One Copies

UNITED STATES DEPARTMENT OF THE INTERIOR
Office of the Secretary

DOCUMENT FACE SHEET

Voucher No. 2013-4

2193 6/25/65
(Date Prepared)

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

Reg 1 Prepared by BHB

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		192.50	MME 297

— FINAL —

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

6349

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 29 1965
INITIALS CODE

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 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

* 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 (Authorized Certifying Officer)

Date 6/2/65 Vou. No. 1836

(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. Wachsen Title Acting Field Officer, Reg. I Date MAR 1 0 1965

Approved by OME Executive Officer or Alternate:

Signature D.R. Wachsen 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	$ 7,399.18	2231	2231	6,308.00
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	1,311.75
Stripping							
Trenching	hours		81.0	1,336.50	81.0	81.0	1,336.50
Test Pitting							
Soil Sampling	each		740	2,960.00	740	740	2,960.00
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			1,175.00
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. Invoiced 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 E. 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 D. H. Wachsen

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 and tunnels and are therefore deleted:
3014-3016 incl.
2901-2906 "
2908-2924 "
Approved herewith are:
Drill hole sample assays 434
ORE Truck " " 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 ~~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

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 3300 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**
1036 - 1	OME 6349 - COMT 2193	JULY 20, TO OCTOBER 30, 1964

EXPLANATION

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

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

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.
OMR
Spec. Del.

CHS:bas

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

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)

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
Arsenic: 27 determinations @ $1.00/each..... 27.00
Charge.....$ 47.25 — #16 — $ 47.25

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

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

Total Due.....$1569.75

245 samples 87-OME

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

~~195~~ samples #87-OME
197 samples 87

Submitted 10-15-64

Terms 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

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

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

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

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

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

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	410
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
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

James J. Johnson

Beta Area
(48 samples)

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

He 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 C
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.

Charges $ 12.50

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 26382-26406

404

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

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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
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

W. C. Wanlass

Telephone 363-3302

Send Sample Series 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
0-1	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								
3018 "	0.010	0.1	" " " " " " " "						Pit 4		
3019 "	0.005	None	Floor of trench at drill site B-3								
3020 "	0.005	None	" " " " " "						Pit 5		
3021 "	0.005	None	Trench at 85,100N 75,500E						Pit 6		

Remarks Samples from Lewistown, Montana.

Charges $ 22.50

Glen P. Williams

Telephone 363-3302

[illegible]nd Sample Serial 22657-22662

ASSAY REPORT

[illegible]NION 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 11, 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
#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.

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L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
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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. 23, 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
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

4 02

ASSAY REPORT
UNION ASSAY OFFICE, Inc.

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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 Ce
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

OMK-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

Sample Serial 28116-31

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

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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.

W. C. Wanlass

Charges $ 40.00

Telephone EMpire 3-3302

Hand
Sample Serial 28132-46

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

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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.

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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 C
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									

Remarks Levistown, Montana samples.

Charges $ 67.50

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 25848-73

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

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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 Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Ce
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									

Remarks Levistown, 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.

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.

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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									

Remarks Lonistown, Montana samples.

Charges $ 37.50

W. C. Wanlass

Telephone EMpire 3-3302

Hand Sample Serial 25889-25916

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 Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent
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

OMX-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 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									

Remarks

Charges $ 35.00

Stan Nielson

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 Cent
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

OMB-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 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.

Charges $ 67.50

W. C. Wanlass

Telephone EMpire 3-3302

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

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 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 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'.

(continued) HOLE B-6 OME-6349
Vitro Minerals Corporation

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

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

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-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

and
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 C
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

Chas. J. 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									

Remarks

Charges $ 67.50

Glenn R. 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 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											
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 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 Cent
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									

Remarks Lewistown, Montana samples.

Charges $ 42.50

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 Ce
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									

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.

15-63

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									

Telephone EMpire 3-3302

nd
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

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 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									

Telephone EMpire 3-3302

and
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									

Standard Form No. 65
November 1961
General Services Administration
General Regulation No. 27

U.S. Government Messenger Envelope

65-106

INSTRUCTIONS FOR USE

1. Void Previously Used Block
2. Identify Agency of Addressee
3. Write Clearly
4. Send Surplus Envelopes to Supply Room for Reissue

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
Room 4456	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP

Use other side

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	STOP		STOP
	STOP		STOP
	STOP		STOP
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	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP

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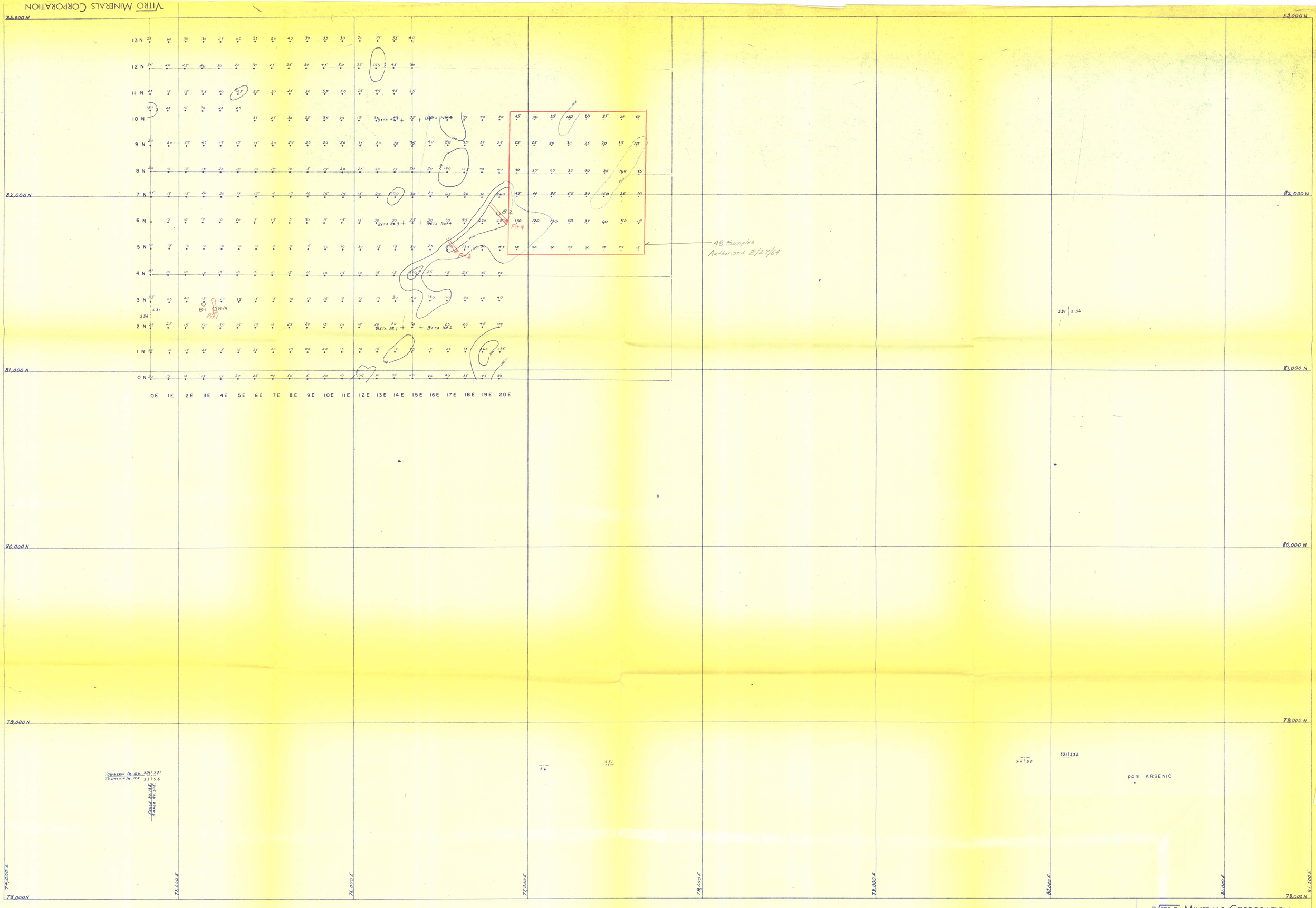

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VITRO MINERALS CORPORATION

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

LOCATION JUDITH MTS. - FERGUS CO., MONTANA

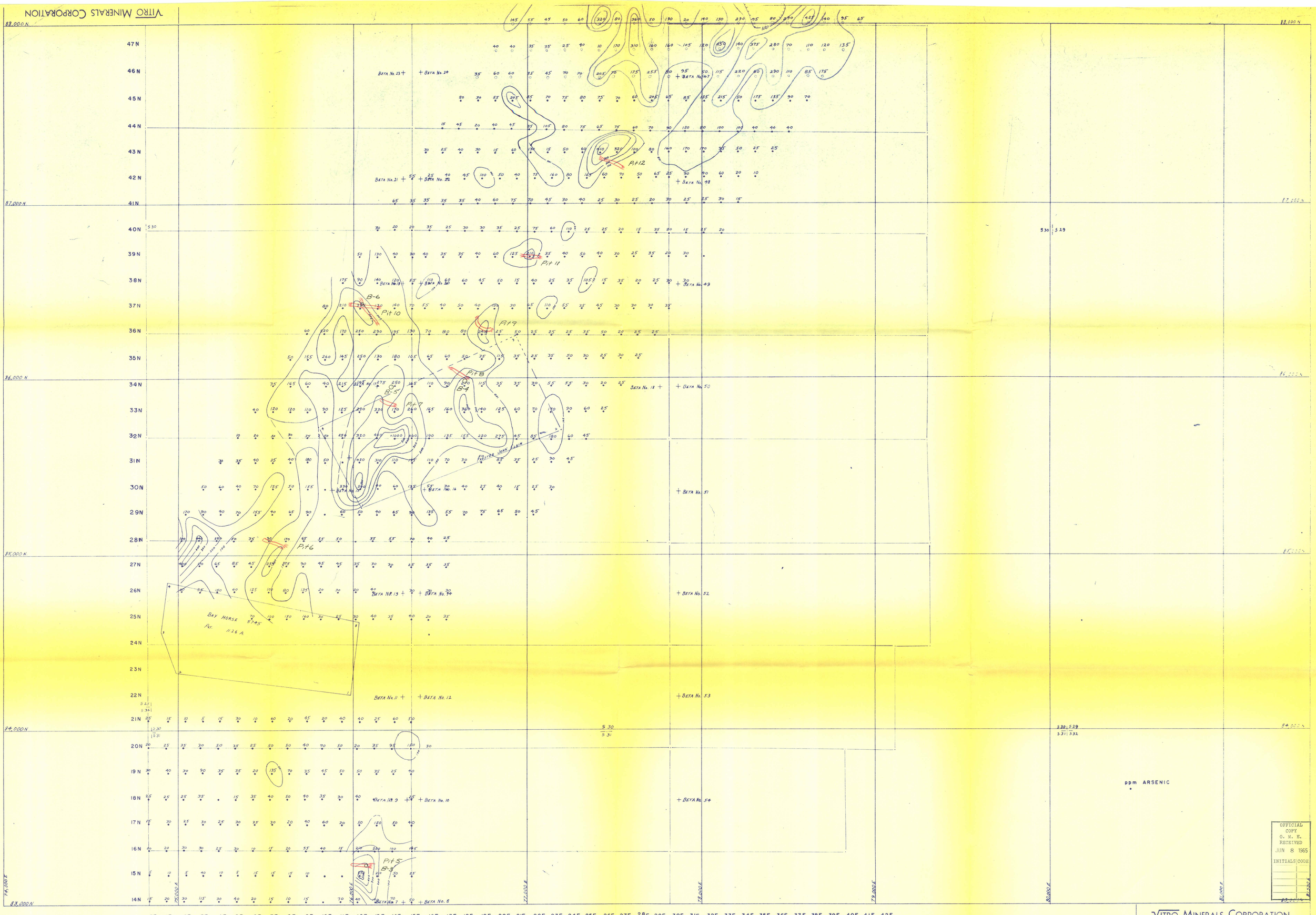
T. 16 N. R. 20 E. SEC.

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

GEOL. DRAFTED BY: TCB

ENG. TRACED BY:

GE-1 OVERLAY


VITRO MINERALS CORPORATION
88,000 N.
87,000 N.
86,000 N.
85,000 N.
84,000 N.
83,000 N.
47N
46N
45N
44N
43N
42N
41N
40N
39N
38N
37N
36N
35N
34N
33N
32N
31N
30N
29N
28N
27N
26N
25N
24N
23N
22N
21N
20N
19N
18N
17N
16N
15N
14N
0E 1E 2E 3E 4E 5E 6E 7E 8E 9E 10E 11E 12E 13E 14E 15E 16E 17E 18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E 29E 30E 31E 32E 33E 34E 35E 36E 37E 38E 39E 40E 41E 42E
BETA No. 23
BETA No. 24
BETA No. 47
BETA No. 21
BETA No. 22
BETA No. 48
Pit 12
Pit 11
BETA No. 19
BETA No. 20
BETA No. 49
B-6
Pit 10
Pit 9
Pit 8
B-5
B-4
Pit 7
BETA No. 18
BETA No. 50
BETA No. 16
BETA No. 17
BETA No. 51
Pit 6
BETA No. 13
BETA No. 14
BETA No. 52
BAY HORSE
Pat. 1126 A
BETA No. 11
BETA No. 12
BETA No. 53
BETA No. 9
BETA No. 10
BETA No. 54
Pit 5
B-3
BETA No. 7
BETA No. 8
ppm ARSENIC
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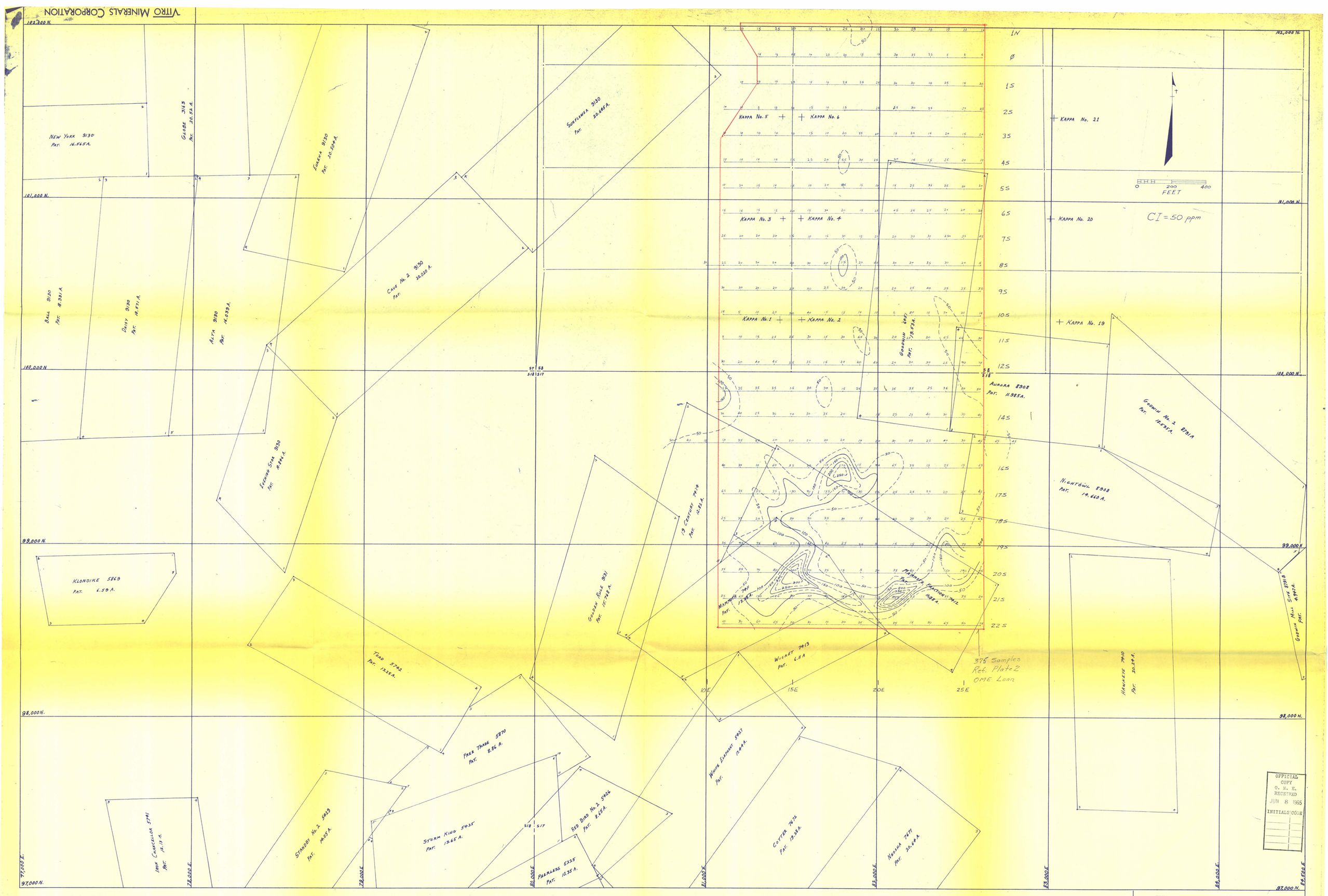
VITRO MINERALS CORPORATION
MAP OF Soil sampling locations - Beta Claims - with Arsenic values plotted in ppm.
LOCATION Judith Mts. - Fergus Co., Montana
T. 16 N R. 20 E SEC.
SCALE: 1" = 200' DATE: 12/20/63 (Orig.)
GEOL. DRAFTED BY: JRB
ENG. TRACED BY:



VITRO MINERALS CORPORATION

MAP OF Judith Mts. Soil sampling locations - Kappa Claims - with Arsenic values plotted in ppm

LOCATION Fergus Co. ~~[illegible]~~ Montana

T. 16 N R. 20 E SEC.

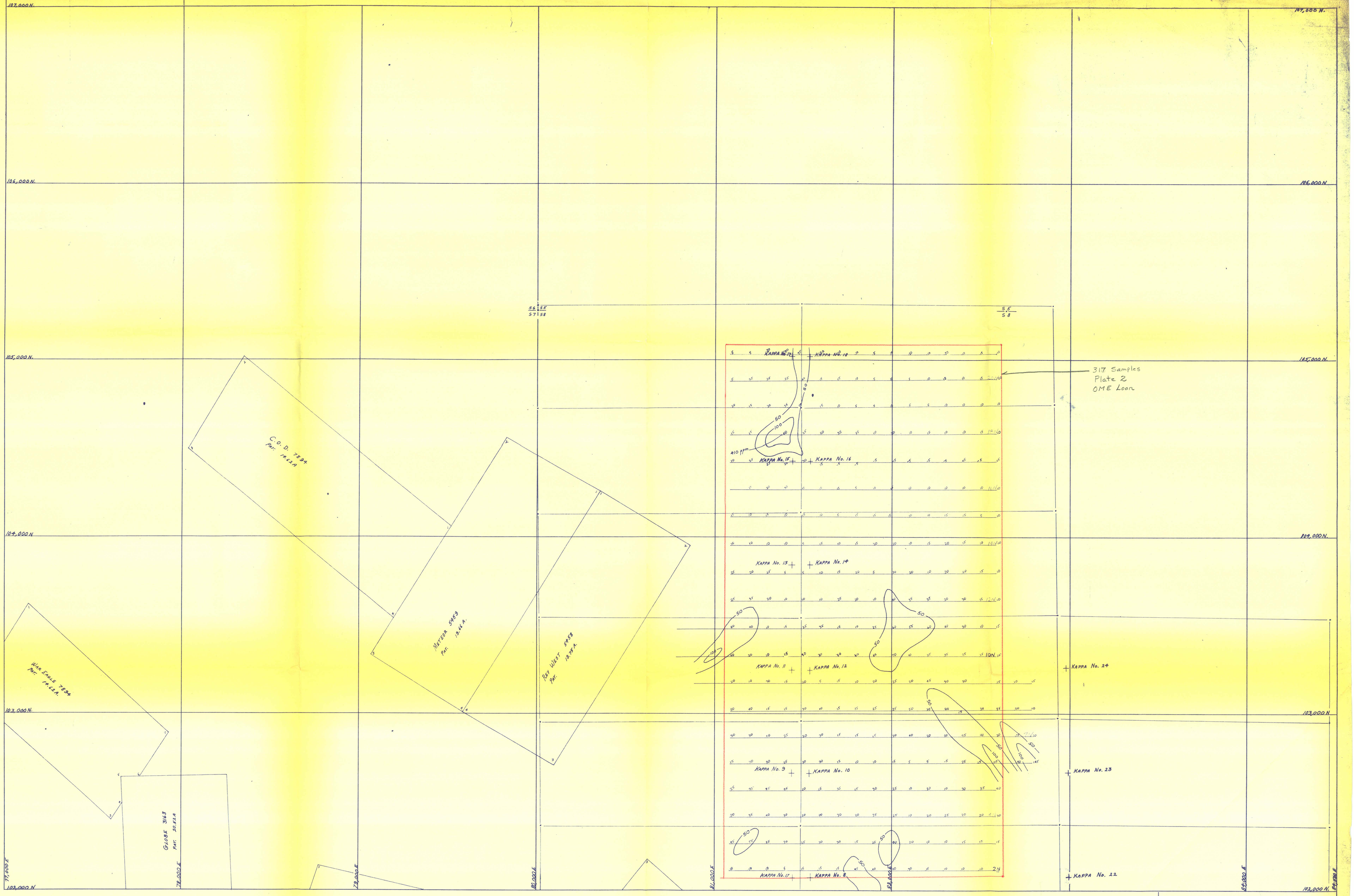
SCALE: 1" = 20' DATE: 10/20/62 (OCR)

GEOL. DRAFTED BY: RRB

ENG. TRACED BY:

SE-5

VERLAY



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

LOCATION Judith Mtns., Fergus Co., Montana

T. 16N R. 20E SEC.

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

GEOL. RWB DRAFTED BY: RWB

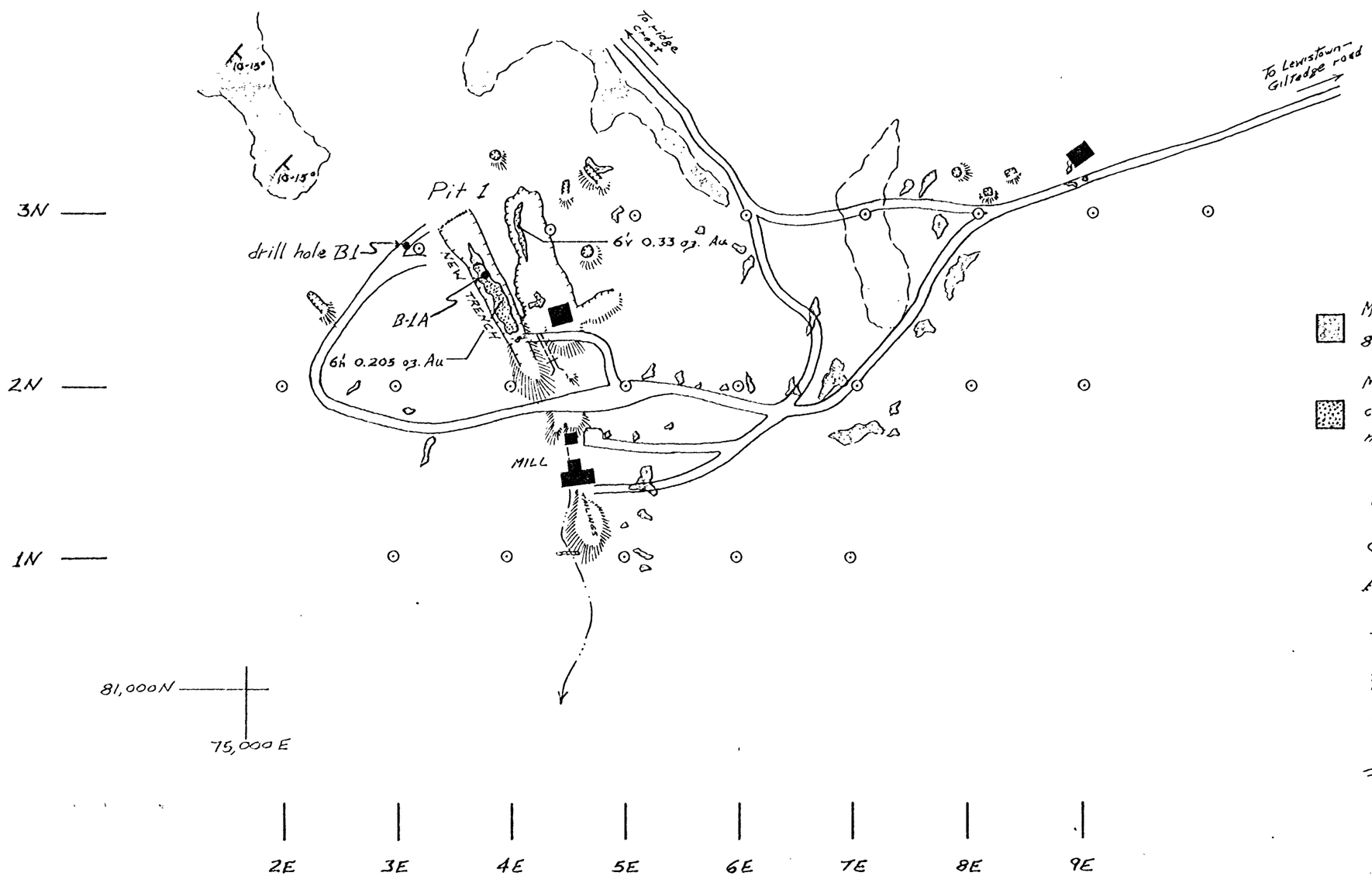
ENG. TRACED BY: RRB

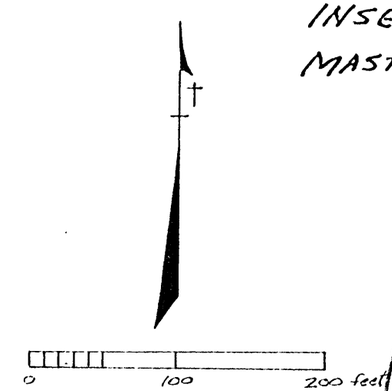
GE-6
over 134

INSERT A
MASTER # 1

"SOUTH SHOW"

Beta Claims — Fergus County, Montana





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EXPLANATION

Madison Limestone — lt. to med. grey, fine grained with med. grained zones, massive, some minor brecciation

Madison Limestone — altered, diffusion banding, red-brown color, thin-bedded in places, much calcite, clayey zones, massive, some dark grey chert, slickensides observed.

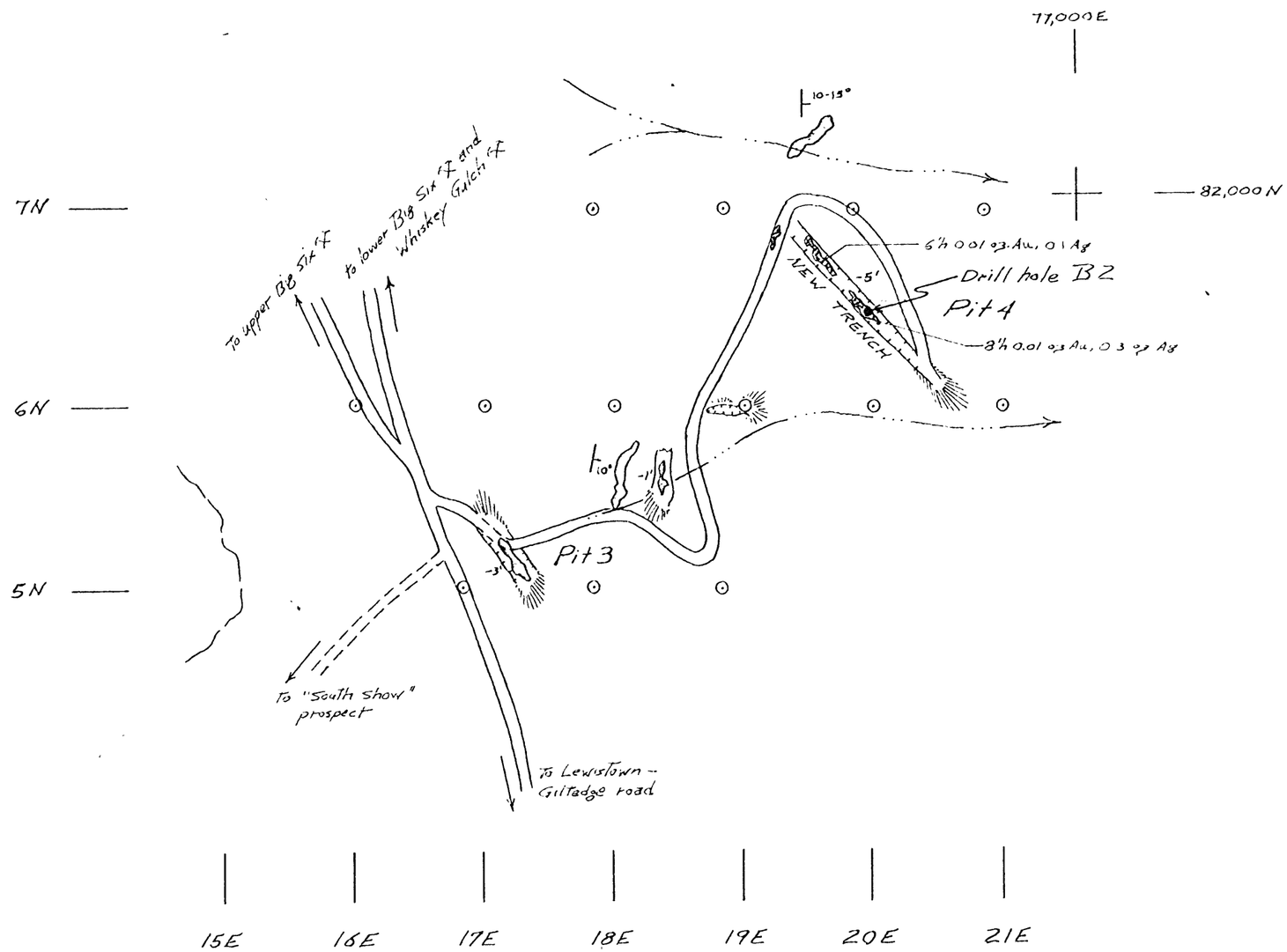
- outcrop
- area of outcrops
- prospects
- caved adit
- dump
- building
- road (2-wheel drive)
- wall
- soil sampling station
- 10-15° altitude of rocks

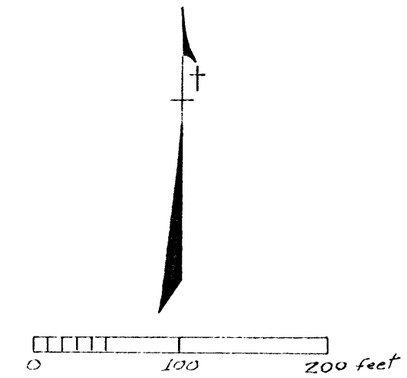
Vitro Minerals Corporation — RCB

INSERT B
MASTER #1

SOUTHEAST ANOMALY

Beta Claims — Fergus County, Montana





EXPLANATION

Madison Limestone — light to "dove" grey, fine grained with medium grained zones, medium to thin bedded, xtalline zones, red streaks, minor brecciation, secondary calcite common.

Madison Limestone — med. to dark grey, strongly brecciated, calcite healing, medium to thick bedded, brown altered zones, most fine grained, 1-6' of brownish clay cover.

- outcrop
- area of outcrops
- prospect
- dump
- road (2-wheel drive)
- soil sampling station
- attitude of rocks

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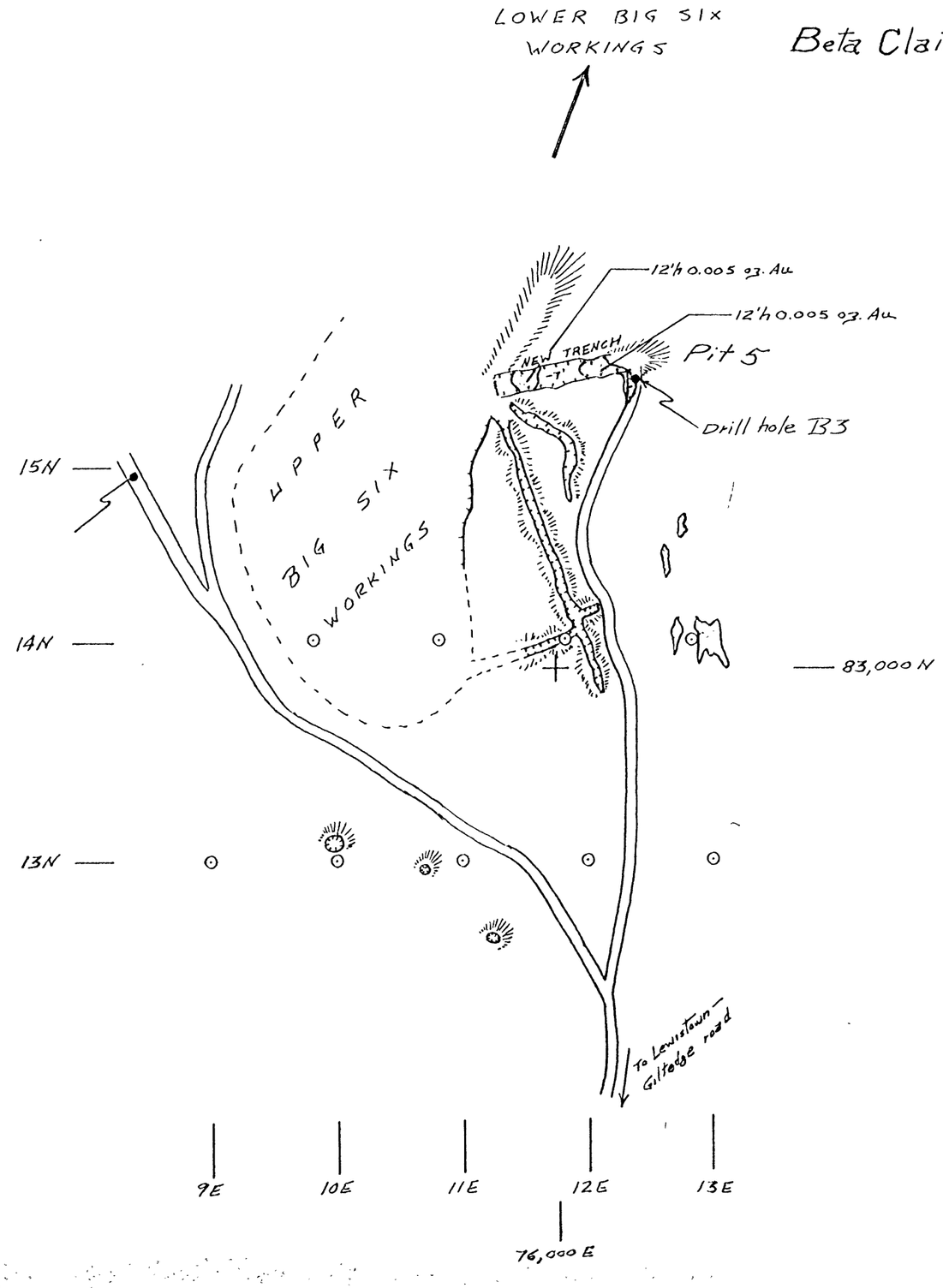
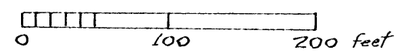
Vitro Minerals Corporation — RCB

INSERT C
MASTERS 1 & 2

BIG SIX MINE

Beta Claims — Fergus County, Montana





EXPLANATION

Madison Limestone — medium to "dove" gray, fine grained with crystalline zones, calcite "eyes" common, some moderate brecciation noted, in places brown stained showing alteration phenomena.

- outcrop
- prospects
- dump
- road (2-wheel drive)
- soil sampling station

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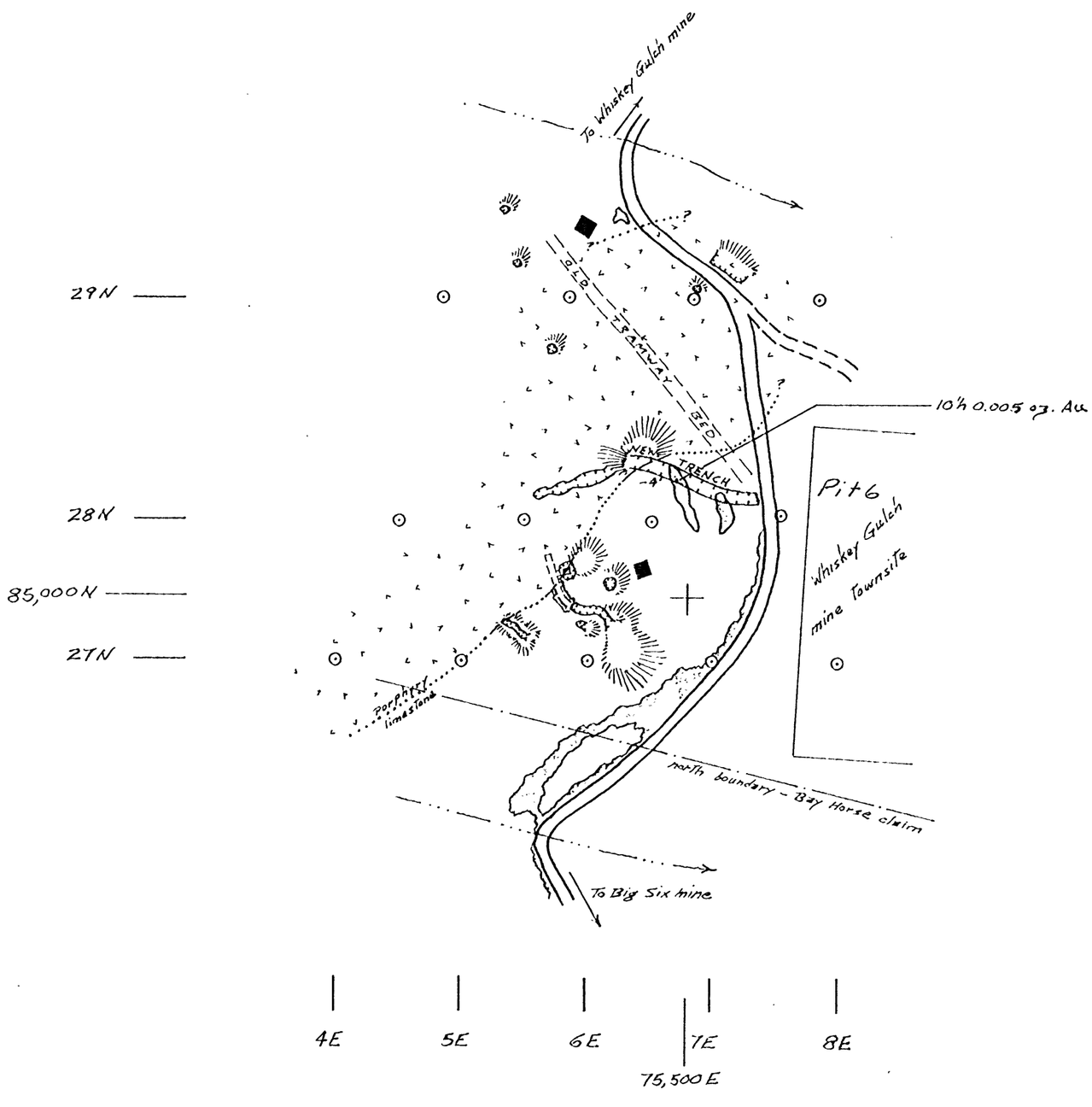
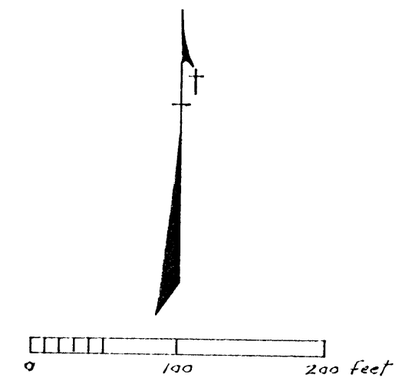
Vitro Minerals Corporation — RCB

INSERT D
MASTER #2

SOUTH EXTENSION—WHISKEY GULCH

Beta Claims — Fergus County, Montana





EXPLANATION

Madison Limestone — "dove" to dark grey, fine to medium grained, "eyes" common, brecciated zones.

- outcrop
- geologic contact (approximate/concealed)
- prospects
- adit & open cut
- dump
- building
- road (2-wheel drive)
- soil sampling station

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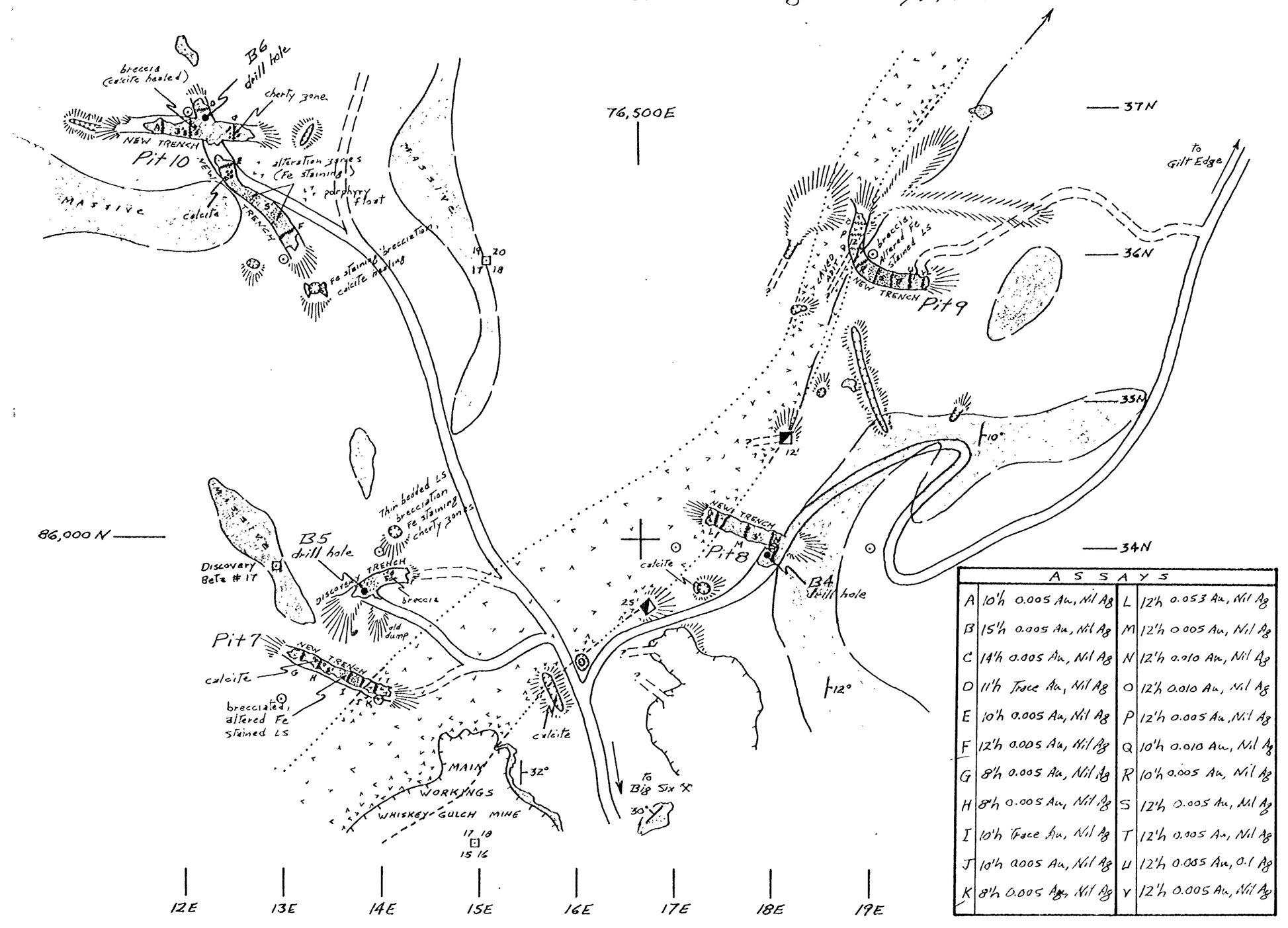
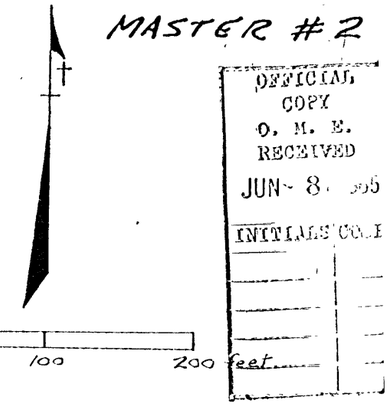
INSERT E
MASTER #2

Middle area — Whiskey Gulch Mine
Beta Claims — Fergus County, Montana





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EXPLANATION

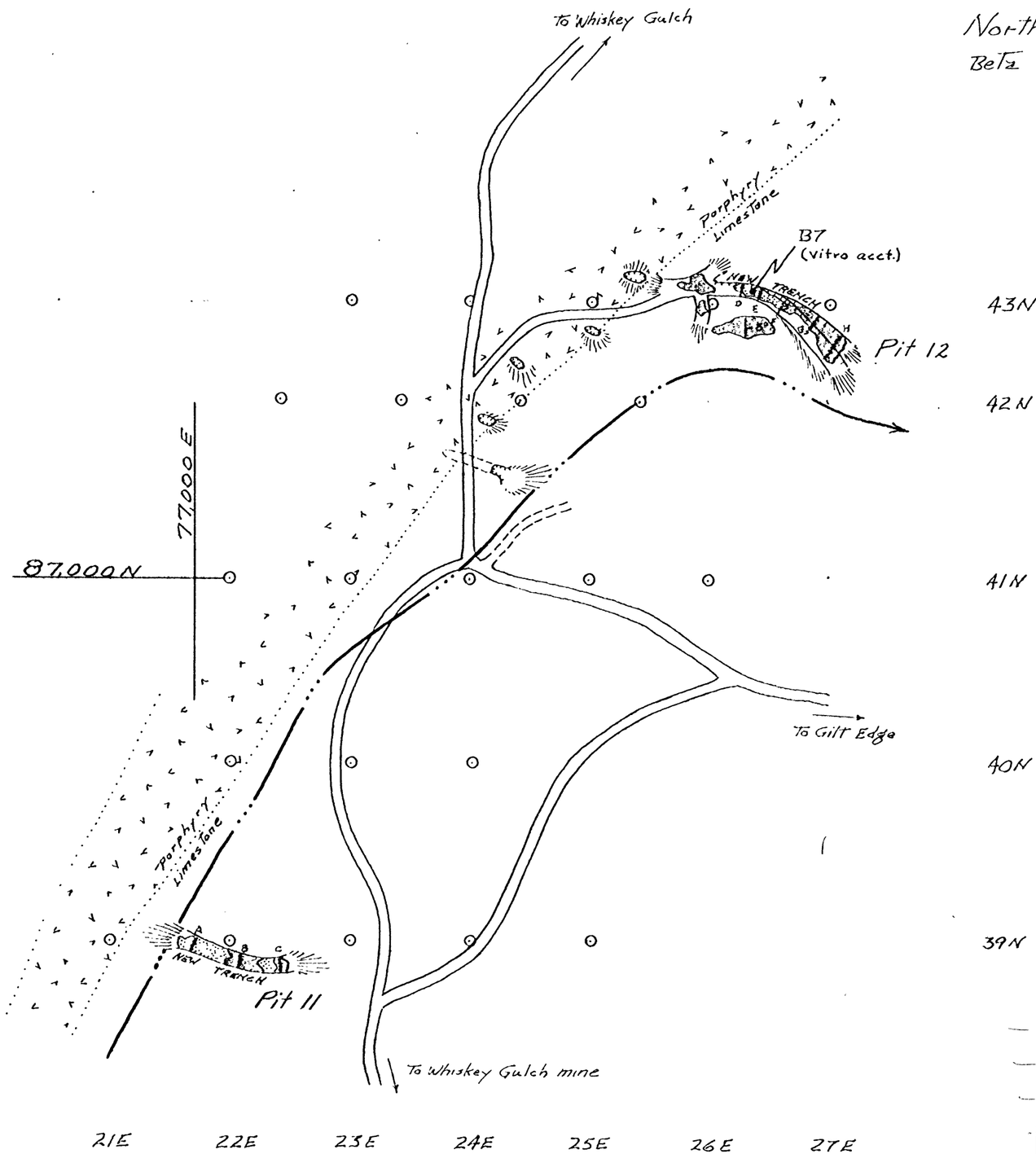
- Madison Limestone — med. to dark grey, fine grained with crystalline zones; massive with some thin beds.
- Syenite porphyry — weathered, light brown to yellow, rhyolitic zones.
- outcrop
- area of outcrops
- prospects
- adit with open cut
- 25' shaft (with depth)
- dump
- road (2-wheel drive)
- claim corner
- soil sampling station
- 10° attitude of rocks
- contact (exposed / approximate / concealed)
- F channel sample

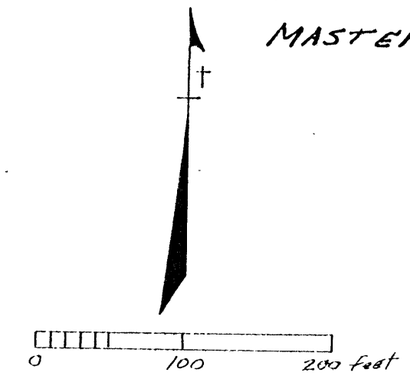
ASSAYS			
A	10'h 0.005 Au, Nil Ag	L	12'h 0.053 Au, Nil Ag
B	15'h 0.005 Au, Nil Ag	M	12'h 0.005 Au, Nil Ag
C	14'h 0.005 Au, Nil Ag	N	12'h 0.010 Au, Nil Ag
D	11'h Trace Au, Nil Ag	O	12'h 0.010 Au, Nil Ag
E	10'h 0.005 Au, Nil Ag	P	12'h 0.005 Au, Nil Ag
F	12'h 0.005 Au, Nil Ag	Q	10'h 0.010 Au, Nil Ag
G	8'h 0.005 Au, Nil Ag	R	10'h 0.005 Au, Nil Ag
H	8'h 0.005 Au, Nil Ag	S	12'h 0.005 Au, Nil Ag
I	10'h Trace Au, Nil Ag	T	12'h 0.005 Au, Nil Ag
J	10'h 0.005 Au, Nil Ag	U	12'h 0.005 Au, 0.1 Ag
K	8'h 0.005 Au, Nil Ag	V	12'h 0.005 Au, Nil Ag

Vitro Minerals Corporation — RCB

INSERT F
MASTER # 2

North area — Whiskey Gulch Mine
Beta claims — Fergus Co., Montana.





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ASSAYS			
A	12'h 0.005 oz. Au	E	8'h 0.005 Au
B	10'h Trace Au	F	6'h Trace Au
C	10'h Trace Au	G	11'h Trace Au
D	6'h Trace Au, 0.1 Ag	H	14'h Trace Au

No silver reported unless indicated.

EXPLANATION

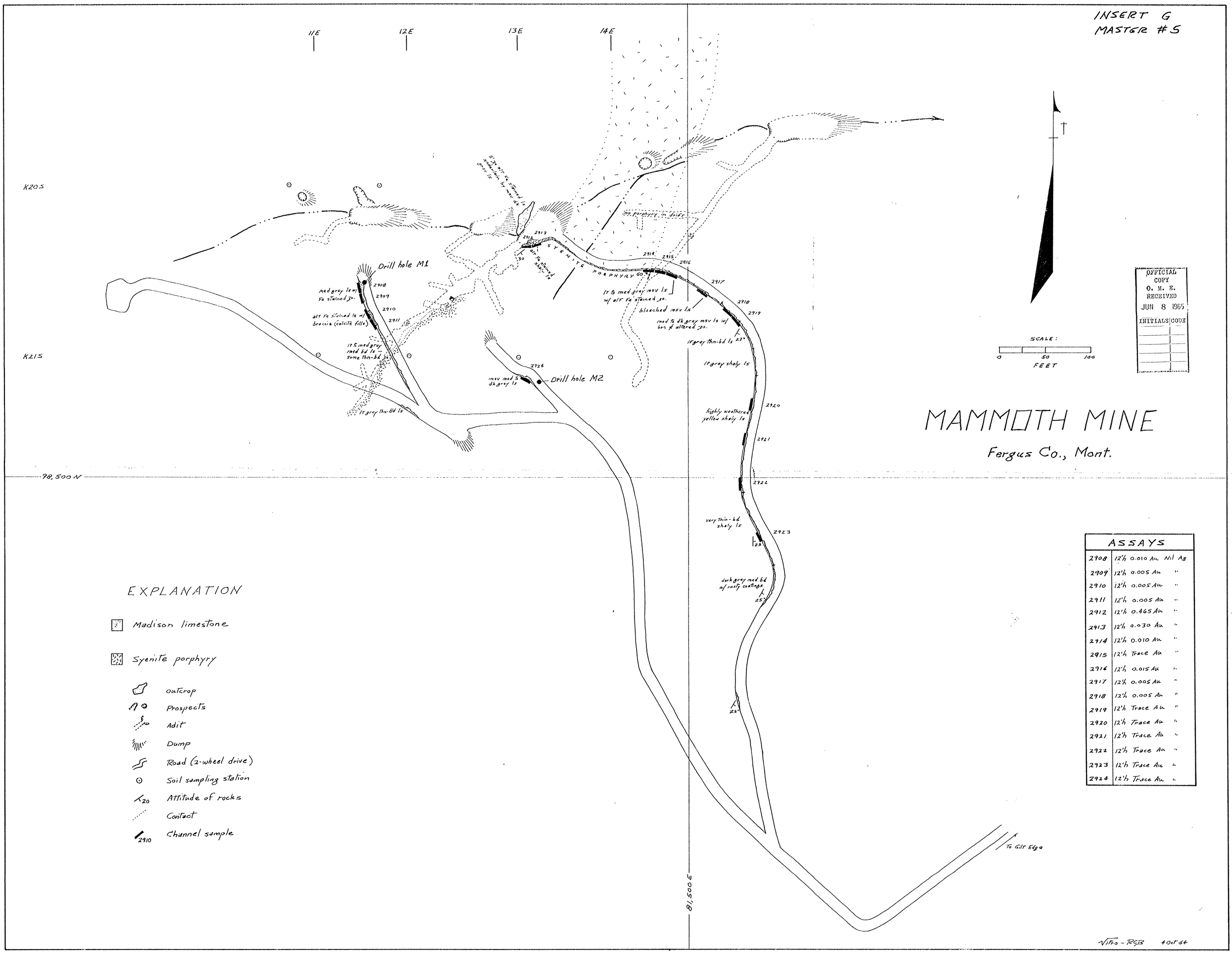
Madison Limestone — dark grey, fine grained with some crystalline zones. Medium bedded.

Syenite porphyry — weathered, light brown to yellow, rhyolitic zones.

Altered Madison limestone — Fe stains common (crimson & ochre predominate), some intensely brecciated zones (rubble breccias noted) Calcite fracture fillings.

- outcrop
- prospect
- adit with open cut
- dump
- road (2 wheel drive)
- soil sampling station
- 50° attitude of rocks
- contact (concealed)
- B channel sample

INSERT G
MASTER #5

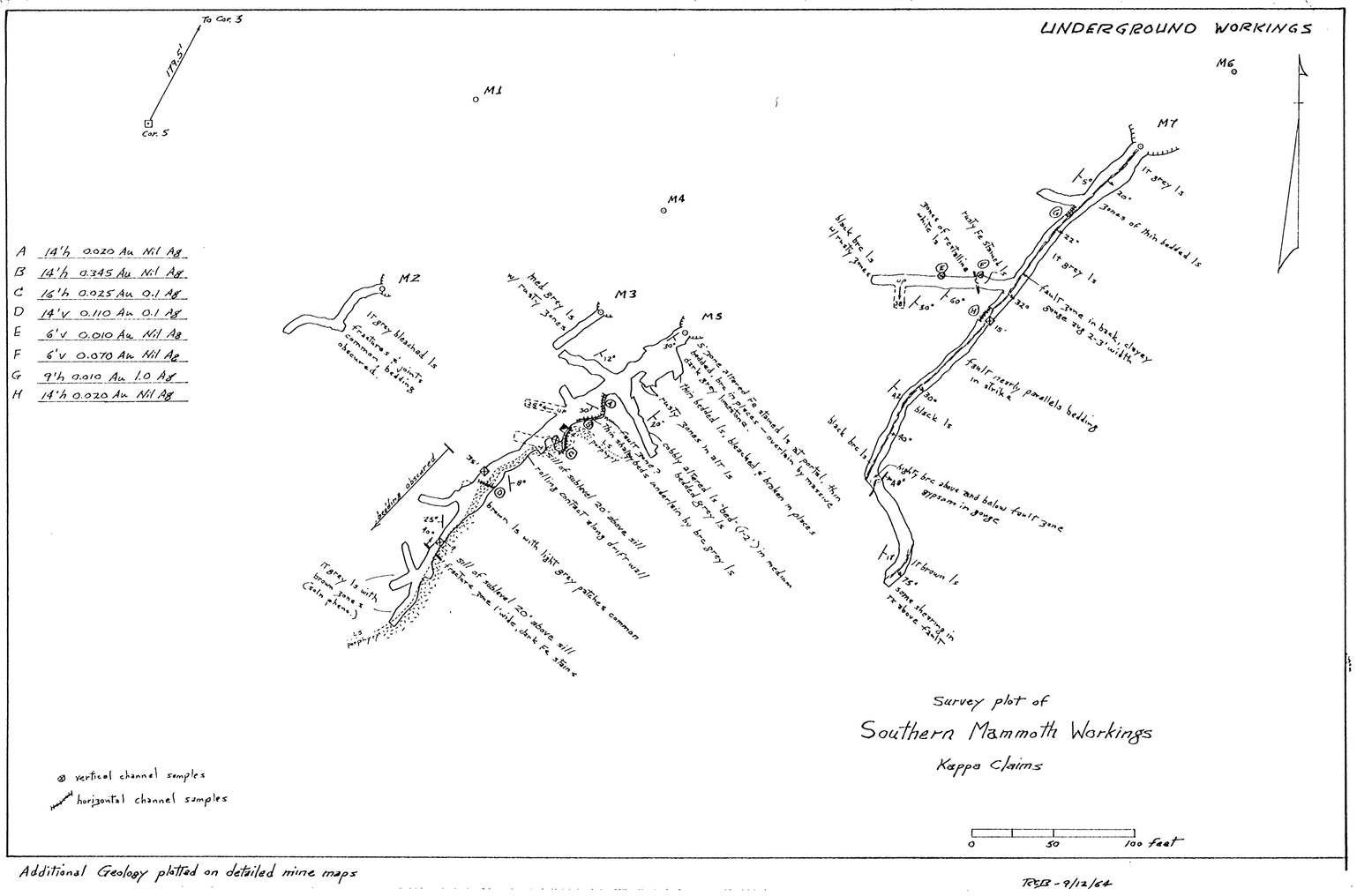


MAMMOTH MINE

Fergus Co., Mont.

ASSAYS			
2908	12'h	0.010 Au	Nil Ag
2909	12'h	0.005 Au	"
2910	12'h	0.005 Au	"
2911	12'h	0.005 Au	"
2912	12'h	0.465 Au	"
2913	12'h	0.030 Au	"
2914	12'h	0.010 Au	"
2915	12'h	Trace Au	"
2916	12'h	0.015 Au	"
2917	12'h	0.005 Au	"
2918	12'h	0.005 Au	"
2919	12'h	Trace Au	"
2920	12'h	Trace Au	"
2921	12'h	Trace Au	"
2922	12'h	Trace Au	"
2923	12'h	Trace Au	"
2924	12'h	Trace Au	"

Vitro - RCB 4 Oct 64



Survey plot of
Southern Mammoth Workings
Kappa Claims

Additional Geology plotted on detailed mine maps

RCB - 9/12/64