAD
MAPLE VALLEY WASH 98038

This certificate is issued for registration purposes only and is not a certificate of title. The Federal Aviation Administration does not determine rights of ownership as between private persons.

It is certified that the above described aircraft has been entered on the register of the Federal Aviation Administration, United States of America, in accordance with the Convention on International Civil Aviation dated December 7, 1944, and with the Federal Aviation Act of 1958, and regulations issued thereunder.

DATE OF ISSUE

JAN 04, 1968

William F. McLee

Administrator, Federal Aviation Administration

DURATION - See reverse side.

FAA Form 8050-3 (1-67)

ALPINE HELICOPTERS, INCORPORATED
22430 CEDAR GROVE ROAD • MAPLE VALLEY, WASHINGTON 98038 • PHONE (206) 432-0222

April 5, 1968

U. S. Geologiaal Survey
Bldg. 25, Federal Center
Denver, Colorado 80225

Attention: Procurement Unit 1619

Invitation No. 68-24

Gentlemen:

As requested in your telephone conversation on April 3, 1968, the following will furnish you with the information required on page 7, part 1, of the above bid.

a. We maintain shop facilities for the complete overhaul of helicopters, enabling us to supply necessary spare parts at any operation site. These facilities are located at the Cedar Grove Airpark, at the above address.

b. Our fiscal year ends February 28. We are in the process of preparing our financial statement for this past year. We will forward a copy as soon as it is completed.

c. U.S.G.S. Contract No. 14-08-0001-10582; 1967; Glacier, Wash. (sub-contracted under Provo Flying Service)
U.S.G.S. Contract No. GS-10S-21419; 1967; Washington Snow Survey. (Parts I & IV)
U.S.Forest Service Blanket Purchase Agreement #28;1966, 1967,1968.

d. Enclosed copies of FAA Certificates of Aircraft Registration.

e. Cedar Grove Airpark at above address.

f. 1966; 47G3B-1 helicopter accident; Missoula, Mont. area; three men sustained second-degree burns; during contract with a mining company.

Please notify us if further information is required.

Yours truly,

ALPINE HELICOPTERS, INC.

Karl J. Spee

Karl J. Spee

P.S. Pilot Information will follow.

(See Bureau of Federal Supply, Circular No. B—69)

PURCHASE ORDER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

This number must appear on all PACKAGES and PAPERS relating to this order.

Order No. 97645-68

4

Point of Issue: Denver, Colo

Date: April 24, 1968

Requisition No.: Mundine & Moore

Appropriation Symbol and Title:

ALLOTMENT: 3-8-301 027

To SELLER:
Alpine Helicopters Inc.
7655 South 133 th St.
Seattle, Washington 98178
Attn: Earl J. Spee, Pres.

Consignee and Destination — SHIP TO:
U. S. Geological Survey 97645-68
(as shown in contract)

Invitation No.	Contract No.	Time for Delivery	Discount Terms
68-24	14-08-0001-11152	as per contract	net

F. O. B. Point	Ship via	Government B/L No.
(as per contract)		

ITEM No.	ARTICLES OR SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	The following to be furnished in accordance with the specifications & conditions of attached contract No. 14-08-0001-11152				
1	Furnish one helicopter, one qualified pilot & one mechanic, with field maintenance equipment and parts for the exclusive use of the United States Government in Northwestern Montana, in the area outlined on the attached map labeled Item 1, Map 1, for the period July 10, 1968 through September 2, 1968 (55 Calendar days, extendible for an additional 10 calendar days). The Government guarantees a minimum of 77 flying hours. MAXIMUM	91	flying hour	160.00	14,560.00
	Your equipment & personnel at your expense shall report ready for operations at 8:00 A.M. July 10, 1968 at West Glacier, Montana				
2	Furnish one helicopter, one qualified pilot & one mechanic with field maintenance equipment and parts for the exclusive use of the United States Government in Southwestern Montana, in the areas outlined on the attached Map 2 labeled Items 1, 2, &3 for the period July 10, 1968 through August 30, 1968 (52 Calendar days, extendible for an additional 10 calendar days) The Government guarantees a minimum of 73 flying hours MAXIMUM	87	flying hour	160.00	13,920.00
	Your equipment & personnel at your expense shall report ready for operations at 8:00 A.M. July 10, 1968 at Lima, Montana				

Account Emp. _____ Deliver to _____

TOTAL 28,480.00

Signature:
Name:
Title: J. L. RAMSEY, MANAGEMENT OFFICER

DIVISION COPY

9-1134

U.S. GOVERNMENT PRINTING OFFICE: 1966—234-549

April 24, 1968

Alpine Helicopters, Inc.
7655 So. 135th St.
Seattle, Washington 98178

Attention: Karl J. Spee, President

Gentlemen:

You are hereby awarded Contract No. 14-08-0001-11152, a copy of which is enclosed, based on your offer submitted in response to U. S. Geological Survey Solicitation No. 68-24, for furnishing Items 1 and 2, as follows:

Item 1 consists of one helicopter with pilot and maintenance crew at the rate of $160.00 per flying hour for the exclusive use of the Government in the area of Northwestern Montana, as outlined in the contract beginning 8:00 a.m., July 10, 1968 at West Glacier, Montana. A minimum of 77 flying hours is guaranteed. Maximum flying hours that can be paid is 91.

Item 2 consists of one helicopter with pilot and maintenance crew at the rate of $160.00 per flying hour for the exclusive use of the Government in the area of Southwestern Montana, as outlined in the contract beginning 8:00 a.m. July 10, 1968 at Lima, Montana. A minimum of 73 hours is guaranteed. Maximum flying hours that can be paid is 87.

As required by Paragraph 3, Page 7 of the contract, enclosed is SF-25, Performance Bond, for execution by you and an acceptable surety company in the amount of $14,240.00. Please forward the properly executed performance bond promptly to this office to support this contract.

Please furnish the information required by Paragraphs 13 and 14 of the contract, on the pilots and mechanics you will use in performance of this contract. After this information has been received, you will be advised if the pilot demonstration test provided for by Paragraph 13 is desired.

Mr. Roland H. Moore, Rocky Mountain Region Engineer, Geological Survey, Denver Federal Center, Denver, Colorado, telephone 233-3611, Extension 8548, is hereby designated to serve as my authorized representative in

connection with the operations under this contract, with authority to deal directly with the contractor or the contractor's authorized representative in all matters except those having to do with changes in or modifications to the specifications and conditions of the contract and determination of disputes. No other person, with the exception of myself or any Geological Survey employee designated by Mr. Moore, will have authority to contact the contractor regarding the work covered by this contract.

Non-discrimination Posters and SF's 33 are enclosed with instructions for their use.

Attached is our Purchase Order No. 97643-63.

Sincerely yours,

J. L. Ramsey
Management Officer
Rocky Mountain Region

Enclosures

FLGaber:mja

IN REPLY REFER TO:

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

April 24, 1968

Memorandum

To: R. H. Moore, Rocky Mountain Region Engineer, Topographic Division

From: Management Officer, Rocky Mountain Region

Subject: Contract No. 14-08-0001-11152, Solicitation No. 68-24, Alpine Helicopters, Inc.

You are hereby designated to serve as my authorized representative in connection with the operations under subject contract, with authority to deal directly with the contractor or the contractor's authorized representative in all matters except those having to do with changes in or modifications to, the specifications and conditions of the contract, and determination of disputes. No other person, with the exception of myself or any Geological Survey employee designated by you, will have authority to contact the contractor or the contractor's authorized representative regarding the work covered by subject contract.

You will furnish to the contractor in writing the name(s) of the Geological Survey employee(s) who will serve as your authorized representative(s) in the field operations, sending a copy of your letter to this office and to the Topographic Division file, Washington, D. C.

Your attention is called to Clause 2 "CHANGES", Standard Form 32 "GENERAL PROVISIONS" of the contract which is self-explanatory and in addition, no oral statement of any person shall be allowed in any manner or degree to modify or otherwise affect the terms, conditions and specifications of this contract. If, in your opinion, it becomes necessary to make changes within the general scope of the contract, you are authorized only to recommend such changes in writing to the Contracting Officer with justification for same. If the Contracting Officer concurs in your recommendation, the contract will be formally modified and copies of the modification will be furnished all interested parties. If the Contracting Officer does not concur you will be so notified.

In the event of a dispute with the contractor you shall furnish a complete report immediately to the Contracting Officer for consideration and necessary action.

Please send a copy of all Receiving Reports on this contract to Purchasing Unit, Room 1619, Bldg. 25, Federal Center, Denver, Colorado 80225.

J. L. Ramsey

J. L. Ramsey

Please address envelope

Director, GS

FILE COPY
Surname

A-68-2195.3192

Bliss
Long
Williams

3/8

Mr. W. B. Hall
Vice President
Vitro Corporation of America
90 Park Avenue
New York, New York 10016

APR 18 1968

Dear Mr. Hall:

This is in answer to your letter of April 4, 1968, in which you propose substituting your wholly owned subsidiary, Vitro Minerals Corporation, for your operating division, Vitro Minerals and Chemical Company, as the applicant for participation by the Office of Minerals Exploration in your proposed Ice Lake gold and silver exploration project in Colorado (OME-6689).

We have no objection to this substitution. However, to effect the substitution the following steps should be taken:

1. Submit a new application (MME Form 40) in the name of "Vitro Minerals Corporation, a wholly owned subsidiary of Vitro Corporation of America." All information required in support of the application should be submitted, including the latest financial statement of Vitro Minerals Corporation. This will be treated as an entirely new application. Technical and other information which would not be affected by the substitution need not be resubmitted.

2. Submit a notarized document assigning all leases and option agreements which pertain to the land covered by the proposed project to Vitro Minerals Corporation. All leases and other documents conferring rights in land should be carefully identified in the assignment as to land affected, date, parties, and recording data. This document should also assign all

documents now in the hands of OME pertaining to the original application of Vitro Corporation of America to Vitro Minerals Corporation. (The new application should incorporate these documents by reference to this assignment.)

3. Secure and submit a performance bond for the completion of the work proposed in the application and for the repayment of the Government's financial participation as described in the contract.

In evaluating the application of Vitro Minerals Corporation for an OME contract, the financial eligibility of both the applicant and its parent, Vitro Corporation of America, will be considered.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

RBliss:hm:jfg:4-16-68

cc: Director, GS
Div. file
Economic Geology file
OME file
OME rdg file
Mr. Kirkemo
Mr. Johnson
Mr. R. Bliss, SOL

Vitro CORPORATION OF AMERICA

90 PARK AVENUE · NEW YORK, N.Y. 10016 · MURRAY HILL 2-5700

April 4, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
APR 5 1968
INITIALS | CODE
| 130
Gal | 120
| 110
| 120

OFFICE OF THE VICE-PRESIDENT

Hand Carried

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D. C. 20025

Dear Mr. Johnson:

Re: OME-6689
(Gold and Silver)
Vitro Corporation of America
Ice Lake Project
San Juan and San Miguel Counties
Colorado

Vitro Corporation of America proposes to transfer all of its exploration and mining activities, including the Ice Lake Project, which is the subject of the referenced application, to its wholly owned subsidiary, Vitro Minerals Corporation, subject to the assumption by the subsidiary of all related obligations and liabilities. This change is proposed for organizational reasons to increase the effectiveness of these operations. Since 1954, Vitro Minerals Corporation has been engaged in exploration and/or mining activities, and is currently engaged in coal mining in Alaska. It is believed that the consolidation of all exploration and mining activities in this one organization should promote efficiencies and increase the effectiveness of these operations.

The personnel directing the operations would be the same, as will be seen from the following tabulation:

	Position in Vitro Corporation of America	Position in Vitro Minerals Corp.
Frank B. Jewett, Jr.	President	Chairman of Board
William B. Hall	Vice President and President of Vitro Minerals & Chemical Company Division	President
Eugene B. Hotchkiss	Vice President-Exploration of Vitro Minerals & Chemical Company Division	Executive Vice President
Cecil H. Smith	Exploration Manager of Vitro Minerals & Chemical Company Division	Exploration Manager

The geologic staff of three experienced geologists, the equipment, maps, data, records, etc., relating to all past and current exploration activities will be transferred to Vitro Minerals Corporation.

It appears to us that all of the information furnished in support of the application of Vitro Corporation of America is applicable to an application by Vitro Minerals Corporation, its wholly owned subsidiary, and we would propose to submit an assignment of the application, prepared by our counsel, or on a form which you might deem suitable for such purpose. If you would prefer, we can execute a new application in the name of Vitro Minerals Corporation on MME Form 40 incorporating by reference the supporting material and information furnished with our application OME-6689 and would, of course, be willing to furnish any additional material you may require.

We shall proceed promptly upon the receipt of your advice.

Very truly yours,

VITRO CORPORATION OF AMERICA

W. B. Hall

W. B. Hall
Vice President

WBH:bn

3/28/68 6637 ~~Nelson~~ Telephone call from Mr. Hotchkiss Frank Johnson Hotchkiss Kirkpatrick

Ice Lake Project

Boyles Bros. most capable to do the job.
Lowest bid would determine price of contract regardless of
Questions could be handled by letter — Hotchkiss could visit us if he so wishes but not necessary to pursue the application.
(to wholly owned subsidiary)
Change of change in name of applicant would require new establishment of eligibility — financial — bank letter.

4/5/68 William H. Denne, Jr.
Hotchkiss
Bliss
Johnson
Kirkpatrick

MME FORM 6 REFERENCE SLIP

REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. 120M bal	3/15	JJ
2. 110		
3. 120	3/18	HK
4.		
5.		
FROM:		

FOR: Check items for action desired

____ Action ____ Reply for signature of _____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C. M56300-62

IN REPLY REFER TO:

A 68-2195.3192

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON, D.C. 20240

March 13, 1968

Memorandum

To: Assistant Chief, Office of Minerals Exploration

From: Assistant Solicitor, Oil and Gas and Minerals Exploration

Subject: OME-6689 (Gold and Silver) Vitro Corporation of America
(Vitro Minerals and Chemical Company)
Ice Lake Project
San Juan and San Miguel Counties, Colorado

On the basis of the information supplied in your memorandum of March 11, 1968, relating to the above-mentioned proposed exploration project, we have no objection to the completion of the processing of Vitro's application.

Please submit the draft contract for review when processing is complete.

Robert W. Long

Robert W. Long
Assistant Solicitor
Oil and Gas and Minerals Exploration

Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/11/68		120
	M Johnson	110
		220
		120M

March 11, 1968

Memorandum

To: Assistant Solicitor

From: Assistant Chief, Office of Minerals Exploration

Subject: OME-6689 (Gold and Silver)
Vitro Corporation of America
(Vitro Minerals and Chemical Company)
Ice Lake Project
San Juan and San Miguel Cointies, Colorado

The Vitro Corporation of America has furnished additional information to help establish its eligibility for financial assistance under the OME program. In response to our letter dated January 31, 1968, the Applicant replied by telephone on February 2 and by letter and memorandum dated February 6 as indicated by the attachments. (In file.)

These communications and the information submitted with the application indicate that:

1. The Applicant cannot obtain funds for the exploration from commercial sources on reasonable terms.

2. Funds on hand are adequate only for current and planned operations, including the Applicant's share of the proposed OME exploration project.

3. Contingent liabilities restrict its financial ability to undertake additional exploration work entirely on its own funds.

4. Further requests to banks for the desired funds would necessitate revealing security information on classified research and development contracts with the U. S. Government. Such disclosures would not provide additional information on the Applicant's financial situation, and probably would not reverse the banks' earlier decisions to deny the request for a loan.

Under the circumstances, we believe that the Applicant has complied with Section 229.6 (b) and (c) of the OME regulations, and has supplied information to qualify for financial assistance under the OME program.

If you are in accord with our interpretation of the facts pertaining to the financial eligibility of the Applicant, we will continue processing this application.

Harold Kirkemo (gla)

Harold Kirkemo

Enclosure-Docket

cc: Director's Reading File
Division File
Economic Geology File
OME docket
OME Reading File
Mr. Kirkemo

HKirkemo/gla 3-11-68

120

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

801 19th St., N.W.

12 February 1968

Memorandum

To: Harold Kirkemo, Assistant Chief
Office of Minerals Exploration

From: R. G. Luedke, Geologist R G Luedke

Subject: Docket OME-6689
Ice Lake Project area, Colorado
Vitro Corporation of America

This well prepared and elaborately documented application for exploration assistance displays research of pertinent and available geologic literature and a reasonable interpretation of both that and their preliminary geologic field studies. Their discussion of the geology and mineral deposits generally is good, particularly with respect to the Tertiary volcanic units -- host rocks (and exploration targets) of the mineral deposits. My few comments, therefore, pertain to those items that may assist OME with their investigation and evaluation of this application. Note also, a few pencil marks made on report pages.

Analogy has been drawn between the applicant's property and the larger and more famous of past- and present-producing properties in the Telluride-Sneffels area 5 to 10 miles north thus presumably alluding to this property's potential. No real comparison can be made between these two areas except for similarity of volcanic host rocks of the veins and the nearness of the areas to a major cauldron (Silverton) subsidence structure. The type and attitude of fractures and the fracture pattern in the Ice Lake area suggest a relationship more to the post-volcanic intrusive body southwest of the area (see Vitro plate I) rather than to the cauldron; this relationship may be a limiting factor on the magnitude and extent of the mineral deposits. This may also have some affect upon the mineralogy of the deposits. Contrary to the contracted mineralogical report, tetrahedrite is usually early in the paragenetic sequence and is likely to decrease in abundance with depth if it is even very prevalent in the present exposures; sphalerite and galena probably will increase in abundance with depth and any silver values will be carried in the galena. Gold values would be expected to be enticing but probably not sustaining. And, one volcanic unit being a more favorable host rock than another, in the Ice Lake area the Silverton Volcanic Group versus the San Juan Formation, probably can be discounted because both these units are rhyodacitic tuff breccias with similar characteristic.

(Copy to Field Officer, Region III, 2/13/68)

The Ice Lake Basin area is one which has had considerable but restricted prospecting and little producing activity, all of which may carry a subtle meaning. However, it is an area that warrants deep exploration. Drilling programs such as proposed by Vitro Corp. and perhaps ultimate deep drifting are the methods needed to properly explore this area. Is a statement concerning future intentions following drilling needed and/or required?

This drilling program needs a critical examination relative to costs, footage per day, total footage per hole, number of rigs (they call for three but perhaps two would be adequate) and size of crews, and overall methods; most critically, check the illustrations (figures 12 through 19) showing proposed drill holes. Sketches for drill holes 1, 6, 7, and 8 disregard dip of the vein. Also, the contact of the two volcanic units is not drawn at the presumed correct depth as projected on the basis of the contact in the basin -- it drastically fluctuates up-and-down, and no reason is given for the position in each. However, some of the positions selected are not too bad as I believe the San Juan-Silverton contact rises southward from the 12,400 altitude in the basin as much as 100 feet or more in the basin southwest of (behind) Vermillion and Fuller Peaks; this contact will be extremely difficult to pick in the drill cores.

With respect to drill holes 4-6 I fail to understand why they propose collaring above and northwest of the so-called Diamond Lake in the talus when essentially the same results could be obtained from a site more on the level (i~~s~~f some talus but requires a less elaborate drilling platform, etc.) behind or southwest of this lake (see maps). Are drill holes 2 and 8 necessary? Instead of proving out a possible ore structure, they appear to be testing sites which show mineral and were in part originally prospected because of ease of access. The site of drill hole 7 seems of no gain; I would suggest setting up on knoll (see fig. 8) and aim hole about east or a few degrees north of east at the supposed offset of the Lucy-Last Hope vein with the north and northeast fractures. And, for hole 8 why put the rig on the bench between 13,100-13,200 feet altitude and attempt to undercut (note fig. 19) the vein? This altitude will also be getting to helicopter operating limits slinging 500 pounds of equipment (contrary to what the contract companies claim -- in the summer of 1967 I had a supercharged Bell and with two passengers could not make 13,000 feet altitude). This drill rig could be set up lower in the basin on the slope about 12,900-13,000 southwest of vein about 350 feet or so; with the footage saved from that proposed on this and other holes they could drill two holes and fan them (north; N45-50E) thus exploring more of vein. As I stated earlier, this hole could also be eliminated from the program without impairing overall value -- getting close to west end of vein.

Copy to R-III

Vitro CORPORATION OF AMERICA

90 PARK AVENUE · NEW YORK, N.Y. 10016 · MURRAY HILL 2-5700

February 6, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
FEB 7 1968
INITIALS | CODE
| 130
bal | 120
FEJ | 110
HK | 130

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
U.S. Department of the Interior
Geological Survey
Washington 25, D.C.

Re: OME-6689 (Gold and Silver)
Vitro Corporation of America
(Vitro Minerals and Chemical Company)
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Dear Mr. Johnson:

I understand that Mr. Hotchkiss has already talked to you on the telephone with reference to your letter of January 31, 1968, requesting that we again approach our banks in the matter of borrowing to finance the Ice Lake exploration project.
Mr. R. T. Ruder, our Vice President - Finance, has taken this suggestion under advisement, and I am enclosing a copy of his inter-office memorandum which outlines the financial situation of the corporation which limits our ability to hypothecate our assets for a loan for exploration purposes.

Very truly yours,

VITRO CORPORATION OF AMERICA

William B. Hall
Vice President

WBH:EBH:mg

Enclosure
As above

Vitro CORPORATION of AMERICA

R-III

February 6, 1968

W. B. Hall — Vice President

R. T. Ruder — Vice President - Finance

USE OF COMPANY ASSETS AND CREDIT TO FINANCE EXPLORATION PROJECTS

I have reviewed the letter dated January 31, 1968, written by Mr. Frank E. Johnson, Chief, Office of Minerals Exploration, in which he suggests that we again approach our banks to request a loan based on a repayment period more common to a commercial business loan, and possibly offering our assets as collateral, in connection with the Ice Lake Exploration Project.

For your information, Vitro Corporation of America is already fully committed for the utilization of its maximum available credit to finance its systems engineering and research and development contracts, and technical services contracts for various Agencies of the United States Government. These projects comprise almost 90 per cent of the company's over-all business and, under the circumstances, we cannot jeopardize the company's future by diverting its available cash resources and credit to costly exploration projects. In addition, and I am sure you are well aware of the situation, the company still has a very significant contingent liability, which still further restricts its financial capabilities.

R. T. Ruder

R. T. Ruder

RTR:mv

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
2/20		110
		120
2/20	CAW	220

February 2, 1968

Memorandum

To: FILES

From: Chief, OME

Subject: OME-6689 (Gold and Silver)
Vitro Corporation of America
(Vitro Minerals and Chemical Company)
Ice Lake Project
San Juan and San Miguel Counties, Colorado

On February 2, 1968, Mr. Eugene B. Hotchkiss, Vice President, Vitro Minerals and Chemical Company, telephoned me regarding our letter to Vitro of January 31, 1968, on the subject of the applicant's financial eligibility for participation in the exploration program.

Mr. Hotchkiss informed me that current assets were required for Vitro's operations, and that available funds were committed to research and development projects, about 90 percent being with the U. S. Government. He further stated that to request loans from banking institutions on the basis of Vitro's financial statement would involve exposing details of commitments for R and D, much of which is for classified work. He said that the matter had been discussed with Mr. R. T. Ruder, Vice President, of Vitro, who felt that the company should not reveal information to the banks on its complex activities in highly confidential or classified projects. He added that Mr. Ruder would write a memorandum concerning this matter and furnish us with a copy.

I told him to write us a letter explaining the situation and enclose a copy of Mr. Ruder's memorandum.

cc: Director's reading file
Division file
Economic Geology file
OME file
OME reading file

Frank E. Johnson

Frank E. Johnson

FEJohnson/bih 2/20/68

OME Surname copy
1/29/68

120 Kirkemo
110
220
120M

Mr. W. B. Hall
Vice President
Vitro Corporation of America
90 Park Avenue
New York, New York 10016

JAN 31 1968

Re: OME-6689 (Gold and Silver)
Vitro Corporation of America
(Vitro Minerals and Chemical Company)
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Dear Mr. Hall:

We have reviewed the information regarding the financial status of the Vitro Corporation of America for the purpose of determining whether the corporation is eligible for assistance under the OME regulations. The Annual Report for 1966 for the Vitro Corporation indicates that total current assets well exceeded total current liabilities, and that there was a net income gain in 1966 as compared to a net loss in 1965. We also note that in your letters to the banks a 10-year repayment plan was offered. There was no mention of any collateral being offered.

We believe that a 10-year period would be considered a long term which lending institutions would be unlikely to favor for risk capital in an exploration venture, especially if the assets of the borrower are not offered for collateral. Regular commercial credit repayment periods of two to four or five years may be more favorably considered by the banks.

In order to help us determine your eligibility for the OME program, we suggest that you submit new letters to the banks requesting a loan for the purpose previously stated and with a repayment period more common to a commercial business loan, and perhaps submitting your latest financial statement for consideration by the bank.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

RECEIVED
JAN 30 1968
Division of Mineral Resources
General Land Office

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region III
Mr. Kirkemo

HKirkemo/gla 1-20-68

Copy to: Mr. Eugene B. Hotchkiss
Vice President
Vitro Minerals & Chemical Company
90 Park Avenue
New York, New York 10016

OME Docket Surname

1/25/68 120

110

220

120M

JAN 25 1968

Mr. Eugene B. Hotchkiss
Vice President
Vitro Minerals & Chemical Company
90 Park Avenue
New York, New York 10016

Re: OME-6689 (Gold and Silver)
Vitro Corporation of America
(Vitro Minerals and Chemical Company)
Ice Lake Project
San Juan and San Miguel Counties, Colorado

Dear Mr. Hotchkiss:

This is to express appreciation for your visit to our office yesterday and to acknowledge receipt of two copies of your application for financial assistance to explore the Ice Lake Project which you delivered.

I wish to correct a statement made to you regarding the position held by Dr. Olaf N. Rove when he was with the Geological Survey. He was not Chief Geologist as I stated, but was Assistant Chief Geologist prior to leaving the Survey and joining Union Carbide. Dr. Rove earlier had been Chief, Mineral Deposits Branch of the Survey. Dr. W. H. Bradley was Chief Geologist during this period.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Assistant Chief
Office of Minerals Exploration

cc: OME Reading File
OME docket
Mr. Kirkemo

HKirkemo/gla 1-25-68

January 24, 1968

Vitro Corporation of America
P. O. Box 15437
Salt Lake City, Utah 84115

Subject: OME-6689

Gentlemen:

Your application for exploration assistance, dated January 22, 1968, submitted to our office at Washington, D. C., has been assigned Docket No OME-6689.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E Johnson
Chief, Office of
Minerals Exploration

Copy to Region III with appln
and attachments

Earth Resources Company
Shelter & Substitutes
Lee Lake Project 1970

Employee	Sharps, T.I.	Ambarlantz, G.	Kriwock, A.	Rauber, G.	Haynes, L.	Elmer, K.	Sharps, S.	Wilson M.	Berry, M.	Crawford, J.	Sammon, E	Polk G.	Cole, WC	Craig, R	Hill, L	Garrett, P.B.
Company	Vitro	Vitro	Smith - Vitro	Smith	Smith	Smith	Smith	Vitro		Vitro	Vitro	Barod	Vitro	Smith	Barod	Vitro
6/30	X	X	X	X	X	X	X	X		—						
7/1	X	X	X	X	X	X	X	X		X						
7/2		X	X	X	X	X	X	X		X						
7/3		X	X	X	X	X	X	X		X						
7/4		X	X	X	X	X	X	X		X						
7/5		X	X	X	X	X	X	X		X						
7/6		X	X	X	X	X	X	X		X						
7/7		X	X	X	X	X	X	X		X						
Break																
7/13		X	X	X	X	X	X	X		X						
7/14		X	X	X	X	X	X	X		X						
7/15		X	X	X	X	X	X	X		X						
7/16		X	X	X	X	X	X	X		X						
7/17		—	X	X	X	X	X	X		X						
7/18		—	X	X	X	X	X	X		X						
7/19		X	X	X	X	X	X	X		X	X	X				
7/20		X	X	—	X	—	X	X		—	—	—				
7/21		X	X	—	X	—	X	X		—	—	—				
Break																
7/27	—	X	X	X	X	X	X	X		X	—	—				
7/28	X	X	X	X	X	X	X	X		X	—	—	X			
7/29	X	X	X	X	X	X	X	X		X	X	—				
7/30	X	X	X	X	X	X	X	X		X	X	—				
7/31	—	X	X	X	X	X	X	X		X	X	—		X		
8/1	—	X	X	X	X	X	X	X		X	X	—		—		
8/2	—	X	X	X	X	X	X	X		X	X	—		—		
8/3	—	X	X	X	X	X	X	X		—	—	—				
8/4	—	X	X	X	X	X	X	X		—	—	—				
Break																
8/10		X	X	X	X	X	X	X		—	—	—				
8/11	—	X	X	X	X	X	X	X		—	—	—				
8/12	—	X	X	X	X	X	X	X		—	—	—				
8/13	—	X	X	X	X	X	X	X		—	—	—				
8/14	—	X	X	X	X	X	X	X		—	X	X		X	X	
8/15		X	X	X	X	X	X	X		—	X	X		X	X	
8/16		X	X	X	X	X	X	X		—	X	X		X	X	
8/17		X	X	X	X	—	—	X		—	X	X		X	X	
8/18		X	X	X	X	—	—	X		—	X	X		X	X	
Break																
8/24		X	X	X	X	X	X	X		—	—					
8/25		X	X	X	X	X	X	X		—	—					
8/26		X	X	X	X	X	X	X		—	—					
8/27		X	X	X	X	X	X	X		—	X					
8/28		X	X	X	X	X	X	X		—	X					X
8/29		X	X	X	X	X	X	X		—	X					
8/30		X	X	X	X	X	X	X		—	X					
8/31		X	X	X	X	X	X	X		—	X					
Total Days		40	42	40	42	38	40	42		21	15	2	1	4	5	0

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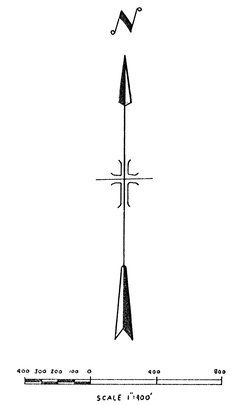
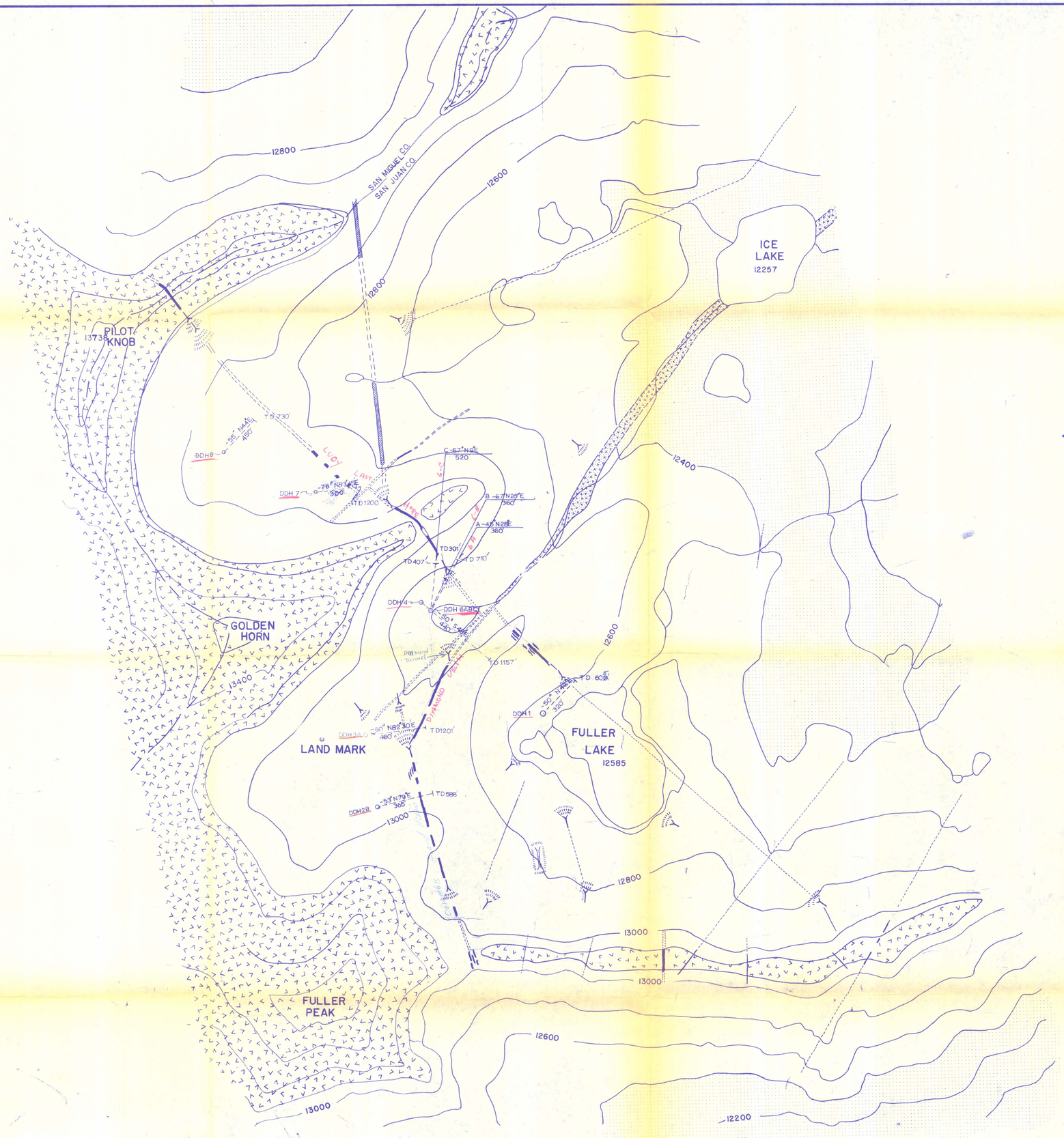
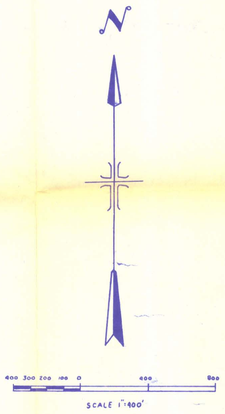


LEGEND AND EXPLANATION

- POTOSI VOLCANIC GROUP
- HORNBLENDE DELLENITE DIKE
- SILVERTON VOLCANIC GROUP
- SAN JUAN FORMATION

REMARKS	EARTH RESOURCES COMPANY	
	PROJECT ICE LAKE	DRAWING NO.
	LOCATION SAN JUAN CO. COLO.	SCALE: 1"= 400'
		DATE: NOV 17, 1969
	TITLE SURFACE TRACE MAP OF DIAMOND DRILL HOLES	ENG.: G.P. AMBARIANTZ
		APP.:

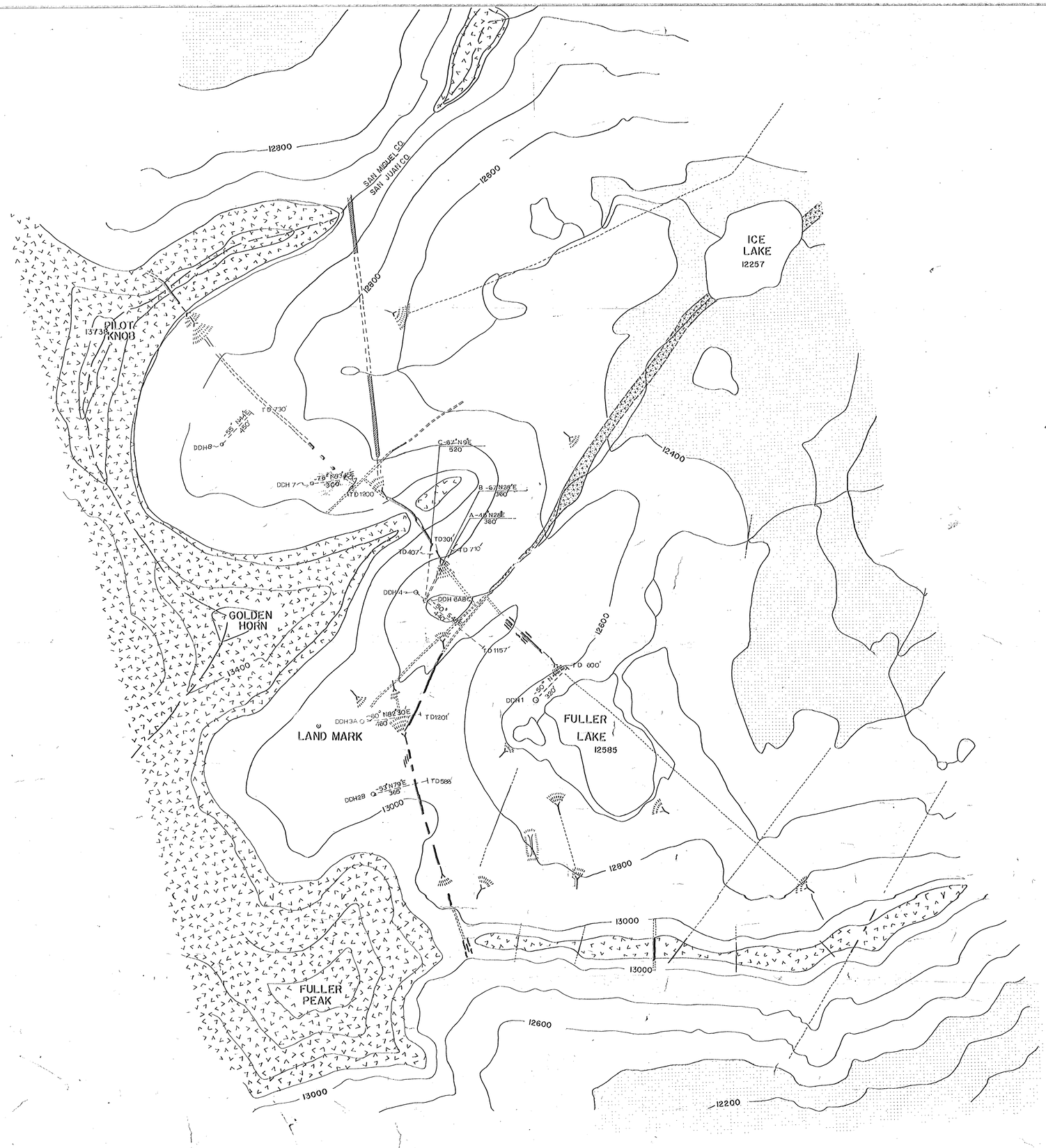


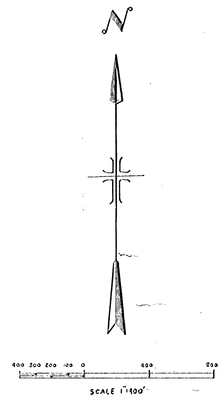


LEGEND AND EXPLANATION

- POTOSI VOLCANIC GROUP
- HORNBLENDE DELLENITE DIKE
- SILVERTON VOLCANIC GROUP
- SAN JUAN FORMATION

REMARKS	EARTH RESOURCES COMPANY	
	PROJECT: ICE LAKE	DRAWING NO.
	LOCATION: SAN JUAN CO. COLO.	SCALE: 1"= 400'
		DATE: OCT. 1, 1970
	TITLE: SURFACE TRACE MAP OF DIAMOND DRILL HOLES	ENG.: G.P. AMBARIANTZ
		APP.:





LEGEND AND EXPLANATION

- POTOSI VOLCANIC GROUP
- HORNBLENDE DELLENITE DIKE
- SILVERTON VOLCANIC GROUP
- SAN JUAN FORMATION

REMARKS	EARTH RESOURCES COMPANY	
	PROJECT: ICE LAKE	DRAWING NO.
	LOCATION: SAN JUAN CO. COLO.	SCALE: 1" = 400'
	TITLE: SURFACE TRACE MAP OF DIAMOND DRILL HOLES	DATE: OCT. 1, 1970
		ENG.: G.P. AMBARIANTZ
		APP.:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OPHIR QUADRANGLE
COLORADO
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 TELLURIDE 15' QUADRANGLE

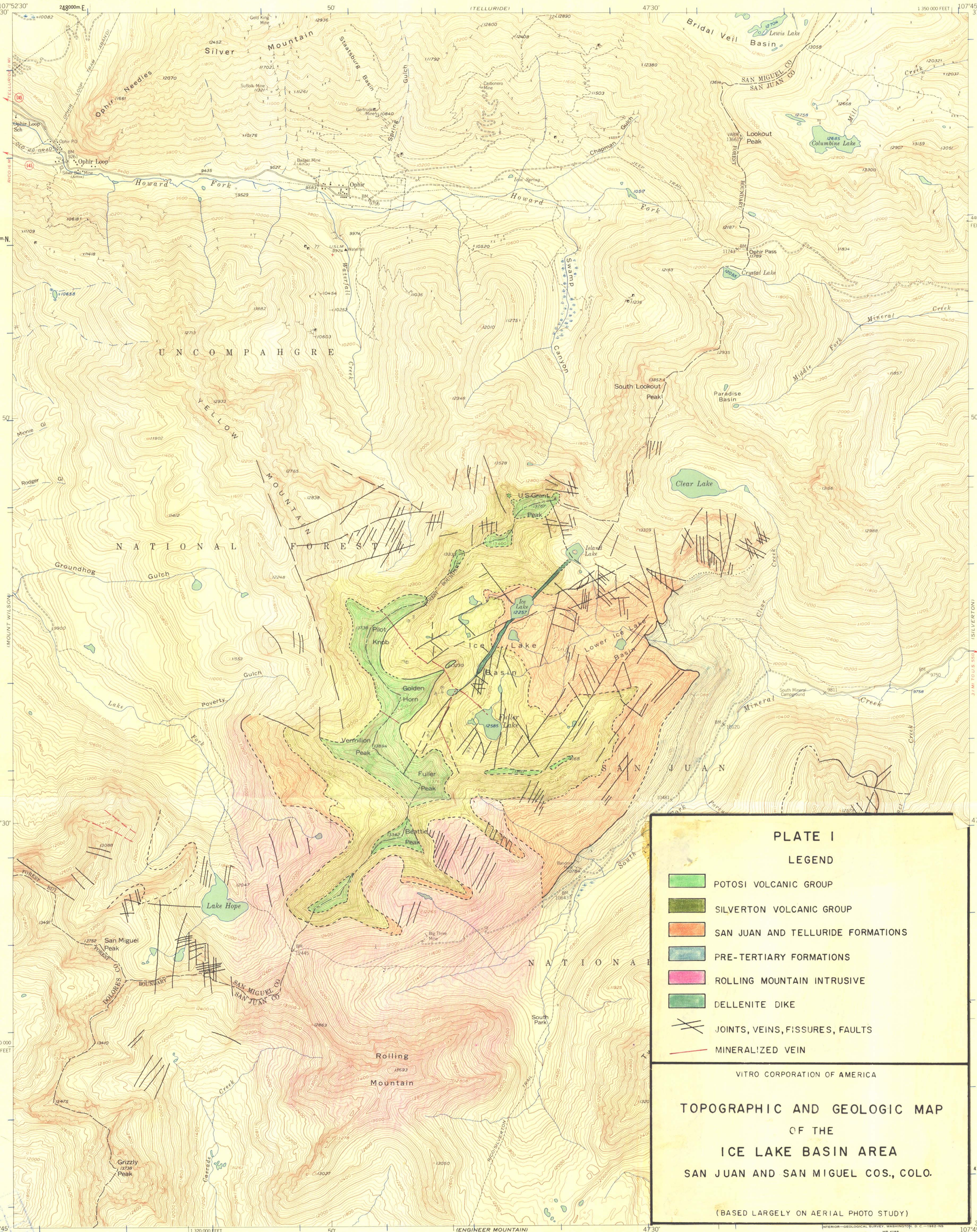


PLATE I

LEGEND

- POTOSI VOLCANIC GROUP
- SILVERTON VOLCANIC GROUP
- SAN JUAN AND TELLURIDE FORMATIONS
- PRE-TERTIARY FORMATIONS
- ROLLING MOUNTAIN INTRUSIVE
- DELLENITE DIKE
- JOINTS, VEINS, FISSURES, FAULTS
- MINERALIZED VEIN

VITRO CORPORATION OF AMERICA

TOPOGRAPHIC AND GEOLOGIC MAP OF THE ICE LAKE BASIN AREA

SAN JUAN AND SAN MIGUEL COS., COLO.

(BASED LARGELY ON AERIAL PHOTO STUDY)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1951. Field check 1955

Polyconic projection. 1927 North American datum
10,000-foot grid based on Colorado coordinate system, south zone

Land lines are omitted in T. 40 N., T. 41 N., and T. 42 N.-R. 8 W. and R. 9 W. because of insufficient data. All recovered corners are shown

All mining features on this map are inactive unless otherwise indicated

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue

TRUE NORTH
MAGNETIC NORTH
14°
APPROXIMATE MEAN DECLINATION, 1955

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

COLORADO
QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1962—N8
MR 4188

ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt - - - - -

State Route

OPHIR, COLO.
SE/4 TELLURIDE 15' QUADRANGLE
N3745—W10745/7.5

1955