87-136-15852
3/38

DIAMOND DRILLING REPORT

G & G 1 CLAIM

NICOLA MINING DIVISION

NTS 92 I / 2 E

PART 1 OF 2

LATITUDE 50 DEGREES ~~7.5~~ 7.4 MINUTES

LONGITUDE 120 DEGREES 33.2 MINUTES

OWNER: IOTA EXPLORATIONS LTD.

OPERATOR: IOTA EXPLORATIONS LTD.

CONSULTANT: D. C. MILLER, P. ENG.

AUTHOR: D. C. MILLER, P. ENG.

DATE: FEBRUARY 12, 1987

CONTENTS

ILLUSTRATIONS

INTRODUCTION

LOCATION AND ACCESS

The property is located 9.5 km southeast of Merritt, B.C. Present access to the property is gained by a dirt road some 13 km in length leading eastward from Highway 5 at a point 12 km southeast of the Highway 5 - Highway 8 intersection in Merritt. (Figure 1).

PHYSIOGRAPHY

The property is located near the crest of a gentle southern slope. Elevations range from 900 to 1340 m. Vegetation is sparse and consists of occasional stands of small fir with aspen thickets along dry drainages and in small depressions. Much of the lower part of the claim is open grassland.

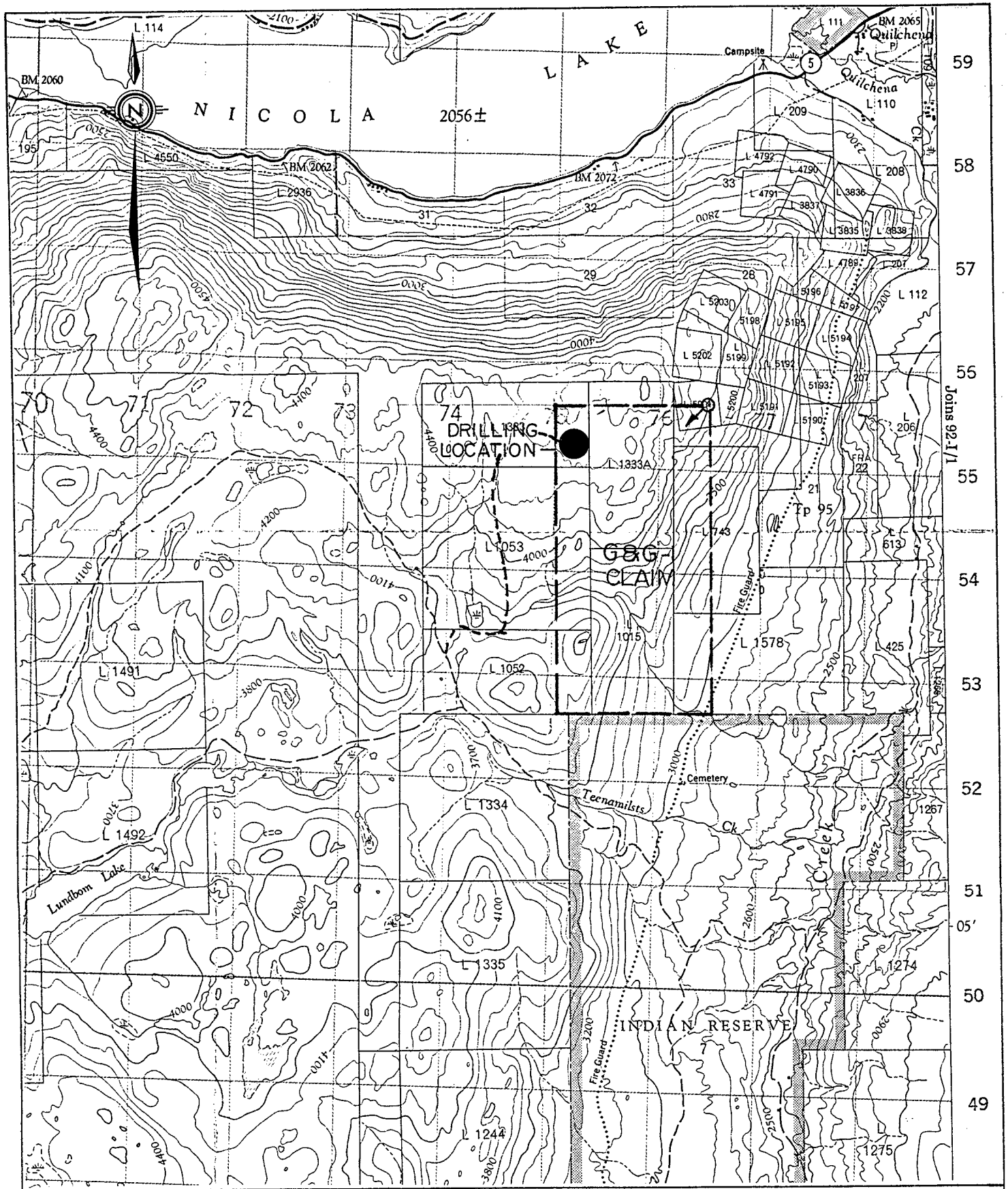
PROPERTY

The G & G 1 Claim comprises 18 units (6 south by 3 west). The claim record number is 1737 and its due date is September 22, 1988.

PREVIOUS WORK

The property is listed in the B.C. Mineral Inventory (1981) as the AL Occurrence (M.I. 092 ISE 120) and is also recorded on preliminary map 47, October 1981, B.C. Ministry of Energy, Mines and Petroleum Resources.

Kelly (1986), reports previous work dating back to 1962 included trenching, diamond drillng and sampling. According to Kelly, assays



TO ACCOMPANY A REPORT BY D.C. MILLER DATED FEB. 12, 1987

0 1 2 Km

D.C. MILLER GEOLOGICAL SERVICES

IOTA EXPLORATIONS LTD.

LOCATION MAP

DIAMOND DRILLING G & G-1 CLAIM

DRAWN BY: D.C.M	FIG. 1
FEB. 12, 1987	NTS 92I/2E

PREVIOUS WORK (CONTINUED)

across a 9 m trench averaged 0.10 oz/ton gold and 0.70 % copper. Three diamond drill Holes (-45 degrees, -65 degrees and -78 degrees) were drilled to test below trench mineralization. Kelly reports that the best hole (-65 degrees) intersected a 14 m core length grading 0.11 oz/ton gold and 0.24% copper. Gold mineralization is associated with quartz veining and chalcopyrite mineralization within sheared andesite and microdiorite.

More recently, in 1986 and 1987, VLF-EM, magnetometer and prospecting surveys were carried out by Iota Explorations Ltd. The VLF-EM survey indicated a number of anomalies just west of the known mineralization. Some VLF-EM anomalies had accompanying magnetic highs.

Rock chip sampling returned 12 anomalous gold values near the trenched area. These values ranged from 26 PPB to 14040 PPB gold.

SUMMARY OF CURRENT WORK

During January 14 to 20, 1987, two N.Q. diamond drill holes totalling 802 ft (244.45 m) were completed. Hole 87-1 was drilled at -67 degrees on an azimuth of 265 degrees to test below a mineralized trench. Hole 87-2 was drilled at a location 91 m northerly of Hole 87-1 and at a dip of -45 degrees. The hole tested a VLF-EM anomaly at this location (see Figs. 2, 3 and 4).

In conjunction with the drilling, outcrops in the vicinity of the drilling were mapped and correlated to drill hole logs. All core was split and analyzed for gold by Kamloops Research and Assay Lab. The

core is presently stored at 248 Nicola Street, Kamloops, B.C.

At the time of the examination (February 9, 1987) larger rock outcrops were exposed, however, smaller recessive outcrops, if present, would have been snow covered.

DETAILED TECHNICAL DATA AND INTERPRETATION

GEOLOGY AND MINERALIZATION

The area near the 1987 drilling is underlain by andesitic to basaltic flows which have been intruded by microdiorite dykes. Volcanic rocks range from reddish-green to grey-green basalts/ andesite flows. Correlation of drilling with surface outcrops indicates the volcanic rocks strike northerly and dip 60 - 80 degrees easterly.

UNIT-1 - Red to grey-green basalt/andesite

This unit is exposed in the westernmost outcroppings mapped and at the base of Hole 87-2. It is very fine grained, massive to weakly foliated, generally weakly magnetic and does not carry sulphides. It is locally altered by epidote.

UNIT-2 - Dark grey-green augite basalt/andesite

This unit is exposed in the easternmost outcroppings mapped and is mixed with microdiorite dykes towards Unit 1. It is generally

200W

100W

00

300S

400S

500S

600S

N

BASELINE - 355°

CLAIM BOUNDARY

ID POST G&G-1 CLAIM
3W IS

DDH 87-2
-45°

DDH 87-1
-67°

CP-MA
QC

CP
MA, QC

MA

MA

MA

85

65

75

80

3a

2 & 3b

3c ?

3b

2 & 3b

1

2

LEGEND

- MICRODIORITE: 3a FINE GRAINED, PORPHYRITIC; 3b FINE TO MEDIUM GRAINED, PORPHYRITIC; 3c FINE GRAINED, PYRITIC
- DARK GREY-GREEN ANDESITE/BASALT
- REDDISH-GREY-GREEN ANDESITE/BASALT
- OUTCROP
- DIAMOND DRILL HOLE
- MINERALIZATION: CP=CHALCOPYRITE, MA=MALACHITE, QC=QUARTZ-CALCITE
- SHEARING ATTITUDE (80)
- ROAD
- TRENCH
- GEOLOGIC BOUNDARY
- DRAINAGE
- SWAMP/THICKET

TO ACCOMPANY A REPORT BY D.C. MILLER DATED FEB 12, 1987

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,852

0 25 50 75 100
METRES

D.C. MILLER GEOLOGICAL SERVICES

IOTA EXPLORATIONS LTD.

G & G-1 CLAIM

GEOLOGY & DRILL HOLE PLAN

DRAWN BY: D.C.M	PROJ. NO. 87-5	FIG. NO. 2
FEB. 12, 1987		NTS 92 I/2E

3A

moderately magnetic, carries very sparse pyrite and chalcopyrite and is massive to foliated. It is locally strongly altered by epidote.

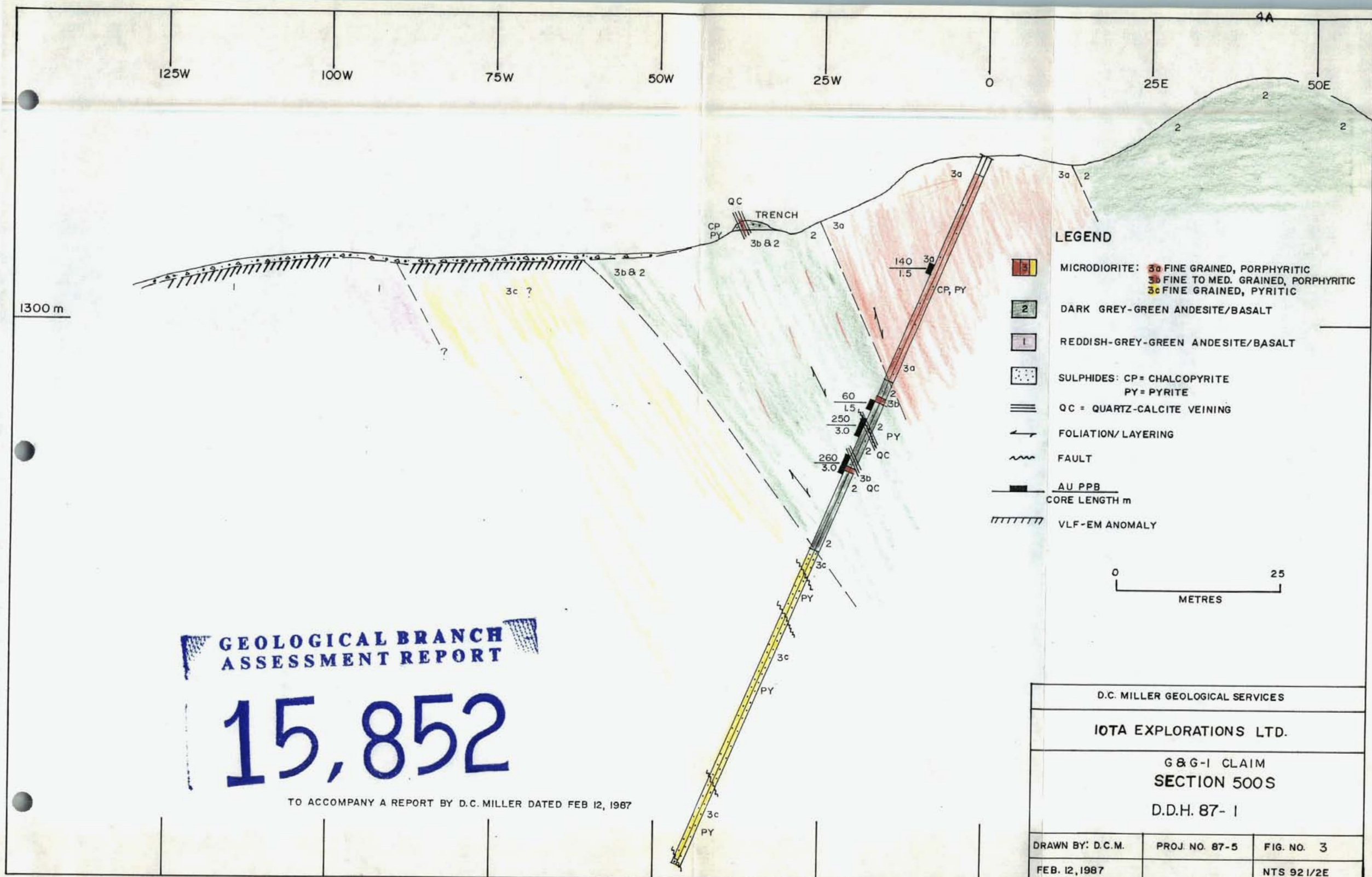
UNIT-3 - Microdiorite

This unit includes 3 varieties of microdiorite and in surface mapping includes some Unit 2.

UNIT-3A is light grey-green siliceous, pyritic, very fine grained, and is variably altered by epidote and sericite. It is cut by a number of fine quartz veins and carries 2 - 8% disseminated fine pyrite. It is locally finely porphyritic and is weakly to moderately magnetic. This unit is over 100 m thick in Hole 87-1 and about 80 m thick in Hole 87-2. It is likely the source of some VLM-EM anomalies although it does not crop out on surface. It is not clear whether this unit is a flow or an intrusive, however it is judged to be an intrusive.

UNIT-3B contains many squarish subhedral medium grained feldspar phenocrysts in a medium grey matrix. It is a thin unit and appears to be associated with gold mineralization. It is weakly magnetic and carries very sparse chalcopyrite and pyrite.

UNIT-3C is porphyritic with about 10% subhedral to euhedral whitish feldspar laths in a fine grained grey-green matrix. The feldspars are less than 2 mm in long direction. This unit carries sparse pyrite and



TO ACCOMPANY A REPORT BY D.C. MILLER DATED FEB 12, 1987

D.C. MILLER GEOLOGICAL SERVICES
IOTA EXPLORATIONS LTD.
G & G-1 CLAIM SECTION 500S D.D.H. 87- 1

DRAWN BY: D.C.M.	PROJ. NO. 87-5	FIG. NO. 3
FEB. 12, 1987		NTS 92 I/2E

LEGEND

- MICRODIORITE: 3a FINE GRAINED, PORPHYRITIC; 3b FINE TO MED. GRAINED, PORPHYRITIC; 3c FINE GRAINED, PYRITIC
- 2 DARK GREY-GREEN ANDESITE/BASALT
- 1 REDDISH-GREY-GREEN ANDESITE/BASALT
- SULPHIDES: CP = CHALCOPYRITE; PY = PYRITE
- QC = QUARTZ-CALCITE VEINING
- FOLIATION/ LAYERING
- FAULT
- AU PPB / CORE LENGTH m
- VLF-EM ANOMALY

0 — 25 METRES

TO ACCOMPANY A REPORT BY D.C. MILLER DATED FEB. 12, 1987

D.C. MILLER GEOLOGICAL SERVICES

IOTA EXPLORATIONS LTD.

G & G-1 CLAIM
SECTION 409S
D.D.H. 87-2

DRAWN BY: D.C.M.	PROJ. NO. 87-5	FIG. NO. 4
FEB. 12, 1987		NTS 92 I/2E

chalcopyrite and is moderately magnetic. It is about 40 m thick strikes northward and dips about 65 degrees eastward.

In Hole 87-1 gold values ranging from 60 - 460 PPB occur between 60 - 175 ft. (18.3 - 53.3 m) and are associated with quartz-calcite veins in Unit 2 and Unit 3B.

In Hole 87-2 anomalous gold values range from 10 - 35 PPB and are associated with Units 3B, 3C, and 3A.

In previous trenches, quartz veining striking about northerly and dipping 65 degrees eastward appears to carry minor gold mineralization. Sparse chalcopyrite is disseminated in sheared volcanic rocks and microdiorite exposed in the trenches.

CONCLUSIONS AND RECOMMENDATIONS

Copper and gold mineralization appear to be clearly related to microdiorite intrusions. As the better gold values were intersected by the most southern hole, probably the best potential for finding similar or better mineralization lies in this direction.

Unit 3A, pyritic microdiorite may carry significant copper or gold mineralization along strike or down dip of where presently tested.

It is recommended a 100 m by 25 m grid be cut on the property and

that geological mapping, soil sampling (copper-gold), VLF-EM, magnetometer and selected IP surveys be carried out over the entire property. Some rock chip sampling should be done as well.

If encouraging results are obtained in this work, selected areas could be tested by percussion drilling or backhoe trenching prior to further diamond drilling.

Respectfully submitted,

D. C. Miller, P. Eng.

COST STATEMENT

(1)	**WAGES:**		
	(a) D. C. Miller Jan. 12, 14, 19, 20, 14, 19 & 30 Feb. 5, 6, 9, 10, 11, & 12 (mostly partial days) Total: 61 hrs @ $37.50/hr + 16 hrs @ $18.00/hr	=	$ 2,575.50
	(b) Bryan Elliott - Supervision of Drilling Jan. 13, 14, 15, 19, & 20 Total: 5 days @ $100.00 per day	=	500.00
	(c) Richard Elliott - Core Splitting Jan. 24 - 28 Total: 5 days @ $100.00 per day	=	500.00
	(d) Larry Ovington - Core Splitting Jan. 19, 20, 21, & 22 Total: 3.5 days @ $100.00 per day	=	350.00
	(e) Larry Ovington - Transporting Core Jan. 18. Total: 1 day @ $100.00 per day	=	100.00
(2)	**FOOD AND ACCOMMODATION:** 5 days	=	591.93
(3)	**TRANSPORTATION:** D. C. Miller 480 Km @ 0.22 km 105.60 B. Elliott 1231 Km @ 0.32 km 393.95 L. Ovington 208 Km @ 0.43 km 74.77	=	574.32
(4)	**DIAMOND DRILLING INCLUDING MOB AND DEMOB CHARGES:**	=	14,334.00
(5)	**ANALYSES (KAMLOOPS RESEARCH & ASSAY LAB.):**	=	1,343.00
(6)	**CAT WORK:** 52 hrs cat work @ $74.50 $3,874.00 4 hrs low bed @ $66.75 267.00	=	4,141.00
(7)	**CORE STORAGE AND CORE SPLITTER RENTAL:**	=	325.00
(8)	**REPORT TYPING AND REPRODUCTION:**	=	194.50
	Total		$ 25,529.25
	15% Overhead, Office Admin.		3,829.39
	TOTAL COSTS		$ 29,358.64

CERTIFICATE

I, David C. Miller, of 769 Fraser Street, Kamloops, B.C. V2C 3H1, hereby certify that:

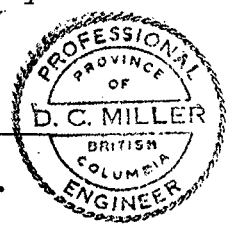
(1) I am a registered member of the Association of Professional Engineers of British Columbia - No. 6338

(2) I am a graduate of the University of British Columbia and received a B.A. Sc. in Geological Engineering in 1959.

(3) I have practiced my profession continuously since that time and have had 9 years experience as an underground mine geologist including employment with Eldorado Nuclear and Cominco Ltd. and have had 18 years experience in surface exploration as both an employee and a consultant. Most of my experience has been in British Columbia and the Yukon.

(4) I have no interest in the subject property directly or indirectly nor do I own any shares of Iota Explorations Ltd.

(5) This report is based on personal work at the property as a consultant and a study of previous data on the property.



D. C. Miller, P. Eng.

February 12, 1987

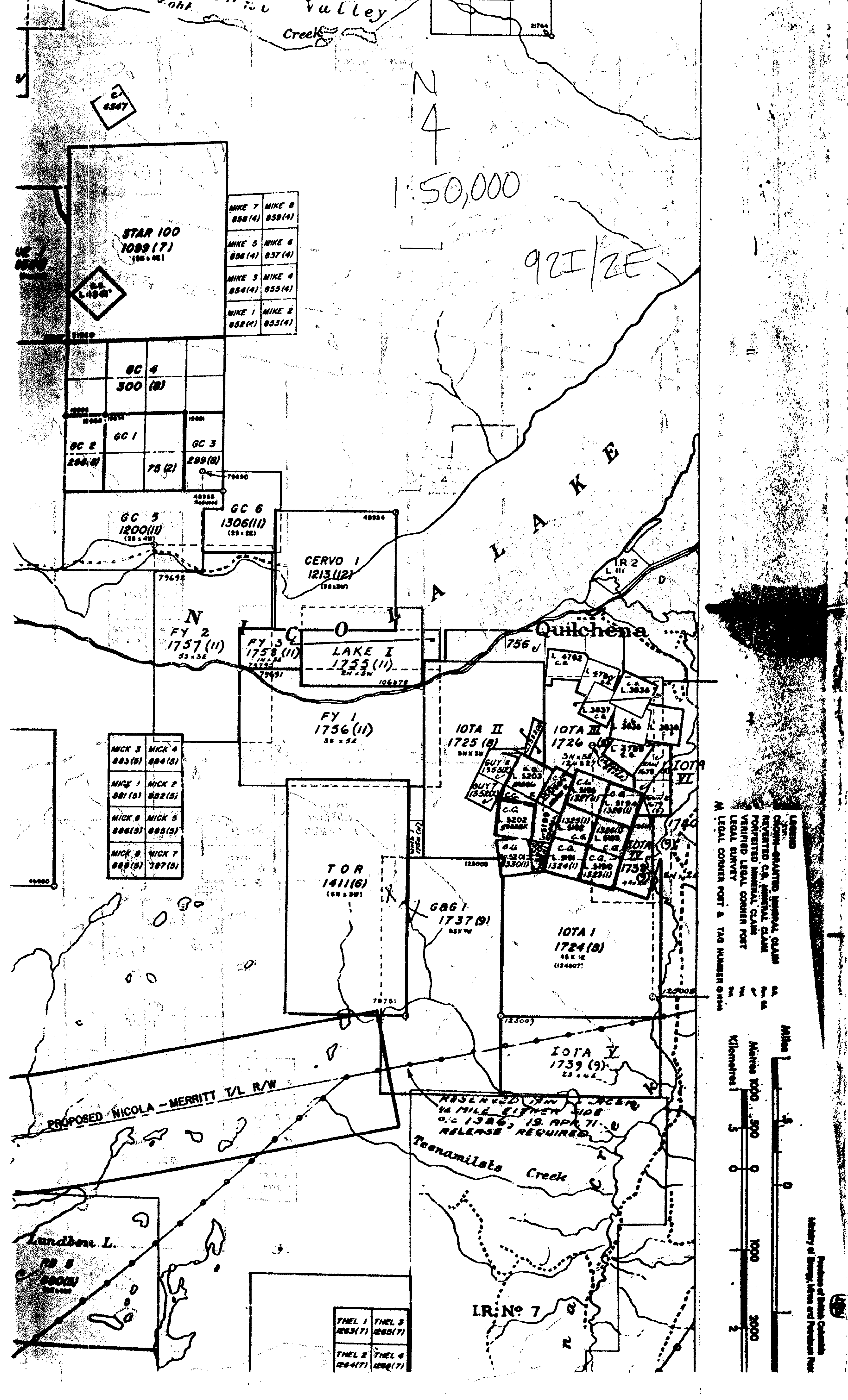
REFERENCES

Kelly, Sherwin F., P. Eng.

1986: Report on the Iota and G. & G. Groups of Mineral Claims near Merritt, B.C.

B.C. Mineral Inventory,

1981: Occurrence 092 I SE 120.


N
4
1:50,000
92I/2E
Valley
Creek
STAR 100
1089 (7)
MIKE 7
858 (4)
MIKE 8
859 (4)
MIKE 5
856 (4)
MIKE 6
857 (4)
MIKE 3
854 (4)
MIKE 4
855 (4)
MIKE 1
852 (4)
MIKE 2
853 (4)
GC 4
300 (8)
GC 2
298 (8)
GC 1
GC 3
299 (8)
75 (2)
GC 5
1200 (11)
GC 6
1306 (11)
CERVO 1
1213 (12)
NICOLA LAKE
Quilchena
I.R. 2
FY 2
1757 (11)
FY 3
1758 (11)
LAKE I
1755 (11)
FY 1
1756 (11)
756
IOTA II
1725 (8)
IOTA III
1726
IOTA VI
IOTA IV
MICK 3
883 (5)
MICK 4
884 (5)
MICK 1
881 (5)
MICK 2
882 (5)
MICK 6
886 (5)
MICK 5
885 (5)
MICK 8
888 (5)
MICK 7
787 (5)
TOR
1411 (6)
GBG 1
1737 (9)
IOTA I
1724 (8)
IOTA V
1739 (9)
PROPOSED NICOLA - MERRITT T/L R/W
RESERVED LAND ACCESS
1/4 MILE EITHER SIDE
O.C. 1326, 19. APR. 71
RELEASE REQUIRED
Teenamilats Creek
Lundbom L.
I.R. No 7
THEL 1
1263 (7)
THEL 3
1265 (7)
THEL 2
1264 (7)
THEL 4
1266 (7)
LEGEND
CROWN-GRANTED MINERAL CLAIM
REVERTED C.G. MINERAL CLAIM
FORFEITED MINERAL CLAIM
VERIFIED LEGAL CORNER POST
LEGAL SURVEY
LEGAL CORNER POST & TAG NUMBER
Miles
Metres 1000 500 0 1000 2000
Kilometres 1 0 1 2
Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

D.C. MILLER GEOLOGICAL SERVICES

DRILL LOG HOLE NO. IOTA 87-2

SHEET 1 OF 2

PROPERTY: IOTA	TP OR AREA: MERRITT 92I/2E	AZIMUTH: 260°	DATE STARTED: January 20, 1987	CORRECTED DIP TESTS
PROJECT:	LOT & CONC.	DIP: -45°	DATE COMPLETED: January 26, 1987	
CLAIM NO.: G&G 1	CO-ORDINATES: 409 S	LENGTH: 415 FT	DRILLED BY: TEX DRILLING	
GRID NO.:	25 W	COLLAR ELEV.	LOGGED BY: D.C. MILLER	

LOCATION SKETCH OF HOLE

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	NQ CORE DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS AU PPB
0	8.0		CASING, NO CORE					
8.0	40.0		MICRODIORITE Medium grey-green, fine-grained porphyritic texture with paler colored subhedral feldspar and dark anhedral mafics in a finer grained matrix; moderately magnetic; 10% epidote alteration as fine veins and small pervasive patches; about 5% quartz-calcite (mainly quartz) veinlets at various angles; generally fair core; very minor fine grained sulphides (pyrite & chalcopyrite); moderately hard core. (24.5-32.0) relatively fine-grained. (29.0-29.5) - quartz vein at 70°-60° Broken core at (8.0-14.0), (20.5-21.5), (24.5-25.5), (27.5-29.5) & (37.0-39.0) Core recovery: (8.0-40.0) = 95%	31185	8	10	2	3.0
				84	10	15	5	3.0
				83	15	20	5	3.0
				82	20	25	5	3.0
				81	25	30	5	20.0
				80	30	35	5	3.0
				79	35	40	5	3.0
				78	40	45	5	35.0
				77	45	50	5	3.0
				76	50	55	5	3.0
				75	55	60	5	3.0
				74	60	65	5	3.0
				73	65	70	5	3.0
				72	70	75	5	10.0
				31171	75	80	5	3.0
40.0	78.5		MICRODIORITE Similar to above but increased epidote alteration (15%); generally good core in pieces 4-12 inches long; rare fine-grained pyrite-chalcopyrite; moderately magnetic; red hematite staining along some fractures, moderately hard. Broken core; (45.0-46.0), (65.0-66.0) Core recovery: 95%					

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS AU PPB
78.5	152.5		NICOLA VOLCANICS (ANDESITE)	31170	50	85	5	3.0
			Similar to preceding but has a weak foliation at	69	85	90	5	3.0
			45-60° and less than 5% epidote alteration; no sulphides	68	90	95	5	3.0
			observed; moderately magnetic; moderately soft.	67	95	100	5	3.0
			Broken core at (82.0-84.0), (85.0-87.0) (89.5-91.0),	66	100	105	5	3.0
			(93.0-95.0) & (101.0-103.0).	65	105	110	5	3.0
			82.5 - 1 inch soft clay associated with fault @60°;	64	110	115	5	3.0
			(89.0-91.0) brecciated with 75% quartz veining trending	63	115	120	5	3.0
			at 45-60°, broken with some clay gouge; faults at 89.5 and	62	120	125	5	3.0
			90.0.	61	125	130	5	3.0
			(116.0-140.0) 15% epidote alteration.	60	130	135	5	3.0
				59	135	140	5	3.0
			(111.5-112.5) - broken with fault at 50° with 1 inch of gouge	58	140	145	5	3.0
			at 112.5; also fault at 70° with ½ inch of	57	145	150	5	3.0
			gouge at 111.5.					
			(130.5-132.5) - 30% quartz veining at 50°.					
			135' - 4" broken with fault at 70° with 2 inches of calcite					
			and minor gouge.					
			(78.5-152.5) fractures at 45-70° with hematite-chlorite					
			healed slips common; fractures which have had					
			movement average about 1 per foot.					
			Core recovery: (78.5-112.0) = 95%					
			(112.0-128.0) = 90%					
			(128.0-152.5) = 95%					
			(143.0-152.5) - 20% epidote alteration.					
			(143.0-144.0) - some soft clay altered core associated with					
			70° fractures.					
			143.5 - 3" -quartz-epidote veining at 65° associated with					
			60°-70° fractures.					

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS AU PPB
152.5	172.5		MICRODIORITE					
			Medium grey-green, fine to medium grained granular	31156	150	155	5	3.0
			texture comprising anhedral feldspars and mafics; feldspars	55	155	160	5	3.0
			are weakly clay altered; no sulphides observed; non to weakly	54	160	165	5	30.0
			magnetic; no foliation; moderately hard; generally broken	53	165	170	5	3.0
			core in 1 to 6 inch pieces;	52	170	175	5	3.0
			Core recovery; 95%.	51	175	180	5	3.0
			152.5 - contact-broken core.	50	180	185	5	3.0
			(153,0-153.5) - 30% quartz veining @ 20-70°.		Tag thrown away (torn)			
				48	185	190	5	3.0
			(171.5-172.5) - badly broken core.	47	190	195	5	3.0
			Core recovery; 60%.	46	195	200	5	3,0
172.5	200.0		NICOLA VOLCANICS (ANDESITE)					
			Dark grey-green, moderately hard; about 30% epidote					
			alteration as veins and pervasive alteration of fine anhedral					
			feldspars; moderately magnetic; weak foliation at 45-70°;					
			less than 5% fine white quartz-calcite veining, mainly at					
			60-70°; occasional fracture face coated with deep red hematite;					
			generally good core in 8-12 inch pieces; no sulphides observed.					
			(172.5-173.5) - clay altered, soft and broken.					
			(194.0-196.0) - 30% quartz veining with minor deep-red hematite patches and veining; broken at (195.0-196.0).					
			(198.0-200.0) - broken core with 4 inches of fault gouge at (200.0).					
			(172.5-200.0) - Core recovery -99%.					

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DRILL LOG HOLE NO. IOTA 87-2

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS Au PPB
200.0	226.0		MICRODIORITE ? Medium to light grey; very fine grained; moderately soft to hard; generally non-magnetic; contains about 5% fine grained pyrite as disseminations; core tends to be broken and breaks along fine quartz-calcite/epidote healed fractures at various angles; about 1 fracture per inch; core is massive with no layering. Some sericite alteration present. 214 - ½ inch quartz-clay healed fracture at 85°. (210.5-221.5) -darker colored and moderately magnetic. (200.0-209.0) -broken in 1 to 4 inch pieces. (212.0-216.0) -broken in 1 to 4 inch pieces. (221.0-226.0) -broken in ½ to 3 inch pieces. Recovery: (200.0-226.0) =95%. (220.0-226.0) =70%.	31145	200	205	5	3.0
				44	205	210	5	3.0
				43	210	215	5	3.0
				42	215	220	5	3.0
				41	220	225	5	3.0
				31186	225	230	5	3.0
226.0	231.0		MICRODIORITE ? Similar to above, but darker grey green with 25% epidote alteration; weakly to non-magnetic; about 2% fine grained disseminated pyrite; weak 80° foliation; broken core into 4 inch to ½ inch pieces; Core recovery: 90% 228.5 - 3 inch white quartz vein @ 80°.					

FOOTAGE FROM	FOOTAGE TO	SECTION 1" =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS AU PPB
231.0	245.0		MICRODIORITE ?					
			Similar to (200.0-226.0), light-medium grey, fine grained with 2-5% fine grained disseminated pyrite; numerous white fine quartz-calcite healed fractures, average number-more than 1 per inch, locally 10 or more per inch; weak local foliation @ 70°; weakly to non-magnetic	31187	230	235	5	3.0
				88	235	240	5	3.0
				89	240	245	5	3.0
				90	245	250	5	3.0
				91	250	255	5	3.0
			(231.0-235.0) - broken core 4 to 1 inch pieces, 75% recovery	92	255	260	5	10.0
			(235.0-245.0) - broken core 4 to 2 inch pieces, 90% recovery	93	260	265	5	3.0
				94	265	270	5	3.0
				95	270	275	5	3.0
245.0	262.0		MICRODIORITE ?	31196	275	280	5	3.0
			Similar to above, but becomes darker green-grey colored and pyrite content decreases to 1-2%; several very fine white quartz-calcite healed fractures form a branching network more than 5 per inch; moderately magnetic.					
262.0	279.0		MICRODIORITE ?					
			Similar to above, but light to medium greenish color and weakly clay altered; fine dark anhedral mafic phenocrysts are locally prominent; numerous fine fractures are mainly healed by fine dark minerals with lesser white quartz-calcite healed fractures; minor epidote alteration; non-magnetic; 3-5% fine disseminated pyrite.					
			Core broken into 1 to 4 inch pieces - 85% recovery					
			264' - clay healed fault at 70°					
			278' - clay hematite healed fault at 60°.					

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS AU PPB
279.0	310.0		MICRODIORITE ?					
			Dark grey-to medium grey green; consists of alternating	31197	280	285	5	3.0
			short sections of darker grey massive core within larger	98	285	290	5	3.0
			sections of lighter grey-green epidote altered core	99	290	295	5	3.0
			similar to (262.0-279.0) preceding; the dark sections occur at	31200	295	300	5	3.0
			(279.0-282.0) and (288.0-293.0). The darker sections are	201	300	305	5	3.0
			moderately magnetic and contain 1-2% pyrite; the lighter	202	305	3310	5	3.0
			sections are non-magnetic and contain 3-7% pyrite as fine disseminations.					
			(279.0-289.0) broken core ½ inch - 4 inch pieces 85% recovery					
			(289.0-293.0) good core - 95% recovery					
			(293.0-300.0) broken core 1-4 inch pieces.					
			(300.0-301.0) fault - core crushed into fine sand and small pieces					
			(301.0-310.0) broken core, 1 to 4 inch pieces - weak foliation at 80°.					
			(309.0-310.0) -badly broken with 6 inches of crushed core and clay gouge associated with a 20° fault.					
310.0	415.0		NICOLA VOLCANICS (BASALT-ANDESITE)					
			Deep reddish-brown to med. grey-green, very fine grained; speckled with fine anhedral feldspar locally altered to epidote; cut by a network of fine fractures healed by calcite-quartz and epidote-calcite, variably magnetic, generally weakly magnetic; no sulphides observed; massive to weakly foliated.					

D.C. MILLER GEOLOGICAL SERVICES · DRILL LOG HOLE NO. IQTA 87-2

FOOTAGE FROM	FOOTAGE TO	SECTION 1" =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS AU PPB
310.0	415.0		NICOLA VOLCANICS CONT'D					
				31203	310	315	5	3.0
			(311.0-312.0) strong epidote alteration.	04	315	320	5	3.0
				05	320	325	5	3.0
			(311.0-313.0) broken core.	06	325	330	5	3.0
			(315.0-317.0) broken core.	07	330	335	5	3.0
				08	335	340	5	3.0
			(310.0-315.0) - 90% recovery.	09	340	345	5	3.0
			(315.0-317.0) - 60% recovery.	10	345	350	5	3.0
			(317.0-325.0) - good core - 99% recovery.	11	350	355	5	3.0
			(325.0-332.0) - broken core -70% recovery,	12	355	360.	5	3.0
			possible fault at 331.0.	13	360	365	5	3.0
			(332.0-347.0) - good core - 95% recovery.	14	365	370	5	3.0
				15	370	375	5	3.0
			(347.0-358.0) - fair core with foliation at 40-60°;	16	375	380	5	3.0
			95% recovery; core breaks parallel to	17	380	385	5	3.0
			foliation and along 20-40° fractures;	18	385	390	5	3.0
			351.0 - ½" calcite and gouge with 45° fault.	19	390	395	5	3.0
			357.5 - 6" soft, leached core with some gouge	20	395	400	5	3.0
			with 60° fault.	21	400	405	5	3.0
				22	405	410	5	3.0
			(358.0-367.0) - good core, fairly massive - 95% recovery.	32223	410	415	5	3.0
			(367.0-390.5) - weak layering at 60-70° - fair core,					
			95% recovery.					
			(377.0-378.0) breccia with sub-round fragments					
			to 1 inch.					
			(382.0-390.5) strong calcite-quartz veining					
			at 45-80° (15%), associated					
			with broken core.					
			(390.5-394.0) breccia with variable sized & shaped fragments ranging from 1/16 inch to 1 inch; strong quartz-calcite veining at various angles; (15%); Core recovery 99%.					
			(394.0-415.0) -massive, broken at (394.0-403.0)					
			then fair core - 90% recovery					
			(405.0-412.0) - several small faults at 60-80°					
			associated with calcite veins to 2 inches.					
END OF HOLE								

D.C. MILLER GEOLOGICAL SERVICES

DRILL LOG HOLE NO. IOTA 87-1

PROPERTY	TP OR AREA	AZIMUTH	DATE STARTED	CORRECTED DIP TESTS
	MERRITT 92I/2E	265°	January 14, 1987	
PROJECT	LOT & CONC.	DIP	DATE COMPLETED	
		-67°	January 19, 1987	
CLAIM NO.	CO-ORDINATES.	LENGTH	DRILLED BY	
G&G 1	500 S	387 FT.	TEX DRILLING	
GRID NO.		COLLAR ELEV.	LOGGED BY	
	0 E		D.C. MILLER	

LOCATION SKETCH OF HOLE

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=
0	11.0	
11.0	51.0	

NQ CORE

DESCRIPTION

CASING NO CORE

MICRODIORITE

Medium grey-green, variable fine-grained porphyritic texture with whitish to pale greenish anhedral to subhedral feldspar (5-40%) and (5-20%) dark subhedral mafics in a finer grained matrix; core is weakly to moderately magnetic and is cut by a number of very fine fractures mainly less than 1/16" thick and healed by calcite, quartz, epidote, hematite and minor (traces) of very fine sulphides (pyrite& chalcopyrite); fine fractures are oriented at all angles but (fracture density locally greater than 1 per inch) most commonly at 40-60° to core axis; core has a vague brecciated appearance due to rounded granular fragments in a finer grained matrix of the same composition.

(11.0-51.0) Fair core in pieces commonly 4-10".
Core breaks along fractures mainly at 50-70°, some at 0-30°.
Broken core: (13.0-14.0), (16.0-16.5), (36.0-37.0) & (39.0-40.0.
Epidote Alteration: - 2" @ 80° @ 12.0, pervasive at (14.5-16.0), 20% irregular blobs at(25.0-26.0)

Core Recovery: 11.0 - 40.0 - 90%
40.0 - 51.0 - 85%.

SAMPLE NO.	FROM	TO	LENGTH	ASSAYS Au PPB
31224	11.0	15.0	4.0	3.0
25	15.0	20.0	5.0	3.0
26	20.0	25.0	5.0	3.0
27	25.0	30.0	5.0	3.0
28	30.0	35.0	5.0	3.0
29	35.0	40.0	5.0	3.0
30	40.0	45.0	5.0	3.0
31	45.0	50.0	5.0	3.0

D.C. MILLER GEOLOGICAL SERVICES

DRILL LOG HOLE NO. IOTA 87-1

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS Au PPB
51.0	61.0		MICRODIORITE Similar to preceding but broken core into pieces 1-4"; broken core associated with quartz-calcite veining at 0-30° to core; some fractures are coated with 1/16 inch of clay; local strong epidote alteration at (54.0-55.0) and (57.0-58.0). alteration banding @ 50° (54.0-55.0); veining near 59.0 healed by zeolites? Core recovery (51.0-61.0) - 80%; weakly to moderately magnetic.	31232	50.0	55.0	5.0	3.0
				31233	55.0	60.0	5.0	3.0
				31324	60.0	65.0	5.0	140.0
61.0	87.5		MICRODIORITE Similar to (11.0-51.0) generally good core but broken at (62.5-65.0), (67.0-68.0) & (75.5-77.0); increasing epidote alteration at (81.0-87.5); minor fine grained pyrite & chalcopyrite. Core recovery 90%, weakly to moderately magnetic.	31076	65	70	5	5.0
				77	70	75	5	3.0
				78	75	80	5	3.0
				79	80	85	5	3.0
				80	85	87.7	2.5	3.0
				81	87.5	91.0	3.5	3.0
				82	91	95	5	3.0
87.5	91.0		MICRODIORITE Dark grey, aphanitic, very hard, 15% epidote veining at (30-50°), minor fine sulphides (pyrite-chalcopyrite possible gold); heavy density of very fine fractures healed by quartz-calcite-epidote; contact at 91.0 @ 30°; contact at 87.5-broken but generally good core; Recovery 95%; moderately magnetic.	83	95	100	5	5.0
				84	100	105	5	3.0
				85	105	110	5	3.0
				86	110	115	5	3.0
				87	115	120	5	3.0
				31088	120	125	5	3.0
91.0	123.0		MICRODIORITE Similar to (11.0-51.0), generally good core, broken at (100.0-101.0) & (110.0-112.0); strong epidote alteration at (111.0-118.0) - approximately 15%; moderately-weakly magnetic, traces of very fine pyrite. Occasional low angle fracture healed with 1/16" clay-hematite; weak foliation at 40°; Core recovery 95%. (120.0-122.0) weak foliation with fine purplish hematite layers at 50°.					

D.C. MILLER GEOLOGICAL SERVICES

DRILL LOG HOLE NO. IOTA 87-1

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS Au PPB
123.0	138.0		NICOLA VOLCANICS (ANDESITE)					
			Mainly grey-green but banded with 15% dark reddish-purple	31089	125	130	5	3.0
			hematitic layers, weak foliation at 45-60°; generally good	90	130	135	5	3.0
			core in pieces 3-8", broken at (129.5-130.0) with minor clay	91	135	140	5	60.0
			gouge; core is weakly to strongly magnetic; no sulphides	92	140	145	5	3.0
			observed; core contains a fairly high density of fine quartz-	93	145	150	5	400.0
			calcite healed fractures at various angles, but mainly at	94	150	155	5	100.0
			45-60°; approximately 1 fracture per inch;	95	155	160	5	3.0
			Core recovery 85%; core is softer than previously.	96	160	165	5	3.0
			(128.5-129.5) - very fine grained.	97	165	170	5	60.0
			(132.0-135.0) - microdiorite	31098	170	175	5	460.0
138.0	151.0		FAULT ZONE (ANDESITE)					
			Core similar to (123.0-138.0) but is bleached pale to					
			medium grey and is broken into pieces ranging from 4 inches to					
			less than 1 inch; locally leached and pitted with minor clay					
			gouge; 10% white quartz-calcite blobs and veinlets healing					
			fine fractures; core is moderately magnetic; gouge healed faults					
			trend at 0-45° with most gouge at (147.0-149.0); minor pyrite;					
			Core recovery 80%.					
151.0	173.0		NICOLA VOLCANICS (ANDESITE)					
			Dark grey-green, moderately soft; similar to (123.0-138.0)					
			but increasing epidote alteration; moderately to strongly					
			magnetic; weak foliation at 45-70° with alternating very fine					
			grained layers with hematite (purple) and coarser grained					
			epidote altered layers; 10% quartz-calcite veining to 3 inches					
			thick, generally parallel to layering at 45-70° but some at all					
			angles; no sulphides observed.					
			Core recovery 95%.					
			(165.0-167.0)-broken core with 50% quartz veining and pervasive					
			silicification.					
			(170.0-172.0)-microdiorite					

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS Au PPB
173.0	215.0		NICOLA VOLCANICS (ANDESITE)					
			Mainly greenish some grey and orangey red; local strong	31099	175	180	5	3.0
			pervasive epidote alteration; moderately to strongly magnetic	100	180	185	5	3.0
			except orangey colored section at (206.0-212.0) which is	101	185	190	5	3.0
			weakly magnetic; generally fair core but broken at (177.0-186.0),	102	190	195	5	3.0
			(189.0-192.0), (198.0-199.0), (202.5-203.5) & (209.0-215.0).	103	195	200	5	3.0
			This section is similar to (151.0-173.0) except layering is	104	200	205	5	3.0
			weak at 50° + or absent, very minor fine grained layers are	105	205	210	5	3.0
			present and epidote alteration is much stronger.	106	210	215	5	3.0
			White quartz-calcite veining diminishes from 5% at(173.0)	107	215	220	5	3.0
			to less than 1% at (215.0) No sulphides observed. This section	108	220	225	5	3.0
			is characterized by a fine grained granular texture with anhedral	109	225	230	5	3.0
			crystals. Core recovery: (173.0-210.0) =90%	110	230	235	5	3.0
			(210.0-213.0) =50%	111	235	240	5	3.0
			(213.0-215.0) =40%	112	240	245	5	3.0
				113	245	250	5	3.0
215.0	255.0		MICRODIORITE ?	31114	250	255	5	3.0
			Medium grey-green, fine grained to aphanitic, moderately					
			soft, non-magnetic to weakly magnetic, contains about 5% very					
			fine grained pyrite as disseminations and very fine discontinuous					
			veinlets; about 5% white quartz-calcite veinlets at various					
			angles; minor very fine discontinuous hematite (deep red-purple)					
			veinlets mainly at 45-70°; minor epidote alteration, increases					
			towards (255.0); some sericite alteration.					
			Core is generally broken in pieces 2 inches or smaller; no					
			banding or layering.					
			Core recovery; (215.0-220.0) = 80%					
			(220.0-225.0) = 50%					
			(225.0-230.0) = 15% (No core at (226.0-228.0))					
			(230.0-235.0) = 35%					
			(235.0-240.0) = 80%					
			(240.0-245.0) = 85%					
			(245.0-250.0) = 85%					
			(250.0-255.0) = 20%					

D.C. MILLER GEOLOGICAL SERVICES

DRILL LOG HOLE NO. IOTA 87-1

FOOTAGE FROM	FOOTAGE TO	SECTION 1"=	DESCRIPTION
255.0	294.0		MICRODIORITE ? Similar to the preceding, but better core, weakly to moderately magnetic, contains 2-8% very fine grained pyrite as disseminations; about 5% white quartz-calcite veinlets at various angles but mainly at 30-45° and 60-80°; minor epidote & hematite alteration; generally massive but local weak foliation 30° @ 260, 15° @ 273, 50° @ 281.5. Broken core: (255.0-257.0), (274.0-280.0), (284.0-287.0), (288.0-289.0) & (293.0-294.0). Core recovery;(255.0-260.0)= 90% (260.0-294.0)= 95%
294.0	387.0		MICRODIORITE ? Similar to the preceding, but becomes increasingly altered with epidote as veins and pervasive patches, weakly to moderately magnetic; contains about 5% pyrite as disseminated fine grains; about 3% fine white quartz-calcite veinlets at various angles; generally fair core with some broken sections. (303.0-304.5)-unaltered, possible dyke, contacts at 85° ± Broken Core: (299.5-301.5), (306.0-310.0), (313.0-319.0), (330.0-331.0), (336.0-337.0), (342.0-346.0), (370.0-378.0) & (386.0-387.0) Core recovery;(294.0-301.0) = 90% (301.0-370.0) = 95% (370.0-387.0) = 90% 342.0' - 2 inches of very soft core, fault. (384.0-387.0) - soft, well fractured core, 45-60° fractures predominant (375.0-387.0) - only minor epidote alteration & weakly to non-magnetic.
END OF	HOLE		

SAMPLE NO.	FROM	TO	LENGTH	ASSAYS Au PPB
31115	255	260	5	3.0
16	260	265	5	3.0
17	265	270	5	3.0
18	270	275	5	3.0
19	275	280	5	3.0
20	280	285	5	3.0
21	285	290	5	3.0
22	290	295	5	3.0
23	295	300	5	3.0
24	300	305	5	3.0
25	305	310	5	3.0
26	310	315	5	3.0
31127	315	320	5	3.0
28	320	325	5	3.0
29	325	330	5	3.0
30	330	335	5	3.0
31	335	340	5	3.0
32	340	345	5	3.0
33	345	350	5	3.0
34	350	355	5	3.0
35	355	360	5	3.0
36	360	365	5	3.0
37	365	370	5	3.0
38	370	375	5	3.0
39	375	380	5	3.0
31140	380	387	5	3.0