UNITED STATES DEPARTMENT OF THE INTERIOR
Office of the Secretary

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DOCUMENT FACE SHEET

Voucher No. 2013-4

2193 Reg 1

6/25/65
(Date Prepared)

Prepared by BWB

Payee Vitro Minerals Corp.
600 West 33rd Street South
Salt Lake City, Utah 84115

Amount of invoice or voucher ..... $ 192.50

Deductions

Amount approved .....

Less travel advance applied or amount withheld

Net total being paid 192.50

Accrued Expenditure Register	
Account Debit	Amount
132.3	192.50
Credit	
Accounts Payable	192.50

Distribution of Total Cost

Appropriation	Amount	Acc't No.	Object Class	Accrued Expenditure Paid	Accrued Expenditure Reversed	Obligation Liquidated	Oblig. No.
14X0108	192.50	570	33	192.50		Cal 192.50	MM E 297

- FINAL -

Payment of additional amount not paid in accordance with Report of Review.

ORIGINAL COPY
O. M. E.
RECEIVED
JUN 29 1965
INITIALS CODE
1800

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of the Secretary
Accounting Section
Washington

JUNE 2, 1965

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: VITRO MINERALS CORPORATION
600 WEST 33RD STREET SOUTH
SALT LAKE CITY, UTAH 84115

Amount Claimed:	Differences (Explained Below)	Amount Approved
$15,105.64	$1,145.88	$13,959.76 (GOVT SHARES $6,979.88)
Bu. Voucher No.	Payee's Invoice No.	Period
1836 - 1	OME 6349 - CONT 2193	JULY 20, TO OCTOBER 30, 1964

EXPLANATION

	CLAIMED	APPROVED	DIFFERENCE
DRILLING	$7,395.18	$6,308.00	$1,087.18 *
INCEDENTIAL ALLOWANCE	462.21	468.51	6.30 CR **
ASSAYS	1,240.00	1,175.00	65.00 **
		TOTAL ~~DIFFERENCE~~	$1,145.88

* CONTRACT STATES ACTUAL COST FOR DRILLING. THE AMOUNT OF $6,308.00 REPRESENTS ACTUAL COSTS AS BILLED BY T A BEAVERS.

** SEE REPORT OF REVIEW DATED MAY 7, 1965

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

Suspension made by:

Signature

OPAL A SHELTON
CHIEF, ACCOUNTS BRANCH
Title

MME FORM 60
SEPT. 1959

RECEIVED
MAR 3 1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6349
Contract No. 14-23-090-2193
Contract Amount $ 93,740.00
Gov't. Participation % $ 46,870.00
Mineral(s) Gold-Silver

OPERATOR'S MONTHLY VOUCHER

For ~~Month of~~ July 20 - Oct. 30, 64

Operator's Name VITRO MINERALS CORPORATION
Address 600 West 33rd South, Salt Lake City, Utah 84115

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing 160.5 hours	2648.25		2,648.25			
Mobilization and Demob.	400.00		400.00			
Incidental Allowance	462.21		462.21			
Drilling 2,231 feet	7395.18		7,395.18			
740 soil samples	2960.00		2,960.00			
62 Assays (Au and Ag)	155.00		155.00			
434 drill samples (Au Ag)	1085.00		1,085.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants						
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
TOTALS	15105.64		15,105.64	13,959.76	-0-	13,959.76

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

Date February 25, 65 Payee VITRO MINERALS CORPORATION

Per Cecil H. Smith Title Exploration Manager

Cecil H. Smith

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

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

(INSTRUCTIONS ON REVERSE)

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

$ 6,979.88

Signature BLB
(Authorized Certifying Officer)

Date 6/2/65 Vou. No. 1036-1

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2193

Signature D.R. MacPherson Title Acting Field Officer, Reg. I Date MAR 1 0 1965

Approved by OME Executive Officer or Alternate:

Signature D.R. MacPherson Title Acting Field Officer, Reg. I Date MAR 1 0 1965

OPERATOR'S MONTHLY REPORT

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

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

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

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

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

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

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

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

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

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

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

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

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

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

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

MME FORM 61
SEPT. 1959

RECEIVED
MAR 3 1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For ~~Month of~~ July 20 - Oct. 30, 64 Docket No. OME 6349

Operator's Name VITRO MINERALS CORPORATION Contract No. 14-23-090- 2193

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts							
Winzes							
Other Underground							
Drilling, Core-Diamond							
Rotary	feet		2,231	$ 7,395.18	2231	2231	$ 6308.00 [1]
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous Travel				400.00	1 job	1 job	400.00
Incidental Allowance	feet		2,231	462.21	2231	2231	468.51
Roads and Trails	hours		79.5	1,311.75	79.5	79.5	1311.75
Stripping							
Trenching	hours		81.0	1,336.50	81.0	81.0	1336.50
Test Pitting							
Soil Sampling	each		740	2,960.00	740	740	2960.00
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases 434 drill samples at $2.50)				1,085.00			
Analytical Work 62 trench & tunnel assays at $2.50)				155.00			1175.00 [2]
TOTAL TO DATE (per MME Form 60)				15,105.64			$ 13,959.76

REMARKS

(Continue on back)

REMARKS
[1] Contract allows a maximum of $3.00 per ft for drilling. Invoice cost of drilling 2231 ft is $6,308.00 or $2.83/ft. is all that can be accepted for this item. Incidental allowance is claimed separately.
[2] Contract provides for assaying samples taken in OME trenches and drill holes.

(Continue on back) (over)

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

Date February 25, 1965 Operator VITRO MINERALS CORPORATION

Per Cecil H. Smith Title Exploration Manager

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

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

Signature [illegible]

Title Acting Field Officer, Reg. I
Government Representative

Date MAR 10 1965

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

The following samples for which assays are claimed were taken in old pits, road cuts, adits and are therefore deleted:

3014-3016 incl
2901-2906 "
2908-2924 "

Approved herewith

Drill hole sample assays 434
ONE trench " " 36
470 @ $2.50
or $1175.00

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

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

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

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

February 26, 1965

Mr. D. R. MacLaren
Acting Field Officer
United States Department of the Interior
Office of Minerals Exploration
South 157 Howard Street
Spokane, Washington 99204

Re: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and
Leased Properties
Fergus County, Montana
Contract 2193

MONTHLY NARRATIVE REPORT
July 20 - November 1, 1964

GEOLOGIC REPORT and
SUMMARY OF WORK PERFORMED

Vitro Minerals Corporation and the United States Government through the Office of Mineral Exploration, entered into a joint exploration program (Docket No. OME-6349) for gold-silver in the Judith Mountains, Fergus County, Montana, on July 20, 1964.

The total allowable cost was $93,740.00, of which the government's share was to be $46,870.00.

GEOLOGIC REPORT

Sedimentary rocks ranging in age from Cambrian to Cretaceous are exposed along the flanks of the Judith Mountains. These beds were intruded by a post-Cretaceous igneous series which domes the sediments. In general, the intrusive bodies are laccolithic in form, that is, they appear to have been forcibly injected along bedding planes in the sedimentary section, particularly the Mississippian-Madison limestone. However, the occurrence of numerous large xenoliths and roof pendants and the steep irregular contacts of the intrusive rocks, which locally cut across bedding planes, indicates large-scale magmatic stoping in some areas.

Numerous dikes and sills are found exposed in the sediments on the flanks of these igneous masses, and are undoubtedly related to them. These small intrusive masses appear to have more influence over the localization of the gold mineralization than the large centers.

The purpose of the project was to explore for gold-silver ore bodies occurring as replacement zones or bodies at or near the contact of the intrusive porphyry sills and the Madison limestone of Mississippian age.

The primary exploration screening tool was geochemical prospecting, using arsenic as an indicator element for the gold. Preliminary work by Vitro had indicated that arsenic was associated with the known mineralization and/or porphyry intrusives in the area.

SUMMARY

The work to be performed under the contract was broken into three stages to allow the least favorable ground to be eliminated as rapidly and cheaply as possible.

Stage I consisted of geochemical soil sampling and dozing of certain anomalous areas. The dozer trenches were geologically mapped and sampled for gold and silver. One thousand, four hundred and twenty-five soil samples were allowed; of these, 740 were authorized and collected. In addition, 1,950 samples were taken at Vitro's expense. These samples were taken at 100-foot intervals on lines 150 feet apart. One hundred and seventeen hours of Stage I dozing (D-7) were allowed; 81 hours were authorized in 12 trenches on geochemical anomalies. Thirty-seven samples were taken from these pits for assay.

Certain of the anomalous areas outlined in Stage I were recommended for Stage II drilling. Eight drill holes were authorized. These holes, all drilled by a rotary drill using 4 3/4" bits, totaled 2,231 feet, averaging approximately 275 feet deep. Site preparation and drill roads for this stage took 79.5 hours with a D-7 cat. Eighty-eight hours were allowed.

Samples were collected and prepared for assay at 5-foot intervals in the drill holes; 434 drill samples were assayed.

No Stage III work was authorized or performed.

Results

The Stage I geochemical work yielded interesting results. Strong arsenic anomalies of two different types were found on the Beta claims. One type was associated with the ore making (presumably) syenite porphyry-limestone contact; the other type was found in massive, apparently barren limestone, but in, or near stratigraphic horizons known to be mineralized in other parts of the district. Both types contained arsenic values as much as 20 times background, indicating a major concentration of arsenic.

Seven of these anomalies were drilled with very disappointing results. In no case did a drill hole assay approach ore grade. Almost every foot of every hole did contain some gold, but the average value would be a "trace," or according to the assayer, less than 0.002 oz/ton.

No immediate answer is at hand which explains the very poor results. The extremely widespread, very low-grade gold mineralization may be the result of extensive and intensive metasomatism accompanying the intrusion of the Judith Mountain stocks; however, a tentative explanation of the local arsenic concentrations is not available at present.

DETAILS - STAGE I

Soil Sampling

The original contract allowed 1,425 soil samples at $4.00 each. This price includes, grid layout, soil sampling, and analysis for arsenic. The samples were to be taken at the approximate points shown on Plates 1 and 2, as prepared by Mr. MacLaren.

Prior to approval of the contract, due to the lateness of the season, Vitro Minerals Corporation, at its own expense, soil sampled the area covered by Plate 1. None of the costs of the original work have been charged to the government. Results of this work are shown on Vitro's maps GE-1 and GE-2.

The 698 samples in the Kappa area, authorized on Plate 2, are shown on maps GE-5 and GE-6. Only those samples outlined in red have been charged to the government. The following six samples were lost or damaged in transit and were not analyzed: K 9 N, 25 E; K 16 N, 11 E; K 18 N, 13 E; K 2 S, 24 E; K 2 S, 19 E; and K 14 S, 19 E. Therefore, only 692 samples are reported and charged on these maps.

In a letter dated August 27, 1964, Mr. MacLaren gave authorization to take up to 60 samples on the Beta 4 and 6 claims. These samples were to check the northeastern extension of anomalies previously discovered by Vitro. The 48 samples collected and analyzed are shown, outlined in red, on map GE-1.

Vitro is charging 692 + 48, or 740 samples, to the government. All results are appended.

Trenching

In a letter dated August 27, 1964, Mr. MacLaren confirmed a provisional authorization to bulldoze 12 trenches on geochemical anomalies at the following approximate locations: (as shown on base maps GE-1 and GE-2 submitted with Mr. Smith's letter of July 31, 1964. Copies enclosed).

Submitted and Authorized Approximate Locations			Actual	
Pit 1	81,380 N	75,200 E	81,360 N	75,210 E
Pit 2	81,530 N	76,330 E	Not trenched (1)	
Pit 3	81,680 N	76,540 E	81,730 N	76,550 E
Pit 4	81,900 N	76,820 E	81,910 N	76,830 E
Pit 5	83,230 N	76,050 E	83,230 N	76,010 E

	Submitted and Authorized Approximate Location		Actual	
Pit 6	85,000 N	76,525 E	85,090 N	75,500 E (2)
Pit 7	85,860 N	76,150 E	85,860 N	76,190 E
Pit 8	86,000 N	76,660 E	86,010 N	76,620 E
Pit 9	86,280 N	76,750 E	86,280 N	76,730 E
Pit 10	86,360 N	76,070 E	86,380 N	76,080 E
Pit 11	86,720 N	77,000 E	86,690 N	77,020 E
Pit 12	87,340 N	77,460 E	87,230 N	77,490 (3)

*(1) Solid, massive limestone, impossible to dig.
(2) Moved slightly to avoid large timber.
(3) Moved to avoid large timber and massive limestone bluff.

All dozing was done with a D-7 cat. A maximum of 117 hours at $17.00 per hour was allowed. Vitro used 81 hours at $16.50.

These pits were all geologically mapped and sampled at intervals not closer than 10 feet. These local area maps accompany and show that with few exceptions, all of the rock sampled contained trace amounts of gold. Thirty-seven samples were collected and assayed from these pits, as shown below:

Pit No.	Map No.	No. of Samples
1	Insert A, Master #1	2
2	-	-
3	No sample	-
4	Insert B, Master #1	2
5	Insert C, Master #1 and #2	2
6	Insert D, Master #2	1
7	Insert E, Master #2	5
8	Insert E, Master #2	3
9	Insert E, Master #2	8
10	Insert E, Master #2	6
11	Insert F, Master #2	3
12	Insert F, Master #2	5
		37

STAGE II

In a letter dated August 27, 1964, Mr. MacLaren gave authorization to drill three holes on geochemical anomalies. These holes were to be drilled at the following approximate coordinates: (See Maps GE-1 and GE-2).

	Authorized Location		Actual Location	
B-1	81,370 N	75,170 E	81,385 N	75,140 E (1)
B-2	81,900 N	76,840 E	81,910 N	76,840 E
B-3	83,230 N	76,060 E	83,230 N	76,065 E
B-1A			81,350 N	75,210 E (2)

*(1) Abandoned at 50 feet for the following reasons: cavities causing complete loss of samples at 46-48 feet. No effort was made to cement at this point, as was done in cavities above, for these had reopened; the whole hole would have had to be cemented and this excessive cement would have diluted the samples so as to make them worthless. Also, this was our first hole, and it was hoped that the cavities represented a local condition.

A log of this hole is appended. However, the fragmentary, incomplete and adulterated samples were not assayed.

(2) This hole, offset from B-1, also encountered difficulties. On the first set-up, collared in the very hard, red, silicified limestone, movement developed on a bedding plane parting at the depth of 2 feet, due to the extremely heavy bit loads necessary. A slab of rock 3' x 9' in area was moving under the motion of the bit. This type of movement imposes severe stresses on the drill rig; therefore, the drill rig was moved approximately 5 feet, so as to be off of the slab. On drilling on the new set-up to a depth of 2½', it became apparent that at this point, the rock was harder than at the original point, and that a different type of bit (carbide inserts) would be required. The carbide bit had to be specially ordered and was not available until September 3rd.

Since the carbide bit was bigger (6 1/8" vs. 4 3/4") than our normal rock bit, the 2½' previously drilled on our second B-1A set-up had to be re-drilled.

In a letter dated September 15, 1964, Mr. MacLaren authorized three more holes to test other geochemical anomalies. These were: (See Map GE-2).

	Authorized Location		Actual Location	
B-4	85,950 N	76,215 E	85,985 N	76,630 E*
B-5	85,990 N	76,630 E	85,950 N	76,215 E*
B-6	86,430 N	76,055 E	86,430 N	76,055 E

*Note that the positions of B-4 and B-5 are reversed; this was done to simplify placement of the drill rig.

In a letter dated October 20, 1964, Mr. MacLaren confirmed a verbal authorization to drill two holes on the Mammoth group of claims at the points shown on our map, Insert G, Master #5, which accompanies this report. These holes are known as M-1 and M-2. Seventeen of the assayed samples shown were collected from the drill site roads, eight from the Mammoth tunnels. This gives a total of 25 non-drill hole samples from the Mammoth area.

The eight holes authorized required, for site preparation and drill roads, 79.5 hours with a D-7 tractor, at $16.50 per hour.

SUMMARY OF DRILLING

Eight holes were authorized by the acting field officer (B-1 and B-1A are counted as one hole).

Samples were collected and assayed at 5-foot intervals, except in a few cases, when no samples were recovered, or, when a mix-up occurred in collection or labeling.

Hole	Total Depth	No. Assays	Remarks
B-1	50'	none	*See above
B-1A	174' (1)	31	" "
B-2	260'	53	
B-3	215'	43	
B-4	287' (2)	56 (3)	
B-5	378'	77	
B-6	445'	89 (4)	
M-1	172'	35 (5)	
M-2	250' (6)	50	
TOTALS	2,231'	434	

(1) Original log incorrect. Cuttings stopped at 162.5'. Hole continued to 170'. Four feet of first two set-ups added.

(2) No cuttings last 2 feet.

(3) No samples 97½ - 105'.

(4) No sample 92½ - 97½'.

(5) See M-2 assay sheet for 170 - 172½ assay.

(6) Original log in error, hole bottomed at 250'.

SUMMARY
WORK AND COSTS

Item	Allowable Work		Actual Completed Work	
STAGE I				
Soil Sampling	1,425 samples @ $4.00 =	$ 5,700.00	740 samples @ $4.00 =	$ 2,960.00
D-7 Caterpillar Dozer	117 hrs. @ $17.00 =	2,000.00	81 hrs. @ $16.50 =	1,336.50
Assays	200 samples @ $2.50 =	500.00	62 samples @ $2.50 =	155.00
TOTAL STAGE I		$ 8,200.00		$ 4,451.50

OME-6459 (Gold-Silver)
Vitro Minerals Corporation

Item	Allowable Work		Actual Completed Work	
STAGE II				
D-7 Caterpillar Dozer	88 hrs. @ $17.00 =	$ 1,500.00	79.5 hrs. @ $16.50 =	$1,311.75
Mobilization and Demobilization of Drilling Equipment		400.00		400.00
Rotary Drilling	4,500' @ $3.00	$13,500.00	2,231' @ ($3.31/ft) Maximum allowable 2,231' @ $3.00/ft = ($6,693.00)	7,395.18
Incidental Allowance	4,500' @ $0.21/ft.	945.00	2,231' @ $0.21/ft =	462.21
Drill Sample Assays	600 samples @ $2.50	1,500.00	434 samples @ $2.50	1,085.00
TOTAL STAGE II		$17,845.00		$10,654.14
STAGE III				
D-7 Caterpillar Dozer	58 hrs. @ $17.00	$ 1,000.00		
Rotary Drilling	20,000' @ $3.00/ft.	60,000.00	(None)	
Incidental Allowance	20,000' @ $0.21/ft	4,200.00		
Drill Sample Assays	1,000 samples @ $2.50	2,500.00		
TOTAL STAGE III		$67,700.00		
TOTAL COST		$93,740.00		$15,105.64

Respectfully submitted,

VITRO MINERALS CORPORATION

Cecil H. Smith

CECIL H. SMITH
Exploration Manager

RECEIVED
Air Mail
MAR 3 1965
Cert Mail - R.R.R.
OME
Spec. Del.

CHS:bas

January 12, 1965

ROBERT TINDALL
Contractor
400 Park Avenue
Lewistown, Montana
Phone KE 8-9255

Bulldozing for Vitro Minerals Corporation
OME-6349
Stage I - Trenches

All work done with D-7 tractor at $16.50 per hour

Date	Hours	Location
August 3	6	Trench 1
August 4	7.5	Trench 1
August 5	7.5	Trench 4
August 11	2.5	Trench 3
August 12	8	Trench 5
August 21	6.5	Trench 6
August 22	7.5	Trench 7
August 23	5	Trench 8
August 25	7.5	Trench 9
August 26	8	Trench 10
August 27	4	Trench 10
September 16	4	Trench 11
September 16	4	Trench 12
September 17	3	Trench 12
TOTAL	81	

81 hours @ $16.50 = $1,336.50

Robert Tindall
ROBERT TINDALL
Contractor

VOUCHER - Rocky Mountain Geochemical Laboratory
for 740 OME Arsenic Soil Sample Determinations

VOUCHER - Robert Tindall
for 81 hours of Stage I trenching
for 79.5 hours of Stage II drill sites and roads

VOUCHER - T. A. Beavers
for Rotary drilling of 2,231 feet

VOUCHER - Union Assay Company
for 62 trench and underground assays (Au and Ag)
for 434 drill cutting assays (Au and Ag)

January 12, 1965

ROBERT TINDALL
Contractor
400 Park Avenue
Lewistown, Montana Phone KE 8-9255

Bulldozing for Vitro Minerals Corporation
OME-6349
Stage II - Drill Sites and Roads

All work done with D-7 tractor at $16.50 per hour

Date	Hours	Location
August 13	8	B-1 drill site and roads
August 14	8	B-1 and B-2 drill site and roads
August 17	6	B-2 drill site and roads
August 18	7	B-3 drill site and roads
September 11	2.5	B-4 drill site
September 14	8	B-5 and B-6 drill site and roads
September 15	8	B-6 drill site and road
September 24	8	M-1 and M-2 drill sites and roads
September 25	8	M-1 and M-2 drill sites and roads
September 28	8	M-1 and M-2 drill sites and roads
September 29	8	M-1 and M-2 drill sites and roads
TOTAL	79.5	

79.5 hours @ $16.50 = $1,311.75

Robert Tindall

ROBERT TINDALL
Contractor

INVOICE

ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

NORTHWEST DISTRICT OFFICE
P. O. Box 327
MISSOULA, MONTANA
Phone: 549-7254

In account with: Vitro Minerals Corporation
600 W. 33rd South Street
So. Salt Lake City, Utah

August 31, 1964

For analytical services:

Analytical Report Dated: August 19, 1964 for Mr. Smith

Heavy Metals: 27 determinations @ 75¢/each	$ 20.25	#16-
Arsenic: 27 determinations @ $1.00/each	27.00	
Charge	$ 47.25	$ 47.25

Analytical Report Dated: August 31, 1964 for Mr. Dickerson, III

Sample Preparation: 1015 soil @ 50¢/each	$ 507.50	#87
Arsenic: 1015 determinations @ $1.00/each	1015.00	
Charge	$1522.50	$1522.50

Total Due $1569.75

245 samples 87-01ME

Submitted 9-14-64

Terms are net 30 days after credit has been established. Checks should be made payable to Rocky Mountain Geochemical Laboratories, Northwest District Office, P. O. Box 327, Missoula, Montana

INVOICE

ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

NORTHWEST DISTRICT OFFICE
P. O. Box 327
MISSOULA, MONTANA
Phone: 549-7254

In account with: Vitro Minerals Corporation
600 W. 33rd So. Street
So. Salt Lake City, Utah

Sept. 30, 1964

Analytical Services for September, 1964:

Analytical Report Dated: Sept. 15, 1964 (Mr. Dickerson)
Sample Preparation: 300 soil @ 50¢/each.....$ 150.00
Arsenic: 300 determinations @ $1.00/each.....300.00
Charge.....$ 450.00 $ 450.00

Analytical Report Dated: Sept. 30, 1964 (Mr. Dickerson)
Sample Preparation: 406 soil @ 50¢/each.....$ 203.00
Arsenic: 406 determinations @ $1.00/each.....406.00
Charge.....$ 609.00 $ 609.00

Total Due.....$1059.00

495 samples #87-OME
177 samples 87

Paid 10-15-64

Terms are net 30 days after credit has been established. Checks should be made payable to Rocky Mountain Geochemical Laboratories, Northwest District Office, P. O. Box 327, Missoula, Montana

T. A. BEAVERS DRILLING
Box 1752
Casper, Wyoming

January 12, 1965

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

For drilling on your properties at Lewistown, Montana. OME-6349 costs only. Drilling at $18.00 per hour (normal). Supplies at cost.

Hole	Depth	Hours	Supplies
B-1	50'	14.0	4 rock bits 3 sacks cement
B-1A	174'	61.0 + 17.0 at $10	8 rock bits 1 button bit 5 gal. detergent 1 sack $CaCl_2$ 66 sacks cement 3 sacks gypsum 5 sacks zonolite
B-2	260'	30.5	8 rock bits
B-3	215'	38.5	7 rock bits
B-4	287'	48.5	5 rock bits 15 sacks gypsum 15 sacks cement 12 sacks zonolite
B-5	378'	25.5	5 rock bits
B-6	445'	59.5	7 rock bits 4 sacks cement 3 sacks gypsum 2 sacks zonolite
M-1	172'	23.5	2 rock bits
M-2	250'	40.0	4 rock bits
TOTALS	2,231'	341.0 hours @ $18.00 =	$6,138.00
		17.0 hours @ $10.00 =	170.00
		Total	$6,308.00

1 button bit @ $175.00	$ 175.00
50 rock bits @ $14.00	700.00
88 sacks cement @ $1.60	140.80
21 sacks gypsum @ $0.90	18.90
19 sacks zonolite @ $1.60	30.40
1 sack $CaCl_2$ @ $5.48	5.48
5 gal. detergent @ $3.32	16.60
TOTAL SUPPLY	$1,087.18

T. A. BEAVERS DRILLING
Box 1752
Casper, Wyoming

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

Mobilization-demobilization	$ 400.00
Drilling	6,308.00
Supplies	1,087.18
TOTAL DRILLING CHARGE	$7,795.18

T. A. Beavers

T. A. BEAVERS
Drilling Contractor

T. A. BEAVERS DRILLING
P. O. Box 1752
Casper, Wyoming

To: Vitro Minerals Corporation
P.O. Box 15437
Salt Lake City, Utah

Mr. Ben F. Dickerson

Gentlemen:

I would like to make the following bid for drilling on your properties near Lewistown, Montana.

$3.00 per foot for drilling 4-3/4" hole.

18.00 per hour for plug drilling. You furnish bits mud, lost circulating material and source of water.

35.00 per hour with hammer or down the hole percussion drill.

Fifty cents (50¢) per mile travel time from Casper to your properties and return, if work is done by the hour.

Yours truly,

T. A. BEAVERS DRILLING

T. A. Beavers

Vitro Minerals accepted Mr. Beavers' hourly rate of $18.00.

This is the only drilling contract, and is on a "best effort" basis.

UNION ASSAY OFFICE, INC.

P. O. BOX 1528
SALT LAKE CITY 10, UTAH

CHARGE TO Vitro Minerals Corporation
600 West 33rd So.
Salt Lake City, Utah

DATE Nov.10,1964

DATE		NAME	LOT NUMBER		
Nov.	10	2856 to 2860		12.50	
		2901 to 2906		15.00	
		2908 to 2924		42.50	
		3013 to 3016		10.00	
		3017 to 3021		12.50	
		3022 to 3046		62.50	
		B-1A 05 to 160-162.5		77.50	
		B-2 0-5 to 255-260		132.50	
		B-3 0-5 to 210-215		107.50	
		B-4 0-5 to 280-285		140.00	
		B-5 0-5 to 375-377.5		192.50	
		B-6 0-5 to 440-445		222.50	
		M-1 0-5 to 170-172.5		87.50	
		M-2 0-5 to 245-250		125.00	
					$1240.00

Trace Analysis

Geochemical Surveys

ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

P. O. Box 327
MISSOULA, MONTANA

Phone: 549-7254

ANALYTICAL REPORT

Date September 15, 1964

Client Mr. Ben F. Dickerson, III
Vitro Minerals Corporation
c/o B & B Motel
Lewistown, Montana

Report on 300 soil samples

Sample Data Sheet of

Submitted by Mr. Dickerson

Date August, 1964

Analysis Arsenic

Remarks All analyses by colorimetric methods.

cc: Vitro Minerals Corp., Salt Lake City, Utah
file

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ASSAY DATA

Rocky Mountain Geochemical Lab
for 740 arsenic soil samples

Union Assay Company
for 62 pit, trench and mine samples

Union Assay Company
for 434 drill cutting assays

DRILL LOGS

B-1 and B-1A
B-2
B-3
B-4
B-5
B-6
M-1
M-2

Sample No.	Arsenic
K5N 12E	35
K5N 13E	25
K5N 14E	25
K5N 15E	20
K5N 16E	15
K5N 17E	35
K5N 18E	15
K5N 19E	30
K5N 20E	25
K5N 21E	10
K5N 22E	20
K5N 23E	10
K5N 24E	30
K5N 25E	35
K5N 26E	40
K6N	30
K6N 11E	15
K6N 12E	30
K6N 13E	30
K6N 14E	25
K6N 15E	30
K6N 16E	30
K6N 17E	15
K6N 18E	10
K6N 19E	10

Sample No.	Arsenic
K6N 20E	15
K6N 21E	5
K6N 22E	5
K6N 23E	-5
K6N 24E	25
K6N 25E	25
K6N 26E	115
K6N 27E	40
K6N 28E	145
K7N	20
K7N 11E	30
K7N 12E	30
K7N 13E	10
K7N 14E	25
K7N 15E	20
K7N 16E	30
K7N 17E	15
K7N 18E	15
K7N 19E	15
K7N 20E	20
K7N 21E	40
K7N 22E	20
K7N 23E	20
K7N 24E	75
K7N 25E	90

Sample No.	Arsenic
K7N 26E	30
K7N 27E	75
K7N 28E	20
K8N	80
K8N 11E	20
K8N 12E	40
K8N 13E	15
K8N 14E	15
K8N 15E	30
K8N 16E	10
K8N 17E	15
K8N 18E	15
K8N 19E	25
K8N 20E	25
K8N 21E	50
K8N 22E	30
K8N 23E	80
K8N 24E	55
K8N 25E	30
K8N 26E	25
K8N 27E	20
K8N 28E	10
K9N	15
K9N 11E	20
K9N 12E	10

Sample No.	Arsenic
K9N 13E	30
K9N 14E	15
K9N 15E	20
K9N 16E	5
K9N 17E	15
K9N 18E	10
K9N 19E	20
K9N 20E	25
K9N 21E	20
K9N 22E	45
K9N 23E	30
K9N 24E	30
K9N 26E	15
K9N 27E	10
K9N 28E	15
K10N	75
K10N 11E	40
K10N 13E	20
K10N 14E	10
K10N 15E	15
K10N 16E	40
K10N 17E	30
K10N 18E	10
K10N 19E	60
K10N 20E	70

Sample No.	Arsenic
K10N 21E	40
K10N 22E	35
K10N 23E	35
K10N 24E	25
K10N 25E	25
K10N 26E	25
K11N	10
K11N 11E	60
K11N 12E	90
K11N 13E	10
K11N 14E	15
K11N 15E	25
K11N 16E	35
K11N 17E	15
K11N 18E	10
K11N 19E	25
K11N 20E	60
K11N 21E	55
K11N 22E	60
K11N 23E	40
K11N 24E	30
K11N 25E	10
K11N 26E	15
K12N	25
K12N 11E	25

Sample No.	Arsenic
K12N 12E	35
K12N 13E	20
K12N 14E	10
K12N 15E	10
K12N 16E	10
K12N 17E	25
K12N 18E	20
K12N 19E	10
K12N 20E	60
K12N 21E	35
K12N 22E	35
K12N 23E	20
K12N 24E	30
K12N 25E	15
K12N 26E	10
K13N	30
K13N 11E	25
K13N 12E	20
K13N 13E	25
K13N 14E	5
K13N 15E	5
K13N 16E	10
K13N 17E	15
K13N 18E	20
K13N 19E	5

Sample No.	Arsenic
K13N 20E	30
K13N 21E	20
K13N 22E	10
K13N 23E	20
K13N 24E	20
K13N 25E	15
K13N 26E	10
K14N	20
K14N 11E	10
K14N 12E	10
K14N 13E	10
K14N 14E	10
K14N 15E	5
K14N 16E	15
K14N 17E	10
K14N 18E	15
K14N 19E	20
K14N 20E	20
K14N 21E	10
K14N 22E	15
K14N 23E	20
K14N 24E	15
K14N 25E	10
K14N 26E	10
K15N	10

Sample No.	Arsenic
K15N 11E	15
K15N 12E	10
K15N 13E	15
K15N 14E	10
K15N 15E	15
K15N 16E	10
K15N 17E	5
K15N 18E	15
K15N 19E	15
K15N 20E	15
K15N 21E	10
K15N 22E	10
K15N 23E	15
K15N 24E	15
K15N 25E	5
K15N 26E	10
K16N	10
K16N 12E	15
K16N 13E	20
K16N 14E	30
K16N 15E	15
K16N 16E	15
K16N 17E	15
K16N 18E	5
K16N 19E	10

Sample No.	Arsenic
K16N 20E	15
K16N 21E	10
K16N 22E	10
K16N 23E	10
K16N 24E	10
K16N 25E	10
K16N 26E	10
K17N	10
K17N 11E	10
K17N 12E	25
K17N 13E	25
K17N 14E	20
K17N 15E	30
K17N 16E	15
K17N 17E	-5
K17N 18E	-5
K17N 19E	-5
K17N 20E	-5
K17N 21E	-5
K17N 22E	5
K17N 23E	-5
K17N 24E	5
K17N 25E	-5
K17N 26E	15
K18N	5

Sample No.	Arsenic
K18N 11E	15
K18N 12E	15
K18N 14E	<10
K18N 15E	25
K18N 16E	20
K18N 17E	25
K18N 18E	15
K18N 19E	10
K18N 20E	20
K18N 21E	10
K18N 22E	15
K18N 23E	10
K18N 24E	10
K18N 25E	15
K18N 26E	10
K19N	10
K19N 11E	20
K19N 12E	15
K19N 13E	30
K19N 14E	35
K19N 15E	50
K19N 16E	15
K19N 17E	10
K19N 18E	5
K19N 19E	5

Sample No.	Arsenic
K19N 20E	10
K19N 21E	5
K19N 22E	5
K19N 23E	10
K19N 24E	10
K19N 25E	10
K19N 26E	10
K20N	25
K20N 11E	5
K20N 12E	35
K20N 13E	25
K20N 14E	25
K20N 15E	60
K20N 16E	15
K20N 17E	15
K20N 18E	10
K20N 19E	5
K20N 20E	10
K20N 21E	5
K20N 22E	10
K20N 23E	10
K20N 24E	10
K20N 25E	15
K20N 26E	20
K21N	20

Sample No.	Arsenic
K21N 11E	5
K21N 12E	5
K21N 13E	20
K21N 14E	20
K21N 15E	75
K21N 16E	20
K21N 17E	10
K21N 18E	10
K21N 19E	5
K21N 20E	10
K21N 21E	20
K21N 22E	10
K21N 23E	20
K21N 24E	10
K21N 25E	15
K21N 26E	10
K9N 9E	15
K9N 10E	25
K10N 8E	15
K10N 9E	35
K10N 10E	100
K11N 8E	25
K11N 9E	35
K11N 10E	20
K19S 26E	200

Rocky Mountain Geochemical Laboratories
Missoula, Montana September 15, 1964

By James J. Johnson

Sample No.	Arsenic
HH	-5
II	5
JJ	25
KK	20
LL	45
MM	15
KON13E	15
KON14E	15
KON15E	15
KON 16E	10
KON 17E	25
KON 18E	20
KON 19E	15
KON 20E	15
KON 21E	30
KON 22E	35
KON 23E	25
KON 24E	5
KON 25E	5
KON 26E	5
K1S	10
K1S 12E	10
K1S 13E	10
K1S 14E	10
K1S 15E	25

Sample No.	Arsenic
K1S 16E	15
K1S 17E	10
K1S 18E	25
K1S 19E	25
K1S 20E	25
K1S 21E	30
K1S 22E	30
K1S 23E	10
K1S 24E	25
K1S 25E	15
K1S 26E	20
K2S	25
K2S 11E	10
K2S 12E	10
K2S 13E	5
K2S 14E	10
K2S 15E	10
K2S 16E	15
K2S 17E	10
K2S 18E	15
K2S 20E	25
K2S 21E	25
K2S 22E	30
K2S 23E	25
K2S 25E	25

Sample No.	Arsenic
K2S 26E	25
K3S	20
K3S 11E	10
K3S 12E	10
K3S 13E	10
K3S 14E	10
K3S 15E	10
K3S 16E	15
K3S 17E	10
K3S 18E	20
K3S 19E	25
K3S 20E	20
K3S 21E	15
K3S 22E	20
K3S 23E	15
K3S 24E	20
K3S 25E	15
K3S 26E	20
K4S	10
K4S 11E	10
K4S 12E	10
K4S 13E	10
K4S 14E	10
K4S 15E	15
K4S 16E	25

Sample No.	Arsenic
K4S 17E	20
K4S 18E	55
K4S 19E	30
K4S 20E	25
K4S 21E	20
K4S 22E	15
K4S 23E	15
K4S 24E	25
K4S 25E	20
K4S 26E	10
K5S	35
K5S 11E	10
K5S 12E	20
K5S 13E	15
K5S 14E	10
K5S 15E	15
K5S 16E	10
K5S 17E	20
K5S 18E	35
K5S 19E	15
K5S 20E	10
K5S 21E	15
K5S 22E	25
K5S 23E	35
K5S 24E	25

Sample No.	Arsenic
K5S 25E	50
K5S 26E	20
K6S	30
K6S 11E	15
K6S 12E	15
K6S 13E	15
K6S 14E	15
K6S 15E	20
K6S 16E	15
K6S 17E	30
K6S 18E	20
K6S 19E	15
K6S 20E	25
K6S 21E	45
K6S 22E	25
K6S 23E	25
K6S 24E	20
K6S 25E	20
K6S 26E	20
K7S	20
K7S 11E	25
K7S 12E	20
K7S 13E	20
K7S 14E	30
K7S 15E	15

Sample No.	Arsenic
K7S 16E	10
K7S 17E	15
K7S 18E	30
K7S 19E	15
K7S 20E	25
K7S 21E	20
K7S 22E	30
K7S 23E	30
K7S 24E	25
K7S 25E	35
K7S 26E	45
K8S	15
K8S 10E	30
K8S 11E	25
K8S 12E	20
K8S 13E	20
K8S 14E	20
K8S 15E	30
K8S 16E	30
K8S 17E	20
K8S 18E	115
K8S 19E	20
K8S 20E	45
K8S 21E	30
K8S 22E	20

Sample No.	Arsenic
K8S 23E	35
K8S 24E	30
K8S 25E	20
K8S 26E	5
K9S	25
K9S 11E	30
K9S 12E	20
K9S 13E	30
K9S 14E	20
K9S 15E	25
K9S 16E	50
K9S 17E	35
K9S 18E	50
K9S 19E	20
K9S 20E	15
K9S 21E	20
K9S 22E	25
K9S 23E	40
K9S 24E	35
K9S 25E	35
K9S 26E	35
K10S	75
K10S 11E	15
K10S 12E	5
K10S 13E	10

Sample No.	Arsenic
K10S 14E	25
K10S 15E	30
K10S 16E	40
K10S 17E	15
K10S 18E	15
K10S 19E	10
K10S 20E	10
K10S 21E	5
K10S 22E	80
K10S 23E	15
K10S 24E	70
K10S 25E	30
K10S 26E	10
K11S	5
K11S 11E	5
K11S 12E	10
K11S 13E	15
K11S 14E	25
K11S 15E	25
K11S 16E	30
K11S 17E	15
K11S 18E	30
K11S 19E	60
K11S 20E	30
K11S 21E	20

Sample No.	Arsenic
K11S 22E	25
K11S 23E	20
K11S 24E	65
K11S 25E	65
K11S 26E	30
K12S	70
K12S 11E	30
K12S 12E	20
K12S 13E	40
K12S 14E	45
K12S 15E	35
K12S 16E	35
K12S 17E	15
K12S 18E	20
K12S 19E	20
K12S 20E	40
K12S 21E	20
K12S 22E	30
K12S 23E	30
K12S 24E	25
K12S 25E	90
K12S 26E	70
K13S	165
K13S 11E	155
K13S 12E	35

Sample No.	Arsenic
K13S 13E	35
K13S 14E	35
K13S 15E	15
K13S 16E	30
K13S 17E	70
K13S 18E	15
K13S 19E	25
K13S 20E	35
K13S 21E	35
K13S 22E	35
K13S 23E	35
K13S 24E	35
K13S 25E	50
K13S 26E	50
K14S	35
K14S 11E	70
K14S 12E	40
K14S 13E	25
K14S 14E	30
K14S 15E	70
K14S 16E	30
K14S 17E	35
K14S 18E	20
K14S 20E	15
K14S 21E	25

Sample No.	Arsenic
K14S 22E	25
K14S 23E	40
K14S 24E	30
K14S 25E	30
K14S 26E	40
K15S	35
K15S 8E	50
K15S 9E	40
K15S 10E	15
K15S 11E	10
K15S 12E	35
K15S 13E	25
K15S 14E	20
K15S 15E	20
K15S 16E	20
K15S 17E	20
K15S 18E	20
K15S 19E	10
K15S 20E	20
K15S 21E	30
K15S 22E	20
K15S 23E	25
K15S 24E	40
K15S 25E	30
K15S 26E	45

Sample No.	Arsenic
K15S 27E	65
K15S 28E	45
K16S	35
K16S 11E	40
K16S 12E	30
K16S 13E	10
K16S 14E	60
K16S 15E	35
K16S 16E	30
K16S 17E	115
K16S 18E	270
K16S 19E	15
K16S 20E	90
K16S 21E	65
K16S 22E	35
K16S 23E	15
K16S 24E	25
K16S 25E	15
K16S 26E	25
K17S	45
K17S 11E	65
K17S 12E	35
K17S 13E	55
K17S 14E	35
K17S 15E	130

Sample No.	Arsenic
K17S 16E	90
K17S 17E	155
K17S 18E	70
K17S 19E	130
K17S 20E	55
K17S 21E	25
K17S 22E	25
K17S 23E	25
K17S 24E	20
K17S 25E	25
K17S 26E	45
K18S	30
K18S 11E	25
K18S 12E	35
K18S 13E	20
K18S 14E	115
K18S 15E	50
K18S 16E	50
K18S 17E	35
K18S 18E	30
K18S 19E	15
K18S 20E	30
K18S 21E	30
K18S 22E	20
K18S 23E	30

Sample No.	Arsenic
K18S 24E	20
K18S 25E	25
K18S 26E	65
K19S	220
K19S 11E	35
K19S 12E	95
K19S 13E	75
K19S 14E	60
K19S 15E	55
K19S 16E	140
K19S 17E	40
K19S 18E	25
K19S 19E	20
K19S 20E	5
K19S 21E	15
K19S 22E	15
K19S 23E	20
K19S 24E	180
K19S 25E	70
K20S	35
K20S 11E	35
K20S 12E	35
K20S 13E	70
K20S 14E	80
K20S 15E	+1000

Sample No.	Arsenic
K20S 16E	70
K20S 17E	35
K20S 18E	15
K20S 19E	5
K20S 20E	20
K20S 21E	35
K20S 22E	40
K20S 23E	100
K20S 24E	150
K20S 25E	190
K20S 26E	45
K21S	30
K21S 11E	25
K21S 12E	65
K21S 13E	150
K21S 14E	140
K21S 15E	80
K21S 16E	50
K21S 17E	90
K21S 18E	185
K21S 19E	125
K21S 20E	115
K21S 21E	800
K21S 22E	35
K21S 23E	30

Sample No.	Arsenic
K21S 24E	35
K21S 25E	35
K21S 26E	20
K22S	15
K22S 11E	10
K22S 12E	30
K22S 13E	60
K22S 14E	65
K22S 15E	30
K22S 16E	30
K22S 17E	10
K22S 18E	20
K22S 19E	35
K22S 20E	40
K22S 21E	35
K22S 22E	15
K22S 23E	50
K22S 24E	65
K22S 25E	50
K22S 26E	75
K1N	20
K1N 11E	10
K1N 12E	10
K1N 13E	15
K1N 14E	25

Sample No.	Arsenic
K1N 15E	20
K1N 16E	15
K1N 17E	25
K1N 18E	25
K1N 19E	90
K1N 20E	15
K1N 21E	30
K1N 22E	20
K1N 23E	10
K1N 24E	10
K1N 25E	10
K1N 26E	15
K2N	15
K2N 11E	10
K2N 12E	10
K2N 13E	10
K2N 14E	5
K2N 15E	15
K2N 16E	15
K2N 17E	15
K2N 18E	95
K2N 19E	40
K2N 20E	40
K2N 21E	30
K2N 22E	15

Sample No.	Arsenic
K2N 23E	10
K2N 24E	10
K2N 25E	10
K2N 26E	15
K3N	25
K3N 11E	45
K3N 12E	55
K3N 13E	25
K3N 14E	20
K3N 15E	25
K3N 16E	30
K3N 17E	30
K3N 18E	15
K3N 19E	25
K3N 20E	80
K3N 21E	20
K3N 22E	10
K3N 23E	10
K3N 24E	15
K3N 25E	15
K3N 26E	15
K4N	20
K4N 11E	20
K4N 12E	35
K4N 13E	40

Sample No.	Arsenic
K4N 14E	30
K4N 15E	20
K4N 16E	50
K4N 17E	30
K4N 18E	20
K4N 19E	25
K4N 20E	25
K4N 21E	10
K4N 22E	20
K4N 23E	25
K4N 24E	20
K4N 25E	20
K4N 26E	30
K5N	35
K5N 11E	25

Rocky Mountain Geochemical Laboratories
Missoula, Montana August 31, 1964

By _____
James J. Johnson

Beta Area

Sample No.	Arsenic
5N 21E	60
5N 22E	160
5N 23E	80
5N 24E	105
5N 25E	30
5N 26E	40
5N 27E	25
5N 28E	15
6N 21E	130
6N 22E	120
6N 23E	100
6N 24E	50
6N 25E	35
6N 26E	60
6N 27E	50
6N 28E	15
7N 21E	45
7N 22E	40
7N 23E	85
7N 24E	55
7N 25E	30
7N 26E	150
7N 27E	25
7N 28E	10
8N 21E	40

Sample No.	Arsenic
8N 22E	25
8N 23E	25
8N 24E	35
8N 25E	70
8N 26E	25
8N 27E	160
8N 28E	45
9N 21E	25
9N 22E	25
9N 23E	20
9N 24E	20
9N 25E	25
9N 26E	20
9N 27E	35
9N 28E	125
~~10N 12E~~	~~15~~
10N 21E	45
10N 22E	30
10N 23E	25
10N 24E	160
10N 25E	60
10N 26E	35
10N 27E	25
10N 28E	40
~~55N 10E~~	~~110~~

Telephone 363-3302 Ho Sample Serial 28159-63

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah 84115

Sept. 21, 1964

RESULTS PER TON OF 2000 POUNDS

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
D 2856	Trace	0.1									
E 2857	0.005	None									
F 2858	Trace	None									
G 2859	Trace	None									
H 2860	Trace	None									

Trench at 43N 26E
Pit 12

Remarks Lewistown, Montana samples.

W. C. Wanlass

Charges $ 12.50

Telephone EMpire 3-3302

Hand Sample Serial 26382-26406

404

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corporation
600 West 3300 South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Ce
B 3022	Trace	None									
A 3023	0.005	None									
C 3024	Trace	None									
D 3025	Trace	None									
E 3026	0.005	None									
F 3027	0.005	None									
C 3028	0.005	None									
B 3029	0.005	None									
A 3030	0.005	None									
K 3031	0.005	None									
J 3032	0.005	None									
I 3033	Trace	None									
H 3034	0.005	None									
G 3035	0.005	None									
N 3036	0.010	None									
M 3037	0.005	None									
L 3038	0.053	None									
O 3039	0.010	None									
P 3040	0.005	None									
Q 3041	0.010	None									
R 3042	0.005	None									
S 3043	0.005	None									
T 3044	0.005	None									
U 3045	0.005	0.1									
V 3046	0.005	None									

Pit 11

Pit 10

Pit 7

Pit 8

Pit 9

Remarks Samples from Lewistown, Montana.

Charges $ 62.50

J. C. Wanlass

Telephone 363-3302

Land Sample Serial 24263-24270

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

August 21, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
C-1	0.005	None									
HA-1	0.025	0.8									
HA-2	0.255	5.5									
3017 OME	0.010	0.3	West wall of trench at drill site B-2						Pit 4		
3018 "	0.010	0.1	" " "		"	"	"	"			
3019 "	0.005	None	Floor of trench at drill site B-3						Pit 5		
3020 "	0.005	None	" " "		"	"	"	"			
3021 "	0.005	None	Trench at 85,100 N 75,500 E						Pit 6		

Remarks Samples from Lewistown, Montana.

Charges $ 22.50

Glen P. Williams

Telephone 363-3302

Sample Serial 22657-22662

ASSAY REPORT

ON ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

August 11, 1964

RESULTS PER TON OF 2000 POUNDS

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
#2852	0.005	None									
2853	0.005	None									
3013	0.205	None	—	Pit 1							
3014	0.330	None	—	old pit							
F 3015	0.070	None	—	Sample from Mammoth tunnel M-7							
E 3016	0.005	None	—	"	"	"	"	"	"		

Remarks

Charges $ 15.00

W. C. Wanlass

Telephone 363-3302

H-d Sample Serial 28547-28553

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

Sept. 23, 1964

RESULTS PER TON OF 2000 POUNDS

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cen
A 2901	0.020	None									
B 2902	0.345	None									
C 2903	0.025	0.1									
D 2904	0.110	0.1									
H 2905	0.020	None									
G 2906	0.010	1.0									
2907	0.005	None									

Mammoth underground

Remarks Lewistown, Montana samples.

Charges $ 17.50

Glen P. Williams

Telephone EMpire 3-3302

Land
Sample Serial 31114-39

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals
600 West 33rd South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 14, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cen
2908	0.010	None									
2909	0.005	None									
2910	0.005	None									
2911	0.005	None									
2912	0.465	None									
2913	0.030	None									
2914	0.010	None									
2915	Trace	None									
2916	0.015	None									
2917	0.005	None									
2918	0.005	None									
2919	Trace	None									
2920	Trace	None									
2921	Trace	None									
2922	Trace	None									
2923	Trace	None									
2924	Trace	None									
2925	Trace	None									
2926	Trace	None									
2927	0.005	None									
2928	Trace	None									
2929	0.005	None									
2930	0.012	None									
2931	Trace	None									
2932	Trace	None									
2933	Trace	None									

Mammoth Area at portal of M5

Remarks Lewistown, Montana samples.

Charges $ 65.00

W. C. Wanlass

HOLE B-1

ONE-6349
Vitro Minerals Corporation

From	To	
0.0'	24.0'	Limestone, bluish-brown, hard. Rusty limonitic fragments 5%. Scattered chert. Many small cavities and openings, especially at 9', 13.5', 16', and 18'. Poor samples.
24.0'	50.0'	Limestone, brown-gray, hard, some mottling. Numerous small vuggy openings. Large cavity 46 - 47'. No return at 50'. Samples poor, diluted with cement.
50.0'		Bottom

Hole B-1A

OME-6349
Vitro Minerals Corporation

From	To	
0	2.5'	Limestone, reddish, extremely hard, silicified. Some calcite blebs.
2.5'	7.5'	Limestone, reddish-black, hard. Mixture of above (15%) and black, hard cherty limestone.
7.5'	12.5'	Limestone, bluish-brown, hard. Rusty, limonitic fragments, 10%. Some black chert.
12.5'	20.0'	Limestone, brownish-gray, mottled, hard. Some rusty calcite.
20.0'	50.0'	Limestone, light gray, hard. Some tan chips. Rare calcite, cavity at 30.0'.
50.0'	162.5'	Limestone, brownish-gray, mottled, hard. Less than 10% calcite and rusty alteration.
162.5'	170.0'	Bottom. Cavities. No samples.

Note: Cavities also at:

95.0-97.5'
102.5-105.0'
105.0-107.5'
110.0-112.5'
115.0-117.5'
132.5-135.0'
137.5-140.0'
162.5-165.0'

Telephone EMpire 3-3302

Hand
Sample Serial 28116-31

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals
600 West 33rd South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 21, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-1A											
0-5	0.048	0.2									
5-10	0.025	None									
10-15	0.015	0.2									
15-20	0.010	None									
20-25	0.010	None									
25-30	0.010	0.3									
30-35	0.005	0.1									
35-40	0.005	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	0.005	None									
55-60	0.005	None									
60-62½	Trace	None									
62½-72½	0.005	None									
72½-75	0.005	None									
75-80	Trace	None									

Remarks Lewistown, Montana samples.

Charges $ 40.00

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 28132-46

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals
600 West 33rd South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 21, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-1A											
80-85	0.005	None									
85-90	0.005	None									
90-95	0.005	None									
95-100	Trace	None									
100-105	0.005	None									
105-110	Trace	None									
110-115	Trace	None									
115-122½	0.005	None									
122½-125	0.005	None									
125-130	0.005	None									
130-135	0.005	None									
135-140	Trace	0.1									
140-145	Trace	0.1									
155-160	0.005	None									
160-162½	0.005	None									

Remarks Lewistown, Montana samples.

Charges $ 37.50

W. C. Wanlass

HOLE B-2 OME-6349

From	To	
0 -	2.5'	Overburden.
2.5 -	32.5'	Limestone, medium brown, hard. Tiny calcite stringers. Rare scattered soft altered fragments.
32.5 -	37.5'	Limestone, blue-gray, hard. Twenty per cent large white calcite fragments.
37.5 -	45.0'	Limestone or limey shale, blue-gray, soft and clayey. Ten per cent brownish slightly rusty harder limestone. Rare calcite.
45.0 -	50.0'	Limestone, buff, moderately hard. No calcite.
50.0 -	80.0'	Limestone, medium brown, hard. Rare calcite.
80.0 -	95.0'	Limestone, medium tan, hard and fresh. Rare calcite.
95.0 -	105.0'	Limestone, medium tan, with up to 50% soft brown iron-stained clayey limestone. Ten per cent soft black limey shale.
105.0 -	122.5'	Limestone, soft, brown clayey. Iron-stained and altered 15% soft white limey clay. Calcite common.
122.5 -	142.5'	Limestone, brown to brownish blue, hard. Rare calcite.
142.5 -	165.0'	As above, but getting progressively bluer.
165.0 -	225.0'	Limestone, dark blue-gray, occasionally brownish, hard. One per cent rusty calcite chips 195-210'.
225.0 -	260.0'	Limestone, mottled brownish-gray, hard and massive. Rusty calcite fragments at 232.5-237.5' and 255-260'.

Bottom - water, no cuttings.

Telephone EMpire 3-3302

Hand Sample Serial 25821-47

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 1, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-2											
0-5	0.005	None									
5-10	0.005	None									
10-15	0.005	None									
15-20	Trace	None									
20-25	Trace	None									
25-30	0.005	None									
30-35	Trace	None									
35-40	Trace	None									
40-45	Trace	None									
45-50	Trace	None									
50-55	Trace	None									
55-60	0.005	None									
60-62½	Trace	None									
62½-67½	Trace	None									
67½-70	0.005	None									
70-75	Trace	None									
75-80	0.005	None									
80-85	Trace	None									
85-90	Trace	None									
90-95	Trace	None									
95-100	Trace	0.1									
100-105	0.005	None									
105-110	Trace	None									
110-115	Trace	None									
115-120	Trace	None									
120-125	0.005	None									
125-130	Trace	None									

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Remarks Lewistown, Montana samples.

Charges $ 67.50

W. C. Wanlass

Telephone EMpire 3-3292

Hand
Sample Serial 25248-73

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 W. 3300 S.
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 1, 1954

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-2											
130-135	Trace	None									
135-140	Trace	None									
140-145	Trace	None									
145-150	Trace	None									
150-155	Trace	None									
155-160	Trace	None									
160-165	0.005	0.2									
165-170	0.005	None									
170-175	0.005	None									
175-180	0.005	None									
180-185	Trace	None									
185-190	Trace	None									
190-195	Trace	None									
195-200	0.005	None									
200-205	0.005	None									
205-210	0.005	None									
210-215	0.005	None									
215-220	0.005	None									
220-225	0.005	None									
225-230	Trace	None									
230-235	Trace	None									
235-240	Trace	None									
240-245	0.005	None									
245-250	0.005	None									
250-255	0.005	None									
255-260	0.005	None									

44

Remarks Livingston, Montana samples.

Charges $ 65.00

W. C. Wanlass

HOLE B-3 OME-6349

From		To	
0	-	2.5'	Overburden
2.5	-	20.0'	Limestone, bluish-brown, hard and massive. Ten per cent rusty white calcite.
20.0	-	32.5'	As above, with up to 50% soft brown clayey fragments, limonite common. Some silicification of hard limestone. CaF_2 chips 22.5-27.5' and 30-32.5'. 30-32.5' 90% soft brown clayey limestone, with 10% rusty, boxwork calcite.
32.5	-	37.5'	Limestone, medium brown, clayey and altered. Some limonite. Ten per cent rusty calcite.
37.5	-	60.0'	Limestone, bluish-brown, hard. Ten to fifteen per cent calcite and soft altered limestone. Hard limestone possibly silicified.
60.0	-	62.5'	Limestone, pinkish-brown, moderately hard. Fifteen per cent calcite.
62.5	-	67.5'	As above, with 50% soft altered clayey brown limestone. Ten per cent rusty calcite.
67.5	-	70.0'	Limestone, blue-black, hard. Some calcite and soft altered clayey limestone.
70.0	-	87.5	Limestone, tan. Soft altered, and possibly shaley. Iron staining common. Fifteen per cent calcite. CaF_2 (?) at 75-77.5'. Pinkish cast 80-85'.
87.5	-	90.0'	Limestone, brown and gray, moderately hard. Some calcite and iron staining.
90.0	-	110.0'	Limestone, mainly blue-black, with 15% brown limestone. Moderately hard. Some calcite.
110.0	-	130.0'	Limestone, pinkish brown, some gray. Moderately hard. Iron staining common. Some mottled alteration and 10% calcite. Grayer cast towards bottom. Fifteen per cent soft clayey limonite. Section has appearance of being alternating hard and soft bands.

HOLE B-3 (continued) OME-6349

From	To	
130.0 -	135.0'	Limestone, brownish-blue, hard. Five per cent calcite.
135.0 -	150.0'	Limestone, gray. Hard. Small cavity 135-137.5'. Some loss of cuttings.
150.0 -	187.5'	Limestone, mottled blue-gray, hard. Rare calcite. Several small cavities.
187.5 -	215.0'	Limestone, light gray, hard. Some brownish mottling. Rare calcite.
		Bottom - water at 215'.

Telephone EMpire 3-3302

Hand
Sample Serial 25874-88

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 1, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Pe
Hole B-3											
0-5	0.010	None									
5-10	0.005	None									
10-15	0.005	None									
15-20	0.005	None									
20-25	0.005	None									
25-30	0.005	None									
30-35	0.005	None									
35-40	Trace	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	0.005	None									
55-60	0.005	None									
60-65	Trace	None									
65-70	Trace	None									
70-75	0.005	None									
		99									

Remarks Landstorm, Montana samples.

Charges $ 37.50

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 25885-25916

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 W. 3300 S.
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 1, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ors	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per
Hole B-3											
75-80	0.005	None									
80-85	Trace	None									
85-90	Trace	None									
90-95	0.005	None									
95-100	0.005	None									
100-105	0.005	None									
105-110	0.005	None									
111-115	0.010	None									
115-120	0.015	None									
120-125	0.025	None									
125-130	0.015	None									
130-135	0.010	None									
135-140	0.010	None									
140-145	0.010	None									
145-150	0.010	None									
150-155	0.010	None									
155-160	0.015	None									
160-165	0.015	None									
165-170	0.010	None									
170-175	0.010	None									
175-180	0.005	None									
180-185	0.010	None									
185-190	0.005	None									
190-195	0.005	None									
195-200	0.005	None									
200-205	0.005	None									
205-210	0.005	None									
210-215	0.005	None									

Remarks. Levistown, Montana samples

Charges $. 70.00

W. C. Wanlass

HOLE B-4

OME-6349
Vitro Minerals Corporation

From	To	
0	60.0'	Limestone, bluish-gray to brownish blue, hard. Five to ten per cent rusty calcite. Chert chips 17.5-22.5'.
60.0'	70.0'	Limestone, tan to brown, soft. Possible shale. Limonitic clay alteration, with some calcite.
70.0'	97.5'	Limestone, bluish-gray, hard and massive. Small cavity at 97.5'.
97.5'	250.0'	Limestone, brownish-blue, mottled. Hard. Rare calcite. Pinkish brown cast 150.0-165.0', 187.5-197.5'. Some amber calcite, 200.0-212.5'.
250.0'	262.5'	Limestone, medium gray. Hard and massive.
262.5'	285.0'	Limestone, like 97.5-250.0', with strong rusty zone at 272.5-277.5'.
285.0'		Bottom.

Telephone EMpire 3-3302

Hand Sample Serial 26407-26426

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corporation
600 West 3300 South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-4											
0-5	0.010	None									
5-10	0.010	None									
10-15	0.010	None									
15-20	0.005	None									
20-25	0.005	None									
25-30	Trace	None									
30-35	0.005	None									
35-40	0.005	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	0.005	None									
55-60	0.005	None									
60-65	0.005	None									
65-70	0.005	None									
70-75	Trace	None									
75-80	0.005	None									
80-85	0.005	None									
85-90	Trace	None									
90-95	0.005	None									
95-97½	Trace	None									

147

Remarks Samples from Lewistown, Montana.

Charges $ 50.00

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 28650-63

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
B-4											
105-110	0.010	None									
110-115	0.005	None									
115-120	0.005	None									
120-125	0.005	None									
125-130	0.010	0.1									
220-225	0.010	None									
225-230	0.005	None									
235-240	0.005	None									
240-245	0.005	None									
245-250	Trace	None									
250-255	Trace	None									
255-260	0.005	0.1									
260-265	0.005	None									
265-270	Trace	None									
	161										

Remarks

Charges $ 35.00

Glen G. Williams

Telephone EMpire 3-3302

Hand
Sample Serial 39012-33

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 1, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per
B-4											
130-135	0.005	None									
135-140	Trace	None									
140-145	Trace	0.2									
145-150	Trace	None									
150-155	Trace	None									
155-160	0.005	None									
160-165	0.005	0.5									
165-170	Trace	None									
170-175	0.010	None									
175-180	Trace	None									
180-185	0.005	None									
185-190	0.005	0.1									
190-195	0.005	None									
195-200	Trace	None									
200-205	Trace	None									
205-210	Trace	None									
210-215	Trace	None									
215-220	Trace	None									
230-235	Trace	None									
270-275	0.005	None									
275-280	Trace	None									
280-285	Trace	None									

143

Remarks Lewistown, Montana samples.

Charges $ 55.00

W. C. Wanlass

HOLE B-5 OMR-6349
Vitro Minerals Corporation

From	To	
0	37.5'	Limestone, bluish-gray, hard. Fifty per cent reddish rusty calcite and somewhat clayey limestone. Weakly silicified. 25.0-35.0', 30% brownish clayey limestone.
37.5'	72.5'	Porphyry, brownish tan, soft. Altered clay and rusty feldspar. Occasional pink-white clay. 55.0-60.0', 15% bluish-gray calcitic limestone. 65.0-72.5', limonitic staining very intense.
72.5'	90.0'	Mixture, porphyry and light gray altered limestone (70 - 30). Limestone silicified, feldspar kaolinized.
90.0'	97.5'	Porphyry, light brown, soft and clayey.
97.5'	107.5'	Mixture, porphyry and white silicified limestone (50 - 50). Some limonite.
107.5'	110.0'	As above, with bluer mottled limestone.
110.0'	220.0'	Porphyry (95%) brownish-pink, soft and clayey. Limonitic staining common. Dendritic manganese stains prominent. Trace pale purple CaF_2 (?) 160.0-165.0'. 200.0-220.0' very soft and clayey, limonitic staining strong.
220.0'	227.5'	Limestone, blue-gray, moderately hard. Rusty and silicified, weakly brecciated. Scattered chert fragments.
227.5'	240.0'	Mixture as above with brown porphyry. Strong limonitic staining mottled limestone. Samples vary between 80 - 20 limestone - porphyry to 20 - 80 limestone porphyry.
240.0'	277.5'	Limestone, bluish-gray, mottled, hard. Ten to fifteen per cent brown porphyry. Limestone highly altered, up to 20% calcite locally. Minor black chert.
277.5'	300.0'	Mixture, predominantly brown porphyry, soft and clayey. Limestone, blue-gray, rusty, and cherty, up to 25% locally.
300.0'	377.5'	Limestone, blue-gray, mottled. Hard. Limonitic stains common. Ten to fifteen per cent soft brown limey clay. Some chert and calcite.
377.5'		Bottom. Cavity, water.

Telephone EMpire 3-3302

and
Sample Serial 26427-26453

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Oro	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-5											
0-5	Trace	None									
5-10	Trace	None									
10-15	0.005	None									
15-20	0.005	None									
20-25	0.010	None									
25-30	0.005	None									
30-35	0.005	None									
35-40	0.005	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	Trace	None									
55-60	0.005	None									
60-65	Trace	None									
65-70	Trace	None									
70-75	Trace	None									
75-80	Trace	None									
80-85	Trace	None									
85-90	0.005	None									
90-95	Trace	None									
95-100	0.005	None									
100-105	Trace	0.1									
105-110	Trace	None									
110-115	0.015	None									
115-120	Trace	None									
120-125	Trace	None									
125-130	Trace	None									
130-135	0.010	None									
	210										

Remarks Samples from Lewistown, Montana.

Charges $ 67.50

W. C. Wanlass

Telephone EMpire 3-3302

and
Sample Serial 26454-26480

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 W. 3300 S.
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wgt on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-5											
135-140	Trace	None									
140-145	Trace	None									
145-150	Trace	None									
150-155	Trace	None									
155-160	Trace	None									
160-165	0.005	None									
165-170	Trace	None									
170-175	Trace	0.1									
175-180	Trace	None									
180-185	Trace	None									
185-190	0.005	None									
190-195	Trace	None									
195-200	Trace	None									
200-205	0.005	None									
205-210	0.005	None									
210-215	Trace	None									
215-220	Trace	None									
220-225	0.005	None									
225-230	0.005	None									
230-235	Trace	None									
235-240	0.005	None									
240-245	0.005	None									
245-250	0.005	None									
250-255	0.005	None									
250-255 (Dup)	0.005	None									
255-260	Trace	None									
260-265	0.005	None									

Remarks Lewistown, Montana samples.

Charges $ 67.50

W. C. Wanlass

Telephone EMpire 3-3302

and
Sample Serial 26481-26503

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 W. 3300 S.
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per C
Hole B-5											
265-270	Trace	None									
270-275	Trace	None									
275-280	Trace	None									
280-285	Trace	None									
285-290	0.005	None									
290-295	0.005	None									
295-300	Trace	None									
300-305	Trace	None									
305-310	Trace	None									
310-315	Trace	None									
315-320	Trace	None									
320-325	Trace	None									
325-330	Trace	None									
330-335	0.005	None									
335-340	Trace	None									
340-345	Trace	None									
345-350	0.005	None									
350-355	Trace	None									
355-360	0.005	None									
360-365	0.005	None									
365-370	0.005	None									
370-375	0.005	None									
375-377½	0.005	None									
	26C										

Remarks Samples from Lewistown, Montana.

Charges $ 57.50

W. C. Wanlass

HOLE B-6 OME-6349
Vitro Minerals Corporation

From	To	
0	25.0'	Limestone, brownish blue-gray, hard. Locally, up to 15% rusty calcite. 22.5-25.0', 75% rusty calcite.
25.0'	55.0'	Limestone, light gray, moderately hard. Bleached and clay altered. Limonitic alteration and rusty calcite (10-20%) common.
55.0'	117.5'	Limestone, light-gray, soft. Intensely bleached. Common limonitic alteration. Rusty calcite. Some black cherty limestone 75.0-85.0'. Cavity at 93.0', no samples 92.5-97.5'.
117.5'	160.0'	Limestone, medium blue-gray, mottled. Hard. Not as altered as zone above. Ten per cent rusty calcite 125.0-127.5'. 145.0-155.0', 75-90% rusty, altered limestone.
160.0'	170.0'	Limestone, bluish-gray, mottled, hard. Little calcite.
170.0'	187.5'	Limestone, brownish-gray, soft. Intensely altered and bleached. Thirty-five per cent plus limonitic stains and fragments. Calcite common. Varved black and white chert fragments 170.0-180.0'.
187.5'	200.0'	Limestone, light blue-gray, hard. Ten per cent calcite and rusty fragments. No chert.
200.0'	207.5'	Limestone, brownish tan, hard. Some limonite and calcite.
207.5'	235.0'	Limestone, dark blue-gray, mottled. Rusty staining near small cavities.
235.0'	237.5'	Limestone, dark black, hard and cherty.
237.5'	275.0'	Limestone, red and brown, soft. Highly altered, some calcite.
275.0'	330.0'	Limestone, brownish-gray, moderately hard. Occasional blue-gray zone. Weak limonitic staining. Little calcite. Cavity 282.0', only part sample to 290.0'. 312.5-327.5', pinkish cast. Stronger iron staining.
330.0'	400.0'	Limestone (?) tan to brown, hard. Fines fizz violently, large chips only when ground. Possibly dolomite, although rock has some appearance of fine-grained rhyolite. Iron stained, 352.5-360.0' about 40% light gray limestone (?) with some pyrite or marcasite, also at 365.0-372.5', 380.0-382.5'.

From	To	
400.0'	425.0'	Limestone, light gray, hard. Rare pyrite. Some soft greenish clay, rare calcite.
425.0'	445.0'	Like 330.0-400.0', slightly browner.
445.0'		Bottom.

Telephone 363-3302

Sample Serial 28147-52

ASSAY REPORT

UTON ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

Sept. 21, 1964

RESULTS PER TON OF 2000 POUNDS

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Oro	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-6											
0-5	Trace	None									
5-10	Trace	0.1									
10-15	Trace	None									
15-20	Trace	None									
20-25	Trace	0.1									
25-30	0.005	None									
	244										

Remarks Lewistown, Montana samples.

Charges $ 15.00

W. C. Wanlass

Telephone EMpire 3-3302

Sample Serial 28664-90

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cen
B-6											
30-35	Trace	None									
35-40	Trace	None									
40-45	Trace	None									
45-50	Trace	None									
50-55	Trace	None									
55-60	Trace	0.1									
60-65	0.005	None									
65-70	Trace	0.2									
70-75	Trace	None									
75-80	Trace	None									
80-85	0.005	None									
85-90	Trace	None									
90-92.5	Trace	None									
97.5-100	Trace	None									
100-105	Trace	None									
105-110	Trace	None									
110-115	Trace	None									
115-120	Trace	None									
120-125	Trace	None									
125-130	Trace	None									
130-135	Trace	None									
135-140	Trace	None									
140-145	Trace	None									
145-150	Trace	None									
150-155	Trace	None									
155-160	Trace	None									
160-165	Trace	None									
	293										

Remarks

Charges $ 67.50

Chas. F. Williams

Telephone EMpire 3-3302

Land
Sample Serial 28691-28717

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
B-6											
165-170	Trace	None									
170-175	Trace	None									
175-180	Trace	None									
180-185	Trace	None									
185-190	0.005	None									
190-195	0.005	None									
195-200	0.005	None									
200-205	Trace	None									
205-210	Trace	None									
210-215	0.005	None									
215-220	Trace	None									
220-225	Trace	None									
225-230	0.005	None									
230-235	Trace	None									
235-240	0.010	0.1									
240-245	Trace	None									
245-250	Trace	0.1									
250-255	Trace	None									
255-260	Trace	0.1									
260-265	Trace	None									
265-270	Trace	None									
270-275	Trace	None									
275-280	Trace	None									
280-285	Trace	None									
285-290	Trace	None									
290-295	Trace	None									
295-300	Trace	None									
	320										

Remarks

Charges $ 67.50

Glen F. Williams

Telephone EMpire 3-3302

and
Sample Serial ...28718-28746.

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per C
B-6											
300-305	Trace	None									
305-310	0.005	0.1									
310-315	Trace	None									
315-320	Trace	None									
320-325	Trace	None									
325-330	Trace	None									
330-335	Trace	None									
335-340	Trace	None									
340-345	Trace	None									
345-350	Trace	None									
350-355	Trace	None									
355-360	Trace	None									
360-365	Trace	None									
365-370	Trace	None									
370-375	Trace	None									
375-380	Trace	None									
380-385	Trace	None									
385-390	Trace	0.1									
390-395	Trace	0.1									
395-400	Trace	None									
400-405	Trace	None									
405-410	Trace	None									
410-415	Trace	None									
415-420	Trace	None									
420-425	Trace	None									
425-430	Trace	None									
430-435	Trace	None									
435-440	0.005	None									
440-445	Trace	None									
	3.14										

Remarks ....

Charges $. 72.50

Glen P. Williams

HOLE M-1

OME-6349
Vitro Minerals Corporation

From	To	
0	15.0'	Limestone, blue-black, hard. Up to 35% rusty limestone and calcite. Some brown clay.
15.0'	27.5'	Limestone, light blue-gray, some pinkish tinge. Relatively soft, altered and bleached. Some rusty calcite at 20.0'.
27.5'	42.5'	Limestone, or limey shale, blue-black and soft. Rare scattered calcite.
42.5'	70.0'	Limestone, blue-gray, moderately hard. Some pinkish cast to altered zones. One per cent pyrite or marcasite. Highly bleached at bottom.
70.0'	120.0'	Limestone, light blue-gray, some pink, moderately hard. 90.0-95.0' brownish, hard with 1% pyrite or marcasite. 102.5-107.5' 75% whitish calcite or recrystallized limestone.
120.0'	140.0'	Limestone, light buff to white, soft. Highly altered and bleached. Some iron staining. Pyrite (?).
140.0'	172.5'	Limestone, bluish-gray, moderately hard. Some calcite and weak bleaching.
172.5'		Bottom. Water flow.

Telephone EMpire 3-3302

Hand
Sample Serial 31142-58

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 33rd South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 14, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Ce
M-1 0'-5'	Trace	None									
M-1 5'-10'	Trace	None									
M-1 10'-15'	Trace	None									
M-1 15'-20'	Trace	None									
M-1 20'-25'	Trace	None									
M-1 25'-30'	Trace	None									
M-1 30'-35'	Trace	None									
M-1 35'-40'	Trace	None									
M-1 40'-45'	Trace	None									
M-1 45'-50'	Trace	None									
M-1 50'-55'	Trace	None									
M-1 55'-60'	Trace	None									
M-1 60'-65'	Trace	None									
M-1 65'-70'	Trace	None									
M-1 70'-75'	Trace	0.3									
M-1 75'-80'	Trace	None									
M-1 80'-85'	Trace	None									
	34.4										

Remarks Levistown, Montana samples.

Charges $ 42.50

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 31159-75

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals
600 West 33rd South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 14, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per C
M-1 85'-90'	Trace	None									
M-1 90'-95'	Trace	None									
M-1 95'-100'	Trace	None									
M-1 100'-105'	Trace	None									
M-1 105'-110'	Trace	None									
M-1 110'-115'	Trace	0.1									
M-1 115'-120'	0.005	None									
M-1 120'-125'	Trace	0.4									
M-1 125'-130'	Trace	None									
M-1 130'-135'	Trace	None									
M-1 135'-140'	Trace	None									
M-1 140'-145'	0.020	None									
M-1 145'-150'	0.010	None									
M-1 150'-155'	0.015	None									
M-1 155'-160'	0.005	None									
M-1 160'-165'	0.020	None									
M-1 165'-170'	0.035	None									
	343										

Remarks Lewistown, Montana samples.

Charges $ 42.50

W. C. Wanlass

HOLE M-2

OME-6349
Vitro Minerals Corporation

From	To	
0'	12.5'	Limestone, grayish-white, hard. Somewhat altered and bleached.
12.5'	27.5'	Limestone, bluish-gray, hard. Some scattered calcite.
27.5'	37.5'	Limestone, or limey shale, bluish-black, soft. No visible calcite.
37.5'	75.0'	Limestone, grayish-white, moderately hard. Strongly bleached. Scattered calcite. Strongly iron-stained 47.5 - 65.0'.
75.0'	162.5'	Limestone, white, soft. Highly bleached and recrystallized. Rusty zone 127.5 - 137.5'. Brownish and clayey from 137.5 - 157.5'.
162.5'	200.0'	Limestone, light gray, hard. Moderately bleached. Some unbleached blue-gray zones.
200.0'	250.0'	Limestone, blue-gray, mottled, hard. Occasional thin bedded zones. Moderately bleached 225.0 - 232.5'. Some chert near bottom.
250.0'		Bottom, cavity, water.

Telephone EMpire 3-3302

nd
Sample Serial 32511-30

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 26, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
UB1 100-105	Trace	None									
UB1 105-110	Trace	None									
UB1 110-115	Trace	None									
UB1 115-120	Trace	None									
UB1 120-125	Trace	None									
UB1 125-130	Trace	None									
UB1 130-135	Trace	None									
UB1 135-140	Trace	None									
UB1 140-145	Trace	None									
M1 170-172½	0.065	None									
M2 0-5	Trace	None									
M2 5-10	Trace	None									
M2 10-15	Trace	None									
M2 15-20	Trace	None									
M2 20-25	Trace	None									
M2 25-30	Trace	None									
M2 30-35	Trace	None									
M2 35-40	Trace	None									
M2 40-45	Trace	None									
M2 45-50	Trace	0.1									

3rd

Telephone EMpire 3-3302

Sample Serial 32531-50

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mi Vitro Minerals Corp.
500 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 26, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
M2 50-55	Trace	None									
M2 55-60	Trace	None									
M2 60-65	0.005	None									
M2 65-70	Trace	None									
M2 70-75	Trace	0.1									
M2 75-80	Trace	None									
M2 80-85	Trace	None									
M2 85-90	Trace	0.1									
M2 90-95	Trace	0.1									
M2 95-100	Trace	None									
M2 100-105	Trace	None									
M2 105-110	Trace	None									
M2 110-115	Trace	None									
M2 115-120	Trace	0.1									
M2 120-125	Trace	0.1									
M2 125-130	Trace	None									
M2 130-135	Trace	0.1									
M2 135-140	Trace	None									
M2 140-145	Trace	None									
M2 145-150	0.015	0.1									

414

Telephone EMpire 3-3302

Land
Sample Serial 32551-70

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 26, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
M2 150-155	0.015	None									
M2 155-160	0.005	0.2									
M2 160-165	0.010	None									
M2 165-170	0.005	None									
M2 170-175	Trace	None									
M2 175-180	0.010	None									
M2 180-185	0.005	None									
M2 185-190	Trace	None									
M2 190-195	Trace	None									
M2 195-200	0.005	None									
M2 200-205	Trace	None									
M2 205-210	0.005	0.1									
M2 210-215	0.005	0.2									
M2 215-220	Trace	0.4									
M2 220-225	Trace	0.1									
M2 225-230	0.005	None									
M2 230-235	0.005	0.2									
M2 235-240	0.005	None									
M2 240-245	0.005	None									
M2 245-250	Trace	None									

434

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the report of:

Vitro Minerals Corporation
90 Park Avenue
New York, N. Y. 10016

pertaining to Exploration Contract 14-23-090-2193, OME-6349, including Amendment No. 1, for July 20 to October 30, 1964, inclusive, covering a gold-silver project on the Beta-Kappa claims and other properties, Fergus County, Montana.

My review included an examination of the Monthly Voucher (MME Forms 60) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, confirmation of work performed by reference to reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the reasons given in the attached schedule.

The findings of this review are stated in the following summary and the attached schedule:

Total cost billed by Operator		$15,105.64
Exceptions:		
Prior to this review	$ -0-	760.88
Herewith	760.88	
Total acceptable cost		$14,344.76

The contract calls for a 50 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as having met the terms of the contract, payments as follows are valid and proper:

Payable on audited claim	$ 7,172.38
Paid to date	-0-
Balance due	$ 7,172.38

C. E. Fisher, OME Auditor

May 7, 1965

Reasons for Report of Review in lieu of a final audit:

(1) a major portion ($9,741.25) of the acceptable costs covered work performed at unit rates under independent contract;
(2) the remaining portion ($4,603.51) of the acceptable costs was under a contract provision for conbtibution by the Government on the basis of fixed unit costs for work performed;
(3) the Monthly Reports were supported by documentary evidence of the acceptable actual costs under the contract;
(4) the administrative cost to the Government of an audit would be excessive in relation to the estimated amount of possible exceptions.

Item	Claimed Costs	Accepted Costs	
Stage I:			
Trenching D-7 Cat.-81 hours @ $16.50	$ 1,336.50	$ 1,336.50	
Samples - 740 @ $4.00	2,960.00	2,960.00	
Assays - 62 @ $2.50	155.00	90.00	(a)
Stage II:			
Grading D-7 Cat.-79.5 hours @$16.50	1,311.75	1,311.75	
Drilling - 2231'	6,308.00)	6,693.00	(b)
Do - Bits, cement, etc.	1,087.18)		
Mobilization and demobilization	400.00	400.00	
Incidental - 2231' @ $0.21	462.21	468.51	(c)
Assays - 434 @ $2.50	1,085.00	1,085.00	
Totals	$15,105.64	$14,344.76	

Exceptions:

(a) Assays taken in old pits, road cuts and tunnels deleted
Nos. 3014 - 3016, incl. 3
Nos. 2901 - 2906, incl. 6
Nos. 2908 - 2924, incl. 17
Total: 26 @ $2.50 $ 65.00

(b) Portion of costs in excess of $3.00/foot maximum allowed by contract 702.18

(c) Correct computation error (6.30)

Net exceptions $ 760.88

CMA

May

800

So. 157 Howard Street
Spokane, Washington 99204
May 25, 1965

Certified Mail

Memorandum

To: Chief, Fiscal Section, Office of Management Operations
Office of the Secretary, Department of the Interior
Washington, D. C.

From: Acting Field Officer, Region I

Subject: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2199

There is enclosed the original of a Report of Review dated May 7, 1965, for July 20 to October 30, 1964, inclusive, covering a gold-silver project on the Beta-Kappa claims and other properties, Fergus County, Montana.

One copy of the report has been sent to the Operator and one copy retained in the Spokane Office files.

Also enclosed are the original and two copies of the Operator's monthly voucher and progress report for the period July 20 to October 30, 1964, together with other papers for processing.

D. R. MacLaren

Enclosures

cc: OME
CMA
Voucher File

Director's Reading File
Resources Research Branch Chief

MLSmelser/mls

~~OFFICIAL~~
COPY
O. M. E.
RECEIVED
MAY 27 1965
INITIALS | CODE
800

So. 157 Howard Street
Spokane, Washington 99204
May 25, 1965

Air Mail

Vitro Minerals Corporation
90 Park Avenue
New York, N. Y. 10016

Re: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and
Leased Properties
Fergus County, Montana
Contract 2193

Gentlemen:

There is enclosed one copy of a Report of Review, in lieu of a final audit, dated May 7, 1965, for July 20 to October 30, 1964, inclusive, covering a gold-silver project on the Beta-Kappa claims and other properties, Fergus County, Montana.

Payment of "Balance due" in the amount of $7,172.38 will be made by our Washington, D. C. office and should be received shortly.

Sincerely yours,

D. R. MacLaren
Acting Field Officer, OME
Region I

Enclosure

cc: OME
CA&A
Voucher File

Director's Reading File
Resources Research Branch Chief

MISmelser/mls

MAY 13 1965

Memorandum

To: Acting Field Officer, Region I

From: Contract Administration and Audit Division
/s/ C. E. Fisher

Subject: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2193

As requested in your March 10, 1965, memorandum, a Report of Review covering the subject contract has been prepared. The original and two copies are enclosed.

If you concur in the facts stated in this Report of Review, please make the distribution authorized by Section 4 of OME Circular 2 dated February 17, 1960. As evidence of your concurrence, a copy of your letter transmitting the Operator's copy of the Report of Review should be furnished to this Division. If for any reason you do not concur, the original and both copies should be returned to this Division with your comments.

Enclosures

C. E. Fisher:fh
5/7/65

cc: Director's reading file
Docket
CA & A Division
Fiscal Section

APR 26 1965

Memorandum

To: Acting Field Officer, Region I

From: Contract Administration and Audit Division
/s/ C. E. Fisher

Subject: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2193

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Enclosures

CEFisher:fh
4/26/65

cc: Docket
Director's reading file
CA&A Division
Fiscal Section

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the report of:

Vitro Minerals Corporation
90 Park Avenue
New York, N. Y. 10016

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My review included an examination of the Monthly Voucher (MME Forms 60) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, confirmation of work performed by reference to reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the reasons given in the attached schedule.

The findings of this review are stated in the following summary and the attached schedule:

Total cost billed by Operator		$15,105.64
Exceptions:		
Prior to this review	$ -0-	
Herewith	1,145.88	1,145.88
Total acceptable cost		$13,959.76

The contract calls for a 50 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as having met the terms of the contract, payments as follows are valid and proper:

Payable on audited claim	$ 6,979.88
Paid to date	-0-
Balance due	$ 6,979.88

C. E. Fisher

C. E. Fisher, OME Auditor

April 26, 1965

Reasons for Report of Review in lieu of a final audit:

(1) a major portion ($9,356.25) of the acceptable costs covered work performed at unit rates under independent contract;
(2) the remaining portion ($4,603.51) of the acceptable costs was under a contract provision for contribution by the Government on the basis of fixed unit costs for work performed;
(3) the Monthly Reports were supported by documentary evidence of the acceptable actual costs under the contract;
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Assays - 62 @ $2.50	155.00	90.00 (a)
Stage II:		
Grading D-7 Cat.-79.5 hours @ $16.50	1,311.75	1,311.75
Drilling	6,308.00	6,308.00
Do - Bits, cement, etc.	1,087.18	-0- (b)
Mobilization and demobilization	400.00	400.00
Incidental - 2231' @ $0.21	462.21	468.51 (c)
Assays - 434 @ $2.50	1,085.00	1,085.00
Totals	$15,105.64	$13,959.76

Exceptions:

(a) Assays taken in old pits, road cuts and tunnels deleted
Nos. 3014 - 3016, incl. 3
Nos. 2901 - 2906, incl. 6
Nos. 2908 - 2924, incl. 17
Total: 26 @ $2.50 $ 65.00
(b) Not allowable under contract terms 1,087.18
(c) Correct computation error (6.30)

Net exceptions $ 1,145.88

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code

APR 26 1965

Memorandum

To: Acting Field Officer, Region I

From: Contract Administration and Audit Division
/s/ C. E. Fisher

Subject: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2193

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Enclosures

CEFisher:fh
4/26/65

cc: Docket
Director's reading file
CA&A Division
Fiscal Section

23263

MME FORM 6 REFERENCE SLIP
REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1.		
2. Mr. Johnson	4/26	JEF
3. Mr. Selfridge		
4.		
5. Un 7-2375		
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:

8-301-Un 7-2375

INT.-DUP. SEC., WASH., D.C. M56300-62

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the report of:

Vitro Minerals Corporation
90 Park Avenue
New York, N. Y. 10016

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My review included an examination of the Monthly Voucher (MME Forms 60) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, confirmation of work performed by reference to reports and correspondence, and a determination of the reasonableness and propriety of the costs.

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Paid to date	-0-
Balance due	$ 6,979.88

C. E. Fisher

C. E. Fisher, OME Auditor

April 26, 1965

Reasons for Report of Review in lieu of a final audit:

(1) a major portion ($9,356.25) of the acceptable costs covered work performed at unit rates under independent contract;
(2) the remaining portion ($4,603.51) of the acceptable costs was under a contract provision for contribution by the Government on the basis of fixed unit costs for work performed;
(3) the Monthly Reports were supported by documentary evidence of the acceptable actual costs under the contract;
(4) the administrative cost to the Government of an audit would be excessive in relation to the estimated amount of possible exceptions.

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Stage II:		
Grading D-7 Cat.-79.5 hours @ $16.50	1,311.75	1,311.75
Drilling	6,308.00	6,308.00
Do - Bits, cement, etc.	1,087.18	-0- (b)
Mobilization and demobilization	400.00	400.00
Incidental - 2231' @ $0.21	462.21	468.51 (c)
Assays - 434 @ $2.50	1,085.00	1,085.00
Totals	$15,105.64	$13,959.76

Exceptions:

(a) Assays taken in old pits, road cuts and tunnels deleted
Nos. 3014 - 3016, incl. 3
Nos. 2901 - 2906, incl. 6
Nos. 2908 - 2924, incl. 17
Total: 26 @ $2.50 $ 65.00

(b) Not allowable under contract terms 1,087.18

(c) Correct computation error (6.30)

Net exceptions $ 1,145.88

No. 157 Howard Street
Spokane, Washington 99204
March 10, 1965

COPY
O. M. E.
RECEIVED
MAR 15 1965
INITIALS CODE

Memorandum

To: Contract Administration & Audit Division, OME

From: Acting Field Officer, Region I

Subject: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2195

Work under the subject contract was terminated October 30, 1964, after the completion of all work under Stage I and that authorized under Stage II.

The number of units of work completed by the Operator and accepted by the Acting Field Officer as conforming to contract specifications were:

Stage I -	Soil samples	740	
	Bulldozing trenches	81.0	hours
	Trench sample assays	36	
Stage II -	Bulldozing access roads	79.5	hours
	Mobilization and demobilization	1	job
	Rotary drilling	2,231	feet
	Drill hole sample assays	434	

An acceptable final engineering and geological report was received from the Operator on March 3, 1965.

A Report of Review, in lieu of a final audit, is in order and requested. For this purpose the original copies of the final and only (July 20 - October 30, 1965) MMR 60 and MMR 61, together with supporting documentation are attached.

D. R. Maclaren

Attachments

So. 137 Howard Street
Spokane, Washington 99204

RECEIVED
DATE

Mr. Cecil E. Smith
Exploration Manager
Vitro Minerals Corporation
600 W. 3rd South Street
P. O. Box 15437
Salt Lake City, Utah 84115

Re: GME-6349 (Gold-Silver)
Vitro-Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2195

Dear Mr. Smith:

Your vouchers for August, September, and October, relative to work done under the referenced contract have been reviewed and are returned herewith for corrections and inclusion of certain supporting documents now missing. Also returned are the three copies of the October Narrative Report and your Final Report as presently there appear to be some statistical errors which you might wish to correct. Also, the Final Report was not accompanied by the assay data, maps, and/or sketches as required under Article 3(c) of the contract.

That the following may be understood more clearly, perhaps certain points regarding Exhibit A, Amendment No. 1, and Work Authorizations dated August 27, September 15, and October 28, 1964, should be explained first.

<u>In Exhibit A</u>: The first paragraph on page 2 requires assay certificates of all samples (i.e., for which reimbursement is claimed) and includes those for soil sample assays as well as those for trench and drill hole samples. The fifth paragraph on the same page requires written confirmation of all work approved orally for Stages II and III. Under <u>Description of the Work</u> the soil sample locations are indicated on Plates 1 and 2. Except for a minor change of location as proposed at the north end of your Map GE-3, Plates 1 and 2 were prepared in accordance with locations shown in red on Maps GE-1, GE-2, GE-3, GE-5, and GE-6, which we received from you June 22, 1964. All of these soil samples as indicated are authorized by the contract. Under <u>Costs</u> the total for Category (1), $15,400 and the average unit cost estimated at $3 per foot for drilling are maximums and cannot be exceeded.

Amendment No. 1: In addition to adding certain claims to the land covered by the contract, this amendment provides for the relocation of sample sites indicated on Plates 1 and 2 from which samples were taken prior to the date of the contract. However, the relocation is limited to "test the possible extensions of or further define anomalies found within the soil sampling areas defined above," and requires prior Government approval confirmed in writing. Thus, the samples shown as having been taken on Map GC-1 could not be and were not authorized as they do not effect an extension of the anomalies encountered at the north end of the area defined by Plate 1.

Work Authorization, August 27, 1964: This authorizes relocation of 60 soil samples, taken before the date of the contract, to test the extension into Beta 4 and Beta 6 Claims of certain anomalies found near the southwest corner of Beta 4 Claim. It also authorizes 12 trenches at the approximate locations shown on the base maps submitted with your letter of July 31, 1964, and the drilling of 3 holes located approximately at specified coordinates.

Work Authorization, October 20, 1964: This authorized two drill holes near Tunnel M-3.

In summary, the only work authorized for CMX assistance is:

1. By the basic contract 1,425 soil samples of which 727 are approximately located on Plate 1 and 698 are approximately located on Plate 2.

2. By Amendment No. 1 and Work Authorization, 60 soil samples on Beta 4 and Beta 6 Claims.

3. By Work Authorization, 12 trenches and 8 drill holes.

With the above in mind, and referring to Article 3(b) of the contract and the instructions on the back of MMX Forms 60 and 61, I will now go into the difficulties encountered in processing the Progress Reports, MMX Form 61, for August, September, and October.

Soil Sampling: According to your letter of July 31, 1964, the area sampled prior to the date of the contract covers that authorized under Phase I. This is a bit ambiguous as, of course, no sampling had yet been done on the Kappa Claims. However, the August Narrative Report, dated September 10, 1964, clarifies this with the statement that prior to the contract 914 samples had been taken from 0-N to 30-N which eliminates from vouchersable soil samples all those taken on the Beta Claims as originally provided by the contract. The difference between the 727 soil samples provided in this area and the 914 mentioned in the narrative is due to samples taken outside of

Work Authorization, September 15, 1964: This authorized drilling three additional holes located approximately at specified coordinates.

the authorized area. However, the following is indicated in Overlays GE-1, GE-2, and GE-3, submitted with the Narrative Report:

Map No.	Samples taken	Samples disqualified*	Samples meeting specifications
GE-1	279	93	186
GE-2	609	152	457
GE-3	62	0	62
Total	950	245	705

*Taken within 200 feet of property line, within the area sampled before application or no value was indicated at sample station shown on map.

This is academic except that the 914 samples mentioned in the narrative cannot be reconciled with the number shown on the maps.

The September 10 Narrative Report also states that GME work officially started in the Kappa Claim area, that 439 soil samples were taken, and that the results are shown on maps GE-5 and GE-6 overlays. However, the maps indicate:

Map No.	Samples taken	Samples disqualified	Samples meeting specifications
GE-5	387	12	375
GE-6	49	0	49
Total	436	12	424

Here again, there is a discrepancy between the number of samples mentioned in the narrative and the number shown on the map. Until the assayer's reports covering the soil samples are received not even the 424 otherwise acceptable soil samples can be approved for payment.

The September Narrative, dated October 12, 1964, states that 50 of the 60 soil samples authorized by amendment were taken from Beta Claims 4 and 6 and that a total of 704 samples, 245 additional ones, were taken from the Kappa Claims. However, no revised copies of GE-6 or other maps showing the sample locations and ppm assays have been received. The only assayer's reports for soil samples support 50 samples, 48 of which were taken on Beta Claims 4 and 6 as

authorized but for which a map is lacking. Of the other 2, 1 at 10N - 12E is in the area reported as completely sampled before the contract date; the other at 55N - 12E is in an area excluded by the contract and Amendment No. 1. Thus, of a total of 754 soil samples claimed on WAE Form 61, only 698 were authorized and of these only 424 could be accepted for payment on the basis of the maps submitted to date and none can be accepted until the appropriate assay certificates are received.

Trenching: The following table shows the approximate locations of the 12 trenches authorized and the approximate locations of 9 trenches the August Narrative says were completed. No trenches were excavated in September or October according to the respective narrative reports.

Authorized	N	E	Executed	N	E
1	81580	75200	1	81340	76215
2	81550	76330	2	-	-
3	81680	76540	3	-	-
4	81900	76820	4	81910	76850
5	83225	76055	5	83230	76010
6	85000	75552	6	85100	75500
7	85850	76145	7	85863	76185
8	86000	76655	8	86015	76570
9	86280	76750	9	86280	76740
10	86360	76070	10	86355	76090
11	86720	77000	11	-	-
12	87535	77045	12	87295	77475

There is another trench, on the same map as the one showing as excavated No. 12, located at approximately 86685N - 77050E. Possibly, neither of these trenches are included in the nine claimed, the ninth being at the north end of No. 8, at 86420N - 76045E, but only one trench was requested and authorized at this approximate location.

The three trenches missing from all maps submitted present no problem as they were merely authorized at your request. However, there appear to be three unauthorized trenches put in for Vitro's account and as the dozer contractor's invoice makes no distinction as to which trenches are charged to WAE and which to the company, this claim cannot be approved on the basis of the supporting documentation.

Drilling: Whether the Government can properly contribute to the cost of both Holes B-1 and B-1A depends upon the reason for moving from the B-1 setup. Also, we would need a hole log and assayer's report and sample location. The Daily Drilling Report for August 13, 1964, says: "Hit cavity at 46-47, Lost Air, No Samples - Moved Off." Apparently, no attempt was made to cement the hole as was done in the same hole between 16 and 18 feet. The reports for September 4 and 5 show a similar difficulty in B-1A was overcome by cementing. The August 17, 1964 Daily Drilling Report shows 2 entries for Hole B-1A; 0 to 2½ feet and 0 to 2 feet; then, for September 3, it shows 0 to 65 feet for the same hole. The August 17 Daily Drilling Report in 1 place shows 4 hours charged to B-1A and 6 hours to B-3. Which one is correct? Was 2 hours actually moving time from B-1A to B-3?

There is no Daily Drilling Report to account for 0 to 95 feet in Hole B-4. Also, there is no authorized Hole B-7. If this was intended to be charged against M-1 or M-2, then there is a double charge for the first 50 feet of 1 of these holes.

Exhibit A of the contract provides that the average cost for drilling may be less (Actual Cost) but not more than $3 per foot. Under Unit Cost an Incidental Allowance of $0.21 per foot is provided. To arrive at the cost for drilling, I can consider only those Daily Drilling Reports that show actual drilling, although even these may include in the rig time some time spent cementing, redrilling, or even moving, but for the most part the notations appear to take care of this. The following table is derived from these records:

	August		September		October	
Hole	Feet	Hours	Feet	Hours	Feet	Hours
B-1	50	14.0				
B-2	260	30.5				
B-3	214	34.5				
B-4	8	2.0	184	25.0		
B-5	220	10.0	158	15.5		
B-6			445	59.5		
B-1A			170	60.0		
M-1			172	20.5		
M-2			5	2.5	15	28.0
Total	752	91.0	1,204	188.0	175	28.0

The indicated totals for August include drilling Hole B-1 which may not be approved without stronger justification for its abandonment, and do not include the first 93 feet of Hole B-4 for which support in the form of the Drilling Reports may be forthcoming. However, compare these totals with the units claimed on the MMB Form 61's. For the respective months the latter are 1,010, an indicated average of 258 feet, 1,042, a deficit of 162.

The totals of the supported number of feet and number of hours drilling respectively are 2131 and 387. The hourly cost indicated on the Drilling Reports is $18, so that the supported cost of drilling 2,131 feet of hole is $5,326 or an average cost of $2.39 per foot.

Assaying: Assaying of trench and drill hole samples claimed on the MMB Form 61's are not adequately supported. Assayer's reports accompanying the respective August, September, and October Narrative Reports are: 27 trench and 96 drill hole assays; 0 trench and 208 drill hole assays; 0 trench and 85 drill hole assays. These assay reports do not support the 50 trench and 190 drill hole samples claimed in the August MMB-61, the 25 trench and 209 drill hole samples claimed in the September MMB-61, nor the 33 drill hole samples claimed for October; nor do they support the total of 75 trench samples and 434 drill hole samples claimed.

In view of the above, I am sure you can see the confusion that has resulted from submitting progress reports and maps unaccompanied by vouchers. If I were to attempt to forward the vouchers now without clarification of the cited discrepancies and without receiving the missing supporting data, much of your total claim would have to be deleted in one month although some of it might be restored later.

Therefore, you are requested to prepare in quadruplicate:

1. One each of Progress Report (MMB-61) and Monthly Voucher (MMB-60) covering all the authorized CMK work done from July 20, 1964.

2. Soil sample maps to show the locations and ppm of all CMK soil samples claimed.

3. Geologic maps including thereon the locations of each of the authorized drill holes that were drilled, and each of the trenches that were excavated, including sample locations and assays.

4. Copies of Bulldozer invoices to support the time claimed for excavating trenches, access trails, and drill stations.

5. Copies of Daily Drilling Records to show for each hole claimed the footage drilled and the hours spent in drilling operations,

that is, excluding moving and set-up time. In this connection, it might help if you were to include one copy of your contract with T. A. Beavers Drilling.

6. A single corrected Narrative Report covering the period from July 20, 1964.

Sincerely yours,

D. R. MacLaren
Acting Field Officer, OME
Region I

Enclosures

cc: OME(2)
Voucher file
MacLaren

Director's Reading File
Resources Research Branch Chief

DRMacLaren:mls

EXTRA COPY
O. M. E
RECEIVED
DATE
800

October 12, 1964

Mr. Donald R. MacLaren
Acting Field Officer
Region I
U. S. Department of the Interior
Office of Minerals Exploration
South 157 Howard Street
Spokane, Washington 99204

Re: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and
Leased Properties
Fergus County, Montana
Contract 2193

Dear Mr. MacLaren:

- NARRATIVE REPORT -
September, 1964

During the month of September, the following work was completed or results received:

Your letter of August 27, authorized up to 60 soil samples on the Beta 4 and 6 claims. Fifty of these samples were collected, and the results are enclosed.

Stage I geochemical work on the Kappa claims has been completed, and all of the 704 samples have been analysed. The results, contoured in ppm arsenic, are shown on maps GE-6 and overlay.

Drill holes B-4, B-5, and B-6, located approximately as described in your letter of authorization dated September 15, have been completed. Hole logs and assays are enclosed.

Drill hole B-1A, authorized in your letter of August 27, has also been completed. Hole log and assays accompany.

Only one drill hole (B-5) penetrated any porphyry; however, no economic mineralization was encountered.

Also, enclosed in the map tube, are 3 copies of soil sampling overlay GC-1. This map shows the area of the Beta claims north of Whiskey Gulch recently included in our OME contract. As you will note, the area contains the highest soil anomalies yet encountered. Furthermore, it is evident from our aerial photographs that these anomalies occur in the same stratigraphic horizon as the large ore bodies in the Gilt Edge Mine, which lie just to the north of the mapped area.

We would like to receive authorization to excavate four dozer cuts and to drill two holes in this area, to be located as shown on the maps.

- SUMMARY -
September, 1964

	Completed	Authorized	Allowed
Stage I			
Soil Samples	754	754	1,425
Stage II			
Drill Hole Footages			
B-1A	162.5		
B-2	260		
B-3	215		
B-4	285		
B-5	377.5		
B-6	445		
Totals	1,745'	1,745'	4,500'

Very truly yours,

VITRO MINERALS CORPORATION

BEN F. DICKERSON III
Staff Geologist

BFD:bas

Enclosures

RECEIVED
Via Air
OCT 13 1964
Parcel Post
OME
SPOKANE, WASHINGTON

50 samples

Sample No.	Arsenic	Sample No.	Arsenic
5N 21E	60	8N 22E	25
5N 22E	160	8N 23E	25
5N 23E	80	8N 24E	35
5N 24E	105	8N 25E	70
5N 25E	30	8N 26E	25
5N-26E	40	8N 27E	160
5N 27E	25	8N 28E	45
5N 28E	15	9N 21E	25
6N 21E	130	9N 22E	25
6N 22E	120	9N 23E	20
6N 23E	100	9N 24E	20
6N 24E	50	9N 25E	25
6N 25E	35	9N 26E	20
6N 26E	60	9N 27E	35
6N 27E	50	9N 28E	125
6N 28E	15	10N 12E	15
7N 21E	45	10N 21E	45
7N 22E	40	10N 22E	30
7N 23E	85	10N 23E	25
7N 24E	55	10N 24E	160
7N 25E	30	10N 25E	60
7N 26E	150	10N 26E	35
7N 27E	25	10N 27E	25
7N 28E	10	10N 28E	40
8N 21E	40	55N 10E	110

HOLE B-1A

OME-6349
Vitro Minerals Corporation

From	To	
0	2.5'	Limestone, reddish, extremely hard, silicified. Some calcite blebs.
2.5'	7.5'	Limestone, reddish-black, hard. Mixture of above (15%) and black, hard cherty limestone.
7.5'	12.5'	Limestone, bluish-brown, hard. Rusty, limonitic fragments, 10%. Some black chert.
12.5'	20.0'	Limestone, brownish-gray, mottled, hard. Some rusty calcite.
20.0'	50.0'	Limestone, light gray, hard. Some tan chips. Rare calcite, cavity at 30.0'.
50.0'	162.5'	Limestone, brownish-gray, mottled, hard. Less than 10% calcite and rusty alteration.
162.5'		Bottom. Cavity.

Note: Cavities at:

95.0-97.5'
102.5-105.0'
105.0-107.5'
110.0-112.5'
115.0-117.5'
132.5-135.0'
137.5-140.0'

Telephone EMpire 3-3302

Hand
Sample Serial 28116-31

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals
600 West 33rd South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 21, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per C
Hole B-1A											
0-5	0.048	0.2									
5-10	0.025	None									
10-15	0.015	0.2									
15-20	0.010	None									
20-25	0.010	None									
25-30	0.010	0.3									
30-35	0.005	0.1									
35-40	0.005	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	0.005	None									
55-60	0.005	None									
60-62½	Trace	None									
62½-72½	0.005	None									
72½-75	0.005	None									
75-80	Trace	None									

Remarks Lewistown, Montana samples.

Charges $ 40.00

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 28132-46

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals
600 West 33rd South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 21, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cen
Hole B-1A											
80-85	0.005	None									
85-90	0.005	None									
90-95	0.005	None									
95-100	Trace	None									
100-105	0.005	None									
105-110	Trace	None									
110-115	Trace	None									
115-122½	0.005	None									
122½-125	0.005	None									
125-130	0.005	None									
130-135	0.005	None									
135-140	Trace	0.1									
140-145	Trace	0.1									
155-160	0.005	None									
160-162½	0.005	None									

Remarks Lewistown, Montana samples.

Charges $ 37.50

W. C. Wanlass

HOLE B-4

OME-6349
Vitro Minerals Corporation

From	To	
0	60.0'	Limestone, bluish-gray to brownish blue, hard. Five to ten per cent rusty calcite. Chert chips 17.5-22.5'.
60.0'	70.0'	Limestone, tan to brown, soft. Possible shale. Limonitic clay alteration, with some calcite.
70.0'	97.5'	Limestone, bluish-gray, hard and massive. Small cavity at 97.5'.
97.5'	250.0'	Limestone, brownish-blue, mottled. Hard. Rare calcite. Pinkish brown cast 150.0-165.0', 187.5-197.5'. Some amber calcite, 200.0-212.5'.
250.0'	262.5'	Limestone, medium gray. Hard and massive.
262.5'	285.0'	Limestone, like 97.5-250.0', with strong rusty zone at 272.5-277.5'.
285.0'		Bottom.

Telephone EMpire 3-3302

Hand Sample Serial 26407-26426

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corporation
600 West 3300 South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-4											
0-5	0.010	None									
5-10	0.010	None									
10-15	0.010	None									
15-20	0.005	None									
20-25	0.005	None									
25-30	Trace	None									
30-35	0.005	None									
35-40	0.005	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	0.005	None									
55-60	0.005	None									
60-65	0.005	None									
65-70	0.005	None									
70-75	Trace	None									
75-80	0.005	None									
80-85	0.005	None									
85-90	Trace	None									
90-95	0.005	None									
95-97½	Trace	None									

Remarks Samples from Lewistown, Montana.

Charges $ 50.00

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 28650-63

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Ce
B-4											
105-110	0.010	None									
110-115	0.005	None									
115-120	0.005	None									
120-125	0.005	None									
125-130	0.010	0.1									
220-225	0.010	None									
225-230	0.005	None									
235-240	0.005	None									
240-245	0.005	None									
245-250	Trace	None									
250-255	Trace	None									
255-260	0.005	0.1									
260-265	0.005	None									
265-270	Trace	None									

Remarks

Charges $ 35.00

Glen P. Williams

Telephone EMpire 3-3302

Hand Sample Serial 30012-33

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Oct. 1, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Co
B-4											
130-135	0.005	None									
135-140	Trace	None									
140-145	Trace	0.2									
145-150	Trace	None									
150-155	Trace	None									
155-160	0.005	None									
160-165	0.005	0.5									
165-170	Trace	None									
170-175	0.010	None									
175-180	Trace	None									
180-185	0.005	None									
185-190	0.005	0.1									
190-195	0.005	None									
195-200	Trace	None									
200-205	Trace	None									
205-210	Trace	None									
210-215	Trace	None									
215-220	Trace	None									
230-235	Trace	None									
270-275	0.005	None									
275-280	Trace	None									
280-285	Trace	None									

Remarks: Lewistown, Montana samples.

Charges $ 55.00

W. C. Wanlass

HOLE B-5

OME-6349
Vitro Minerals Corporation

From	To	
0	37.5'	Limestone, bluish-gray, hard. Fifty per cent reddish rusty calcite and somewhat clayey limestone. Weakly silicified. 25.0-35.0', 30% brownish clayey limestone.
37.5'	72.5'	Porphyry, brownish tan, soft. Altered clay and rusty feldspar. Occasional pink-white clay. 55.0-60.0', 15% bluish-gray calcitic limestone. 65.0-72.5', limonitic staining very intense.
72.5'	90.0'	Mixture, porphyry and light gray altered limestone (70 - 30). Limestone silicified, feldspar kaolinized.
90.0'	97.5'	Porphyry, light brown, soft and clayey.
97.5'	107.5'	Mixture, porphyry and white silicified limestone (50 - 50). Some limonite.
107.5'	110.0'	As above, with bluer mottled limestone.
110.0'	220.0'	Porphyry (95%) brownish-pink, soft and clayey. Limonitic staining common. Dendritic manganese stains prominent. Trace pale purple CaF_2 (?) 160.0-165.0'. 200.0-220.0' very soft and clayey, limonitic staining strong.
220.0'	227.5'	Limestone, blue-gray, moderately hard. Rusty and silicified, weakly brecciated. Scattered chert fragments.
227.5'	240.0'	Mixture as above with brown porphyry. Strong limonitic staining mottled limestone. Samples vary between 80 - 20 limestone - porphyry to 20 - 80 limestone porphyry.
240.0'	277.5'	Limestone, bluish-gray, mottled, hard. Ten to fifteen per cent brown porphyry. Limestone highly altered, up to 20% calcite locally. Minor black chert.
277.5'	300.0'	Mixture, predominantly brown porphyry, soft and clayey. Limestone, blue-gray, rusty, and cherty, up to 25% locally.
300.0'	377.5'	Limestone, blue-gray, mottled. Hard. Limonitic stains common. Ten to fifteen per cent soft brown limey clay. Some chert and calcite.
377.5'		Bottom. Cavity, water.

Telephone EMpire 3-3302

Hand Sample Serial 26427-26453

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-5											
0-5	Trace	None									
5-10	Trace	None									
10-15	0.005	None									
15-20	0.005	None									
20-25	0.010	None									
25-30	0.005	None									
30-35	0.005	None									
35-40	0.005	None									
40-45	0.005	None									
45-50	0.005	None									
50-55	Trace	None									
55-60	0.005	None									
60-65	Trace	None									
65-70	Trace	None									
70-75	Trace	None									
75-80	Trace	None									
80-85	Trace	None									
85-90	0.005	None									
90-95	Trace	None									
95-100	0.005	None									
100-105	Trace	0.1									
105-110	Trace	None									
110-115	0.015	None									
115-120	Trace	None									
120-125	Trace	None									
125-130	Trace	None									
130-135	0.010	None									

Remarks Samples from Lewistown, Montana.

W. C. Wanlass

Charges $ 67.50

Telephone EMpire 3-3302

Hand Sample Serial 26454-26480

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 W. 3300 S.
Salt Lake City, Utah 84115

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per C
Hole B-5											
135-140	Trace	None									
140-145	Trace	None									
145-150	Trace	None									
150-155	Trace	None									
155-160	Trace	None									
160-165	0.005	None									
165-170	Trace	None									
170-175	Trace	0.1									
175-180	Trace	None									
180-185	Trace	None									
185-190	0.005	None									
190-195	Trace	None									
195-200	Trace	None									
200-205	0.005	None									
205-210	0.005	None									
210-215	Trace	None									
215-220	Trace	None									
220-225	0.005	None									
225-230	0.005	None									
230-235	Trace	None									
235-240	0.005	None									
240-245	0.005	None									
245-250	0.005	None									
250-255	0.005	None									
250-255 (Dup)	0.005	None									
255-260	Trace	None									
260-265	0.005	None									

Remarks Lewistown, Montana samples.

Charges $ 67.50

W. C. Wanlass

Telephone EMpire 3-3302

Hand
Sample Serial 26481-26503

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 W. 3300 S.
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 8, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-5											
265-270	Trace	None									
270-275	Trace	None									
275-280	Trace	None									
280-285	Trace	None									
285-290	0.005	None									
290-295	0.005	None									
295-300	Trace	None									
300-305	Trace	None									
305-310	Trace	None									
310-315	Trace	None									
315-320	Trace	None									
320-325	Trace	None									
325-330	Trace	None									
330-335	0.005	None									
335-340	Trace	None									
340-345	Trace	None									
345-350	0.005	None									
350-355	Trace	None									
355-360	0.005	None									
360-365	0.005	None									
365-370	0.005	None									
370-375	0.005	None									
375-377½	0.005	None									

Remarks Samples from Levistown, Montana.

Charges $ 57.50

W. C. Wanlass

HOLE B-6

OME-6349
Vitro Minerals Corporation

From	To	
0	25.0'	Limestone, brownish blue-gray, hard. Locally, up to 15% rusty calcite. 22.5-25.0', 75% rusty calcite.
25.0'	55.0'	Limestone, light gray, moderately hard. Bleached and clay altered. Limonitic alteration and rusty calcite (10-20%) common.
55.0'	117.5'	Limestone, light-gray, soft. Intensely bleached. Common limonitic alteration. Rusty calcite. Some black cherty limestone 75.0-85.0'. Cavity at 93.0', no samples 92.5-97.5'.
117.5'	160.0'	Limestone, medium blue-gray, mottled. Hard. Not as altered as zone above. Ten per cent rusty calcite 125.0-127.5'. 145.0-155.0', 75-90% rusty, altered limestone.
160.0'	170.0'	Limestone, bluish-gray, mottled, hard. Little calcite.
170.0'	187.5'	Limestone, brownish-gray, soft. Intensely altered and bleached. Thirty-five per cent plus limonitic stains and fragments. Calcite common. Varved black and white chert fragments 170.0-180.0'.
187.5'	200.0'	Limestone, light blue-gray, hard. Ten per cent calcite and rusty fragments. No chert.
200.0'	207.5'	Limestone, brownish tan, hard. Some limonite and calcite.
207.5'	235.0'	Limestone, dark blue-gray, mottled. Rusty staining near small cavities.
235.0'	237.5'	Limestone, dark black, hard and cherty.
237.5'	275.0'	Limestone, red and brown, soft. Highly altered, some calcite.
275.0'	330.0'	Limestone, brownish-gray, moderately hard. Occasional blue-gray zone. Weak limonitic staining. Little calcite. Cavity 282.0', only part sample to 290.0'. 312.5-327.5', pinkish cast. Stronger iron staining.
330.0'	400.0'	Limestone (?) tan to brown, hard. Fines fizz violently, large chips only when ground. Possibly dolomite, although rock has some appearance of fine-grained rhyolite. Iron stained, 352.5-360.0' about 40% light gray limestone (?) with some pyrite or marcasite, also at 365.0-372.5', 380.0-382.5'.

From	To	
400.0'	425.0'	Limestone, light gray, hard. Rare pyrite. Some soft greenish clay, rare calcite.
425.0'	445.0'	Like 330.0-400.0', slightly browner.
445.0'		Bottom.

Telephone 363-3302

Ha[illegible] Sample Serial 28147-52

ASSAY REPORT

U[illegible]ON ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

Sept. 21, 1964

RESULTS PER TON OF 2000 POUNDS

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Hole B-6											
0-5	Trace	None									
5-10	Trace	0.1									
10-15	Trace	None									
15-20	Trace	None									
20-25	Trace	0.1									
25-30	0.005	None									

Remarks Lewistown, Montana samples.

Charges $ 15.00

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 28664-90

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wgt on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
B-6											
30-35	Trace	None									
35-40	Trace	None									
40-45	Trace	None									
45-50	Trace	None									
50-55	Trace	None									
55-60	Trace	0.1									
60-65	0.005	None									
65-70	Trace	0.2									
70-75	Trace	None									
75-80	Trace	None									
80-85	0.005	None									
85-90	Trace	None									
90-92.5	Trace	None									
97.5-100	Trace	None									
100-105	Trace	None									
105-110	Trace	None									
110-115	Trace	None									
115-120	Trace	None									
120-125	Trace	None									
125-130	Trace	None									
130-135	Trace	None									
135-140	Trace	None									
140-145	Trace	None									
145-150	Trace	None									
150-155	Trace	None									
155-160	Trace	None									
160-165	Trace	None									

Remarks

Charges $ 67.50

Sample Serial 28691-28717

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

ASSAY REPORT
UNION ASSAY OFFICE, Inc

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent
B-6										
165-170	Trace	None								
170-175	Trace	None								
175-180	Trace	None								
180-185	Trace	None								
185-190	0.005	None								
190-195	0.005	None								
195-200	0.005	None								
200-205	Trace	None								
205-210	Trace	None								
210-215	0.005	None								
215-220	Trace	None								
220-225	Trace	None								
225-230	0.005	None								
230-235	Trace	None								
235-240	0.010	0.1								
240-245	Trace	None								
245-250	Trace	0.1								
250-255	Trace	None								
255-260	Trace	0.1								
260-265	Trace	None								
265-270	Trace	None								
270-275	Trace	None								
275-280	Trace	None								
280-285	Trace	None								
285-290	Trace	None								
290-295	Trace	None								
295-300	Trace	None								

Remarks

Charges $ 67.50

Glen P. Williams

Telephone EMpire 3-3302

Hand Sample Serial ....28718-28746.

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
W. C. WANLASS, Vice-Pres. & Treas.
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City 10, Utah

Mine Vitro Minerals Corp.
600 West 3300 South
Salt Lake City, Utah

RESULTS PER TON OF 2000 POUNDS

Sept. 24, 1964

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cen
B-6											
300-305	Trace	None									
305-310	0.005	0.1									
310-315	Trace	None									
315-320	Trace	None									
320-325	Trace	None									
325-330	Trace	None									
330-335	Trace	None									
335-340	Trace	None									
340-345	Trace	None									
345-350	Trace	None									
350-355	Trace	None									
355-360-	Trace	None									
360-365	Trace	None									
365-370	Trace	None									
370-375	Trace	None									
375-380	Trace	None									
380-385	Trace	None									
385-390	Trace	0.1									
390-395	Trace	0.1									
395-400	Trace	None									
400-405	Trace	None									
405-410	Trace	None									
410-415	Trace	None									
415-420	Trace	None									
420-425	Trace	None									
425-430	Trace	None									
430-435	Trace	None									
435-440	0.005	None									
440-445	Trace	None									

Remarks.....

Charges $...72.50.....

Glen F. Williams

JUN 25 1965

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

Re: OME-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2193

Dear Mr. Hotchkiss:

I regret that our check in settlement of the Government's participation in exploration costs under the subject contract was for $6,979.88 instead of $7,172.38 as provided by our Report of Review referred to in your letter dated June 21, 1965.

A supplemental check for the difference, $192.50, will be forwarded to your company within a few days.

Sincerely yours,

George Fumich, Jr.

Acting Director

CEFisher:cc rewritten 6/24/65

cc: Fiscal w/c letr 6/21/65
Region I w/c letr 6/21/65
Director's reading file
CA & A Division
120M

MME Form-14
March 1961

No. 2202

Contract No. Idm-E) 14-23) 2193

Docket No. DMEA) MME) 6349

Date of Action ~~May 10, 1965~~ Terminated Contract

DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OBLIGATION DOCUMENT

To: Chief, Fiscal Section, Office of the Secretary

From: Chief, Division of Administrative Management

Please enter the amounts shown below on the accounts of the Office of Minerals Exploration.

Name and Address of Contractor:

Vitro Minerals Corporation
90 Park Avenue
New York, N. Y. 10016

Date of Contract	Region	State	Commodity
July 20, 1964	I	Montana	Gold-Silver
	Reserve		Obligation
Prior Amount	0		$46,870.00
Increase	0		00
Decrease	~~0~~		~~39,697.62~~
Revised Amount	0		07,172.38

Remarks:

cc: 110
800
210

88995-61

MAY 13 1965

Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Re: OGR-6349 (Gold-Silver)
Vitro Minerals Corporation
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2193

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 OGR exploration program.

Sincerely yours,

George Fumich, Jr.

Acting Director

MMerrithew/mm (5/13/65)
cc: Director's Reading File
Region I
✓CA&A Div.
Docket Code 500
Mr. Joseph Nordquist, 435 So. High St., Lewistown, Mont.
Mrs. Ruth Kelly Hoffman, P.O. Box 534, Lewistown, Mont.
Mr. and Mrs. Henry J. Pitt, Lewistown, Mont.
Mr. and Mrs. Granville S. Abbott, Gilt Edge Route, Lewiston, Mont.

So. 157 Howard Street
Spokane, Washington 99204
October 20, 1964

EXTRA COPY
O. M. F.
RECEIVED OCT 22 1964
DATE
10/22 | [illegible] | [illegible]

Air Mail

Mr. Cecil H. Smith
Exploration Manager
Vitro Minerals Corporation
600 W. 338 South Street
P. O. Box 15437
Salt Lake City, Utah 84119

Re: Work Authorization
OME-6349 (Gold-Silver)
Bete-Nappe Claims and Leased Properties
Fergus County, Montana
Contract 2195

Dear Mr. Smith:

This refers to your letter of October 1, 1964, letters from Ben F. Dickerson dated September 28 and October 12, 1964. The first two letters we discussed by telephone earlier in the month. At that time I gave oral authorization to drill the two holes as requested in your letter providing we received the logs and assays of all holes completed to date. We have received the data and this letter will confirm authorization to drill the two holes which you requested near Tunnel M-5.

The assays of samples B and D from the tunnel, the arsenic anomalies to the north (if they are to mean anything as a guide to gold) and the porphyry-limestone contacts indicated in the tunnel would appear to combine all the known or suspected elements that might relate to gold deposition. If neither of these holes indicate gold values better than those found in the first six holes, something other than arsenic anomalies and porphyry-limestone contacts will have to be hypothecated before I can justify any more work with OME assistance.

I regret the necessity of withholding approval of the three holes requested by Ben until the results of the above-authorized holes become available and sincerely hope the results will be most encouraging.

Sincerely yours,

D. A. MacLaren
Acting Field Officer, OME
Region I

cc: Ben F. Dickerson
Project Geologist
Lewistown, Montana

Director's Reading File
Resources Research Branch Chief

DAMacLaren:mls
cc: OME(2)
Voucher file
MacLaren

Audit's Copy

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OMR-6349

AMENDMENT NO. 1

It is agreed this 15th day of September, 1964, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter referred to as the "Government," and Vitro Minerals Corporation, hereinafter referred to as the "Operator," that Contract No. #193 (OMR-6349), dated July 20, 1964, is amended effective the date of the contract as follows:

1. In Annex I the following is added:

"By means of a Quitclaim Deed dated May 18, 1964 Vitro Minerals Corporation quitclaimed all of its right, title and interest in and to Beta Nos. 1, 3, 5, 7, 9 and 11 to Joseph Nordquist.

"Under the terms of a Lease and Option, dated May 21, 1964, Joseph Nordquist granted Vitro Minerals Corporation rights to Beta Nos. 1, 3, 5, 7, 9, and 11 claims. 1/

"A Lien or Subordination Agreement, dated May 21, 1964, executed by Joseph Nordquist is attached hereto and made part hereof."

1/ In a Declaration of Abandonment, dated May 21, 1964, Joseph Nordquist, the sole owner, relinquished all right, title, and interest in Karen Nos. 1, 2, 3, and 4 claims. These claims were in conflict with the Beta Nos. 1, 3, 5, 7, 9, and 11 claims.

2. In Exhibit A, Description of the Work, Stage I, the following paragraph is added after the third paragraph:

"With prior Government approval confirmed in writing the remaining soil samples not used at the locations described in paragraphs 1 and 2 may be used to test the possible extensions of or further define anomalies found within the soil sampling areas described above, or to further trace out or define anomalies which the Operator prior to the date of the contract may have outlined or partly outlined on the land in the contract."

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

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By George C. Selbrede
Acting Director, Office of Minerals Exploration

VITRO MINERALS CORPORATION

By Eugene B. Hotchkiss

Title Exec VP.

MME Form 5a
June, 1961

RECEIVED
AUG 7 1964
O M E
SPOKANE, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

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

LIEN OR SUBORDINATION AGREEMENT 1/

To the United States of America:

That certain land in the County of **Fergus**, State of **Montana**,

described ~~as follows~~ 2/ **in a MINING LEASE AND OPTION dated May 21, 1964 and recorded in Book 15, Pages 269 through 281, official records of said county**

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 21 day of May, 19 64.

APPLICANT SHOULD NOT SIGN

Joseph Nordquist X (Seal)	435-80 High St Lewistown Mont	(Street) (City & State)
_____ (Seal)	_____	(Street) (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)

022

EXTRA COPY O. M. E RECEIVED SEP 17 1964		
DATE	INITIALS	CODE
		800

So. 157 Howard Street
Spokane, Washington 99204
September 15, 1964

Air Mail

Mr. Cecil H Smith
Exploration Manager
Vitro Minerals Corporation
600 W. 53d South Street
P. O Box 15437
Salt Lake City, Utah 84115

Re: Work Authorization
OME-6349 (Gold-Silver)
Beta-Kappa Claims & Leased Properties
Fergus County, Montana
Contract 2195

Dear Mr. Smith:

As requested in a Narrative Report dated September 10, 1964, authorization is herewith given to drill three additional holes under Stage II approximately located as follows:

B-4	859508	76815E
B-5	859908	76650E
B-6	864708	76055E

If the results obtained by these holes are not more encouraging than those obtained by the three already drilled, it is suggested that a reappraisal of the project be made to determine how best to locate additional holes. Hole B-1, while not in an area of particularly strong arsenic anomaly, is near the best trench showing. Holes B-2, B-3, and the three holes now authorized have tested or will test most of the better anomalous areas, near known igneous contacts and/or near areas of former production. The best showings in B-2 are 0.005 ounce per ton of gold or about 1/100th of minimum ore grade of 0.5 ounce gold per ton; in B-3 from 110 to 175 feet is a 65-foot zone with an average grade of 0.0126, say 0.013 ounce gold per ton orabout 1/38th of minimum ore grade. Holes B-4 and B-5, near known contacts, high arsenic anomalies, and areas of forwar production may give a clue as to what combination of factors will justify further Stage II drilling.

Possibly 1 or 2 Stage III offset holes south and west of B-3 might be justified, but it will be better to await for the results from the 3 additional holes before deciding this.

Sincerely yours,

D. R. MacLaren
Acting Field Officer, OME

DRMacLaren:mls cc: OME(2) Director's Reading File
Voucher file Resources Research Branch Chief
MacLaren

O Mine

EXTRA COPY O. M. E RECEIVED AUG 31 1964		
DATE	INITIALS	CODE
		800

No. 157 Howard Street
Spokane, Washington 99204
August 27, 1964

Air Mail

Mr Cecil H Smith
Exploration Manager
Vitro Minerals Corporation
600 W 3rd South Street
P O Box 15457
Salt Lake City, Utah 84115

Work Authorization
Re: OMC-6349 (Gold-Silver)
Beta-Kappa Claims and Leased Properties
Fergus County, Montana
Contract 2193

Dear Mr. Smith:

This will confirm the provisional authorization given during our telephone conversation of August 12, 1964, to take up to 60 soil samples on Beta 4 and 6 claims to test the northeasterly extension of the arsenic anomaly found on Beta 4 claim. This authorization does not increase the number of soil samples provided for in Stage I of the contract.

Also confirmed is the provisional authorization given at that time to bulldoze 12 trenches at the approximate locations indicated on the base maps submitted with your letter of July 31, 1964.

With an undated letter, received August 18, 1964, Ben F. Dickerson, Project Geologist, enclosed four sketches on which he showed the results of the trenches completed to date. The sketches are labeled: South Extension, South Show, Southeast Anomaly, and Big Six Mine. On each of the 2 last named sketches a proposed drilling site is indicated and on the South Show, 2 proposed sites are shown about 75 feet apart. Only the South Show trench included assays. However, I have just talked to Ben on the telephone and he was able to give me assays of 2 samples from the Big Six trench and 2 from the Southeast Anomaly trench.

As Stage III provides for offset drilling dependent upon Stage II drilling and specifies that no hole be drilled closer than 100 feet to another, only one of the holes indicated in the South Show area can now be authorized.

Authorization is herewith given to drill three holes located approximately at coordinates:

South Show	81,370E	75170E
Southeast Anomaly	81,900E	76840E
Big Six Mine	83,250E	76060E

In his letter Mr. Dickerson requested authorization to do some additional soil sampling in the area Beta 28-45 to Beta 38-40, and asked that authorization be given to voucher geochemical assaying costs at $1 50 per sample for samples taken from the same area prior to receipt of the contract but not assayed until after the contract became effective. I explained to him that as this is in an area not included in the Stage I specifications the matter will have to be referred to OME in Washington, D. C., which I will do.

Sincerely yours,

D. R. MacLaren
Acting Field Officer, OME
Region I

cc: Ben F. Dickerson
Project Geologist
Vitro Minerals Corp.
B & B Motel
Lewistown, Montana

OME(2)
Voucher file
MacLaren

Director's Reading File
Resources Research Branch Chief

DRMacLaren:mls

MME Form 14
March 1961

Contract No. Idm-E) 14-23) 2193

No. 297

Docket No. DMEA) MME) 6349

Date of Action ~~July 22, 1964~~ Executed contract

DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OBLIGATION DOCUMENT

To: Chief, Fiscal Section, Office of the Secretary

From: Chief, Division of Administrative Management

Please enter the amounts shown below on the accounts of the Office of Minerals Exploration.

Name and Address of Contractor:

Vitro Minerals Corporation
90 Park Avenue,
New York, N. Y. 10016

Date of Contract	Region	State	Commodity
July 20, 1964	**I**	**Montana**	**Gold-Silver**

	Reserve	Obligation
Prior Amount	**$46,870.00**	**0**
Increase	**0**	**$46,870.00**
Decrease	~~46,870.00~~	**0**
Revised Amount	**0**	**$46,870.00**

Remarks:

6½% interest

cc: 110
800 ✓
210

88995-61

Audit's Copy

MME Form 50
June 1963

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

EXPLORATION CONTRACT
(Long Form)

Docket No.	Commodity	Contract No.	County	State
OME -6349	Gold-Silver	14-23-090- 2193	Fergus	Montana

It is agreed JUL 20 1964 (Date), between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and

Vitro Minerals Corporation, a Delaware corporation

whose mailing address is 90 Park Avenue, New York, N. Y. 10016, 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 Sept. 15, 1964 (Date), and, subject to the provisions of Article 9 and Exhibit A, shall either have completed the work within 12 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 $93,740.00. The Government will contribute 50 percent of the allowable costs as they are incurred, in a total sum not in excess of $46,870.00 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 6-¼ 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 rights 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:

See 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:

See 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 certicifation 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. **See Article 16**

(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 contrued 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, Office of Minerals Exploration, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Operator. The decision of the Director, Office of Minerals Exploration, 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, Office of Minerals Exploration, 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, Office of Minerals Exploration," 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 Office of Minerals Exploration 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 provisions.--

The royalty period in Article 7(b)(2) is extended to 15 years.

Executed in quintuplicate the day and year first above written.

VITRO MINERALS CORPORATION
(Operator)

By Eugene B. Hotchkiss

Ex. VP.

Title

THE UNITED STATES OF AMERICA

By George Turnbull

I, William H. Denne, Jr. (Name), certify that I am the

---

secretary of the corporation named as Operator herein; that

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

Executive Vice President (Title) of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

William H. Denne

[CORPORATE SEAL]

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OMS-6349

ANNEX I

The land referred to in Article 2 of the contract consists of nine (9) patented lode claims, ninety-one (91) unpatented lode mining claims, and seven (7) lots of fee land comprising approximately 132 acres. The unpatented claims are recorded in the Records of Fergus County, Lewistown, Montana. Data relating to all claims and fee land are as follows:

Unpatented lode claims owned by Operator by right of location

Beta Nos. 1 through 62, in secs. 18, 19, 20, 29, 30, and 31, T. 16 N., R. 20 E., PMM. Recorded in Lode Book 15, pages 37 through 160.

Kappa Nos. 1 through 24, in sec. 8, T. 16 N., R. 20 E., PMM. Recorded in Lode Book 15, pages 161 through 208.

Leased Claims and Fee Land

Hoffman Property

In a Mining Lease and Option dated November 16, 1963, Ruth Kelly Hoffman, individually and as natural guardian of Larry C. Hoffman, and Larry C. Hoffman in his own right granted mining rights to the Operator covering the Prester John unpatented lode mining claim in the NE¼ of the SW¼ of sec. 30, T. 16 N., R. 20 E., PMM. The claim which covers the old Whiskey Gulch Mine is recorded in Lode Book 14, page 517.

A Lien and Subordination Agreements executed by Ruth Kelly Hoffman and Larry C. Hoffman is attached hereto and made part hereof.

Pitt Property

In a Mining Lease and Option dated December 18, 1963, Henry J. Pitt and his wife, Florence G. Pitt, granted mining rights to the Operator covering the following four (4) unpatented lode mining claims and four (4) lots of fee land:

nx claim in the NE¼ of sec. 18, T. 16 N., R. 20 E., PMM, Recorded in ook 15, page 218.

Mecca claim in the SE¼ of sec. 7, T. 16 N., R. 20 E., PMM. Recorded Lode Book 15, page 216.

Monte Nos. 1 and 2 claims in the N½ of sec. 18, T. 16 N., R. 20 E., PMM. Recorded in Lode Book 15, pages 212 and 214, respectively.

The fee land consists of Lots 2, 3, 6, and 7 in sec. 17, T. 16 N., R. 20 E., PMM.

A Lien and Subordination Agreements executed by Henry J. Pitt and Florence G. Pitt is attached hereto and made part hereof.

Abbott Property

In a Mining Lease and Option dated October 23, 1963, as amended December 18, 1963, Granville S. Abbott and his wife, Addie Abbott, granted mining rights to the Operator covering the following nine (9) patented claims and three lots of fee land:

Patented claims in secs. 8 and 17, T. 16 N., R. 20 E., PMM:

Name of Claim	Mineral Survey Number
Goodwin	6451
Goodwin No. 2	8791 A
Aurora	8908
Night Owl	8908
Hawkeye	7410
Mammoth	7411
Mammoth Fraction	7412
Wickett	7413
19th Century	7414

The fee land consists of Lots 9, 10, and 11, in sec. 17, T. 16 N., R. 20 E., PMM, except that portion of Lots 10 and 11 described in a conveyance from Florence G. Gilmore to Gilt Edge Mining Corporation in a Warranty Deed dated June 26, 1939, recorded in Book 137 of Deeds, page 59, Document No. 17671.

A Lien and Subordination Agreements executed by Granville H. Abbott and Addie Abbott is attached hereto and made part hereof.

The outer boundaries of the claims and claim groups and fee land are shown in green on Fig. 1 entitled "Claim Overlay Map, T. 16 N., R. 20 E., Fergus Co. Montana . . .," attached hereto and made part hereof.

Claims not controlled by the Operator but which lie within the claim groups are shown in yellow.

Because of prior possession by other owners, not all of the Kappa and Beta claims contain a full 20 acres. The individual acreage of each claim controlled by the Operator is approximately indicated on Fig. 1.

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 –	2193
Contract Date	JUL 2 0 1964

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of **Fergus**, State of **Montana**, described [2] **NOTICE OF in a MINING LEASE AND OPTION dated November 16, 1963 and recorded in Book 15, pages 221 and 222, official records of said county**

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 ____ day of ____April____, 19____64____.

	P. O. Box 534	(Street)
		(City &)
Ruth Kelly Hoffman (Seal)	Lewistown, Montana	(State)
RUTH KELLY HOFFMAN		
	same	(Street)
		(City &)
Larry C. Hoffman (Seal)		(State)
LARRY C. HOFFMAN		
		(Street)
		(City &)
(Seal)		(State)
		(Street)
		(City &)
(Seal)		(State)
		(Street)
		(City &)
(Seal)		(State)
		(Street)
		(City &)
(Seal)		(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)

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 – 2193
Contract Date JUL 20 1964

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Fergus, State of Montana,

described ~~[illegible]~~[2] in a MINING LEASE AND OPTION dated December 18, 1963, and recorded in Book 15, pages 223 through 237, official records of said county

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 6 day of April, 1964.

Henry J Pitt	(Seal)	____ (Street)	
HENRY J. PITT		Lewistown, Montana (City & State)	
Florence G. Pitt	(Seal)	____ (Street)	
FLORENCE G. PITT		same (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)

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 –	2193
Contract Date	JUL 20 1964

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Fergus, State of Montana,

described ~~as follows~~:[2] in a MINING LEASE AND OPTION dated October 23, 1963 and recorded in Book 31, pages 487 through 501, official records of said county

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 8 day of April, 1964.

Granville S. Abbott (Seal)	Gilt Edge Route	(Street)
	Lewistown, Montana	(City & State)
GRANVILLE S. ABBOTT		
	same	(Street)
Addie Abbott (Seal)		(City & State)
ADDIE ABBOTT		
		(Street)
(Seal)		(City & State)
		(Street)
(Seal)		(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)

EXPLORATION CONTRACT
VITRO MINERALS CORPORATION
OME-6349

EXHIBIT A

The purpose of this project is to explore by soil sampling, bulldozing trenches, rotary and/or down-the-hole percussion drilling for gold and silver-bearing ore bodies occurring as breccia-filled fissure veins or as replacement deposits in limestone or porphyry at the contact or adjacent thereto between Madison limestone of Mississippian age and syenite porphyry of Eocene age.

General Provisions

Soil samples shall be split and one split of each shall be sent to a commercial assayer to be tested for its parts per million arsenic content.

A D-8 or D-7 Caterpillar dozer or equivalent unit of any other make shall be used to bulldoze the trenches, access roads, and drill sites.

All significantly mineralized areas exposed in the trenches shall be sampled by cutting channels at intervals of not more than 10 feet. Each sample shall be split as necessary and one split assayed for gold and silver.

Holes shall have not less than a 4-inch diameter and may be drilled by either rotary or percussion methods. Holes encountering a lower-porphyry-limestone contact shall be continued, if possible, to at least 50 feet below the contact.

During rotary and/or down-the-hole percussion drilling, samples of the cuttings shall be recovered at 5-foot intervals with a cyclone sample collector. Samples showing mineralization shall be split as necessary and one split assayed for gold and silver.

The Operator shall store one split of each sample from whatever source in a suitable container properly identified as to the location where the sample was obtained. The stored samples shall be made available for Government inspection and possible use. With prior Government approval, the Operator may dispose of the stored samples.

True copies of assay certificates of all samples shall be submitted with the Operator's monthly reports, which shall also include maps or sketches showing the work completed during the reporting period. The maps shall show the location and p.p.m. analyses of soil samples and the geological formations and structures traversed by the trenches and drill holes and the location and values of the samples.

No work under this contract shall be performed at locations closer than 200 feet to the outer boundaries of the property under this contract.

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

The Operator shall provide such supervisory and technical services as may be required to complete the work in a satisfactory manner.

The work shall be divided into three stages. The Operator shall complete all of the soil sampling in Stage I and as much of the trench work therein as is authorized by the Government and confirmed in writing. Approval of Stages II and III shall be dependent upon favorable results having been obtained in the preceding stage and shall have the prior authorization of the Government confirmed in writing. Thereafter, the Operator shall complete as much work under each stage as is approved by the Government.

Description of the Work

Stage I

On the Beta claims establish a base line not less than 300 feet north of and parallel to the south side lines of Beta 1 and Beta 2 claims. At intervals of 150 feet northerly, establish 50 parallel auxiliary base lines. Along each base line establish soil sampling stations at 100-foot intervals. The base lines are indicated in red and the stations in black on Plate 1 entitled "Claim Map . . . Locations of Recommended Soil Sampling Stations . . . Beta Claim Group," attached hereto and made a part hereof.

On the Kappa claims establish a base line about 50 feet north of and parallel to the north side lines of Kappa 5 and Kappa 6 claims. At intervals of 150 feet establish 21 parallel auxiliary base lines to the north and 22 lines to the south. Along each base line establish soil sampling stations at 100-foot intervals. The base lines are indicated in red and the stations in black on Plate 2 entitled "Claim Map . . . Locations of Recommended Soil Sampling Stations . . . Kappa et al., Claims," attached hereto and made a part hereof.

Soil samples shall be taken at each sample station. However, as work progresses, assay results may indicate areas in which soil sampling can be omitted along parts of 1 or 2 consecutive lines. In such cases these parts of lines need not be sampled.

Certain anomalous areas indicated by soil sampling shall be explored by bulldozer trenching.

Stage II

Access roads shall be bulldozed and drill sites leveled in favorable areas indicated by the Stage I work. From these sites, a maximum of 15 holes shall be drilled. It is estimated that the holes will have an average length of 300 feet or an aggregate of 4,500 feet of drilling. No hole drilled shall be closer than 200 feet to any other hole drilled under this Stage II of the contract.

Stage III

Possible ore grade holes depending on the type of deposit indicated by the Stage II drilling may be checked by drilling additional holes on not closer than 100-foot centers. Not more than 66 holes shall be drilled for an aggregate of not more than 20,000 feet of drilling under this Stage III of the contract.

Access roads may be bulldozed and drill sites leveled if necessary under this Stage III with a maximum of 50 hours of dozer work with a D-8 or 58.8 hours with a D-7.

Estimated Costs of the Work

Stage I

Actual Costs

Category (1) Independent Contracts

Bulldozing trenches	$ 2,000.00	
D-8 Caterpillar dozer, 100 hrs. @ $20.00/hr.		
D-7 Caterpillar dozer, 117 hrs. @ $17.00/hr.		$ 2,000.00
Total Estimated Actual Costs		$ 2,000.00

Fixed Unit Costs

Grid layout, soil sampling, and analysis for arsenic, 1,425 samples @ $4.00/sample	$ 5,700.00	
200 samples assayed for gold and silver @ $2.50/sample	500.00	
Total Estimated Fixed Unit Costs		$ 6,200.00
Total Estimated Costs Stage I		$ 8,200.00

Stage II

Actual Costs

Category (1) Independent Contracts

Bulldozing access roads and drill sites	$ 1,500.00	
D-8 Caterpillar dozer, 75 hrs. @$20.00/hr.		
D-7 Caterpillar dozer, 88 hrs. @ $17.00/hr.		
Mobilization and demobilization of drilling equipment and personnel	400.00	
4,500 feet of rotary or percussion drilling @ $3.00/ft.	13,500.00	$15,400.00
Total Estimated Actual Costs		$15,400.00

Fixed Unit Costs

Incidental allowance for each foot of drill hole completed, 4,500 feet @ $0.21/ft. 1/	$ 945.00	
600 samples assayed for gold and silver @ $2.50/sample	1,500.00	
Total Estimated Fixed Unit Costs		$ 2,445.00
Total Estimated Cost Stage II		$17,845.00

Stage III

Actual Costs

Category (1) Independent Contracts

Bulldozing access roads and drill sites	$ 1,000.00	
D-8 Caterpillar dozer, 50 hrs. @ $20.00/hr.		
D-7 Caterpillar dozer, 58.8 hrs. @ $17.00/hr.		
20,000 feet of rotary or percussion drilling @ $3.00/ft.	60,000.00	$61,000.00
Total Estimated Actual Costs		$61,000.00

Fixed Unit Costs

Incidental allowance for each foot of drill hole completed, 20,000 feet @ $0.21/ft. 1/	$ 4,200.00	
1,000 samples assayed for gold and silver @ $2.50/sample	$ 2,500.00	
Total Estimated Fixed Unit Costs		$ 6,700.00
Total Estimated Cost Stage III		$67,700.00

SUMMARY

Total Estimated Cost Stage I	$ 8,200.00
Total Estimated Cost Stage II	17,845.00
Total Estimated Cost Stage III	67,700.00
Total Estimated Cost of the Work (rounded)	$93,740.00
Government Participation @ 50%	$46,870.00

1/ Includes all costs whatsoever except assaying that would otherwise be allowable costs under Categories (2) through (7).

EXHIBIT B

NONDISCRIMINATION IN EMPLOYMENT

(Section 301, Executive Order 10925, March 6, 1961, as amended)

'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 non-discrimination 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 said labor union or workers' representative of the contractor's commitments under this section, 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. 10925 of March 6, 1961, as amended, and of the rules, regulations, and relevant orders of the President's Committee on Equal Employment Opportunity created thereby.

'(5) The contractor will furnish all information and reports required by Executive Order No. 10925 of March 6, 1961, as amended, and by the rules, regulations, and orders of the said Committee, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Committee 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 the said 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. 10925 of March 6, 1961, as amended, and such other sanctions may be imposed and remedies invoked as provided in the said Executive Order or by rule, regulation, or order of the President's Committee on Equal Employment Opportunity, 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 President's Committee on Equal Employment Opportunity issued pursuant to section 303 of Executive Order No. 10925 of March 6, 1961, as amended, 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.'"

MME Form 14
March 1961

Contract No. Idm-E) 14-23) 2193

No. 296

Docket No. DMEA) MME) 6349

Date of Action July 20, 1964
Approved contract

DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OBLIGATION DOCUMENT

To: Chief, Fiscal Section, Office of the Secretary

From: Chief, Division of Administrative Management

Please enter the amounts shown below on the accounts of the Office of Minerals Exploration.

Name and Address of Contractor:

Vitro Minerals Corporation
90 Park Avenue
New York, New York 10016

Date of Contract	Region	State	Commodity
July 20, 1964	II	Montana	Gold-Silver
	Reserve		Obligation
Prior Amount	0		0
Increase	$46,870.00		0
Decrease	0		0
Revised Amount	$46,870.00		0

Remarks:

6½% interest

cc: 110
800
210

88995-61

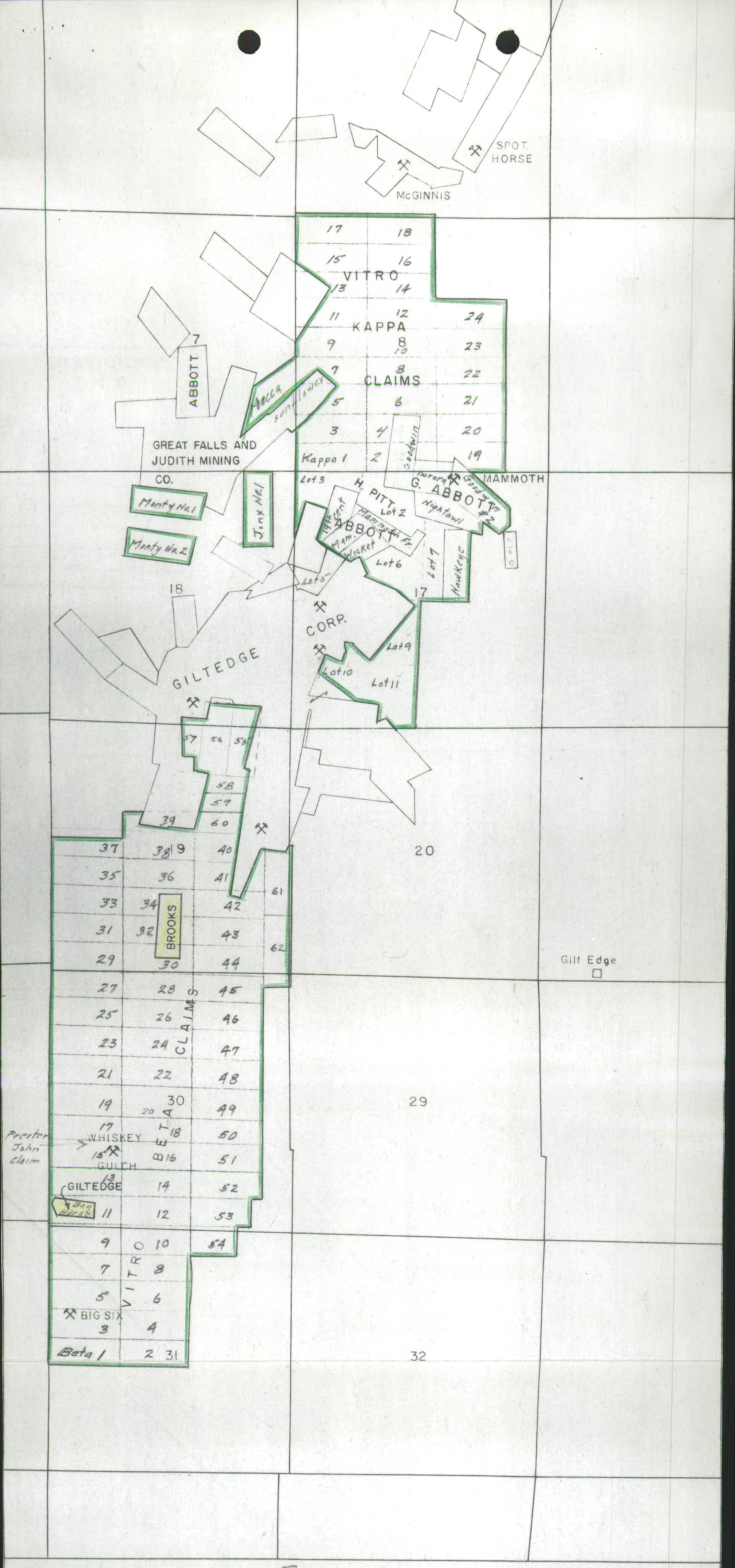


FIG-1

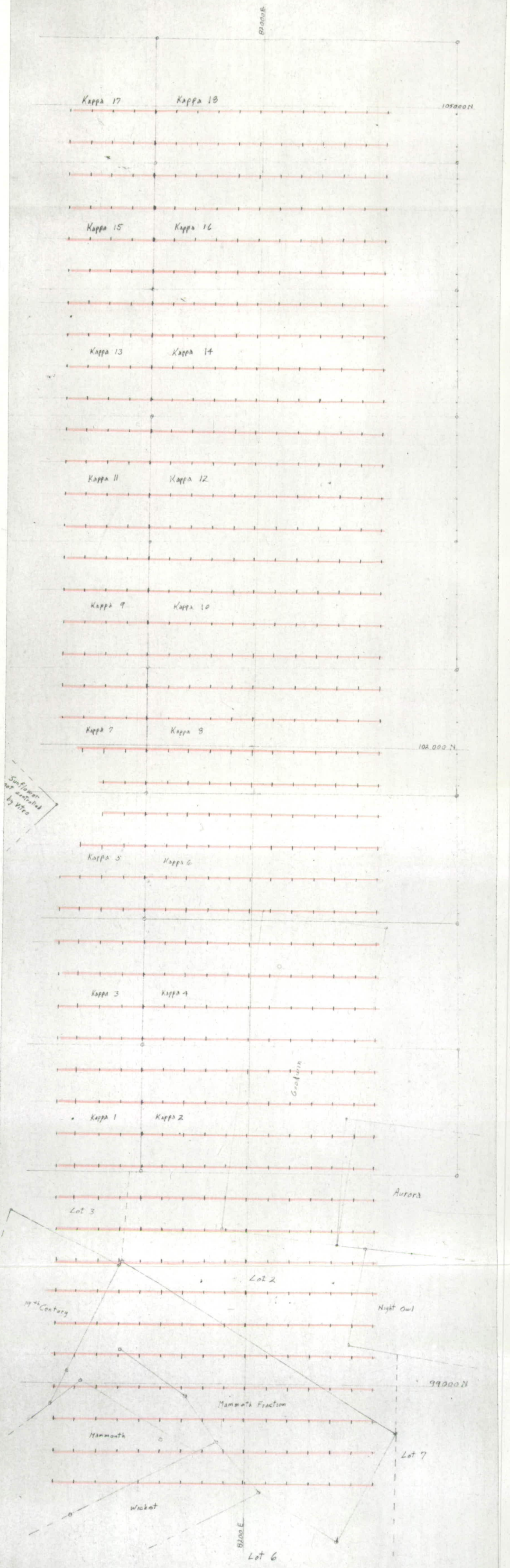
CLAIM OVERLAY MAP

T.16 N. R.20 E.

Fergus Co., Montana

VITRO MINERALS CORP.

1"=2000'



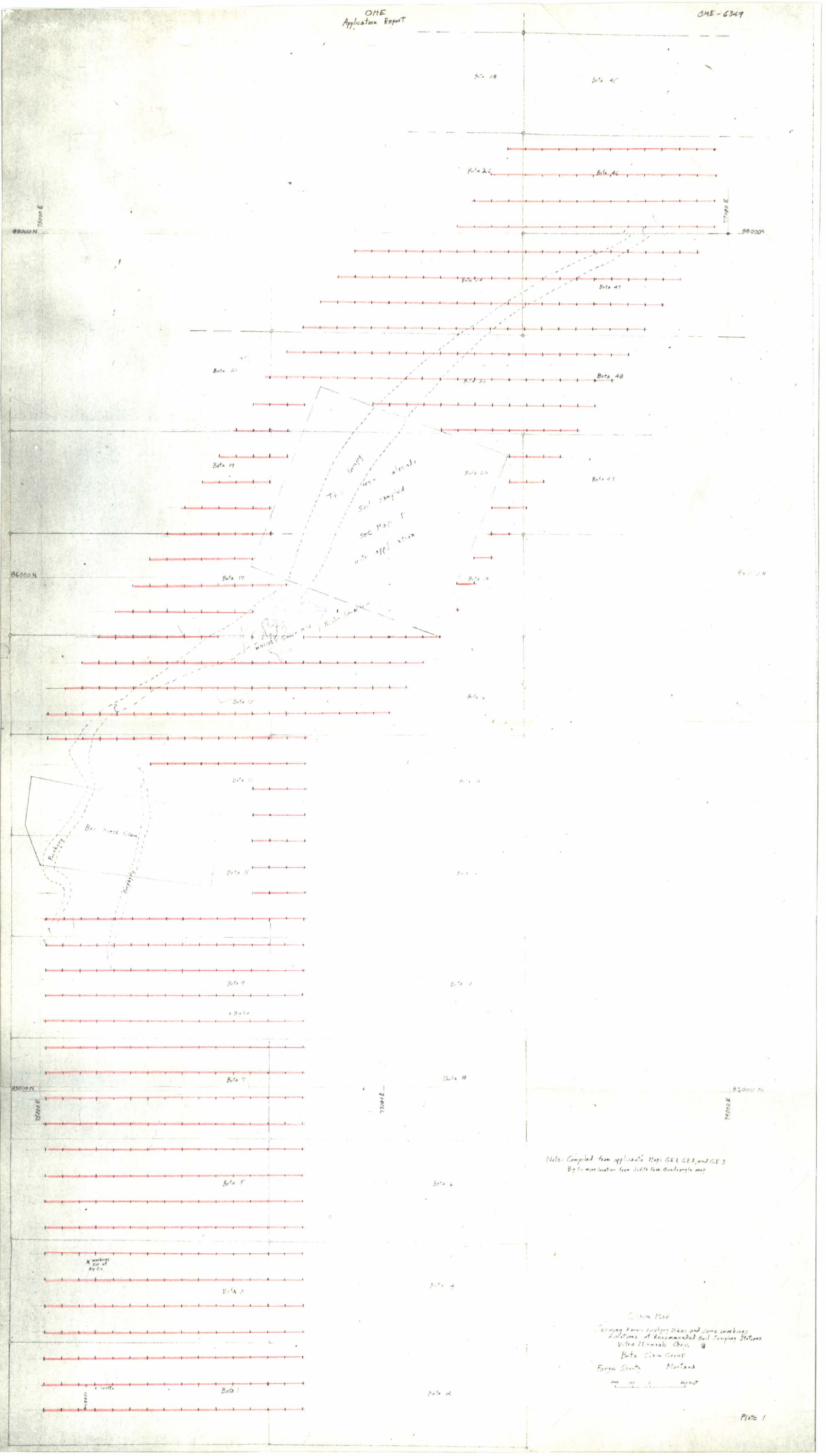
Note: Compiled from Applicant's Maps GE 5 and GE 6

Claim Map
Showing Locations of Recommended Soil Sampling Stations
Vitro Minerals Corp.
Kappa et al. Claims
Fergus County Montana
200 100 0 200 feet

Plate 2

OME
Application Report

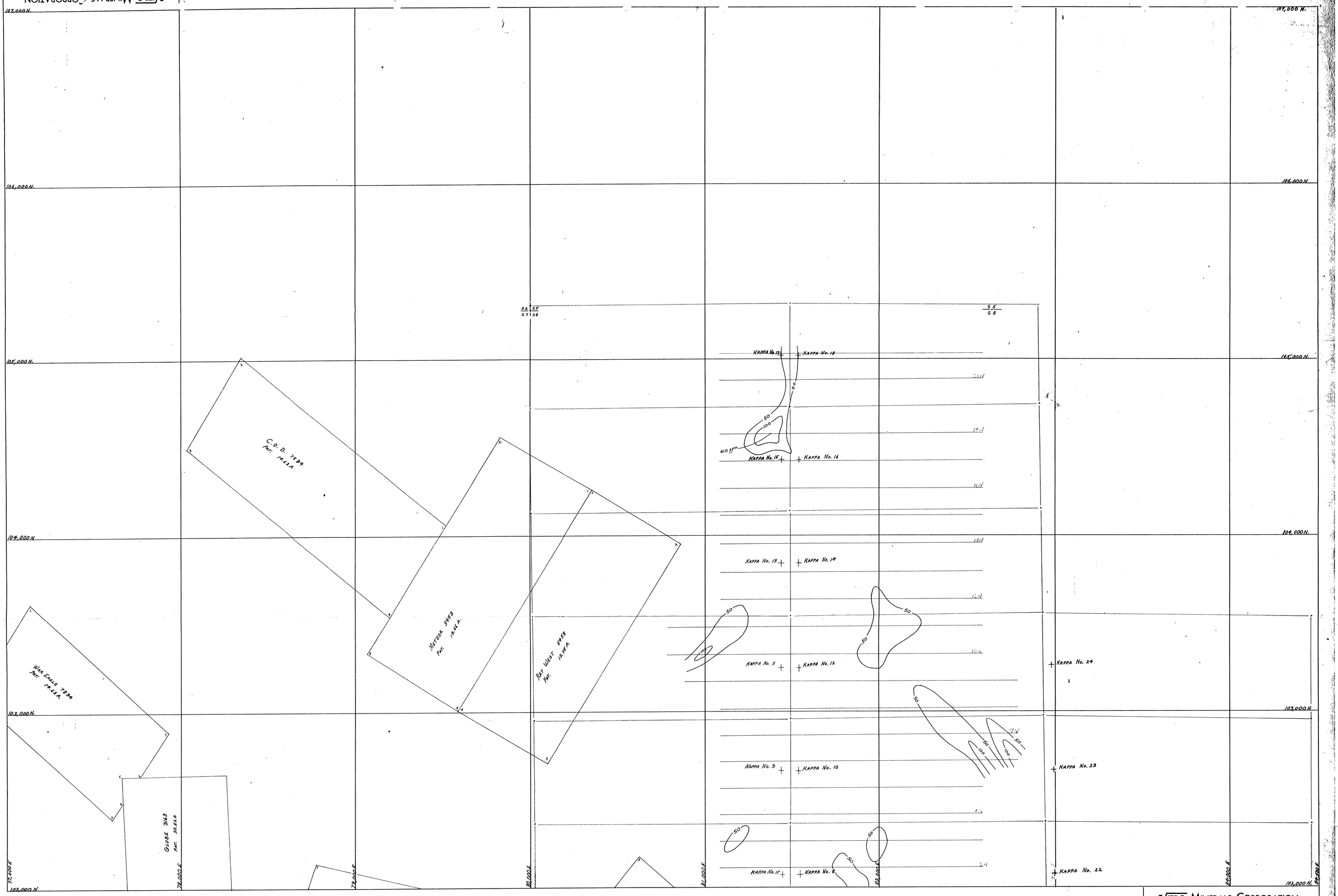
OME - 6349



Note: Compiled from applicant's Maps GE1, GE2, and GE3
Big Six mine location from Judith Peak Quadrangle map

Claim Map
Showing Known Geology, Dikes and some workings
Locations of Recommended Soil Sampling Stations
Vitro Minerals Corp.
Beta Claim Group
Fergus County Montana

Plate 1



VITRO MINERALS CORPORATION

MAP OF Soil sampling locations — Kappa Claims with Arsenic values plotted in ppm

LOCATION JUDITH MTS., FERGUS CO., MONTANA

T. 16N, R. 20E, SEC.

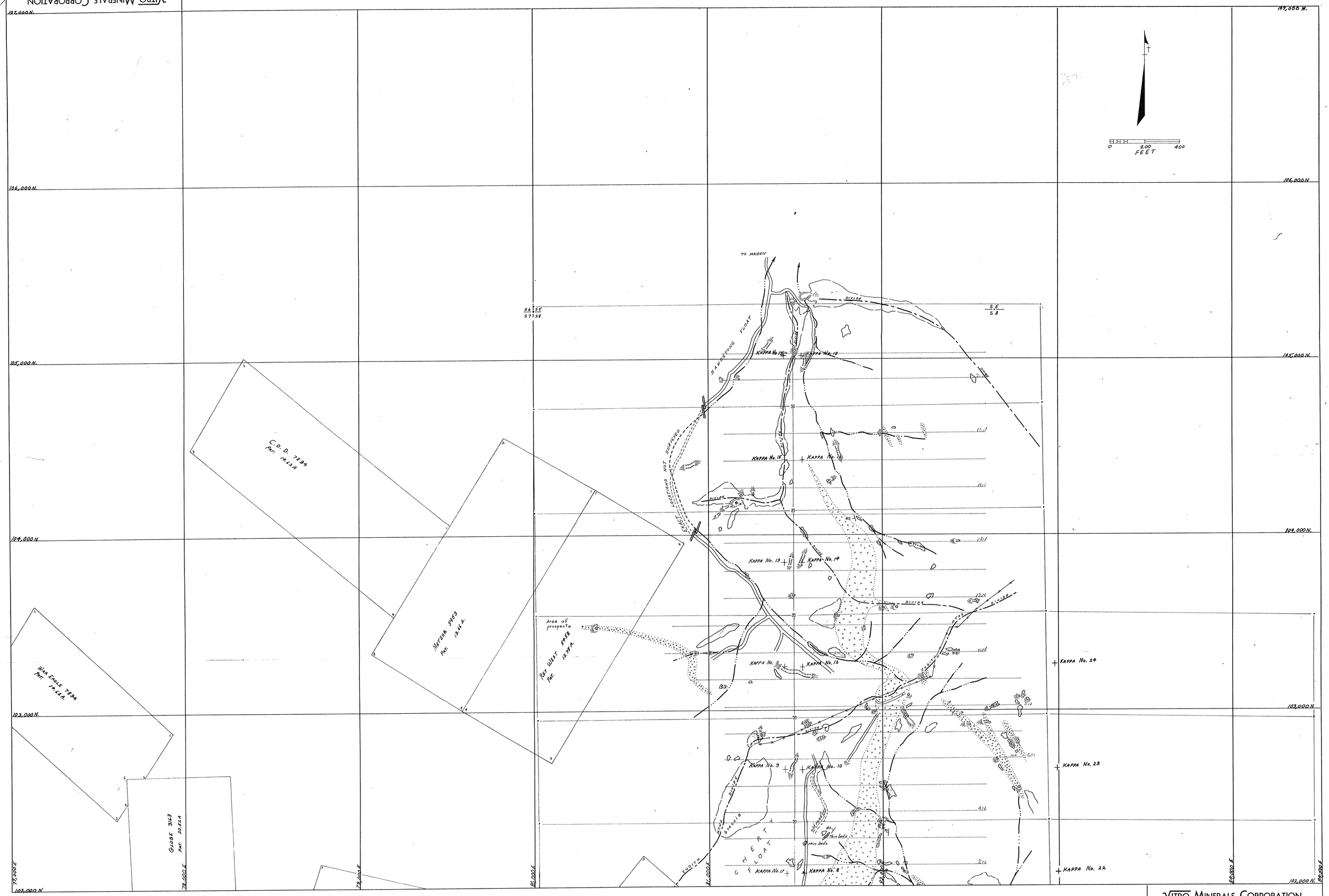
SCALE: 1" = 200' DATE: Dec 31, 1963

GEOL. DRB DRAFTED BY: RWR

ENG. TRACED BY: RB

6E 6 Overlay

VITRO MINERALS CORPORATION



Madison limestone

Syenite porphyry

VITRO MINERALS CORPORATION

MAP OF Geology & Culture — Kappa Claims

LOCATION JUDITH MTS., FERGUS CO., MONTANA

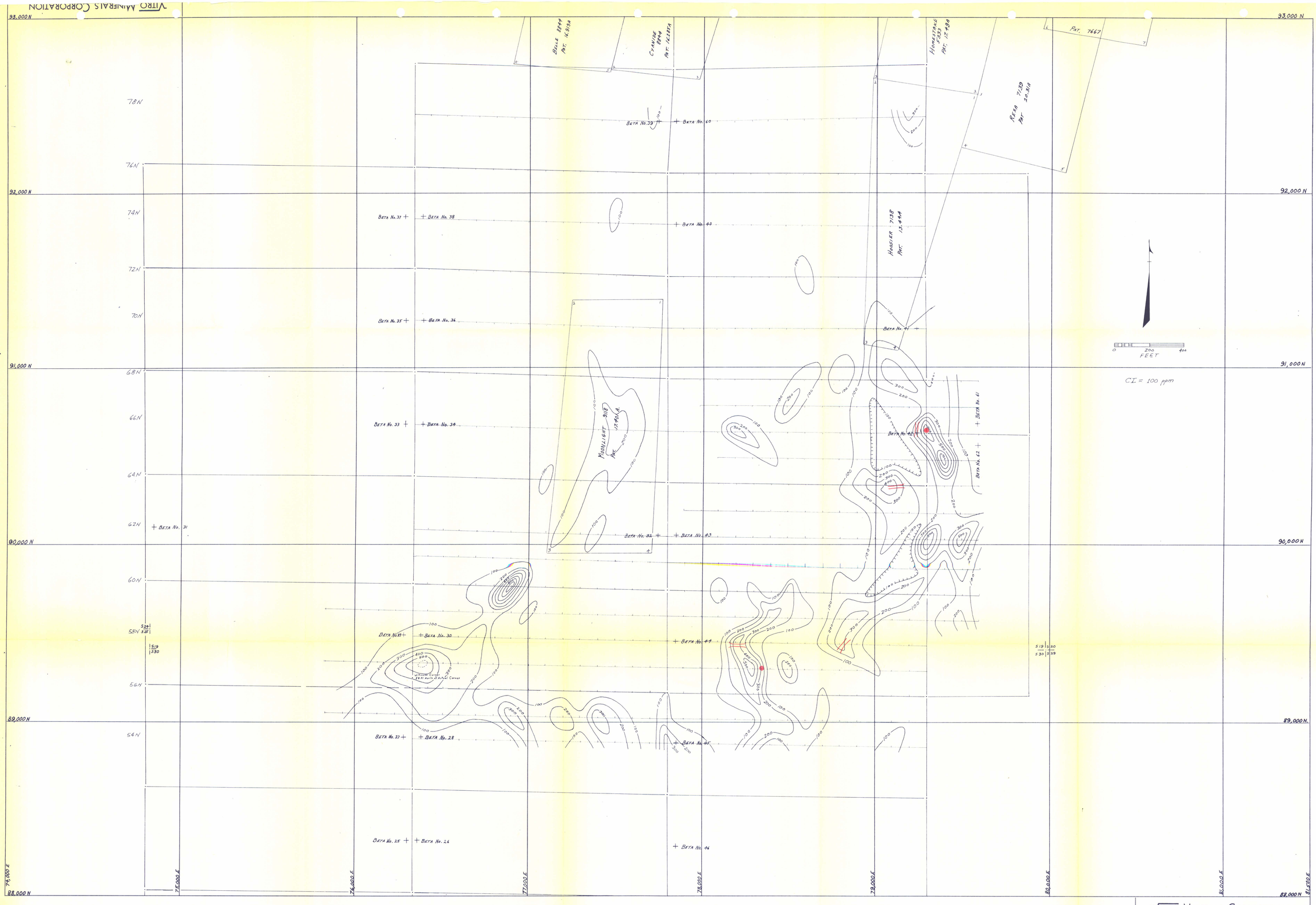
T. 16N, R. 20E, SEC.

SCALE: 1" = 200' DATE: Dec 31, 1963

GEOL. RCR DRAFTED BY: RCR

ENG. TRACED BY: RCR

GC-4



VITRO MINERALS CORPORATION

MAP OF Arsenic values plotted in ppm Soil Sampling locations — Beta Claims — Mills

LOCATION JUDITH MTS. — FERGUS CO., MONTANA

T. 16 N. R. 20 E. SEC.

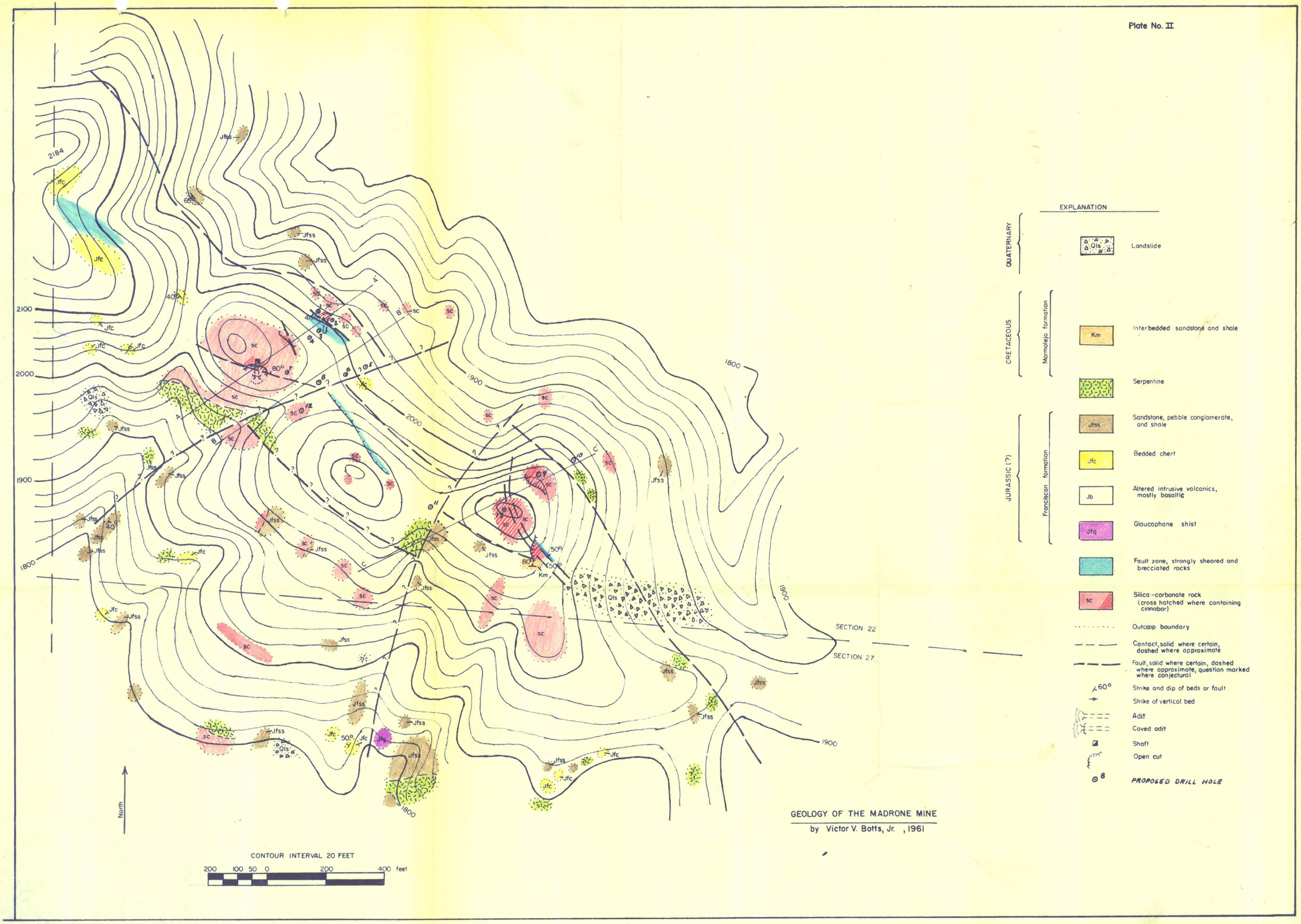
SCALE: 1" = 200' DATE: 12/20/63 (Orig.)

GEOL. DRAFTED BY: RCC

ENG. TRACED BY:

GC-1

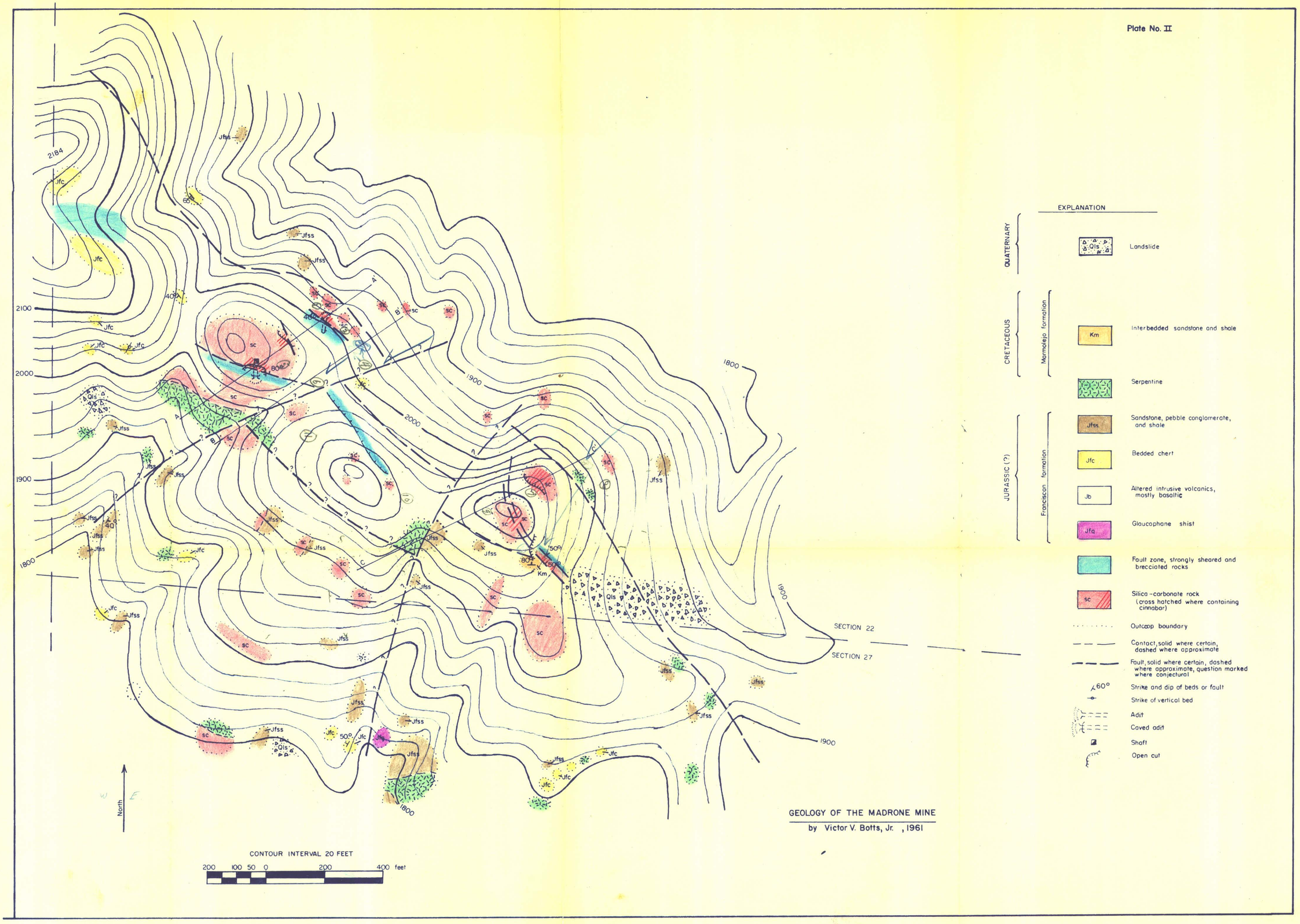
Plate No. II



GEOLOGY OF THE MADRONE MINE

by Victor V. Botts, Jr. , 1961

Plate No. II



GEOLOGY OF THE MADRONE MINE

by Victor V. Botts, Jr. , 1961