



52K01SE0005 63.5050 VERMILION

010

EXPLORATION REPORT
ON THE
VERMILION PROPERTY
IN THE
DISTRICT OF KENORA

PATRICIA MINING DIVISION
FOR
MONETA PORCUPINE MINES INC.

January 20, 1988

W. MacRAE

OM86-2-P-245



52K01SE0005 63,5050 VERMILION

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OM86-2-P-245

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME
OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED
MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE
FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED
IN THESE SERIES):

Report on Air Mag & VLF-EM Survey → see Toronto file
Drayton, Jordan & Vermillion Townships. #52K/01SE-0028
Moneta Porcupine Mines R.O.W. #87-189
by: Charles Barric
April 1987

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INTRODUCTION

Work on the property described in this report started in mid 1986 with seven patented mining claims. In September 50 unpatented claims were staked and 20 adjoining claims were optioned. In February 1987 an additional 116 claims were added with 18 additional claims staked in March. The property presently consists of 211 claims.

In the fall of 1986 linecutting, mag, VLF-EM and geology were completed on the seven patented claims. This was followed by five diamond drill holes in December of 1986. In February of 1987 an additional five diamond drill holes were completed on the patents and one hole drilled on the optioned claims to the east.

An airborne mag and VLF-EM survey was flown over the entire property. The survey generated total field, calculated gradiant and VLF-EM plots.

Recommended work includes prospecting and further diamond drilling.

LOCATION AND ACCESS

The Vermilion Property is located five miles southeast of the town of Sioux Lookout and two and one half miles south of the village of Hudson. The property is approximately nine miles east-west, two and one half miles north-south and covers parts of Vermilion, Jordan, and Drayton Townships.

Big Vermilion Lake underlies one third to one half of the property and provides access from Highway 664 which also intersects the northeast corner of the property. Access to the property is via Highway 72 south from Sioux Lookout four miles and west on Highway 664 approximately three miles to the northeast corner of the property. Access to the western portion of the property is by water from a public access point on Highway 664.

...2

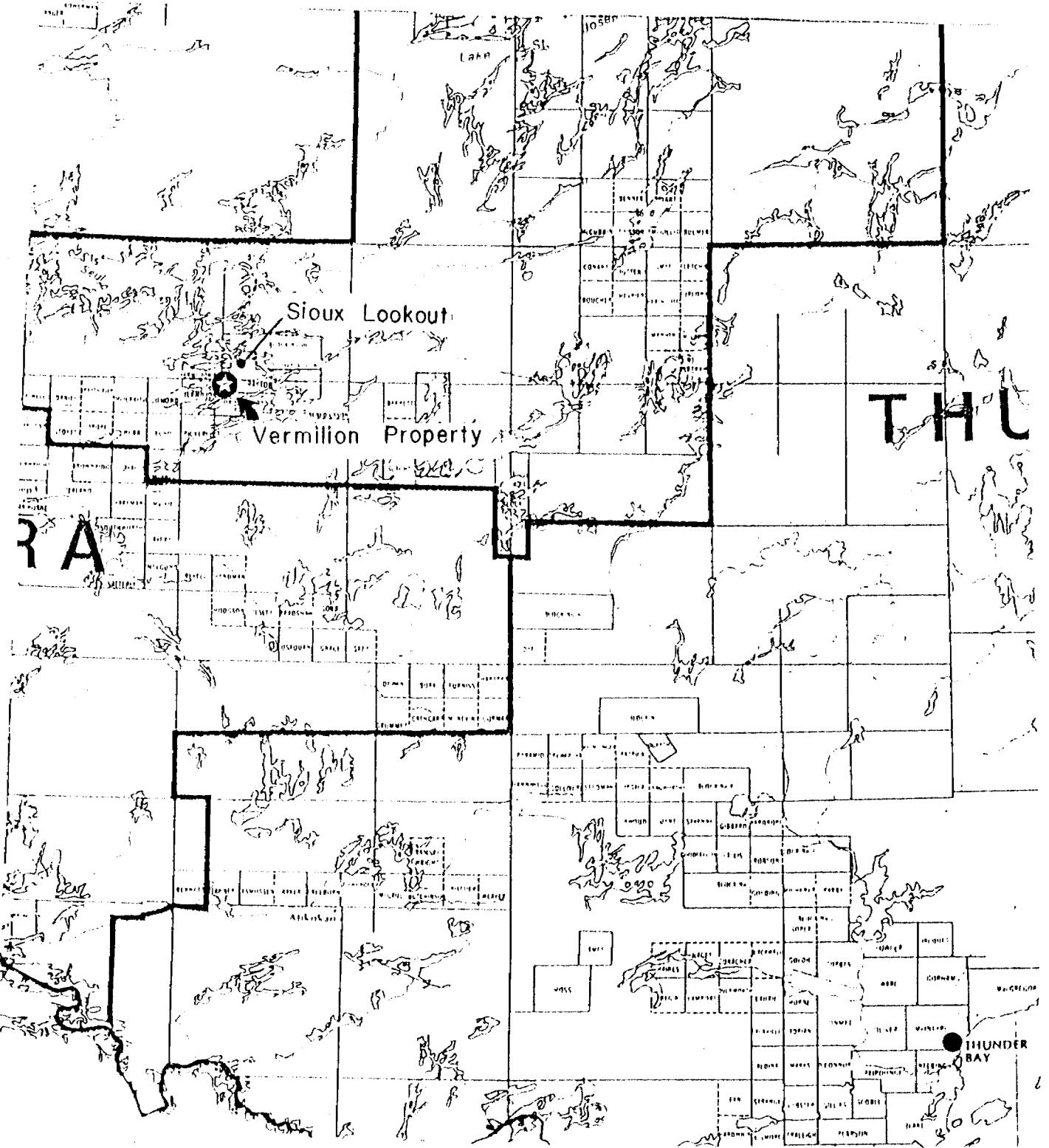


Figure 1. Vermilion property location map (1" = 25 miles).

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PROPERTY

The Vermilion property consists of the following claims:

Pa 13394 to 99 incl. (5) Patented,
Pa 13567 & 68 (2) Patented,
Pa 902549 to 902568 incl. (20) unpatented,
Pa 911873 to 911922 incl. (50) unpatented,
Pa 912351 to 912390 incl. (40) unpatented,
Pa 912501 to 912575 incl. (75) unpatented,
Pa 950128 (1) unpatented,
Pa 986058 to 986075 (18) unpatented,
giving a total of seven patented claims and 204 unpatented mining claims.

PREVIOUS WORK

The first reported work in the area was in 1951 by Moneta Porcupine Mines Ltd.. In late 1951 Moneta completed trenching on two showings, the eastern showing is on claim Pa 902556 and the western showing on claims Pa 13396 to 99 incl.. In the summer of 1952 six diamond drill holes were completed. The first three holes were drilled in the area of the eastern showing and returned scattered values up to 0.02 oz Au/ton over narrow widths. The remaining three holes were drilled on the western showing and gave values as follows:

Hole	Footage	Length	Assay (o.p.t.)
4	21.9 - 23.3	1.4	0.16
	55.7 - 60.7	5.0	0.10
	61.3 - 64.9	3.6	0.12
	255.3 - 258.7	3.4	0.09
5	135.3 - 136.0	1.4	0.40
	177.5 - 180.2	2.7	0.13
	206.4 - 211.4	5.0	0.07
	211.4 - 216.4	5.0	0.08
	231.4 - 236.4	5.0	0.17

...4

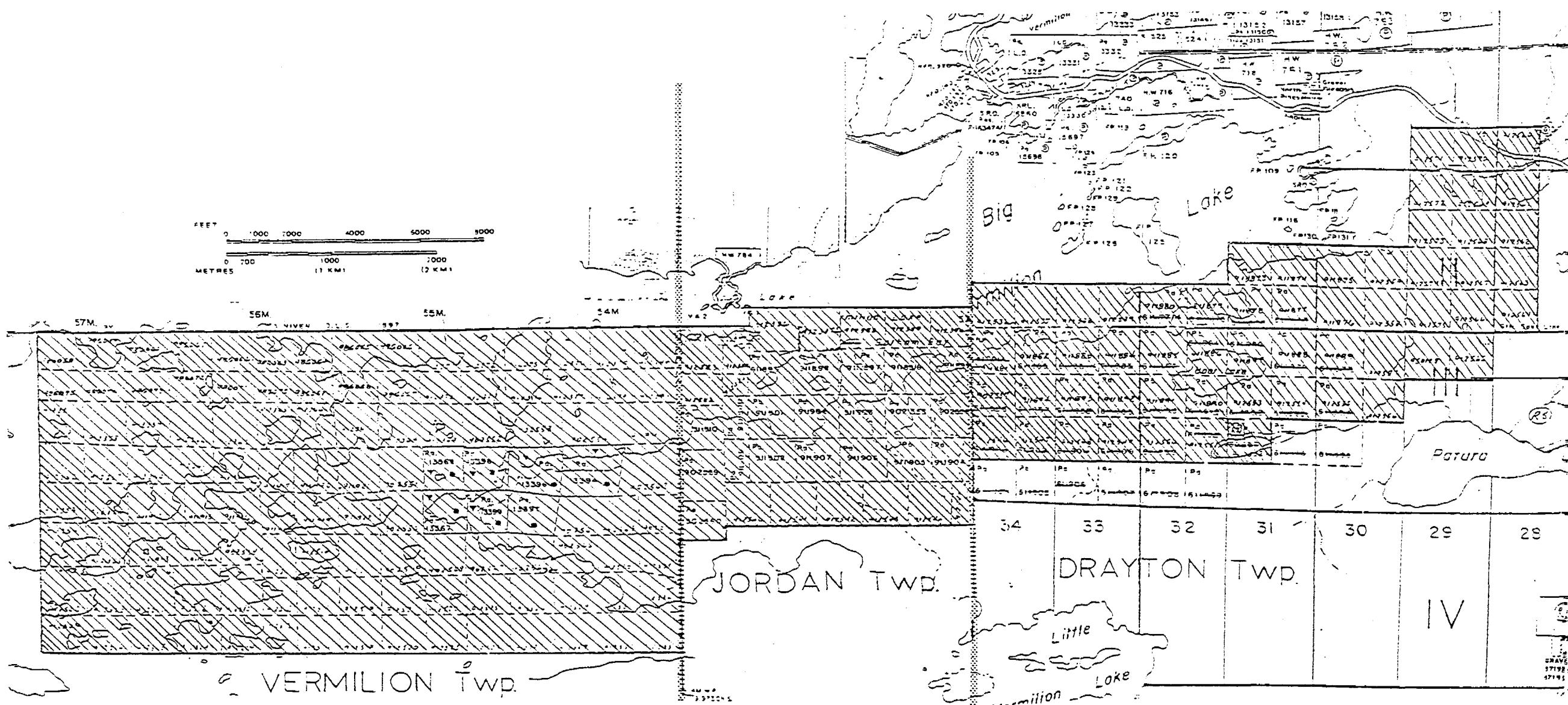


Figure 2. Claim locations, Vermilion property.

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In 1954 J. G. McGregor drilled two holes, one on claim Pa 902558 which intersected banded tuff with considerable pyrite over 13 feet and a second hole on or near the south boundary of Pa 912513. No assaying is reported for these holes.

The next reported work was in the spring of 1982 with Kerr Addison Mines starting work on 63 claims that lie in the central area of the present claim block. Kerr Addison completed line cutting, magnetometer and VLF-EM surveys as well as geology and geochemical work. Local stratigraphic mag highs were located and attributed to magnetite rich mafic units and iron formations of limited extent. Four EM conductors were attributed to bedrock sources. Two anomalies are explained as the volcanic - sedimentary contact. One anomaly lies within the volcanics and one within the sediments. A soil geochemical survey returned several anomalous areas but the anomalies were generally restricted to one or two sample sites. Lithogeochemical sampling returned several anomalous areas with the samples taken from the old Moneta trenches ran up to 10000 ppb Au. The anomalous areas are associated with cherty iron formations and carbonatized mafic volcanics.

No other work is reported on the property until Moneta commenced a program of exploration in September, 1986. The Moneta work started on the 7 patents and expanded by several stages of land acquisition to it's present coverage of 211 claims.

GENERAL GEOLOGY

The Vermilion Lake area is underlain by Archean age rocks consisting of intercalated beds of metavolcanics and metasediments. The metavolcanics and metasediments are enclosed north and south by granitic batholiths and are in places cut by dykes and stocks of granite.

The regional metavolcanic-metasedimentary belt is 15 to 20 miles wide in the Sioux Lookout area and 200 miles long extending from the Lake of the Woods area to near Savant Lake (Johnson, 1972).

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Metavolcanics comprise two main belts in the Vermilion Lake area and each has a metasedimentary belt to the south. In the Vermilion Lake area the north limb metavolcanics are underlain to the south by the Patara metasediments. The Patara metasediments are in disconformable contact to the south with younger Abram Lake metasediments.

The metavolcanics and metasediments are cut by sills and dykes of quartz porphyry. All rocks in the area are cut by north-south trending diabase dykes.

1986 EXPLORATION PROGRAM

In September and October of 1986 line cutting, magnetometer and VLF-EM surveys, and geological mapping was completed on the seven patented claims. The magnetometer survey was not very conclusive with no major trends discernable. The VLF-EM survey indicated a major east-west trending anomaly that coincided with the surface showings. The geological mapping and sampling indicated an interflow sedimentary unit and/or an old healed shear zone hosting the gold mineralization.

The mineralization occurs in pillowed to massive flows that strike roughly east-west and dip 70° to the north. The gold mineralization occurs in a highly silicified zone that contains 20% sulphides composed of pyrite and chalcopyrite. Sampling of the old trenches returned values up to 0.28 oz./ton Au across 4' and a grab sample in a separate trench that assayed 0.93 oz./ton Au.

In November a diamond drilling program was initiated on the seven patented claims. Due to conditions a 12 mile road had to be built to access the property. December 12 saw the end of hole 5 and a decision was made to terminate the program. A total of 1784 were drilled in the five holes.

1987 EXPLORATION PROGRAM

Additional drilling was undertaken in February with six holes drilled during the month. Five holes were drilled on the patents and one hole drilled southeast of the old Moneta showing on the old Kerr Addison claims. The five holes drilled in this phase of the program totalled 3708 feet. The total footage of the eleven holes drilled is 6115 feet.

An Airborne survey was flown in early February by Terraquest Ltd. of Toronto. This survey produced maps of the total field magnetics, a calculated vertical gradient, and VLF-EM profiles and contoured field strength.

RESULTS

The geology and sampling on the patented claims indicated gold mineralization associated with a sheared mafic volcanic and/or an interflow sedimentary unit. Diamond drilling in 1952 returned values up to 0.4 oz./ton Au over narrow widths. Diamond drill holes 1 to 5 were drilled in the immediate area of the showing on the patented claims. Hole 1 gave an assay of 0.095 oz./ton Au across 10 feet and several lower but anomalous assays over narrow widths. The remaining four holes contained several anomalous assays.

The 1987 drilling program tested the eastern and western extensions of the mineralized zone with five drill holes. No values above 0.004 oz/ton Au were returned. The final hole drilled on the property (MV-87-11) was drilled SW of the original Moneta eastern showing. No anomalous values were found in hole MV-87-11.

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CONCLUSION

The surface mineralization could not be extended to any great depth or along strike. The EM anomaly appears to be an interflow sediment on a concordant shear that has some silicification and carbonatization.

The location of the two gold showings on the property suggests that mineralization may be limited to the east side of the north trending right lateral faults. The gold showings may be restricted to the north side of a major magnetic unit (high iron tholeiite) that traverses the property.

A large almost circular magnetic body occurs west of the patent claims. This circular anomaly may be a large intrusive or abundant folding and faulting in the high magnetic unit.

RECOMMENDATIONS

I would recommend surface prospecting in areas where the high magnetic unit has been interrupted by faulting. In areas that are overburden covered a geochem survey may help.

Prospecting in the area of the large mag high should be carried out to determine if there is a surface explanation of the phenomenon.

Diamond drilling should be carried out on any target areas outlined from the prospecting and geochem work.



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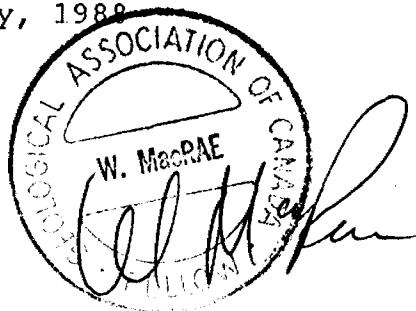
CERTIFICATE

With reference to my Exploration Report for Moneta
Porcupine Mines dated January 20. 1988;

I, William E. MacRAE, of the city of Timmins,
Ontario, do hereby certify and state that:

- (1) I have graduated from Lakehead University with the degree of Bachelor of Science (Honours) in 1975 and have obtained the degree of Masters of Science from McMaster University in 1982;
- (2) I have practiced my profession continuously for the past seven years;
- (3) I am a fellow of the Geological Association of Canada, a member of the Canadian Institute of Mining and Metallurgy, and a member of the Prospectors and Developers Association of Canada;
- (4) I have no interest, direct or indirect, in the mining claims comprising the properties described in this report nor do I expect to receive any; and
- (5) this report is based on assessment file information and personal supervision of the described programs.

Dated this 20th day of January, 1988
Timmins, Ontario.



W. MACRAE, M. Sc.
Consulting Geologist

APPENDIX 1
DIAMOND DRILL LOGS

APPENDIX 2
DRILL SECTIONS

Vermilion-Abram Lakes Area

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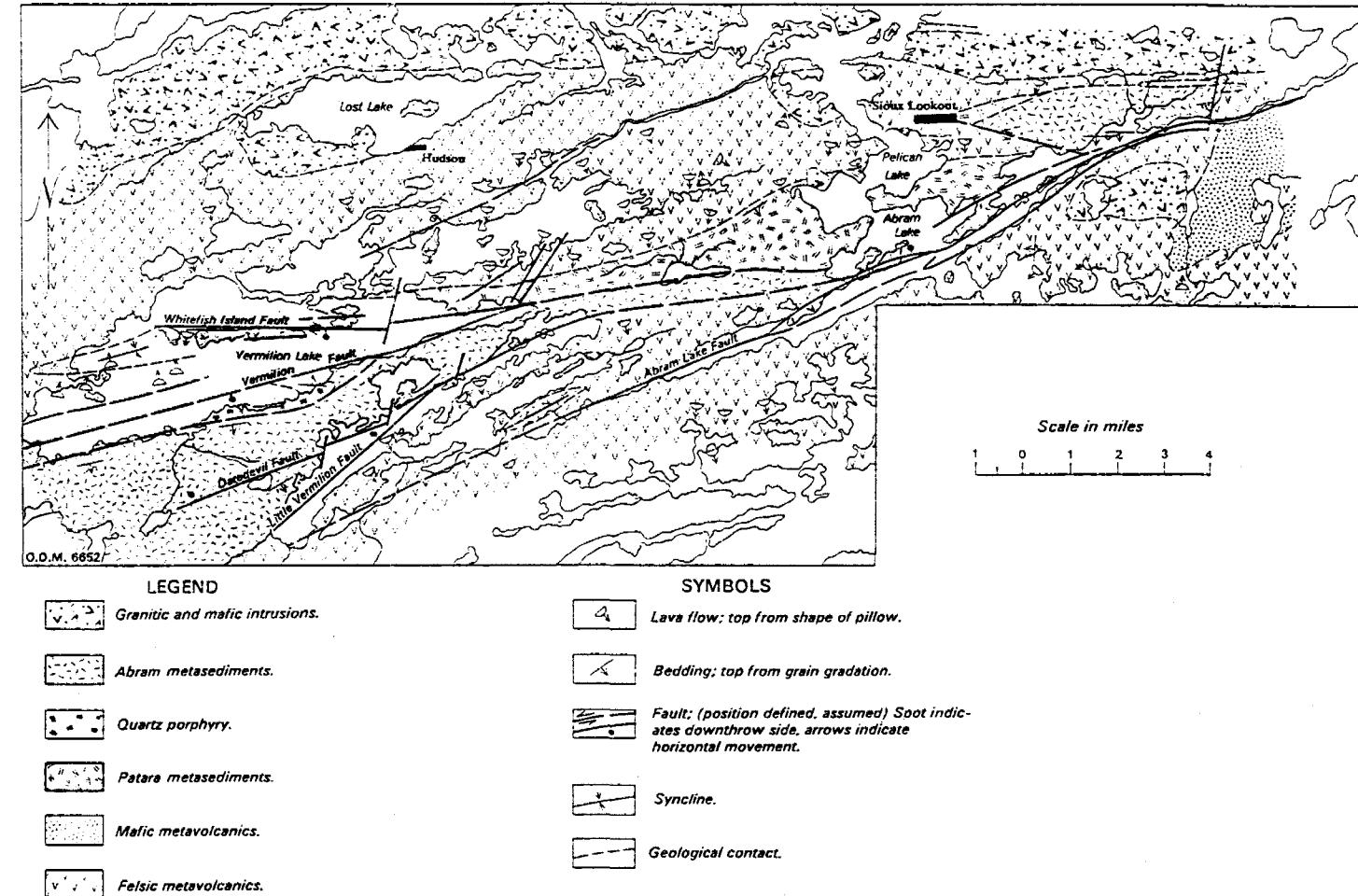


Figure 3—Generalized geology and structure, Vermilion-Pelican Lakes area.

Vermilion-Abram Lakes Area

Table 1

TABLE OF LITHOLOGIC UNITS

CENOZOIC

RECENT

Lake and stream deposits, vegetal deposits

PLEISTOCENE

Clay, varved clay, sand, gravel, silt

Unconformity

PRECAMBRIAN

ARCHEAN

LATE INTRUSIVE ROCKS

GRANITIC ROCKS

Hybrid granite, porphyritic granite, quartz-'eye' granite, feldspar porphyry, granodiorite, quartz diorite, trondhjemite

Intrusive Contact

MAFIC INTRUSIVE ROCKS

Syenodiorite, diorite, gabbro, lamprophyre

Intrusive Contact

ABRAM METASEDIMENTS

Conglomerate, arkose, greywacke, slate, varved slate, chlorite schist, iron formation, tuffs and tuffaceous metasediments

Unconformity

EARLY FELSIC INTRUSIVE ROCKS

Quartz porphyry, felsite, trachyte dikes

Intrusive Contact

PATARA METASEDIMENTS

Volcanic boulder conglomerate and agglomerate tuff, crystal tuff, tuffaceous sediments, slate and argillite, chert, siliceous sediments, greywacke, chlorite schist, arkose

Minor Unconformity

FELSIC METAVOLCANICS

Rhyolite, porphyritic rhyolite, dacite, tuff, agglomerate, pillow lavas

MAFIC TO INTERMEDIATE METAVOLCANICS AND METASEDIMENT

Greenstone, tuff, tuffaceous sediments, agglomerate, breccia, pillow lavas, porphyritic basalt (leopard rock), crystal tuffs and crystal-rich flows, dioritic flows, amphibolite, epidote amphibolite, variolitic lavas, iron formation, quartzite, schists

MONETA PORCUPINE MINES Inc.				INCLINATION TESTS				HOLE: MV-87-1	
Location: L12W/820N		Elevation:		DEPTH	DIP	DEPTH	DIP	PROJECT: Vermilion	
Length: 623.0'		Azimuth: 150°		collar	50°	623'	37°		
Logged By: W. MacRae		Claim No.: Pa 902556		253'	45.5°			Started: February 27, 1987	
				500'	44°			Finished: March 1, 1987	
From	To	Description			Sample No.	From	To	Length	Au
0	38.0	Casing			76577	43.0	45.7	2.7	Tr
38.0	246.1	Mafic Volcanic : dark green in colour : medium to coarse grained with 5% fine grained sections : 1 to 2% narrow, irregular quartz veining : 3% pyrite as concentrations along slips and cherty beds : cherty beds at: 44.1' : 3" 44.8' : 4" 20% pyrite 68.1' : 2" 15% pyrite 83.2' : 1" 10% pyrite 92.0' : 6" 20% pyrite : broken and sheared at 162.7' with 2" of quartz carbonate veining : occasional splash of pyrite but generally 1 to 2% from 108.0 to 207.0' : at 207.3' 2" quartz vein with chlorite and minor pyrite : at 212.4' 2" quartz vein with chlorite : at 219.5' 3" quartz vein : becomes more foliated from 225' to end of section (50° to core axis)			76578	67.8	71.0	3.2	Tr
					76579	90.5	93.0	2.5	0.002
					76580	243.0	246.0	3.0	Tr
					76581	246.0	250.3	4.3	Tr
					76582	250.3	253.0	2.7	Tr
					76583	253.0	257.3	4.3	Tr
					76584	257.3	262.0	4.7	Tr
					76585	262.0	266.2	4.6	Tr
					76586	266.6	271.4	4.8	Tr
					76587	271.4	276.0	4.6	Tr
					76588	276.0	280.8	4.8	Tr
					76589	280.8	285.4	4.6	Tr
					76590	285.4	290.3	4.9	Tr
					76591	290.3	294.8	4.5	Tr
					76592	294.8	299.7	4.9	Tr
					76593	299.7	304.0	4.3	Tr
					76594	304.0	308.8	4.8	Tr
					76595	308.8	313.2	4.4	Tr
					76596	313.2	318.1	4.9	Tr
					76597	318.0	323.0	4.9	Tr
					76598	327.7	332.5	4.8	0.002
					76599	512.7	514.2	1.5	Tr
					76600	516.4	519.1	2.7	Tr
					76601	553.0	557.2	4.2	Tr
					76602	557.2	560.3	3.1	Tr
246.1	266.5	Iron Formation : fine to very fine grained : 30% quartz carbonate masses							

From	To	Description	Sample No.	From	To	Length	Au
		<ul style="list-style-type: none"> : 50% chloritic material : 20% sulphides as pyrite and pyrrhotite : white to gray quartz material in dark green chloritic material : 5% magnetite 					
266.5	353.0	<p>Mafic Volcanic</p> <ul style="list-style-type: none"> : dark green in colour : fine grained : foliated 50° to core axis : 5% irregular quartz carbonate veins : 5% scattered pyrite : gray fine grained quartz material at: <ul style="list-style-type: none"> 303.7' 2" : 20% pyrite 305.7' 1" : 20% pyrite 313.6' 3" : 20% pyrite : fault gouge at 332.7' : from 343.0 to 353.0' less than 3% quartz carbonate veining and 3% pyrite : at 349.7' 4" white quartz vein : gradual change to a fine grained massive rock at 353.0' 					
353.0	623.0	<p>Pillowed Mafic Volcanics</p> <ul style="list-style-type: none"> : fine grained : medium to light green in colour : some pillow selvages containing up to 20% epidote : flows have moderate magnetism : >1% quartz carbonate veining except in selvages : 2 to 3% disseminated pyrite : 1" quartz vein 20° to core axis at 462.5' : from 513.0' to 514.0' and 517.6' to 519.0' with chlorite and minor sulphides : from 553.6 to 559.0' 80% quartz carbonate veining with minor sulphides : rock becomes non magentic from 576.5' on but 					

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV87-1

From	To	Description	Sample No.	From	To	Length	Notes
623.0		appearance doesn't change, magnetism is spotty END OF HOLE					

MONETA PORCUPINE MINES Inc.

Location: 297.19N/408.70W

Elevation: -39.20'

Length: 734.0

Azimuth: 164°

Core Size: BQ

Logged By: W. MacRae

Claim No.: Pa 13398

INCLINATION TESTS

HOLE: MV-87-15

DEPTH DIP DEPTH DI

collar | 57°

2541 55-58

254 55.59

504' 54°

PROJECT: Vermilion

Started: February 21, 1987.

Finished: February 23, 1987

Finished: February 23, 1997.

From	To	Description	Sample No.	From	To	Length	Au
0	15.0	Casing	76518	21.4	24.0	2.6	Tr
15.0	219.0	Pillowed Mafic Volcanics	76519	39.3	44.0	4.7	Tr
		: medium to fine grained	76520	54.0	59.0	5.0	Tr
		: medium to dark green in colour	76521	59.0	64.0	5.0	Tr
		: 5% quartz carbonate veining	76522	64.0	67.0	3.0	Tr
		: cherty beds at 21.4' 10"	76523	67.0	70.6	3.6	0.002
		: 70% carbonate	76524	94.0	97.8	3.8	Tr
		: 15% sulphides (pyrite)	76525	109.0	114.0	5.0	Tr
		: veining?	76526	114.0	117.4	3.4	0.002
		39.2' 10" : 20% pyrite	76527	117.4	121.3	3.9	Tr
		: banded with chlorite	76528	124.6	129.2	4.6	Tr
		69.0' 8" : 25 to 30% sulphides	76529	129.2	134.0	4.8	Tr
		(pyrrhotite and pyrite	76530	181.1	184.0	2.9	Tr
		and chalcopyrite)	76531	184.0	189.0	5.0	Tr
		: at 77.8' a fault gouge	76532	189.0	194.0	5.0	0.002
		: gray cherty material at	76533	194.0	197.3	3.3	Tr
		109.1' 1/2" : 20% pyrite	76534	214.0	218.9	4.9	Tr
		110.3' 7" : 15% pyrite	76535	218.9	224.0	5.1	Tr
		111.4' 1 1/2" : 15% pyrite	76538	292.2	296.9	4.7	Tr
		118.4' 1" : 20% pyrite	76539	314.0	316.4	2.4	Tr
		120.5' 3" : 70% cherty material with	76540	324.0	326.2	2.2	Tr
		15% pyrite	76541	355.5	359.0	3.5	Tr
		137.8' 1.2" : 20% pyrite	76542	380.4	383.7	3.3	Tr
		: generally 3% to 5% pyrite	76543	393.5	398.0	4.5	Tr
		: massive from 139.0 to 179.0'	76544	402.2	407.1	4.9	Tr
		: red and gray chert at 181.1' 5" : 15% pyrite	76545	407.1	411.8	4.7	Tr
		182.7' 3" : 15% pyrite	76546	411.8	416.4	4.6	Tr
		183.3' 4" : 15% pyrite	76547	416.4	422.4	6.0	Tr
		: at 183.7' a fault gouge	76548	422.4	426.8	4.4	Tr

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV87-1

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV87-11

From	To	Description	Sample No.	From	To	Length	Ao
402.2	495.7	<p>Mafic Volcanic</p> <ul style="list-style-type: none"> : foliated 60° to core axis : fine grained : light gray to dark gray/green : 10% quartz carbonate veining : 5% pyrite in slips and scattered throughout : from 335.0 to 442.0' 8% pyrite as large euhedral crystals up to 3/8" : numerous fault gauges at 403.5', 415.0', 418.2', 424.0', 426.0', 452.5', 453.3', 463.7', 468.5', 472.2' : from 474 to 494' highly broken and containing numerous fault gouges, 20% quartz carbonate veining : 493.5' : 5% banded quartz, pyrite and pyrrhotite 					
495.7	734.0	<p>Pillowed Mafic Volcanic</p> <ul style="list-style-type: none"> : light to dark gray in colour : very fine grained : hard and massive : 3% disseminated pyrite : 3 to 5% quartz carbonate veining : from 506.0' to 511.5' 15% quartz carbonate veining : from 584.5' to end quartz carbonate veining increases to 8% : from 585.2 to 586.6' 60% quartz carbonate and brecciated : at 586.4' 2" gray quartz with 15% pyrite : at 601.3' 3" quartz vein : at 659.7' 2 1/2" quartz with 1/8" pyrite bands at each end and 20% pyrite throughout : fault gouge at 664.0' : fine grained to massive with less quartz carbonate veining from 674.0 to end of hole : minor epidotization 					

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV87-

From	To	Description	Sample No.	From	To	Length	A.
734.0		: becomes coarser grained and massive from 700.0' to end of hole END OF HOLE					

MONETA PORCUPINE MINES Inc.

Location: 405.22N/2233.28W Elevation: -41.89'

Length: 731.0' Azimuth: 170° Core Size: BQ

Logged By: W. MacRae Claim No.: Pa 13568

INCLINATION TESTS

DEPTH DIP DEPTH DIP

collar 58°

254' 57°

514' 55°

HOLE: MV-87-9

PROJECT: Vermilion

Started: February 17, 1987

Finished: February 19, 1987

From	To	Description	Sample No.	From	To	Length	Au
0	6.0	Casing	44971	45.1	50.8	5.7	Tr
6.0	229.7	Pillowed Mafic Volcanic : medium grained : dark green in colour : from 445. to 50.0' becomes very fine grained and brecciated (pillow breccia) : from 50.0' to 229.7' remains very fine grained and appears more typically pillowed : from 68.5 to 100.0' most selvages contain chert and sulphides : 1 to 2% narrow quartz carbonate veining : 1% sulphide with pillow selvages and quartz carbonate veining : at 69.6' a 3" cherty layer with 3/8" sulphides and 1/2" dark gray banded chert and rest massive chert : 103.4' a 2" dark gray chert bed : 112.2' a 1" dark gray chert bed : 5% quartz carbonate veining/masses from 68.5 to 125.0' : from 114.0 to 124.4' appears highly sheared (30° to core axis) with 20% quartz carbonate veining and up to 5% sulphides : grain size variable from 125.0 to 229.7' : slightly magnetic at 165.0' : from 187.0 to 188.1' quartz veining with stringers of black and brown amorphous material not graphite	44972	64.0	69.6	5.6	0.002
			44973	103.1	106.5	3.4	Tr
			44974	106.5	112.4	5.9	0.004
			44975	114.0	119.0	5.0	Tr
			44976	119.0	124.0	5.0	Tr
			44977	176.0	178.8	2.8	Tr
			44978	186.7	189.0	2.3	Tr
			44979	215.3	218.8	3.5	Tr
			44980	224.0	229.6	5.6	Tr
			44981	229.6	234.0	4.4	Tr
			44982	286.0	289.0	3.0	Tr
			44983	304.0	307.5	3.5	Tr
			76536	370.0	372.0	2.0	0.002
			76537	381.0	384.0	3.0	Tr
			44984	390.4	394.0	3.6	Tr
			44985	394.0	399.0	5.0	Tr
			44986	399.0	404.0	5.0	Tr
			44987	415.2	419.4	4.2	Tr
			44988	419.4	424.0	4.6	Tr
			44937	442.8	445.2	2.4	Tr
			44938	445.2	447.5	2.3	Tr
			44989	447.5	454.0	6.5	Tr
			44939	456.0	458.7	2.7	Tr
			44940	460.7	464.0	3.3	0.002
			44990	466.6	473.0	6.4	Tr
			44991	489.0	491.0	2.0	Tr
			44992	504.0	507.5	3.5	Tr
			44993	507.5	510.0	2.5	Tr

From	To	Description	Sample No.	From	To	Length	Alt.
229.7	669.5	: at 216.8' a 2" quartz vein with 20% sulphides (chalcopyrite and pyrrhotite)	44994	510.0	514.0	4.0	Tr
		Mafic Volcanic	44995	538.4	544.0	5.6	Tr
		: medium green	44996	544.0	546.3	2.3	Tr
		: very fine grained at contact but becomes medium to coarse grained down hole	44997	615.9	624.0	8.1	Tr
		: contact not sharp	44998	624.0	629.0	5.0	Tr
		: contacts whitish feldspar masses up to 1" across	44999	629.0	634.0	5.0	Tr
		: massive	45000	634.0	639.0	5.0	Tr
		: slightly magnetic	76501	639.0	644.0	5.0	Tr
		: minor sulphides	76502	644.0	649.0	5.0	Tr
		: 1% quartz veining	76503	649.0	654.0	5.0	Tr
		: 286.5' a 4" chert bed, dark gray, 10% pyrite and pyrrhotite and chalcopyrite	76504	654.0	659.0	5.0	Tr
		: 301.8' a 2" white/light gray chert, minor sulphides	76505	659.0	664.0	5.0	Tr
		: cherty interflow at 354.0' 1" minor sulphides at 371.4' 3" 20% pyrite and pyrrhotite	76506	664.0	669.5	5.5	Tr
		: coarse grained (mottled) from 309.0 to 352.0' 355.2 to 370.5'	76507	669.5	673.4	3.9	Tr
		374.2 to 394.8'	76508	673.4	679.0	5.6	Tr
		397.2 to 415.2'	76509	679.0	684.0	5.0	Tr
		: 5% pyrite in coarse grained sections	76510	684.0	689.0	5.0	Tr
		: from 443.3 to 446.7' foliated with chert and up to 20% sulphides (pyrrhotite and pyrite and chalco- pyrite) and magnetite bands	76511	689.0	694.0	5.0	Tr
		: cherty foliated from 456.5 to 458.5', 460.8 to 463.2' with magnetite bands	76512	694.0	699.0	5.0	Tr
		: from 473 to 615.9' fine grained and massive	76513	699.0	704.0	5.0	Tr
		: from 440 to 473' 10% quartz carbonate veining and generally 5% sulphides	76514	704.0	709.0	5.0	Tr
		: from 507.5 to 509.0' banded iron formation with slump features	76515	709.0	714.0	5.0	Tr
		: 509.4 to 509.8' chert. white to light gray	76516	714.0	719.0	5.0	Tr
		: from 538.3' to 538.9' and 539.8 to 540.2' quartz/ cherty bed with 5% sulphides	76517	719.0	724.0	5.0	Tr

From	To	Description	Sample No.	From	To	Length	AN
		: from 544.1 to 545.4' cherty with 15 to 20% pyrrhotite and pyrite : white surrounded to rounded masses from 588' to 604' 5% : 590.9' a 4" quartz rich band with 20% sulphides and magnetite : from 615.9 to 669.5' appears more altered : from 615.9 to 669.5' 10% quartz carbonate veining and 8% pyrite : magnetite concentration at 617.9' 2" : sulphide concentration at 619.1' 1" 30%					
669.5	673.4	Felsic Intrusive : contact 45° to core axis : light gray to white with chloritic green masses up to 2mm (20%) : fine grained at contacts : 1% quartz veining : minor finely disseminated pyrite					
673.4	731.0	Mafic Volcanic : fine grained with some very fine grained sections : light green to dark gray green in colour : foliation 65° to core axis : 10% quartz carbonate veining : 5 to 8% pyrite : brecciated containing quartz at: 678.0' 2" 683.2' 3" 684.3' 3" 686.2' 7" 689.9' 2" 697.0' 2" 703.4' 5" 704.4' 8"					
731.0		END OF HOLE					

MONETA PORCUPINE MINES Inc.

INCLINATION TESTS

HOLE: MV-87-S

Location: 968.89S/479.24E

Elevation: 9.81'

Length: 575.0'

Azimuth: 165°

Core Size: BQ

Logged By: W. MacRae

Claim No.: Pa 13397

DEPTH

DIP

DEPTH

DIP

collar

60°

575'

42°

254'

47°

500'

42°

PROJECT: Vermilion

Started: February 12, 1987.

Finished: February 14, 1987.

From	To	Description	Sample No.	From	To	Length	Au
0	6.0	Casing	44901	10.6	14.0	3.4	0.002
6.0	114.9	Pillowed Mafic Volcanic : dark green to medium green : fine grained : lightly foliated 60° to core axis : at 15.0' up to 20% pyrite in a 4" section of gray quartz rich material : 8 to 10% quartz carbonate veining : up to 5% pyrite as concentrations associated with quartz carbonate veining : at 26.2' a 2" quartz vein with black tourmaline and 5% sulphides (pyrite and chalcopyrite)	44902 44903 44904 44905 44906 44907 44908 44909 44910 44911 44912 44913 44914 44915 44916 44917 44918 44919 44920 44921 44922 44923 44924 44925 44926 44927 44928 44929	14.0 19.0 24.0 29.0 34.0 39.0 44.0 49.0 54.0 58.3 61.8 65.2 70.0 74.0 79.0 84.0 89.0 94.0 99.0 104.0 107.7 112.5 115.7 119.5 124.0 129.0 134.0 144.0 166.6	19.0 24.0 29.0 34.0 39.0 44.0 49.0 54.0 58.3 61.8 65.2 70.0 74.0 79.0 84.0 89.0 94.0 99.0 104.0 107.7 112.5 115.7 119.5 124.0 129.0 134.0 144.0 169.8	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 3.5 3.4 4.8 4.0 5.0 5.0 5.0 5.0 5.0 5.0 3.7 4.8 3.2 3.8 4.5 5.0 5.0 5.0 3.3 3.2	Tr Tr
114.9	411.5	Intermediate Lapilli Tuff : light green to gray in colour : fragments not always recognizable : 10% quartz carbonate veining and masses : 5% pyrite as concentrations to 200' : from 126.0' to 126.8' 10% pyrite : at 122.0' 1 1/2" x 1" fragment containing 20% pyrite : sulphide rich beds at: 154.4' with 20% pyrite : 1/2" 154.6' with 15% pyrite : 1" 179.0' with 20% pyrite : 3/8" 188.7' with 20% pyrite : 3/4" 196.0' with 25% pyrite : 2 1/2" 197.0' with 20% pyrite : 1/2" 216.4' with 20% pyrite : 1/2"					

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-87-5

From	To	Description	Sample No.	From	To	Length	Au
		309.3' with 30% pyrite and chalcopyrite 1"	44930	184.0	189.6	5.6	Tr
		: generally 1 to 2% very finely disseminated pyrite	44931	194.0	197.8	3.8	Tr
		: fragments up to 2"	44932	214.0	219.0	5.0	Tr
		: from approximately 200.0' on only 5% quartz carbonate veining	44933	231.3	234.0	2.7	Tr
		: 5% beds of crystal tuff	44934	249.1	254.0	4.9	Tr
		: gray with white flecks	44935	276.0	280.7	4.7	Tr
		: very chloritic	44936	286.7	292.0	5.3	Tr
		: foliation 70° to core axis	44941	308.8	311.9	3.1	0.002
			44942	394.0	398.0	4.0	0.002
			44943	398.0	402.8	4.8	Tr
			44944	402.8	407.4	4.6	Tr
			44945	407.4	411.6	4.2	Tr
			44946	411.6	417.0	5.4	Tr
			44947	417.0	420.8	3.8	Tr
			44948	420.8	424.0	3.2	Tr
			44949	424.0	429.0	5.0	Tr
			44950	429.0	434.0	5.0	Tr
			44951	434.0	439.0	5.0	Tr
			44952	439.0	444.0	5.0	Tr
			44953	444.0	449.0	5.0	Tr
			44954	449.0	454.0	5.0	Tr
			44955	464.0	469.3	5.3	Tr
			44956	474.0	479.0	5.0	Tr
			44957	479.0	484.0	5.0	Tr
			44958	484.0	489.0	5.0	Tr
			44959	489.0	494.0	5.0	Tr
			44960	494.0	499.0	5.0	Tr
			44961	499.0	504.0	5.0	Tr
			44962	504.0	509.0	5.0	Tr
			44963	509.0	514.0	5.0	Tr
			44964	514.0	519.0	5.0	Tr
			44965	519.0	524.0	5.0	Tr
			44966	544.0	549.0	5.0	Tr
			44967	549.0	554.0	5.0	Tr
			44968	554.0	559.0	5.0	Tr
			44969	559.0	564.0	5.0	Tr
411.6	575.0	Greywacke					
		: very fine grained					
		: more massive, obviously non fragmental					
		: dark gray in colour					
		: appears brecciated in places					
		: may have 20% coarser fragmental sections					
		: foliation 80° to core axis					
		: becomes finely bedded from 548.0' to end and gray					
		black in colour					
		: beds 1 to 2mm in thickness					
		: 3 to 5% quartz carbonate veining as very narrow					
		irregular veins					
		: generally 5% sulphides throughout with concentrations up to 20% in narrow beds?/fragments					
575.0		END OF HOLE					

MONETA PORCUPINE MINES Inc.

Location: 78.85S/378.36W

Elevation: -8.33'

Length: 824.

Azimuth: 347

Core Size: B0

Logged By: W. MacRae

Claim No.: Pa 13399

INCLINATION TESTS

HOLE: MV-37-7

PROJECT: Vermilion

DEPTH	DIP	DEPTH	DIP
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collar 60° 764' 50.

234° | 57°

4044 508

Started: February 7, 1987.

10. The following table shows the number of hours worked by 1000 workers in a certain industry.

Finished: February 10, 198

—
—
—

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-87-7

From	To	Description	Sample No.	From	To	Length	Au
		: rusty red slip at 517.1' : gray in colour : very fine grained from 526.8' to 534.0' : generally 5% finely disseminated pyrite : less than 5% quartz carbonate veining					
534.0	824.0	Pillowed Mafic Volcanic : as above : from 624.0' to 668.0' pillow selvages appear wider and contain more quartz and carbonate : dark gray/blue quartz vein at 786.0' 8" with 10% sulphides					
824.0		END OF HOLE					

MONETA PORCUPINE MINES Inc.

INCLINATION TESTS

HOLE: MV-87-E

Location: 757.36N/2208.69W

Elevation: 8.73'

Length: 844.0'

Azimuth: 165°

Core Size: BQ

DEPTH DIP DEPTH DIP

collar 60°

250' 44°

500' 36°

PROJECT: Vermilion

Logged By: W. MacRae

Claim No.: Pa 13394

Started: February 3, 1987.

Finished: February 5, 1987.

From	To	Description	Sample No.	From	To	Length	Au
0	9.0	Casing	44801	10.9	12.5	1.6	Tr
9.0	74.7	Pillowed Mafic Volcanics : fine grained : medium to dark green in colour : selvages are chloritic, fine grained zones containing quartz and carbonate veining with up to 5% pyrite : lightly carbonatized throughout : 5% pyrite occurs as euhedral and subhedral grains : amygdules up to 10% near selvages : 10% quartz carbonate veining : at 11.7' a 2.5" quartz vein : at 27.2' a 3" quartz vein	44802 44803 44804 44805 44806 44807 44808 44809 44810 44811 44812 44813 44814 44815 44816 44817 44818 44819 44820 44821 44822 44823 44824 44825 44826 44827 44828 44829	39.5 52.2 74.7 79.1 84.0 88.7 99.3 104.3 109.3 114.3 114.3 119.3 124.3 129.3 134.3 149.3 149.3 153.7 155.7 155.7 159.1 178.0 272.0 274.2 279.3 279.3 284.3 284.3 314.0 323.5 332.8 334.8 339.3 339.3 341.8 346.3	41.7 54.3 79.1 84.0 88.7 99.3 104.3 109.3 114.3 119.3 124.3 129.3 134.3 149.3 153.7 155.7 155.7 159.1 182.4 274.2 279.3 279.3 284.3 284.3 318.5 328.0 334.8 339.3 341.8 346.3	2.2 2.1 4.4 4.9 4.7 10.6 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 4.4 2.0 3.4 4.4 2.2 5.1 5.0 4.5 4.5 2.0 4.5 2.5 4.5	Tr Tr
74.7	155.7	Sheared Mafic Volcanics : very fine grained : possibly pillowed : foliated 60° to core axis : rounded amygdules scattered throughout : 15% quartz veining as irregular masses and very narrow stringers roughly parallel to foliation : 8% pyrite as euhedral and subhedral grains throughout with higher concentrations around quartz masses : fault gouge at 113.4' : very fine grained and light green from 144.3 to 153.7' : highly altered from 154.3 to 155.7' with 30%					

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-87-5

From	To	Description	Sample No.	From	To	Length	Au
		quartz carbonate veining and 20% pyrite	44830	355.3	358.8	3.5	
155.7	274.2	Basalt Flow : medium grained : medium to dark green in colour : 5% quartz carbonate veining as masses : 1 to 2% pyrite associated with veining : from 178 to 182.4 up to 30% quartz veining and 5% pyrite : becomes fine grained towards lower contact from 250.0 to 274.7'	44831 44832 44833 44834 44835 44836 44837 44838 44839 44840 44841	370.0 374.0 379.0 384.0 389.0 393.6 398.2 401.0 406.8 420.8 425.4 454.0	374.0 379.0 384.0 389.0 393.6 398.2 401.0 409.6 424.0 429.6 458.1	4.0 5.0 5.0 5.0 4.6 4.6 2.8 2.8 3.2 4.2 4.1	Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr
274.2	400.9	Sheared Mafic Volcanics : light to medium green : 5% quartz carbonate veining as masses and irregular veins : 5% scattered pyrite : possibly sheared pillows : foliated 60° to core axis : carbonate amygdules up to 5% up to approximately 290' : highly sheared from 334.8 to 339.2 : light gray/green with very fine grained from 324' to 371.8, gradational change at lower end : gray quartz at 340.8' 3" with 20% pyrite : 356.3 a 4" quartz vein with chlorite and 3% pyrite : fault gouge at 363.9, 383.0' : from 398.7 to 400.9' a felsic dyke with contacts 60° to core axis (very light gray in colour)	44842 44843 44844 44845 44846 44847 44848 44849 44850 44851 44852 44853 44854 44855 44856 44857 44858 44859	474.0 484.0 501.2 511.9 529.8 587.4 601.6 618.8 644.0 658.8 670.8 675.2 682.0 687.0 687.0 694.0 694.0 699.0 704.0 709.0 714.0	477.1 486.6 504.0 514.0 534.5 592.0 606.5 624.0 649.0 664.0 675.2 682.0 687.0 694.0 699.0 704.0 709.0 714.0	2.6 2.1 4.7 4.6 4.8 5.2 5.0 5.2 5.0 5.2 4.4 6.8 5.0 7.0 5.0 5.0 5.0 5.0 5.0	Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr
400.9	675.2	Pillowed Basalt flow : medium to dark green : fine grained : selvages contain quartz carbonate and up to 10% pyrite and minor amounts of black tourmaline : 5% amygdules in concentrations near selvages	44860 44861 44862 44863 44864 44865	714.0 719.0 724.0 729.0 734.0 739.0	719.0 724.0 729.0 734.0 739.0 744.0	5.0 5.0 5.0 5.0 5.0 5.0	Tr Tr Tr Tr Tr Tr

From	To	Description	Sample No.	From	To	Length	Au
		: quartz masses at: 473.3 : 2" 499.3 : 3" 474.1 : 2" 501.2 : 6" 475.7 : 3" 503.6 : 4" 479.6 : 1" 513.7 : 3" 490.2 : 2" 534.1 : 2" 491.9 : 3" 646.0 : 3" 496.8 : 2" 650.9 : 4" 498.0 : 1"	44866 44867 44868 44869 44870 44871 44872	744.0 748.7 754.0 759.0 764.0 769.0 774.0	748.7 754.0 759.0 764.0 769.0 774.0 779.0	4.7 5.3 5.0 5.0 5.0 5.0 5.0	Tz Tz Tz Tz Tz Tz Tz
675.2	764.0	: 10% quartz carbonate veining and masses : gray quartz at 533.9, 2" : light gray in colour from 529.7 to 534.0' and 545.5 to 549.0' : becomes dark green and finer grained at 589.9'					
		Sheared Mafic Volcanic : highly sheared from 675.2 to 764.0' : 25% quartz carbonate veining : 15% pyrite : brecciated in appearance— : fine grained : from 732.1 to 732.7, 20% pyrite : 70% quartz from 738.0 to 738.8' : gradual change into a higher more massive unit : generally 10% pyrite scattered throughout as concentrations generally associated with quartz veining					
764.0	844.0	Massive Basalt Flow : fine grained : light gray/green in colour : massive : 5% quartz carbonate veining : 1-2% pyrite as concentrations scattered throughout : quartz carbonate veining decreases to about 3% by end of hole : becomes dark green in colour but remains massive					

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-87-6

From	To	Description	Sample No.	From	To	Length	AS
844.0		to end of hole END OF HOLE					

MONETA PORCUPINE MINES Inc.				INCLINATION TESTS				HOLE: MV-86-E	
Location: 137.26N/63.89W		Elevation: 7.59'		DEPTH collar	DIP 67°	DEPTH	DIP	PROJECT: Vermilion	
Length: 436.0'		Azimuth: 154°						Started: December 9, 1986.	
Logged By: W. MacRae		Claim No.: Pa 13398						Finished: December 12, 1986.	
From	To	Description			Sample No.	From	To	Length	Au
0	4.0	Casing			23625	4.0	6.6	2.6	Tr
4.0	38.0	Sheared Mafic Volcanic : dark to medium green : fine grained : 15% quartz carbonate veining : 5 to 8% pyrite as subhedral masses up to 3/8" and finely disseminated pyrite : foliated 40° to core axis : at 23.4 appears to be amygdules up to 1/8"			23626	6.6	10.0	3.4	Tr
					23627	10.0	14.0	4.0	Tr
					23628	14.0	19.0	5.0	Tr
					23629	19.0	24.0	5.0	Tr
					23630	24.0	29.0	5.0	Tr
					23631	29.0	35.0	6.0	Tr
					23632	35.0	40.0	5.0	Tr
					23633	40.0	45.0	5.0	Tr
					23634	45.0	50.0	5.0	0.002
					23635	50.0	55.0	5.0	Tr
38.0	68.3	Mafic Volcanic : massive : very fine grained : medium green in colour : 5% quartz carbonate veining except from 47.2 to 48.9', 20% : 1% pyrite as occasional subhedral mass			23636	55.0	60.0	5.0	Tr
					23638	60.0	65.0	5.0	Tr
					23639	65.0	71.0	6.0	Tr
					23640	71.0	76.0	5.0	Tr
					23641	76.0	81.0	5.0	Tr
					23642	81.0	86.0	5.0	Tr
					23643	86.0	91.0	5.0	Tr
					23644	91.0	96.0	5.0	Tr
68.3	111.0	Sheared Mafic Volcanic : light gray/green in colour : fine grained : massive to foliated 50° to core axis : 10% quartz veining with black tourmaline : 1/2" gray quartz bed at 96.7' with 20% sulphides			23645	96.0	101.0	5.0	0.002
					23646	101.0	106.0	5.0	Tr
					23647	106.0	111.0	5.0	Tr
					23648	111.0	116.0	5.0	Tr
					23649	116.0	121.0	5.0	Tr
					23650	121.0	126.0	5.0	Tr
					23651	126.0	131.0	5.0	0.002
111.0	134.2	Altered Mafic Volcanic : very fine grained			23652	131.0	136.0	5.0	0.004
					23653	136.0	141.0	5.0	Tr

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-86 - E

From	To	Description	Sample No.	From	To	Length	Ac
		: dark grey/green in colour	23654	141.0	146.0	5.0	Tr
		: 3 to 5% quartz veining	23655	146.0	151.0	5.0	Tr
		: 5 to 8% pyrite as subhedral masses and fine disseminated grains	23656	151.0	156.0	5.0	Tr
		: foliated 50 to 60° to core axis	23657	156.0	161.0	5.0	Tr
		: from 127.7 to 128.4' 60% quartz carbonate with 10% sulphides	23658	161.0	166.0	5.0	Tr
		: from 132.1 to 134.3' 30% quartz carbonate with minor sulphides	23659	166.0	171.0	5.0	Tr
			23660	171.0	176.0	5.0	Tr
			23661	176.0	181.0	5.0	Tr
			23662	181.0	186.0	5.0	0.002
			23663	186.0	191.0	5.0	Tr
134.2	163.0	Mafic Volcanic	23664	191.0	196.0	5.0	0.006
		: light gray/green in colour	23665	196.0	201.0	5.0	Tr
		: massive	23666	201.0	206.0	5.0	Tr
		: 5% quartz veining	23667	206.0	211.0	5.0	0.002
		: fine grained	23668	211.0	216.0	5.0	Tr
		: minor finely disseminated pyrite	23669	216.0	221.0	5.0	Tr
			23670	221.0	226.0	5.0	Tr
163.0	416.5	Altered, Sheared Mafic Volcanic	23671	226.0	231.0	5.0	0.002
		: dark green from 163.0 to 166.9'	23672	231.0	236.0	5.0	0.004
		: from 166.9 to 171.0' very light gray/green	23673	236.0	241.0	5.0	0.008
		: 5 to 8% sulphides throughout with 30% sulphides from 166.9 to 167.2' with a gray quartz	23674	241.0	246.0	5.0	0.002
		: 10% quartz carbonate veining	23675	246.0	251.0	5.0	Tr
		: bedding 40 to 60° to core axis	23676	251.0	256.0	5.0	0.008
		: from 181 to 236' becomes more massive and varies from light gray to medium green in colour, also 5% quartz veining and 3 to 5% very finely disseminated pyrite throughout	23677	256.0	261.0	5.0	0.004
			23678	261.0	266.0	5.0	Tr
			23679	266.0	271.0	5.0	Tr
			23680	271.0	276.0	5.0	Tr
			23681	276.0	281.0	5.0	0.008
		: foliated 60° to core axis at 123.5'	23682	281.0	286.0	5.0	Tr
		: from 236 to 277.8 becomes medium to dark green with quartz veining up to 8% and minor pyrite	23683	286.0	291.0	5.0	Tr
		: at 260.0' 1" blue/gray quartz with 10% pyrite	23684	291.0	296.0	5.0	Tr
		: from 277.8 to 287.2' up to 20% quartz veining with black chert at 281.3 1.5" and 284.4' 2"	23685	296.0	301.0	5.0	Tr
		: 8 to 10% sulphides (pyrite and chalcopyrite) associated with quartz material	23686	301.0	304.3	4.3	Tr
			23687	304.3	307.8	3.5	Tr
			23688	307.8	311.0	3.2	0.014
			23689	311.0	316.0	5.0	0.002

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-86-E

From	To	Description	Sample No.	From	To	Length	Au
		: from 304.3 to 307.7' a light gray colour with 25% quartz carbonate veining and 10% pyrite and chalcopyrite	23690	316.0	321.0	5.0	0.011
		: from 307.7 to 318.0' medium to dark green with 30% quartz carbonate veining and masses and 5 to 8% pyrite as subhedral masses up to 1/8"	23691	321.0	326.0	5.0	0.009
		: gray quartz at 331.3 : 1" 10% pyrite	23692	326.0	331.0	5.0	Tr
		332.3 : 3" 30% pyrite	23693	331.0	336.0	5.0	Tr
		336.8 : 2" 20% pyrite	23694	336.0	341.0	5.0	Tr
		347.4 : 3" 20% pyrite	23695	341.0	346.0	5.0	Tr
		367.8 : 4" 20% pyrite	23696	346.0	351.0	5.0	Tr
		: from 389.2 to 395.4' 30 to 40% quartz carbonate veining and masses with 20% sulphides	23697	351.0	356.0	5.0	Tr
		: from 399.6 to 426.5' 30% quartz carbonate veining and masses with 5 to 8% sulphides	23698	356.0	361.0	5.0	Tr
			23699	361.0	366.0	5.0	Tr
			23700	366.0	371.0	5.0	Tr
			23701	371.0	376.0	5.0	Tr
			23702	376.0	381.0	5.0	Tr
			23703	381.0	386.0	5.0	Tr
			23704	386.0	389.2	3.2	Tr
			23705	389.2	393.7	4.5	0.010
416.5	436.0	Mafic Volcanics	23706	393.7	399.3	5.6	Tr
		: dark green	23707	399.3	403.2	3.9	0.008
		: massive, fine grained	23708	403.2	406.9	3.7	Tr
		: 5% quartz carbonate veining	23709	406.9	411.8	4.9	Tr
		: 1 to 2% disseminated pyrite	23710	411.8	416.5	4.7	Tr
		: 10% grey/white speckles (leucoxene?)	23711	416.5	421.6	5.1	Tr
436.0		END OF HOLE	23712	421.6	426.0	4.4	Tr
			23713	426.0	431.0	5.0	Tr
			23714	431.0	436.0	5.0	Tr

MONETA PORCUPINE MINES Inc.

INCLINATION TESTS

HOLE: MV-86-4

Location: 96.44N/41.25W

Elevation: 2.85'

DEPTH DIP DEPTH DIP

Length: 446.0'

Azimuth: 154°

Core Size: BQ

collar 70°

306' 55.5°

396' 51.5°

PROJECT: Vermilion

Logged By: W. MacRae

Claim No.: Pa 13398

Started: December 3, 1985.

Finished: December 7, 1986.

From	To	Description	Sample No.	From	To	Length	Au
0	14.0	Casing	44701	14.0	18.2	4.2	Tr
14.0	255.8	Altered Sheared Mafic Volcanic : dark green in colour : chloritic, fine grained : 10% narrow irregular quartz veining : 5% pyrite as euhedral crystals up to 3/8" : 22.0' 10" white quartz vein; upper contact 20° to core axis; milky white with minor chloritic wisps : 23.0 to 25.0' ground : muddy appearing on upper side : silica rich section from 38.2 to 38.7' with gray quartz and 15% sulphides; from 47.6 to 48.6' with gray quartz and 20% sulphides (pyrite) : 63.8 to 66.6' milky white quartz vein; minor chlorite; upper contact 30° to core axis; lower contact 330° to core axis; sulphide concentration associated with lower contact in wall rock : 68.5 to 73.5' white quartz vein with chlorite; upper contact very close to core axis; lower contact 10° to core axis : 80.1" quartz tourmaline vein : 104.9' 1/2" quartz tourmaline vein : sulphide (pyrite) concentrations associated with quartz concentrations at; 144.3' 1" gray quartz 50% sulphides; 154.7' 1.5" gray/white quartz 20% sulphides : foliation at 135.0' 30° to core axis	44702	18.2	23.1	4.9	
			44703	23.1	28.0	4.9	Tr
			44704	28.0	32.9	4.9	0.006
			44705	32.9	38.0	5.1	Tr
			44706	38.0	43.9	5.9	Tr
			44707	43.9	46.8	2.9	Tr
			44708	46.8	48.9	2.1	0.008
			44709	48.9	50.8	1.9	Tr
			44710	50.8	55.0	4.2	Tr
			44711	55.0	60.0	5.0	Tr
			44712	60.0	63.7	3.7	Tr
			44713	63.7	66.7	3.0	Tr
			44714	66.7	68.8	2.1	Tr
			44715	68.8	73.5	4.7	Tr
			44716	73.5	76.0	2.5	Tr
			44717	76.0	81.0	5.0	Tr
			44718	81.0	86.0	5.0	Tr
			44719	86.0	91.0	5.0	Tr
			44720	91.0	96.0	5.0	Tr
			44721	96.0	101.0	5.0	Tr
			44722	101.0	106.0	5.0	Tr
			44723	106.0	111.0	5.0	Tr
			44724	111.0	116.0	5.0	Tr
			44725	116.0	121.0	5.0	Tr
			44726	121.0	126.0	5.0	0.058
			44727	126.0	131.0	5.0	Tr
			44728	131.0	136.0	5.0	Tr
			44729	136.0	141.0	5.0	Tr

From	To	Description	Sample No.	From	To	Length	Au
		: from 151.0' on quartz veining increases to 15%	44730	141.0	146.0	5.0	Tr
		: from 178.6 to 180.8' quartz rich with gray and white quartz and up to 10% pyrite	44731	146.0	151.0	5.0	Tr
		: from 203.9 to 205.2' 40% quartz veining with 5 to 8% pyrite	44732	151.0	156.0	5.0	Tr
		: 227.7' 3" gray quartz (chert) with 20% sulphides	44733	156.0	161.0	5.0	Tr
		263.0' 2" gray quartz with 20% pyrite and 1' of 70% quartz veining down hole	44734	161.0	166.0	5.0	Tr
		: 270.8 to 272.5' quartz carbonate veining with 10% sulphides and 20% quartz carbonate veining	44735	166.0	171.0	5.0	Tr
		: 278.8 to 288.4' quartz carbonate veining with 20% disseminated pyrite and in wispy bands 20% quartz carbonate veining; gray in colour	44736	171.0	176.0	5.0	Tr
		: irregular patches of quartz carbonate veining up to 10% throughout	44737	176.0	179.3	3.3	Tr
		291.7 1" gray quartz with 25% sulphides	44738	179.3	181.8	2.5	Tr
		302.1 3" gray quartz with 20% sulphides	44739	181.8	184.1	2.3	Tr
		312.7 2" gray quartz with 10% sulphides	23501	184.0	188.1	4.1	Tr
		318.8 1" gray quartz with 15% sulphides	23502	188.1	191.0	2.9	Tr
		324.3 2" gray quartz with 20% sulphides	23503	191.0	196.0	5.0	Tr
		333.2 2" gray quartz with 10% sulphides	23504	196.0	201.0	5.0	Tr
		349.4 7" gray quartz with 20% sulphides	23505	201.0	206.0	5.0	Tr
		353.3 7" gray quartz with 30% sulphides	23506	206.0	211.0	5.0	Tr
		355.4 6" gray quartz with 20% sulphides	23507	211.0	216.0	5.0	Tr
			23508	216.0	221.0	5.0	Tr
			23509	221.0	226.0	5.0	Tr
			23510	226.0	231.0	5.0	Tr
			23511	231.0	236.0	5.0	Tr
			23512	236.0	241.0	5.0	Tr
			23513	241.0	246.0	5.0	Tr
			23514	246.0	251.0	5.0	Tr
			23515	251.0	256.0	5.0	Tr
255.8	446.0	Mafic Volcanic	23516	256.0	261.0	5.0	0.008
		: massive	23517	261.0	266.0	5.0	0.002
		: light to medium green	23518	266.0	270.4	4.4	Tr
		: 5 to 10% quartz veining, irregular masses	23519	270.4	272.8	2.4	0.002
		: 368.8' 2" white quartz vein with 10% pyrite	23520	272.8	276.0	3.2	0.016
		: 434.4 to 435.2' 30% quartz veining and 1/4" pyrite bed at 435.4'	23521	276.0	278.9	2.9	0.002
		: 439.0 to 440.4' 20% quartz veining and minor sulphides; appears to be a flow contact with glossy fragments	23522	278.9	281.6	2.7	Tr
			23523	281.6	283.6	2.0	0.044
			23524	283.6	286.0	2.4	0.024
			23525	286.0	288.4	2.4	Tr

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-86-4

From	To	Description	Sample No.	From	To	Length	Au
446.0		END OF HOLE	23527	292.0	296.0	3.9	Tr
			23528	296.0	301.0	5.0	0.006
			23529	301.0	306.0	5.0	Tr
			23530	306.0	311.0	5.0	Tr
			23531	311.0	316.0	5.0	0.004
			23532	316.0	321.0	5.0	Tr
			23533	321.0	326.0	5.0	Tr
			23534	326.0	331.0	5.0	Tr
			23535	331.0	336.0	5.0	Tr
			23536	336.0	341.0	5.0	0.002
			23537	341.0	346.0	5.0	0.008
			23538	346.0	351.0	5.0	0.010
			23539	351.0	356.0	5.0	0.026
			23540	356.0	361.0	5.0	Tr
			23541	361.0	366.0	5.0	Tr
			23542	366.0	371.0	5.0	Tr
			23543	371.0	376.0	5.0	Tr
			23544	376.0	381.0	5.0	Tr
			23545	381.0	386.0	5.0	Tr
			23546	386.0	391.0	5.0	Tr
			23547	391.0	396.0	5.0	Tr
			23548	396.0	402.0	6.0	Tr
			23601	402.0	406.0	4.0	Tr
			23602	406.0	411.0	5.0	Tr
			23603	411.0	416.0	5.0	Tr
			23604	416.0	421.0	5.0	Tr
			23605	421.0	426.0	5.0	Tr
			23606	426.0	431.0	5.0	Tr
			23607	431.0	436.0	5.0	0.012
			23608	436.0	441.0	5.0	0.002
			23609	441.0	446.0	5.0	Tr

MONETA PORCUPINE MINES Inc.				INCLINATION TESTS				HOLE: MV-36-3
Location: 68.55S/382.26W	Elevation: -8.08'	DEPTH	DIP	DEPTH	DIP			
Length: 306.0'	Azimuth: 130°	collar	58°					PROJECT: Vermilion
Core Size: BQ	306'	41°						Started: November 30, 1986.
Logged By: W. MacRae	Claim No.: Pa 13399							Finished: December 2, 1986.

From	To	Description	Sample No.	From	To	Length	Au
0	7.0	Casing	23549	7.0	11.5	4.5	Tr
7.0	101.2	Mafic Volcanics : variable colour from medium to dark green : medium to fine grained : from 15.0 to 17.6' 40% quartz veining and masses with minor chalcopyrite : quartz veining occurs generally as concentrations separated by fairly massive material : 5% rounded quartz masses up to 1/4", possibly amygdules : 2 to 4% pyrite throughout as masses up to 3/8" and finely disseminated : from 93.3 to 93.9 quartz masses up to 40% with 5% pyrite	23550 23551 23552 23553 23554 23555 23556 23557 23558 23559 23560 23561 23562 23563 23564 23565 23566 23567 23568 23569 23570 23571 23572 23573 23574 23575 23576 23577	11.5 14.0 19.0 24.0 27.8 33.8 39.0 44.0 50.0 56.0 61.0 66.0 71.0 76.0 81.0 86.0 89.0 89.0 94.0 94.0 99.0 99.0 101.5 104.9 109.0 112.9 116.0 122.0 126.0 131.0 133.7 133.7	14.0 19.0 24.0 27.8 33.8 39.0 44.0 50.0 56.0 61.0 66.0 71.0 76.0 81.0 86.0 89.0 94.0 99.0 101.5 104.9 109.0 112.9 116.0 122.0 126.0 131.0 133.7 138.0	2.5 5.0 5.0 3.8 6.0 5.2 5.0 6.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 3.0 5.0 5.0 2.5 3.4 4.1 3.9 3.1 6.0 4.0 5.0 2.7 4.3	Tr Tr
101.2	133.7	Transition Zone : highly rubbly : dark green in colour with light green sections from 109.0 to 112.3 and 115.8 to 125.7 : 20 to 30% quartz veining and masses : 10% sulphides as disseminated and masses of pyrite : appears to have primary and secondary brecciation					
133.7	146.9	Altered Fault Zone : light gray in colour with red shear planes and joints : massive : very fine grained					

From	To	Description	Sample No.	From	To	Length	Au
		: red fault gouge at 139.2'	23578	138.0	140.7	2.7	Tr
		: 10% irregular narrow quartz veining	23579	140.7	142.7	2.0	Tr
		: 10% wispy sericite alteration	23580	142.7	145.0	2.3	Tr
		: minor sulphides	23581	145.0	146.9	1.9	Tr
			23582	146.9	151.0	4.1	Tr
146.7	195.0	Interflow Sediment	23583	151.0	156.0	5.0	Tr
		: gray in colour	23584	156.0	161.0	5.0	Tr
		: very fine grained	23585	161.0	166.0	5.0	Tr
		: massive from 146.9 to 152.2	23586	166.0	171.0	5.0	Tr
		: foliated and altered from 152.2 to 195.0 with 5 to	23587	171.0	175.7	4.7	Tr
		8% pyrite as finely disseminated grains and masses;	23588	175.7	179.1	3.4	Tr
		20 to 20% quartz veining; and 5% sericite as wisps	23589	179.1	183.0	3.9	Tr
		and up to 4" patches	23590	183.0	188.0	5.0	Tr
		: from 180.4 to 181.0 a sulphide rich zone with 15%	23591	188.0	193.0	5.0	Tr
		pyrite and 30% quartz veining and masses	23592	193.0	195.0	2.0	0.010
		: small bands of pyrite at 183.5 a 2" band with 30%	23593	195.0	199.1	4.1	Tr
		and at 194.2 a 3" band with 40%	23594	199.0	203.0	4.0	Tr
			23595	203.0	206.0	3.0	Tr
195.0	306.0	Mafic Volcanic	23596	206.0	211.0	5.0	Tr
		: massive	23597	211.0	216.0	5.0	Tr
		: medium to dark green in colour	23598	216.0	221.0	5.0	Tr
		: fine grained to 254.0 with a gradual change to	23599	221.0	226.0	5.0	Tr
		medium grained	23600	226.0	231.6	5.6	Tr
		: 20% quartz veining containing 10% sulphides	23610	231.6	236.0	4.4	Tr
		: most quartz veining 50° to core axis	23611	236.0	241.0	5.0	Tr
		: coarse brecciation from 213' to 224'	23612	241.0	246.0	5.0	Tr
		: gray quartz bands at:	23613	246.0	251.0	5.0	Tr
		237.8 a 1" bed with 20% pyrite	23614	251.0	256.0	5.0	Tr
		244.6 a 1" bed with 20% pyrite	23615	256.0	261.0	5.0	Tr
		246.9 a 1/2" bed with 15% pyrite	23616	261.0	266.0	5.0	Tr
		247.9 a 2" bed with 25% pyrite	23617	266.0	271.0	5.0	Tr
		248.8 a 1.5" bed with 15% pyrite	23618	271.0	276.0	5.0	Tr
		250.5 a 1" bed with 10% pyrite	23619	276.0	281.0	5.0	Tr
		: generally 1 to 2% finely disseminated pyrite	23620	281.0	286.0	5.0	Tr
		throughout	23621	286.0	291.0	5.0	0.006
		: quartz carbonate veining and concentrations from	23622	291.0	296.0	5.0	Tr

MONETA PORCUPINE MINES Inc.

PROJ: vermilion

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HOLE: MV-86-3

From	To	Description	Sample No.	From	To	Length	Au
		283.2 to 283.5 with 40% quartz, 10% pyrite (60° to core axis) from 288.0 to 288.4 with 30% quartz, 5% pyrite (40° to core axis)	23623 23624	296.0 301.0	301.0 306.0	5.0 5.0	Tr Tr
306.0		END OF HOLE					

MONETA PORCUPINE MINES Inc.

INCLINATION TESTS

HOLE: MV-86-2

Location: 1.67S/254.20W

Elevation: -38.19'

DEPTH DIP DEPTH DIP

Length: 296.0'

Azimuth: 154°

Core Size: BQ

collar

54°

296'

41°

PROJECT: Vermilion

Logged By: W. MacRae

Claim No.: Pa 13399

Started: November 27, 1985.

Finished: November 30, 1985.

From	To	Description	Sample No.	From	To	Length	Au
0	21.0	Casing	44740	21.0	26.0	5.0	0.004
21.0	114.5	Mafic Volcanic : dark green in colour : very fine grained : up to 5% narrow irregular quartz veining : 5% pyrite as euhedral crystals up to 3/8" : 71.3 to 76.1 highly foliated 55° to core axis : 26.9 to 1/2" quartz tourmaline vein : 56.5 a 1" quartz vein : from 71.3 to 76.1 20% quartz and up to 20% pyrite as disseminated and euhedral grains : 81.1 a 2" gray quartz with 20% pyrite : 82.6 a 2" gray quartz with 20% pyrite	44741 44742 44743 44744 44745 44746 44747 44748 44749 44750 44751 44752 44753 44754 44755 44756 44757 44758 44759 44760 44761 44630 44631 44632 44633 44634	26.0 33.0 33.0 37.6 41.7 45.0 50.0 55.0 60.0 64.0 67.5 71.3 74.0 77.0 80.9 84.0 89.0 89.0 93.0 93.0 96.0 96.0 101.0 106.0 109.5 109.5 113.5 115.0 117.5 120.0 122.5 125.0	33.0 37.6 41.7 45.0 50.0 55.0 60.0 64.0 67.5 71.3 74.0 77.0 80.9 84.0 89.0 93.0 96.0 101.0 106.0 109.5 113.5 115.0 117.5 120.0 122.5 125.0	7.0 4.6 4.1 3.3 5.0 5.0 5.0 5.0 4.0 3.5 2.7 4.0 3.9 3.2 5.0 4.0 3.0 5.0 5.0 3.5 4.0 2.5 2.5 2.5 2.5	Tr Tr
114.5	135.0	Altered Mafic Volcanic : light to medium green in colour : fine grained : 10% quartz veining : quartz rich areas from 119.8 to 120.1' 20% quartz and 10% pyrite; 130.2 to 131.0' 20% quartz and 20% pyrite; 133.5 to 133.9' 80% quartz and 5% pyrite : 5% pyrite as euhedral and finely disseminated grains associated with quartz material throughout section					0.016
135.0	269.7	Mafic Volcanic					0.002

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-86-2

From	To	Description	Sample No.	From	To	Length	Au
		: foliated 60° to core axis	44635	125.0	127.5	2.5	Tr
		: fine grained	44636	127.5	130.0	2.5	Tr
		: generally 15 to 20% quartz veining except from 139.0 to 146.4' with 30 to 40% quartz carbonate veining	44637	130.0	132.5	2.5	Tr
		: 5 to 8% pyrite as disseminated grains associated with gray quartz bands and disseminated throughout	44638	132.5	135.0	2.5	Tr
		: appears fragmental from 174.0 to 176.0 and 186.0 to 246.0	44639	135.0	137.5	2.5	Tr
		: gray quartz bands at	44640	137.5	140.0	2.5	Tr
		201.5 : 3" with 15% pyrite	44641	140.0	142.5	2.5	Tr
		211.5 : 1/2" with 20% pyrite	44642	142.5	145.0	2.4	- Tr
		213.8 : 1" with 10% pyrite	44643	145.0	147.5	2.5	Tr
		219.4 : 1/2" with 10% pyrite	44644	147.5	150.0	2.5	Tr
			44645	150.0	152.5	2.5	0.002
			44646	152.5	155.0	2.5	0.010
			44647	155.0	157.5	2.5	Tr
			44648	157.5	160.0	2.5	Tr
			44649	160.0	162.5	2.5	Tr
269.7	290.0	Altered Mafic Volcanic	44650	162.5	165.0	2.5	Tr
		: light gray to light green in colour	44651	165.0	167.5	2.5	Tr
		: foliated 60° to core axis	44652	167.5	170.0	2.5	Tr
		: 20% quartz carbonate veining	44653	170.0	175.0	5.0	Tr
		: from 271.0 to 271.5 : 10% chalcopyrite	44764	175.0	181.0	6.0	0.004
		: 10% sulphides as disseminated grains and concentrations around quartz material	44765	181.0	186.0	5.0	0.002
			44766	186.0	191.0	5.0	Tr
			44767	191.0	196.0	5.0	Tr
290.0	296.0	Mafic Volcanic	44768	196.0	201.0	5.0	0.002
		: dark green in colour	44769	201.0	206.0	5.0	Tr
		: massive	44770	206.0	211.0	5.0	0.002
		: 10% irregular quartz veins	44771	211.0	216.0	5.0	Tr
		: minor disseminated pyrite	44772	216.0	221.0	5.0	Tr
			44773	221.0	226.0	5.0	Tr
296.0		END OF HOLE	44774	226.0	231.0	5.0	0.006
			44775	231.0	236.0	5.0	Tr
			44776	236.0	241.0	5.0	Tr
			44777	241.0	246.0	5.0	Tr
			44778	246.0	251.0	5.0	Tr
			44779	251.0	256.0	5.0	Tr
			44780	256.0	261.0	5.0	0.004

MONETA PORCUPINE MINES Inc.

PROJ: Vermilion

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HOLE: MV-86-2

From	To	Description	Sample No.	From	To	Length	Au
			44781 44782	261.0 266.0	266.0 270.0	5.0 4.0	0.014 Tr

MONETA PORCUPINE MINES Inc.

Location: 32.00N/116.06W

Elevation: -8.57'

Length: 300.0'

Azimuth: 154°

Core Size: BQ

Logged By: W. MacRae

Claim No.: Pa 13398

INCLINATION TESTS

DEPTH DIP DEPTH DIP

collar 60°

300' 54°

HOLE: MV-86-1

PROJECT: Vermilion

Started: November 23, 1986

Finished: November 26, 1986

From	To	Description	Sample No.	From	To	Length	Au
0	10.0	Casing	44601	10.0	12.0	2.0	0.002
10.0	22.0	Mafic Volcanic : medium to dark green in colour : foliated 55° to core axis : 10% quartz veining as narrow irregular veins and masses : 5% pyrite as euhedral and disseminated grains in concentrations associated with quartz material	44602 44603 44604 44605 44606 44607 44608 44609 44610 44611 44612 44613 44614 44615 44616 44617 44618 44619 44620 44621 44622 44623 44624 44625 44626 44627 44628	12.0 14.5 17.0 19.5 22.0 24.5 27.0 29.5 32.0 34.5 37.0 39.5 42.0 44.5 47.0 49.5 52.0 54.5 57.0 59.5 62.0 64.5 67.0 69.5 72.0 74.5 77.0 79.5	12.0 14.5 17.0 19.5 22.0 24.5 27.0 29.5 32.0 34.5 37.0 39.5 42.0 44.5 47.0 49.5 52.0 54.5 57.0 59.5 62.0 64.5 67.0 69.5 72.0 74.5 77.0 79.5	2.0 2.5	0.002 0.002 0.002 0.012 0.010 0.028 0.008 0.006 0.217 0.040 0.084 0.038 0.004 Tr 0.002 Tr 0.012 0.006 Tr Tr 0.032 0.010 Tr Tr Tr Tr 0.002
22.0	37.5	Silicified Mafic Volcanics : very fine grained : dark gray in colour : 20% pyrite as fine grained and wispy beds : 20% irregular quartz veining					
37.5	88.0	Mafic Volcanic : fine grained : light green in colour : foliated approximately 50° to core axis : 10 to 15% quartz carbonate veining : 5% pyrite as subhedral crystals and finely disseminated grains : from 55.3 to 57.6 60% quartz with 15% finely disseminated pyrite					


MONETA PORCUPINE MINES Inc.

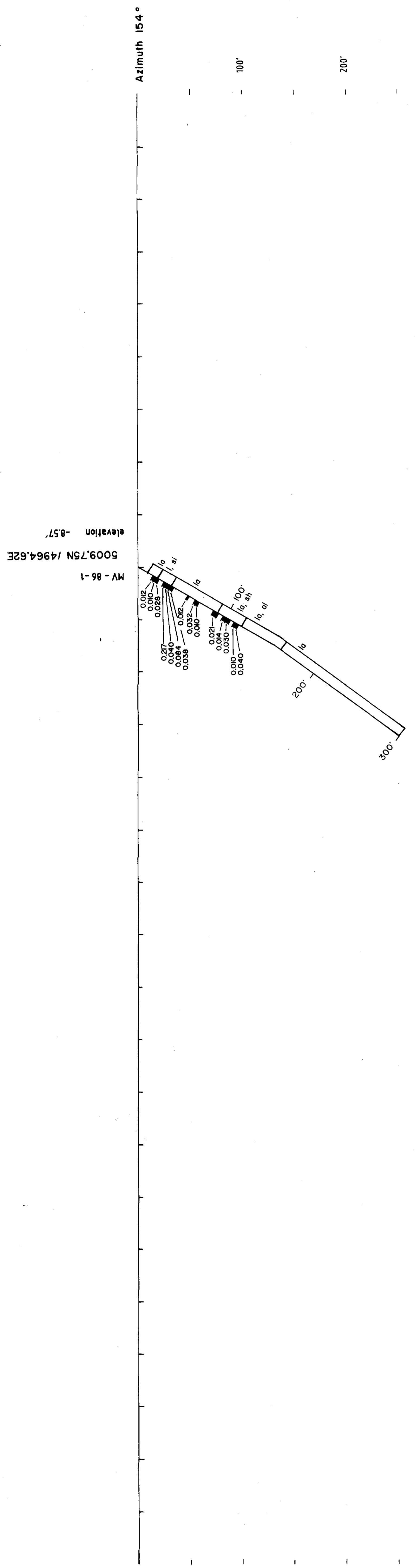
PROJ: Vermilion

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HOLE: MV-86 - 1

From	To	Description	Sample No.	From	To	Length	Au
		: at 194.1 3/8" gray quartz with 40% sulphides	44687	226.0	231.0	5.0	Tr
		at 197.8' a 2" gray quartz vein with 40% sulphides	44688	231.0	236.0	5.0	Tr
		: at 232.8 2" gray quartz with 40% sulphides	44689	236.0	241.0	5.0	Tr
		: 237.7 1/4" gray quartz vein with 45% sulphides	44690	241.0	246.0	5.0	Tr
		: 208.0 1" blue-gray quartz with 20% sulphides	44691	246.0	251.0	5.0	Tr
		: 208.6 5" blue gray quartz with 20% sulphides	44692	251.0	256.0	5.0	Tr
		: generally 1 to 2% very finely disseminated pyrite throughout with higher concentrations near quartz veining	44693	256.0	260.4	4.4	Tr
		: 261.3 8" containing 70% quartz	44762	260.4	264.0	3.6	Tr
		: 276.5 6" gray quartz with 20% sulphides	44694	264.0	269.0	5.0	Tr
300.0		END OF HOLE	44695	269.0	274.0	5.0	Tr
			44696	274.0	279.0	5.0	Tr
			44697	279.0	284.0	5.0	Tr
			44698	284.0	289.0	5.0	Tr
			44699	289.0	294.0	5.0	Tr
			44700	294.0	300.0	6.0	Tr





LEGEND

Location of anomalous (> 0.010)
gold assays in ounces per ton

ROCK TYPE

- 1 Mafic Volcanics
 - a) massive
 - b) pillowd
 - 2 Intermediate Volcanics
 - a) lapilli tuff
 - b) interflow
 - c) greywacke
 - d) iron formation
 - 3 Sediments
 - 4 Felsic Intrusive
 - a) Igneous Intrusive
 - i) plutonic
 - ii) hypabyssal
 - iii) volcanic
 - b) Metamorphic Intrusive
 - i) contact
 - ii) regional
 - c) Metamorphic rocks
 - i) foliation
 - ii) metamorphic grade
 - iii) metamorphic facies
 - d) Metamorphic zones
 - i) transition zone
 - ii) shear zone
 - iii) altered zone
 - e) Metamorphic minerals
 - i) silicified

MONETA PORCUPINE MINES Inc.

DIAMOND DRILL SECTION MV-86-1

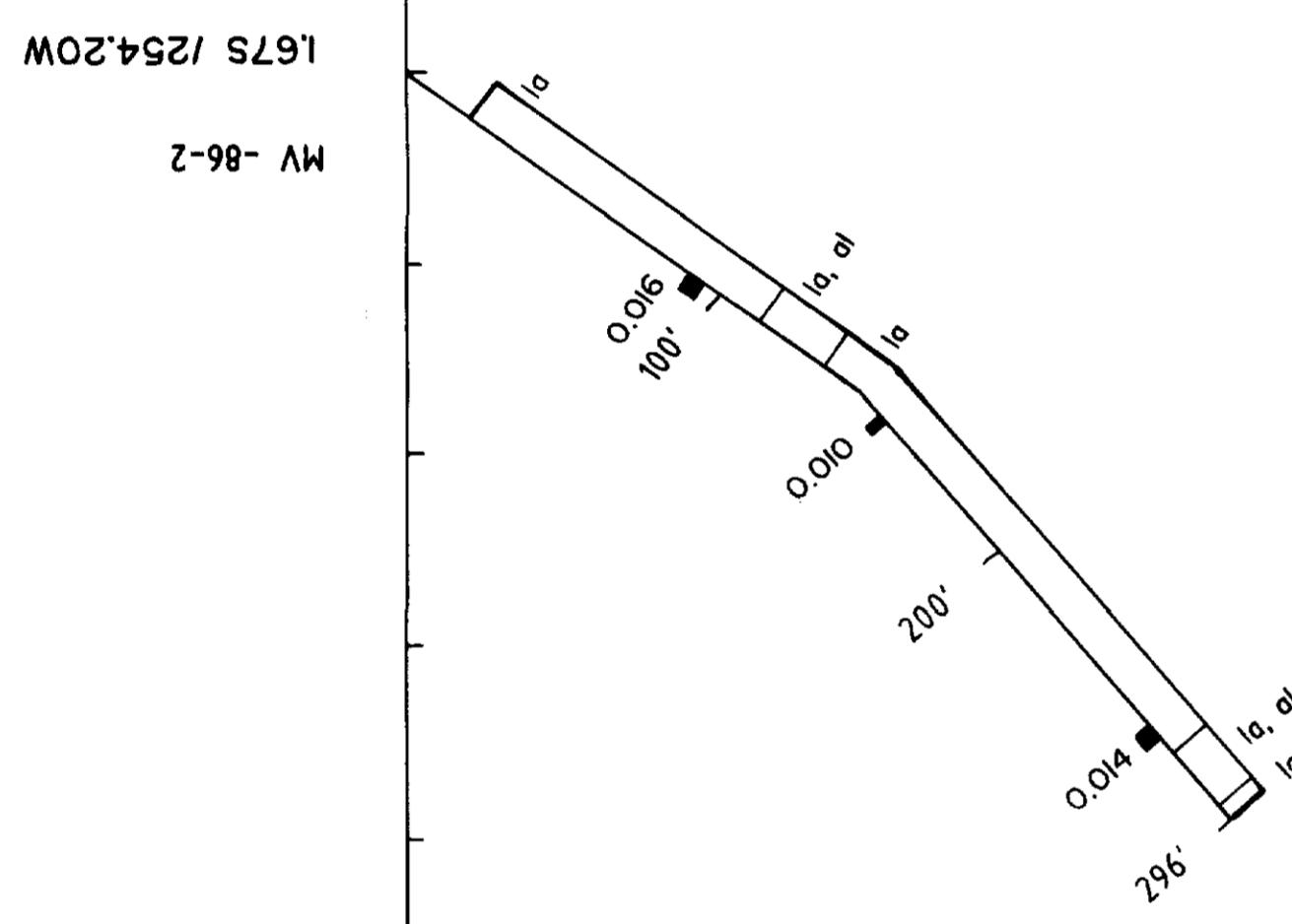
Property: VERMILION
Mining Div.: PATRICIA **Twp.:** Vermillion, Jordan, Draw
100' 20' 30'

N. I.S. 32 N/1	Date: 13/10/07
<i>Drawn By:</i> W. MacRae	<i>Drawing No.:</i>
Scale: 1" - 50'	

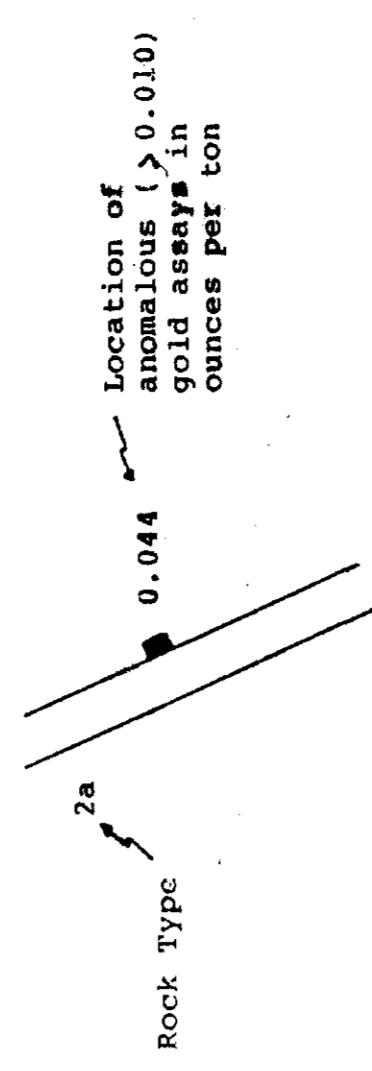
WAN William E. MacRae Geological Services

A standard linear barcode is positioned vertically along the left edge of the page.

Azimuth 154°
Elevation -389'



LEGEND



ROCK TYPE

Location of anomalous (> 0.010 g/t Au) in
0.044 m section per sonde

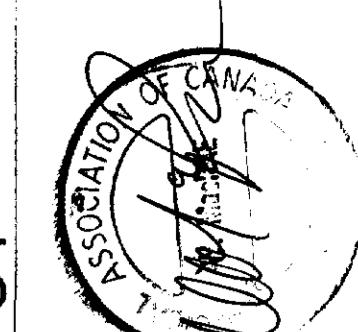
MONETA PORCUPINE MINES Inc.

DIAMOND DRILL SECTION MV-86-2
LOOKING WEST

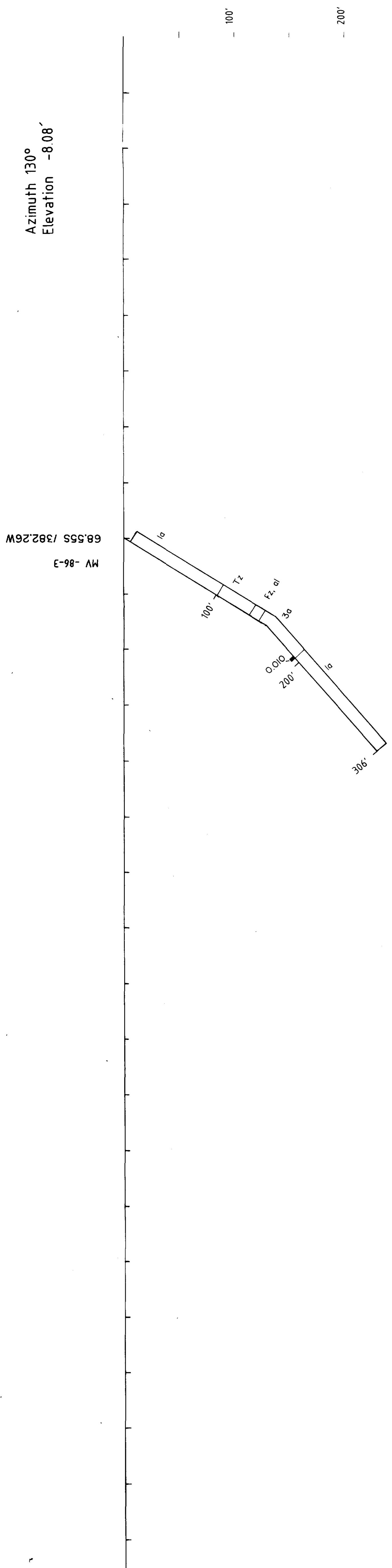
Property: VERMILION

Mining Div.: PATRICIA Twp.: Vermillion, Jordan, Drayton
N.T.S. 52 K/1 Date: 19/10/87

Drawn By: W. MacRae Drawing No.:
Scale: 1" = 50'
DM86-2-ρ-245



Azimuth 130°
Elevation -8.08'



三

ROCK TYPE

- 1 Mafic volcanics
 - a) massive
 - b) pillowied
 - 2 Intermediate Volcanics
 - a) lapilli tuff
 - 3 Sediments
 - a) interflow
 - b) greywacke
 - c) iron formation
 - 4 Felsic Intrusive
 - Tz Transition zone
 - Fz Fault zone
 - Sh sheared
 - Al altered

MONETA DOBČI IDINE MINE CO.

DIAMOND DRILL SECTION MV-86-3

WELTWEIT

Broadway's VETO

Property: VERMILION

Mining Div.: PATRICIA *Twp.: Vermilion, Jordan*

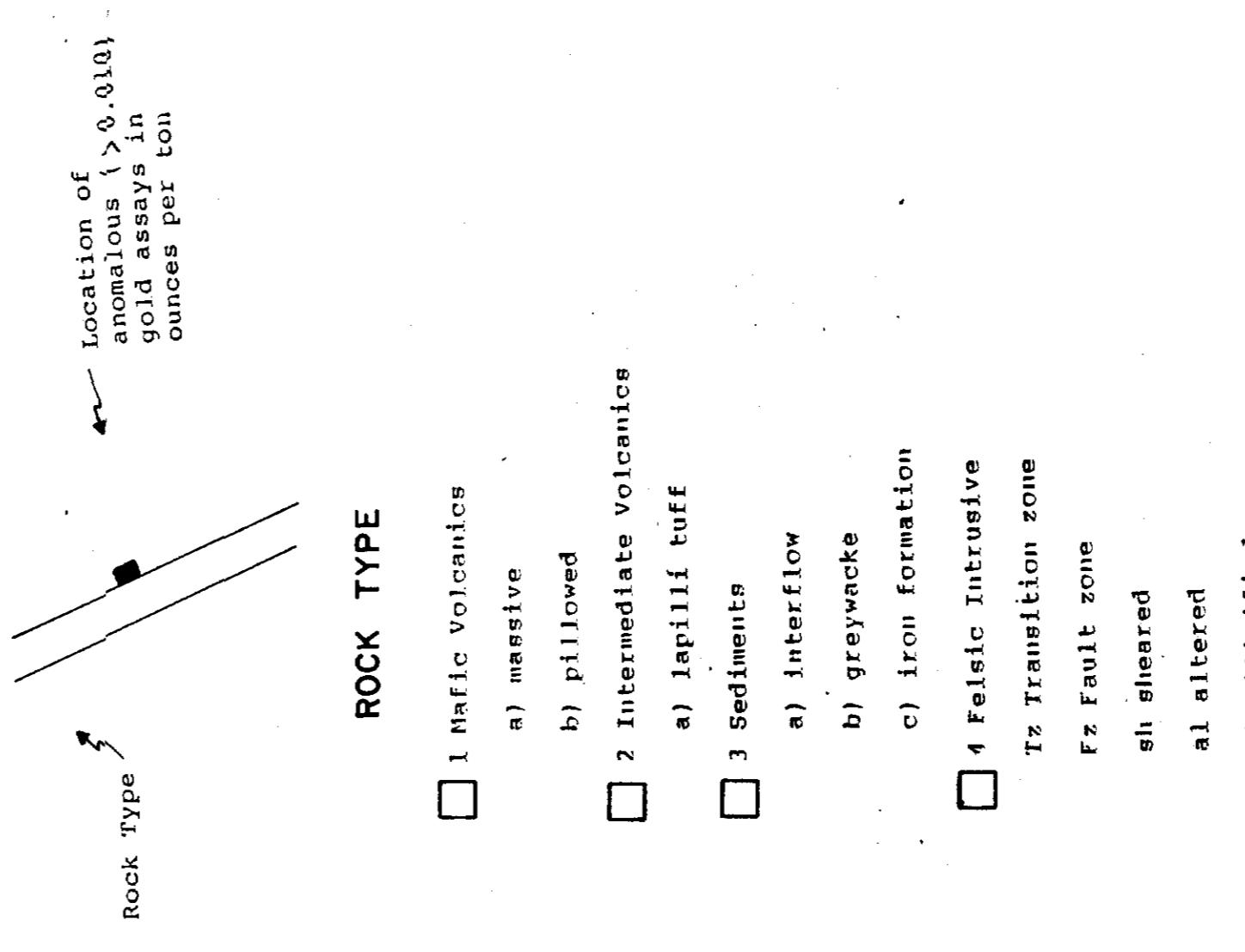
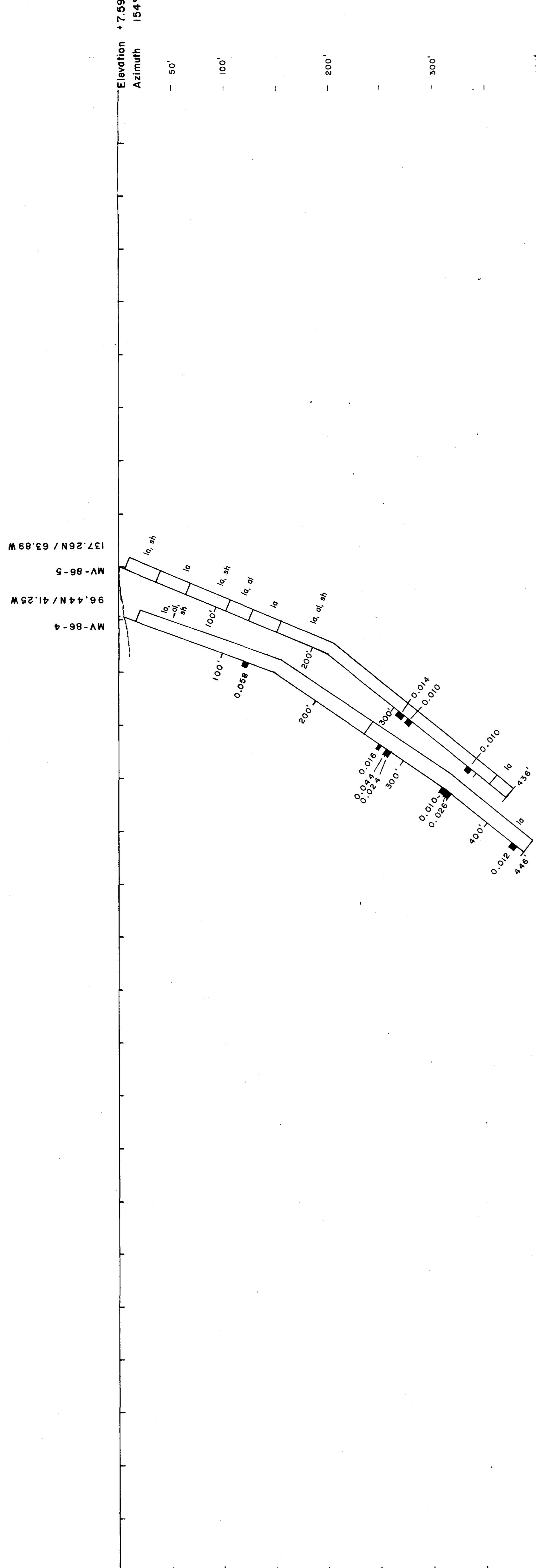
N.T.S. 52 K/I

Drawn By: W.

Drawing No.

Scale: " = 5

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MONETA PORCUPINE MINES Inc.

MV-86-4

DIAMOND DRILL SECTIONS: MV-86-5 &
LOOKING WEST

Property: VERMILION

Mining Div.: PATRICIA Twp.: Vermilion, Jordan, Drayton
N.T.S. 52 K/1 Date: 19/0/87

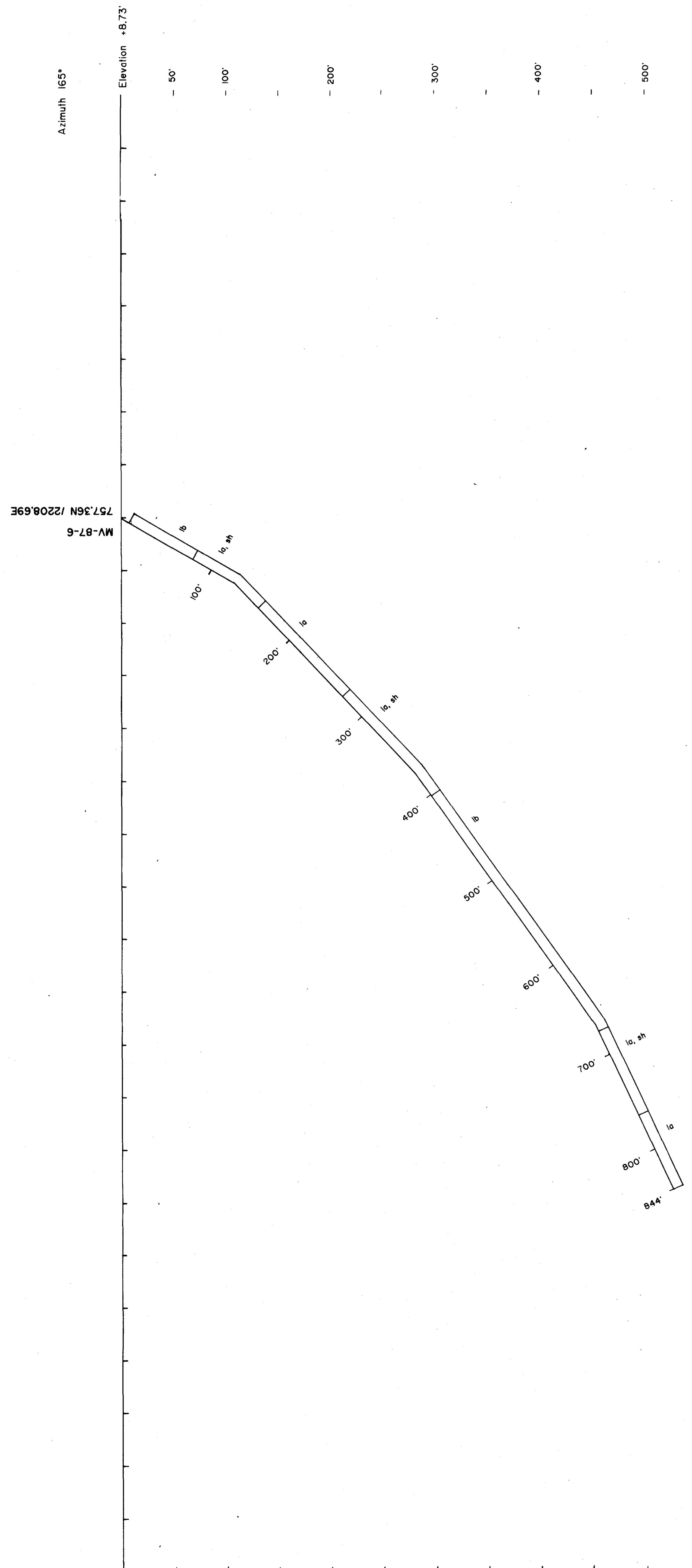
Drawn By: W. MacRae

Drawing No.:

Scale: 1" = 50'



240-2-245
Scale 1:50000
Drawing No.:



LEGEND

Rock Type	Location of anomalous gold assays in ounces per ton
2a	~0.044
2b	0.044

ROCK TYPE

- 1 Mafic Volcanics
 - a) massive
 - b) pillowd
 - 2 Intermediate Volcanics
 - a) lapilli tuff
 - 3 Sediments
 - a) interflow
 - b) greywacke
 - c) iron formation
 - 4 Felsic Intrusive
 - Tz Transition zone
 - Fz Fault zone
 - sh sheared
 - al altered

MONETA PORCUPINE MINES Inc.

DIAMOND DRILL SECTION MV-87-6
LOOKING WEST

Property: VERMILION	Mining Div.: PATRICIA	Twp.: Vermilion, Jordan, Drayton
N.T.S. 52 K/I		Date: 19/10/87
		Drawn By: W. MacRae
		Drawing No.:
		Scale: 1" = 50'

63.5050

3

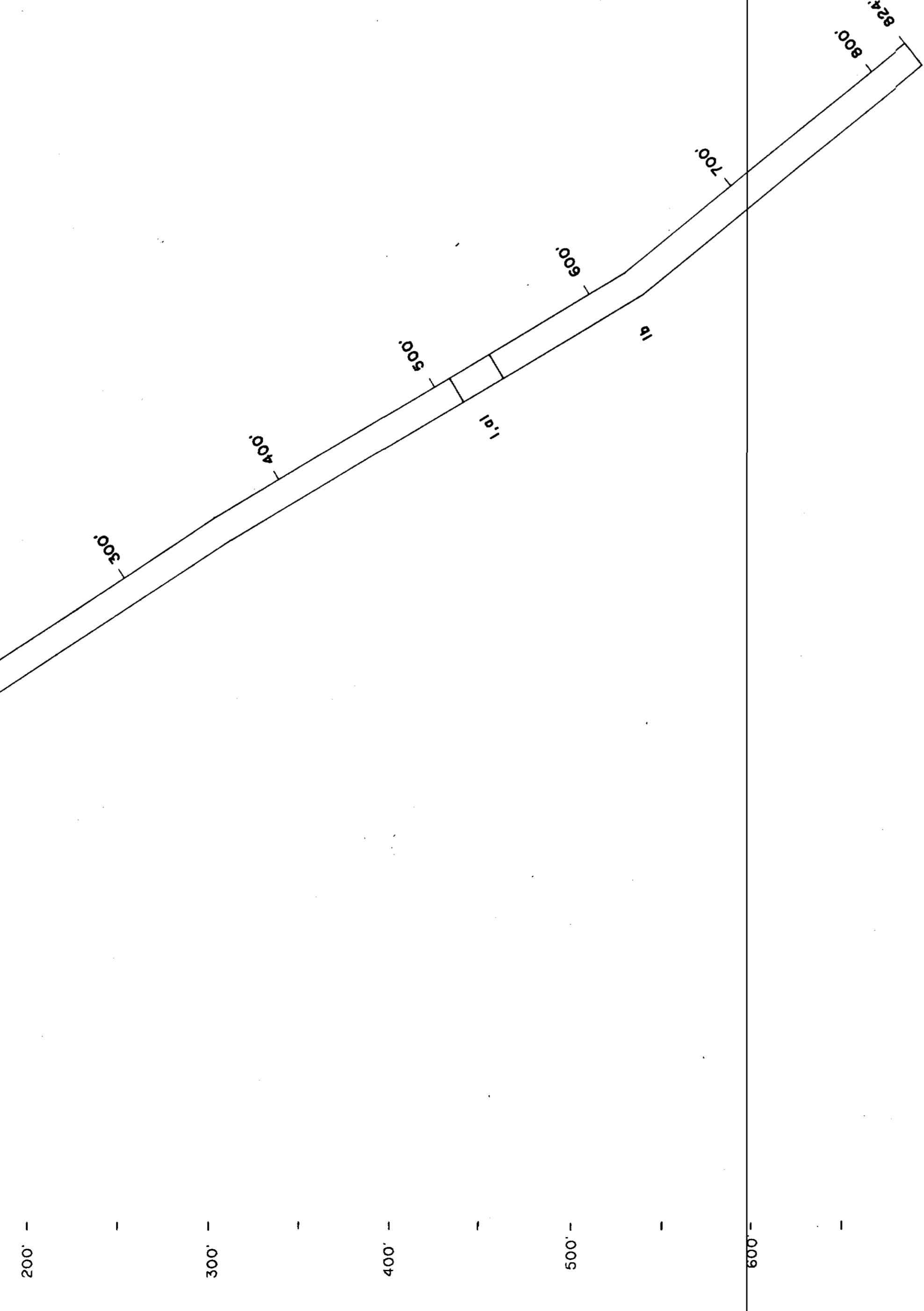
52K01SER0005 63-5050 VERMILION

MV-87-7

Azimuth 347°

Elevation -833'

50' - 50'
100' - 100'
200' - 200'
300' - 300'
400' - 400'
500' - 500'
600' - 600'



LEGEND

Location of
abnormal > 0.010
grades part in
ounces per ton

Rock Type
2a
0.044

ROCK TYPE

- 1 Mafic Volcanics
 - a) massive
 - b) pilioned
- 2 Intermediate Volcanics
 - a) lapilli tuff
- 3 Sediments
 - a) interflow
 - b) greywacke
 - c) iron formation
- 4 Relict Intrusive
 - a) altered
 - b) silicified

TZ Transition zone

Fz Fault zone

sh shaltered

al altered

si silicified

MONETA PORCUPINE MINES Inc

DIAMOND DRILL SECTION MV-87-7

LOOKING WEST

Property: VERMILION

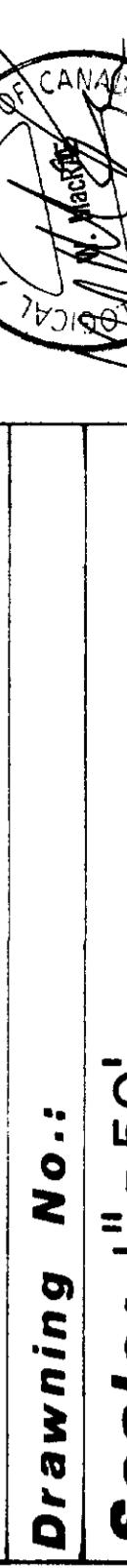
Mining Div.: PATRICIA Twp.: Vermillion, Jordan, Drayton

N.T.S. 52 K/1 Date: 19/10/87

Drawn By: W. MacRae

Drawing No.:

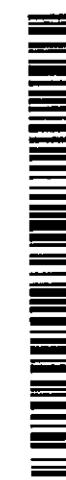
Scale: 1" = 50'



DM86-2-1-245

63.5050

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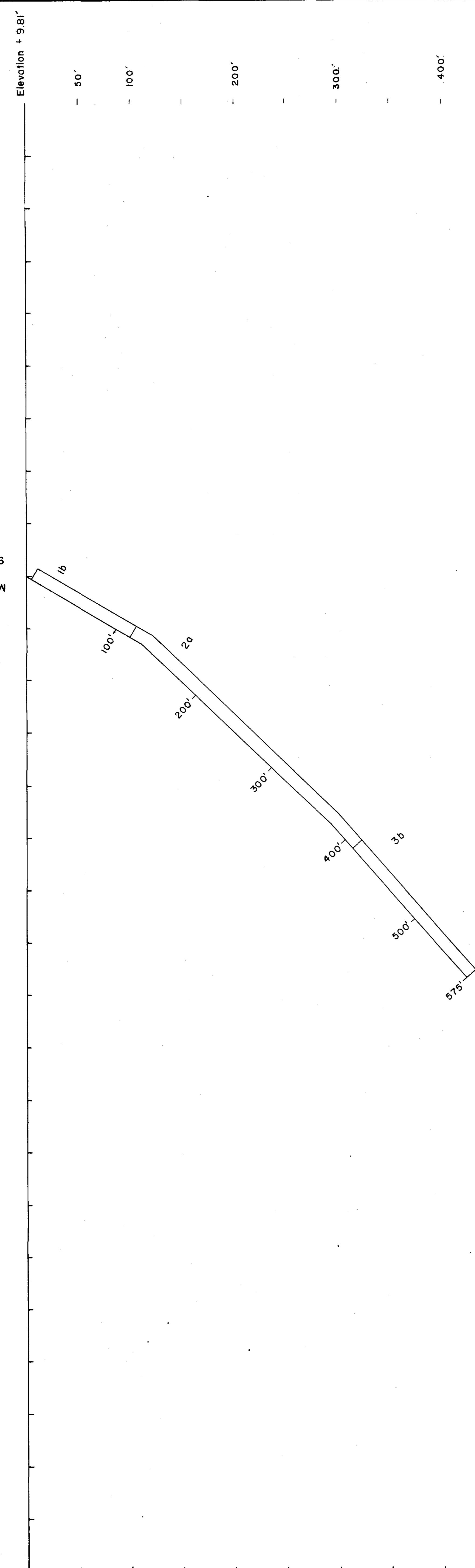


63.5050

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Azimuth 174°

968.89 S / 479.24 E
MV-87-8



Elevation + 9.81'

LEGEND

location of anomalous gold assays in ounces per ton

Rock Type

2a

0.044

- ROCK TYPE
- 1 Basic Volcanics
 - a) massive
 - b) pillow
 - c) intermediate
 - d) lapilli tuff
 - 2 Intermediate Volcanics
 - 3 Sediments
 - a) interflow
 - b) greywacke
 - c) iron formation
 - 4 Felsic intrusive
 - Fz Fault zone
 - Tz Transition zone
 - sh streaked
 - al altered
 - si silicified

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DIAMOND DRILL SECTION MV-87-8

LOOKING WEST

Property: VERNON

Mining Div.: PATRICIA

Twp.: Vermilion, Jordan, Gray

N.T.S. 52 K/1

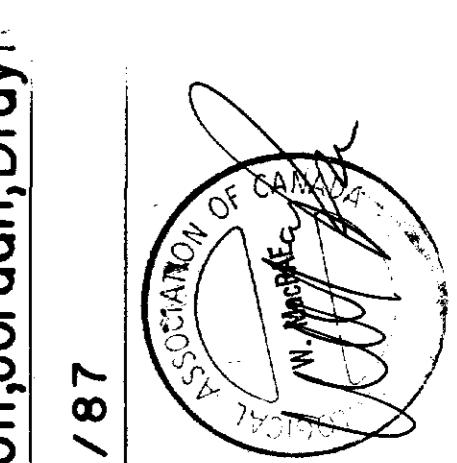
Date: 19/10/87

Drawn By: W. MacRae

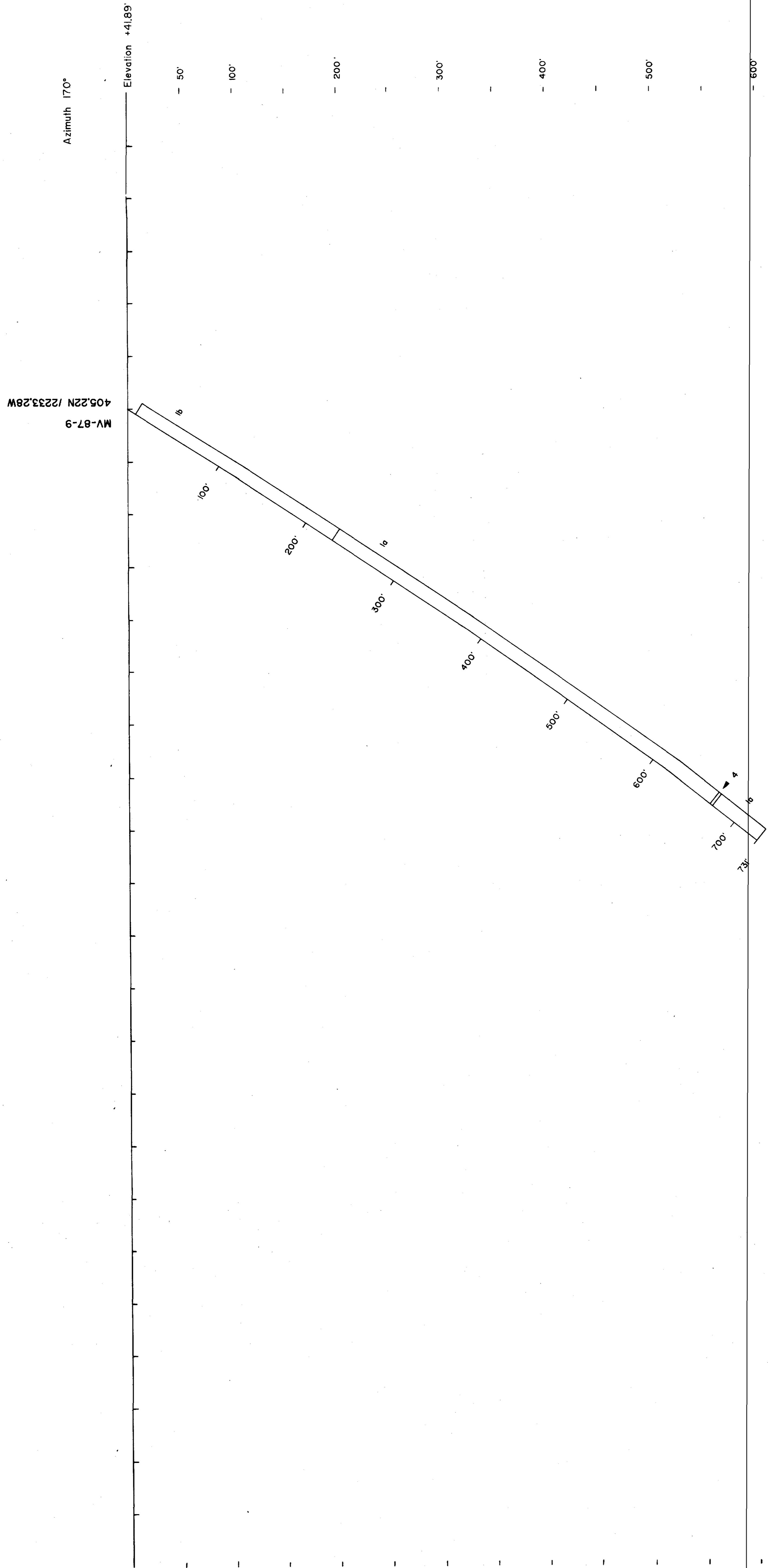
Drawing No.:

Scale: 1" = 50'

DRILL - 2 - P - 245



63-5050



ROCK TYPE

- 1 Mafic Volcanics
 - a) massive
 - b) pillowied
- 2 Intermediate Volcanics
 - a) lapilli tuff
 - 3 Sediments
 - a) interflow
 - b) greywacke
 - c) iron formation
- 4 Felsic Intrusive
- Tz Transition zone
- Fz Fault zone
 - sh sheared
 - al altered

MONETA PORCUPINE MINES Inc.

DIAMOND DRILL SECTION MV-87-9
LOOKING WEST

Property: VERMILLION
Living Div.: PATRICIA **Twp.: Vermillion, Jordan**
Lot - 252 V 11 **Date - 10/10/87**

I.T.S. 52 K/I

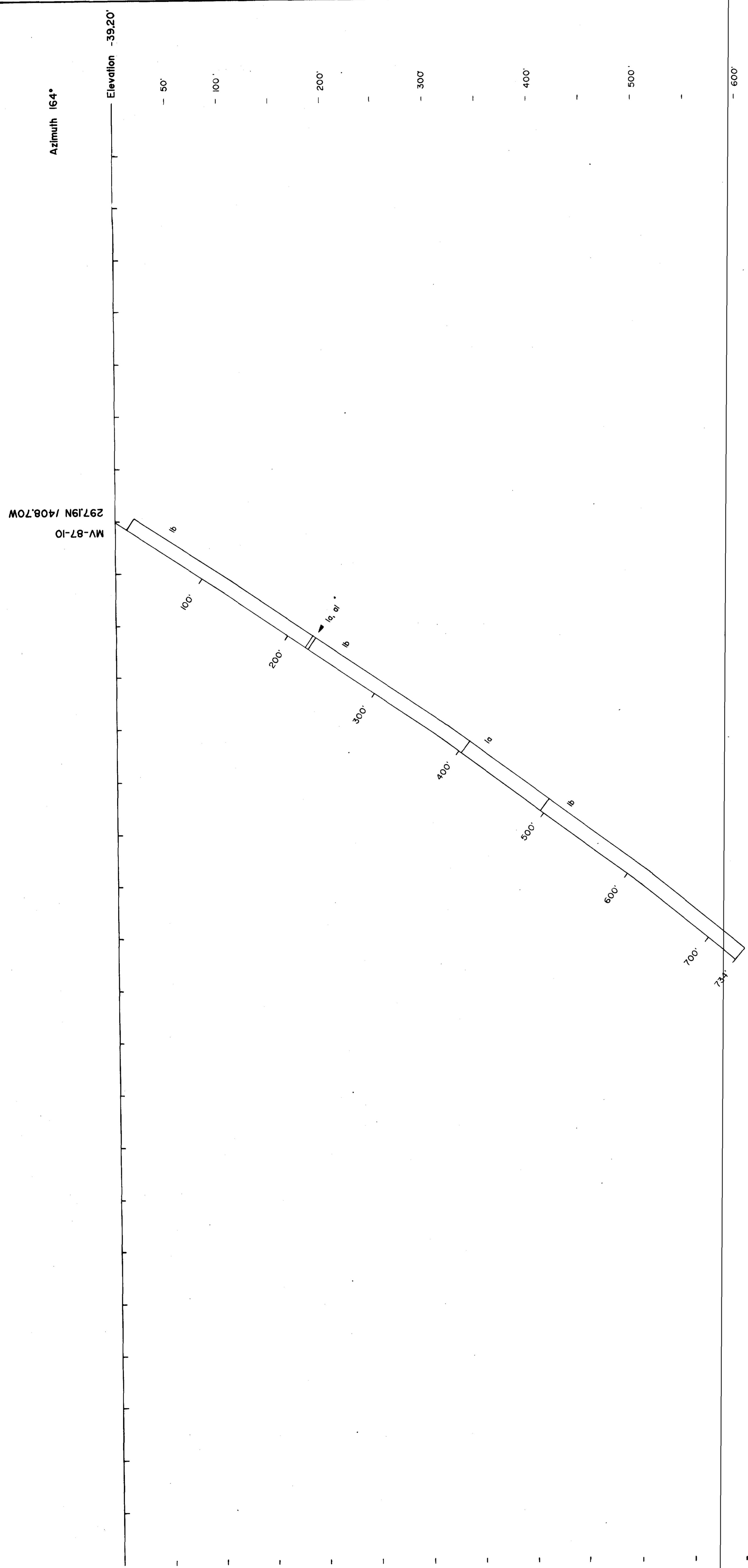
Scale: 1" = 50

1484-2-P-245

William E. MacRae Geological Services

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HV-217.0



LEGEND

location of
sample 100'
from top
of 80° unit
at elevation
-400'.
assay: 0.010
oz troy per ton.

Rock Type

- ROCK TYPE**
- 1. Basal Volcanics
 - a) massive
 - b) pillow
 - 2. Intermediate Volcanics
 - a) lapilli tuff
 - 3. Sediments
 - 4. Interflow
 - b) greywacke
 - c) iron formation
 - 5. Felsic Intrusive
 - a) Trunkton zone
 - b) Fault zone

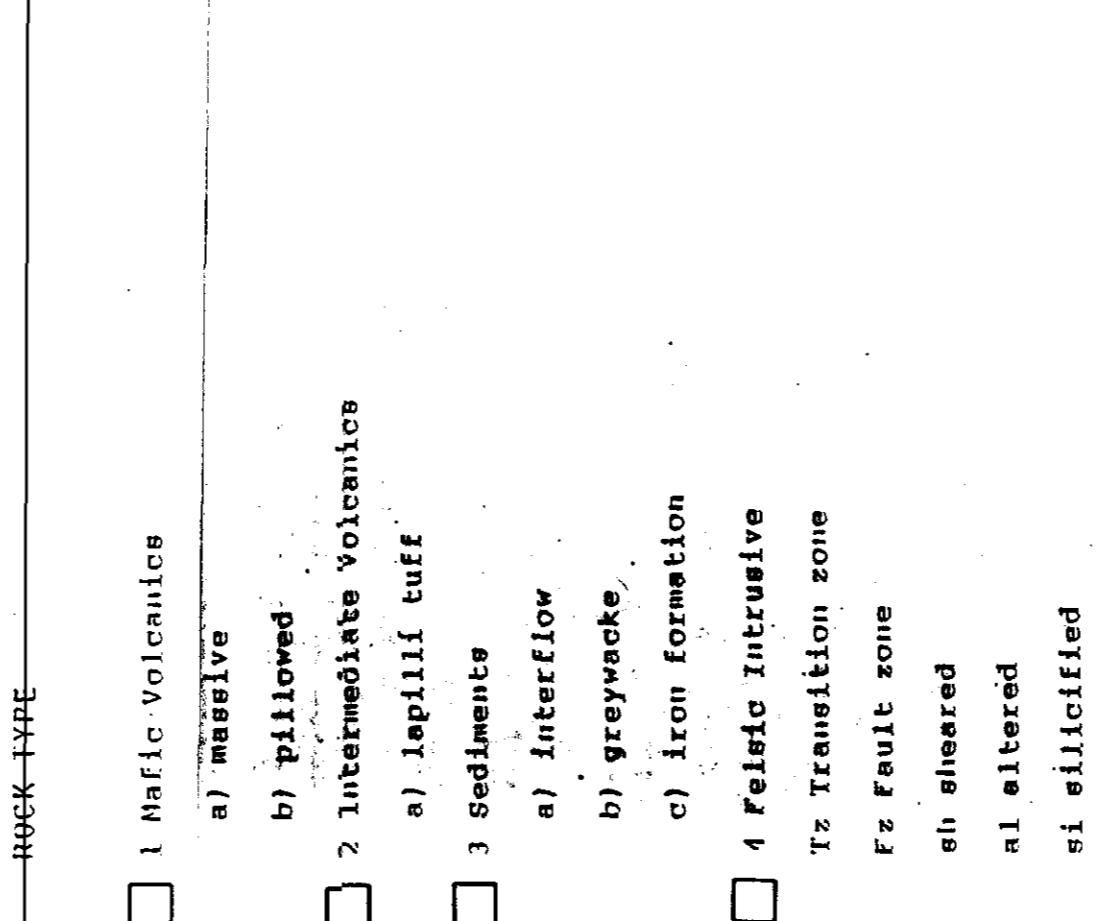
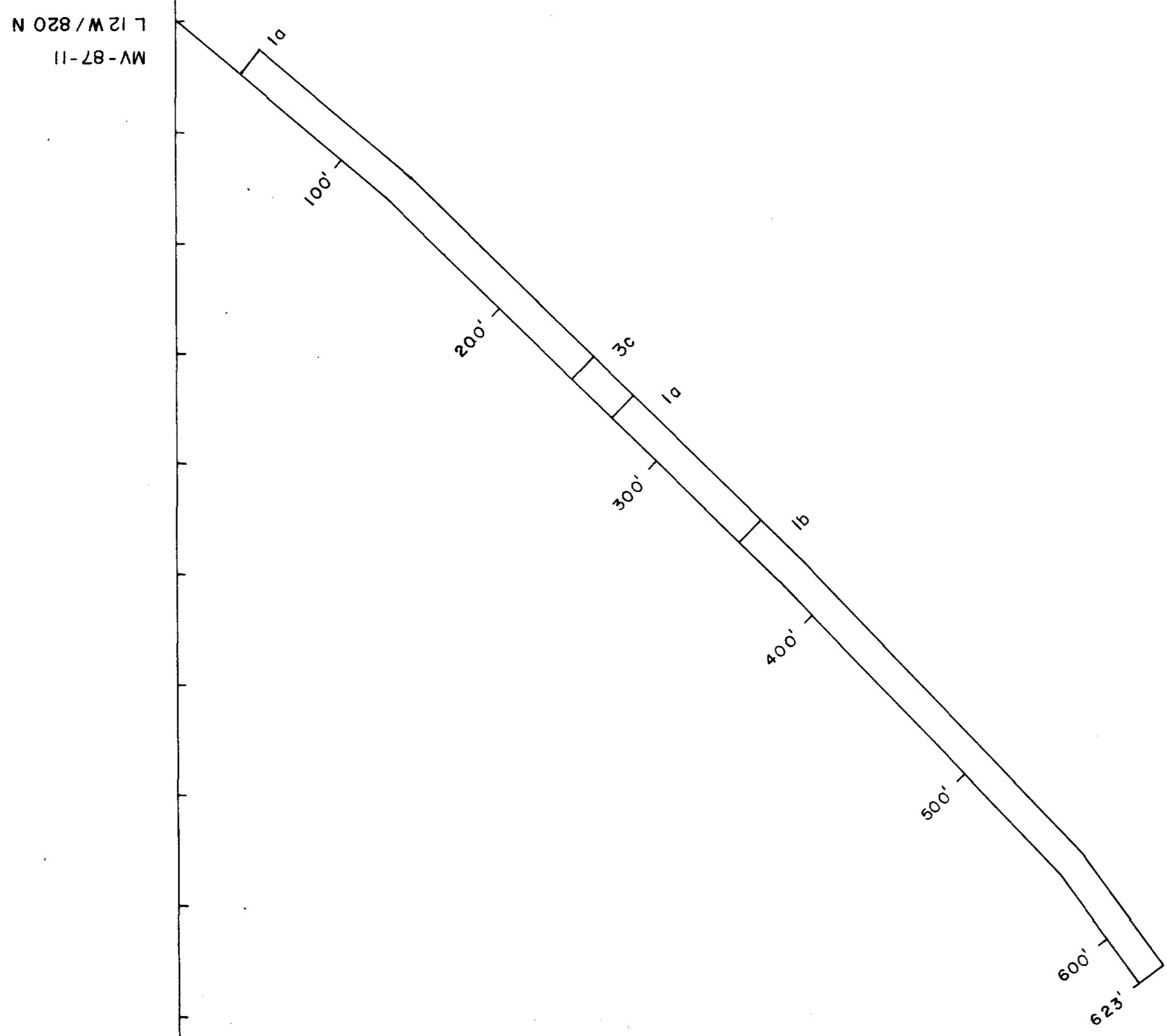
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DIAMOND DRILL SECTION MV-87-10
LOOKING WEST**Property: VERNON**

Mining Div.: PATRICIA **Twp.: Vermilion, Lordon, Drayton**
N.T.S. 52 K/1 **Date: 19/10/87**

Drawn By: W. MacRae**Drawing No.:****Scale: 1" = 50'**

63.5050



MONETA PORCUPINE MINES Inc.

DIAMOND DRILL SECTION MV - 87 - II
LOOKING WEST

Property: VERMILION
Mining Div.: PATRICIA
Twp.: Vermillion, Jordan, Payton
N.T.S. 52 K/1
Date: 19/08/87

Drawn By: W. MacRae
Drawing No.:
Scale: 1" = 50'
OKE6-2-P245



