GEOLOGICAL BRANCH ASSESSMENT REPORT

11,240

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE GERIMI 1 - 27 CLAIMS

BRITISH COLUMBIA

CARIBOO MINING DIVISION

by

S.L. Topham, B.Sc.

and

P. E. Fox, Ph.D., P.Eng.

Fox Geological Consultants Ltd. 410 - 675 West Hastings Street Vancouver, B.C.

Gerimi 1 - 27 Claims
NTS 93 A/13W
NTS 93 B/16E
52°48'N 122°13'W
Work paid for by Dome Exploration (Canada) Limited
July 20, 1983

CONTENTS

																				Page
INTRODUCTIO	о				٠			•	•	٠	,	•			,	٠	٠	٠	+	1
LOCATION, A	CCESS AN	D ?	го	PO	GR	A	PH	ΙΥ			٠	٠	٠	٠	÷	٠	٠	•		1
CLAIM INFOR	MATION					٠		•	•	s.	*	*				•	•	*		4
REGIONAL GI	COLOGY						٠			•									•	5
GERIMI 1-4 (Regio Lithol	nal Geology	· .		: :	:	:	:												:	5
SAMPLING PR	OGRAM	٠							•					٠		•				8
RESULTS .		,			٠		٠									•	•			11
	NTS ing Gerimi atting, Flag			Sa:	mp	lin	ng	Ġ	eri	mi	. 5		.7				:	:		12 13
REFERENCES														٠	٠	٠				14
																			K	ii.
		T	AB	LES	5															
Table I	Metres	of	Gr	id	Cu	ıt .	an	d :	Sa	mp	ole	d	Pe	r	CI	aiı	m	•	*	9
		п	LU	ST	RA	T	(0)	NS	į.											
Figure 1	Location	М	ap	ì	+		٠	•		•				•			•	•		2
Figure 2	Claim M	ſap						٠						٠						3
Figure 3	Geologic	al	M	ар	Ge	rii	mi	1	-4				٠					•	•	Pocket
Figure 4	Geochen	nic	al	Ma	p	-	Ca	ınt	in	C	re	ek	G	ric	d		•			Pocket
Figure 5	Geochem	ica	1	Mar		N	v1	an	d	La	ke	G	ri	d		٠.				Pocket

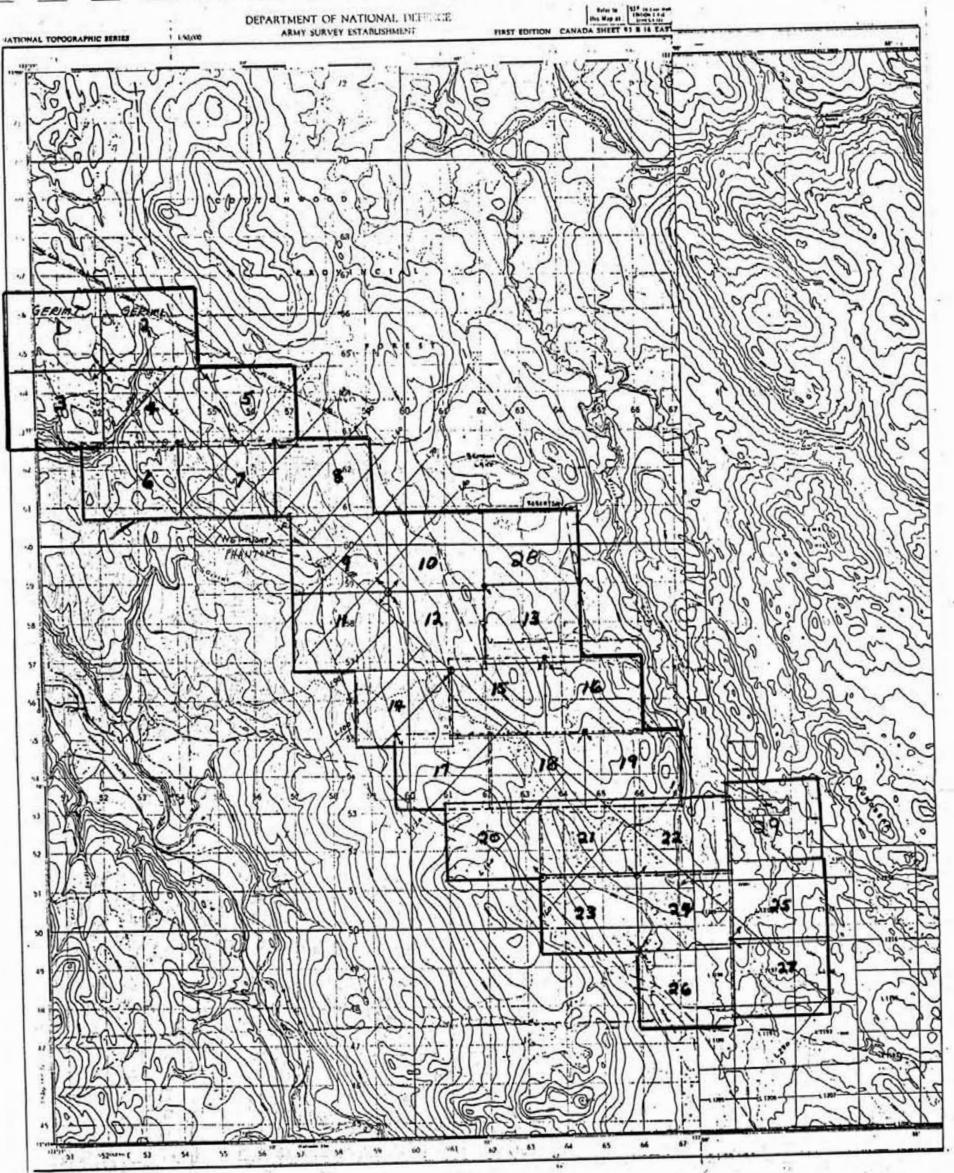
INTRODUCTION

This report summarizes the results of the 1982 exploration of the Gerimi claims. Gerimi 1 - 27, comprising 540 units (13,500 hectares) was originally staked in June and July, 1982. Gerimi 28 (20 units, 500 hectares) was staked in November 1982 followed by Gerimi 29 (20 units, 500 hectares) in June 1983. From July 20 to October 10, 1982, 23 kilometres of base line and 117 kilometres of grid line were cut and flagged on Gerimi 5-27, followed by soil sampling. Detailed mapping at a scale of 1:15,000 was carried out on Gerimi 1-4 during the same period. The programs were designed to aid in an evaluation of the property.

LOCATION, ACCESS AND TOPOGRAPHY

The Gerimi property consists of 29 claims lying along a northwesterly "line" some 26.3 kilometres in length. The northernmost claims lie 6 kilometres east of the Quesnel River and 20 kilometres east-southeast of the town of Quesnel. The southernmost claims encompass the northern half of Nyland Lake and lie 9 kilometres east of the Quesnel River. Access to the site is by a series of gravel-surfaced roads - the old Nyland Lake Road, the Branch 2700 Forestry Road and the Branch 500 Forestry Road - leading from Highway 26, the Barkerville Highway, 16 kilometres east of Quesnel.

Local terrain consists of rolling hill country typical of the interior plateau region. Southern slopes are thickly vegetated by spruce and tag alder stands. Northern hill slopes are more open. Altitudes range from peaks above 3800 metres to a low of 2300 metres at Cantin Creek. The area exhibits erosional and depositional features of continental glaciation which moved in a general northwesterly direction, somewhat parallelling the north-northwesterly strike of the Quesnel Belt rock and lineament or fault system.



QUESNEL RIVER

GEOLOGICAL BRANCH ASSESSMENT REPORT

11,240

11 - de des a vil a sipigure 200 les so

CLAIM MAP - GERIMI 1-27 SCALE 1:100,000 NTS 93 A/13E, B/16W

CLAIM INFORMATION

Expiry dates shown assume work described herein is accepted for assessment purposes.

		Record No.	Units	Expiry Date
Gerimi	1	4364	20	July 20, 1985
	2	4365	20	July 20, 1985
	3	4366	20	July 20, 1985
	4	4367	20	July 20, 1986
				(\$1,600 towards 1987 work)
	5	4368	20	July 20, 1985
	5 6 7	4369	20	July 20, 1985
		4370	20	July 20, 1985
	8	4371	20	July 20, 1985
	9	4372	20	July 20, 1985
	10	4373	20	July 20, 1985
	11	4374	20	July 20, 1985
	12	4375	20	July 20, 1985
	13	4376	20	July 20, 1985
	14	4377	20	July 20, 1985
	15	4378	20	July 20, 1985
	16	4379	20	July 20, 1985
	17	4380	20	July 20, 1984
	18	4381	20	July 20, 1985
	19	4382	20	July 20, 1985
	20	4383	20	July 20, 1985
	21	4384	20	July 20, 1985
	22	4385	20	July 20, 1985
	23	4386	20	July 20, 1985
	24	4387	20	July 20, 1985
	25	4388	20	July 20, 1985
	26	4389	20	July 20, 1985
	27	43 90	20	July 20, 1985
	28	4591	20	November 23, 1983
	29	4943	20	June 27, 1984

REGIONAL GEOLOGY

The Gerimi property is situated in the eastern part of the Quesnel Trough not far from the eastern boundary with metamorphosed units of the Cariboo Mountains. In the prospect region, the Mesozoic Takla Group, comprising submarine volcanic rock and breccia together with their derived sedimentary units, discontinuous carbonate horizons, and marine sediments, is dominant.

The major northwest trend of the Quesnel Belt stratigraphy is interrupted by systems of northeasterly trending block faults. Complex intrusive stocks and sills of quartz monzonite, diorite and syenite intrude the volcanic rocks and sediments of the Takla Group. The QR stock is one example of this type of intrusion which showed associated porphyry copper-type mineralization. Alkalic stocks recognized at Maud, Shiko, and Kwun Lakes coincide with a northwesterly trending lineament.

Exploration work in this area is an extension of previous work which concentrated on locating subvolcanic plutons and exploring country rock in and around stocks for the porphyry-type deposits.

GERIMI 1 - 4 GEOLOGY

Regional Geology

A thin but extensive mantle of glacial till covers virtually all of the area of interest. Geology was compiled from a combination of mapping the few visible outcrops, creek bed and road cut sampling, prospecting carried out during linecutting and flagging, Bailey's Morehead Lake thesis, and Assessment Report 6701.

Main structural features of the claim area include northeasterly trending faults and offset blocks, resulting in sharp breaks in lithological continuity. Sequences of units inferred to be "younging" towards the centre of the property delineate a probable syncline with felsic breccia and greywacke core and mafic basalt crest.

The property is underlain by a sequence of epiclastic units followed by volcaniclastic rock, passing from grey and green upwards into maroon basalt and breccia, some calcareous. The mafic volcanic sequence ends with grey basalt flows, pillow lava and breccia, on top of which lie the felsic breccia and flows indicating the presence of a felsic stock.

Lithology

Unit 1 - Argillite, sandstsone, conglomerate

Specimens of this unit outcrop to the north and west of Gerimi 2. The unit consists of fine grained, grey siliceous siltstone with white, grey and pale green bands of some 5 cm width. The siltstone is cut by quartz veins and dykes up to 15 cm. It is in contact with fine grained black argillite which contains fine hematite veins. A few calcite veins cut both siltstone and argillite. No bedding was seen.

Unit 2e - Pyritic argillite and wacke

This unit comprises fine and medium grained grey and green volcaniclastic sandstone and weakly pyritic argillite, showing minor epiclastic argillite and sandstone. Augite phenocrysts 5-15 mm, showing larger phenocrysts in coarser grained material, are present, together with isolated propylitic fragments of up to 50% epidote, local lenses of calcite, and disseminated hematite, magnetite and pyrite. The rock is cut by 5-10 mm epidote veins.

Unit 2d - Maroon wacke, breccia, basalt rubble

This unit, in the southeast corner of Gerimi 3, consists of fine grained maroon basalt, propylite, phenocrysts of augite and feldspar, amygdules of analcite and minor calcite, and up to 20% calcite overall. Fragments are brecciated. The maroon basalt is intercalated with maroon, fine to medium grained bedded sandstone which consists of some 30% mafic rock, occasionally calcareous, with isolated epidote aggregates. Strike of the bedding is northwest, dip 60 to 80 degrees northeast. Some crossbedding was noted.

Unit 2c - Calcareous basalts, commonly pyritic

This basalt is fine grained, grey to black, with 15% calcite. Phenocrysts include subhedral to euhedral feldspar, brown pitted pyroxene and subhedral and euhedral augite. Amygdules include analcite and isolated spherical quartz-muscovite. Fine pyrite, both disseminated and in aggregates, and disseminated magnetite are present.

Unit 2b - Maroon basalt and breccia

The basalt is fine grained, brecciated and consists of frequent augite phenocrysts, feldspar phenocrysts, analcite amygdules and calcite amygdules. Frequency of analcite amygdules varies locally from 15% to 50%. Breccias, consisting of subrounded to subangular fragments, are considered to be slump or flow in origin.

Unit 2a - Grey monolithologic breccia, flows, pillow lava

This breccia consists of fine grained grey and black basalt containing feldspar and augite phenocrysts. Fragments are rounded to subrounded and include fine to medium grained felsic tuff and rounded to subrounded fragments of hornblende basalt and propylite, and amygdules of analcite and lesser calcite. Fine pyrite, disseminated and in aggregates, and magnetite are present.

Unit 3 - Felsic rock: massive polylithologic breccia flows, wacke, conglomerate, breccia

The maroon and grey felsic breccias are coarse, chaotic, unsorted breccias containing from 1-40% rounded to subrounded fragments. Felsic fragments, occasionally reminiscent of pillow shapes, contain up to 40% subhedral and euhedral augite. Mafic and dioritic fragments are also present. Epidote veins and aggregates, and epidote-rich propylitic fragments are locally prominent. Isolated felsic flows are fine grained, greenish grey porphyries containing augite phenocrysts. Hematite, disseminated magnetite, isolated pyrite and occasional sphalerite were noted. In the area of Cantin Creek, the breccia changes from polylithologic to monolithologic -- consisting of felsic material only. Minor greywacke forms beds within the felsic fragments. The felsic material is generally distinguished by the presence of andesite and syenite fragments, and the light colour of fragments and groundmass.

Unit 4 - Diorite, monzonite, syenite (Cantin Creek stock)

A total of 409 m, 5 holes, was percussion drilled within the stock in September, 1977, for Newconex Canadian Exploration. Holes 1, 2 and 3 did not penetrate bedrock. Cuttings consisted of a grey, fine grained, pyritic, hornblende-augite diorite below a layer of quartz-feldspar material. Can 4 returned the quartz-feldspar at 57.6 m (Fox classifies it as mixed diorite and syenite from 30.5 m to 76 m and barren grey diorite below). Can 5 returned waxy, epidote-rich, chloritic, fine grained hornblende-augite basalt chips from 12 m to 91 m (Assessment Report 6701).

SAMPLING PROGRAM

The program consisted of grid preparation and soil sampling. One hundred and thirty kilometres of line were cut and flagged. This consisted of 23 kilometres of baseline and 117.5 kilometres of grid line, spaced one kilometre apart and flagged at 50 metre intervals. Work was done intermittently between July 20, 1982 and October 10, 1982.

Geochemical work consisted of soil samples collected at 50-metre intervals along established grid lines. Samples were taken from the B horizon where possible, or from tills and talus material. Bogs and swamps were specifically avoided. Two thousand samples were taken; nineteen hundred and eighty seven were analyzed.

Approximately one kilogram samples were collected by mattock and stored in kraft paper bags. Samples were screened and the -80 mesh fraction pulverized and analyzed by Acme Analytical Laboratories, 852 East Hastings Street, Vancouver, B.C. Gold content only was analyzed, both by atomic absorption techniques and by fire assay.

The summer was exceptionally wet, resulting in extra time required for linecutting, flagging, sampling and vehicle repair.

TABLE I
METRES OF GRID CUT AND SAMPLED PER CLAIM

		Line No-	Metres	Total Metres Per Claim
Gerimi	5	20S *	2200	2200
Gerimi	6	208	300	300
Gerimi	7	208	2500	
		30S	2800	5300
Gerimi	8	30S	2200	
		40S 50S	3500 2600	8300
Gerimi	9	50S	1600	
		60S	4550	
		70S	900	7050
Gerimi	10	70S	2700	
		80S	2600	
		90S	1600	6900
Gerimi	11	60S	1250	
		70S	2200	200
		80S	1850	5300
Gerimi	12	80S	1050	
		90S	2800	
		100S	1000	4850
Gerimi	13	100S	2200	
		1105	2200	
		120S	800	5200
Gerimi	14	90S	1900	
		100S	2850	
		1105	300	5050
Gerimi	15	100S	250	
		110S	2450	
		120S	1750	4450
Gerimi	16	120S-	950	
		130S	2900	
		140S	1375	5225
Gerimi	17	1105	2300	
		120S	2700	
		130S	300	5300 _.

Gerimi	18	120S	350	
Gerimi	10	1305	2300	
			10 1 Test 1 C 1 C	4400
		140S	1750	4400
Gerimi	19	140S	825	
		150S	3050	
		160S	1300	5775
		2656		
Gerimi	20	130S	1000	
		140S	1850	
		150S	850	3700
Gerimi	21	150S	2000	
Germi		160S	2350	
		1705	400	4750
Gerimi	22	160S	400	
		170S	3000	
		180S	2500	5900
Gerimi	23	160S	1150	
O CLILLIA		170S	2600	
		1805	1200	4950
		1003	1200	4950
Gerimi	24	180S	1700	
		190S	2550	
		200S	650	4900
Gerimi	25	1908	1300	
Gerimi	65	2005	2250	
		2105	2200	5750
		2108	2200	5750
Gerimi	26	1908	1550	
		200S	1900	
		2105	1500	4950
Gerimi	2.7	2105	1700	
oc.imi		2205	3150	
		2305	2000	6850
		2303	2000	0000

RESULTS

Results of geochemical analysis are given in Figures 4 and 5. Each sample site is plotted, indicating a division of gold content into three groups. Threshhold value of 20 ppb was taken at the 98th cumulative percentile. Anomalous values of 20 ppb and above were separated from sub-anomalous values of 10 to 19.9 ppb. Samples with assays below 10 ppb were considered to be indicative of background population.

A bimodal distribution is evident, showing some 1.5% to 2.0% anomalous population. Nineteen hundred and eighty seven samples were tested. Sixty four samples (3.22%) were at or above 10 ppb. Thirty-four samples (1.71%) were at or above 20 ppb.

One target area can be discerned from the plot, in Gerimi 26 and 27. First indication of anomalous and sub-anomalous area can be seen on Line 230S on the southeast corner of the claim; it includes two subanomalous samples below the southern boundary on Line 220S, then continues in a northwesterly direction, parallelling glacial drag, on Lines 207S and 200S in Gerimi 26.

No other easily recognizable targets are evident. The effects of glaciation, deglaciation and erosion have obscured the record. More sampling is planned for 1983, along with detailed exploration of the one target.

DISBURSEMENTS

Mapping Gerimi 1 - 4

Salaries:	Bruland	16 days @ \$240		\$ 3,840
	Cameron	12 days @ \$160		1,920
				8
Accommod	ation, board,	travel:		
	28 man-da	ys @ \$53.89	ät	1,509
Vehicle re	ntal, gasoline,	repair:		
	28 vehicle-	-days @ \$48.08		1,346
7				
Drafting a	nd report wri	ting:		
	Bruland	2 days @ \$240		480
		0		
Consulting	- P. E. Fox,	Ph.D., P.Eng.:		
	Time in fie	eld - 1 day @ \$400		400
		2		

Salaries: Bruland	3 days @ \$24		
Cameron	8 days @ \$16		
Hunt	days @ \$14		
Fitzgera	7 days @ \$ 9		4 27 004
McCosh	days @ \$ 9	6 4,416	\$ 27,984
Accommodation, boar	rel		10,131
Telephone and radio			2,354
Vehicle rental, gasoli		*40.00	2.001
2 4-wa:	ehicle days @	9 340.00	7,981
Equipment and supplie			5,156
Maps, photocopy			2,316
Geochemistry - Acme		#12 000	
2,000 sa Freight	@ \$0.50	\$13,000 221	13,221
Consulting - P.E. For			
Time in	- 10 days @	\$400	4,000
Report writing			500
			\$ 73,643
35 km. of line cut an Cost per km = \$627.5	pled		
0 +	OTAL DISBU	Alexa e Projection	\$ 83,138

Prepared by:

FOX GEOLOGICAL CONSULTANTS LTD.

S. L. Topham, B.Sc.

July 20, 1983

P. E. Fox, Ph.D., P.Eng.

REFERENCES

- Bailey, David Gerard, 1978. The geology of the Morehead Lake area, south central British Columbia, Ph.D. thesis, Queens University.
- Richardson, P.E., 1978. Percussion drilling on the Can 1 claim, British Columbia Department of Energy, Mines and Petroleum Resources Assessment Report No. 6701.
- Tipper, H.W., R.B. Campbell, G.C. Taylor and D.F. Scott, 1979. Map 1424A, Parsnip River sheet 93A.

August 15, 1983

Chief Gold Commissioner
Ministry of Energy, Mines and Petroleum Resources
Mineral Resources Branch
Victoria, B.C. V8V 1X4

Dear Sir:

Re: Statement of Exploration and Development Gerimi 1-27 Claims CACIÓ

Please find enclosed two copies of the report covering geological mapping on Gerimi 1-4, and linecutting and soil sampling on Gerimi 5-27. This report is to accompany the Statement of Exploration and Development filed July 20, 1983.

C.G.C.

MINISTRY OF ENERGY, MINES AND PETROLEUM RECOURCES

MINERAL TITLES FILE ROOM

AUG 17 1983

Yours very truly

FOX GEOLOGICAL CONSULTANTS LTD.

Sarah & Typhan

Sarah L. Topham

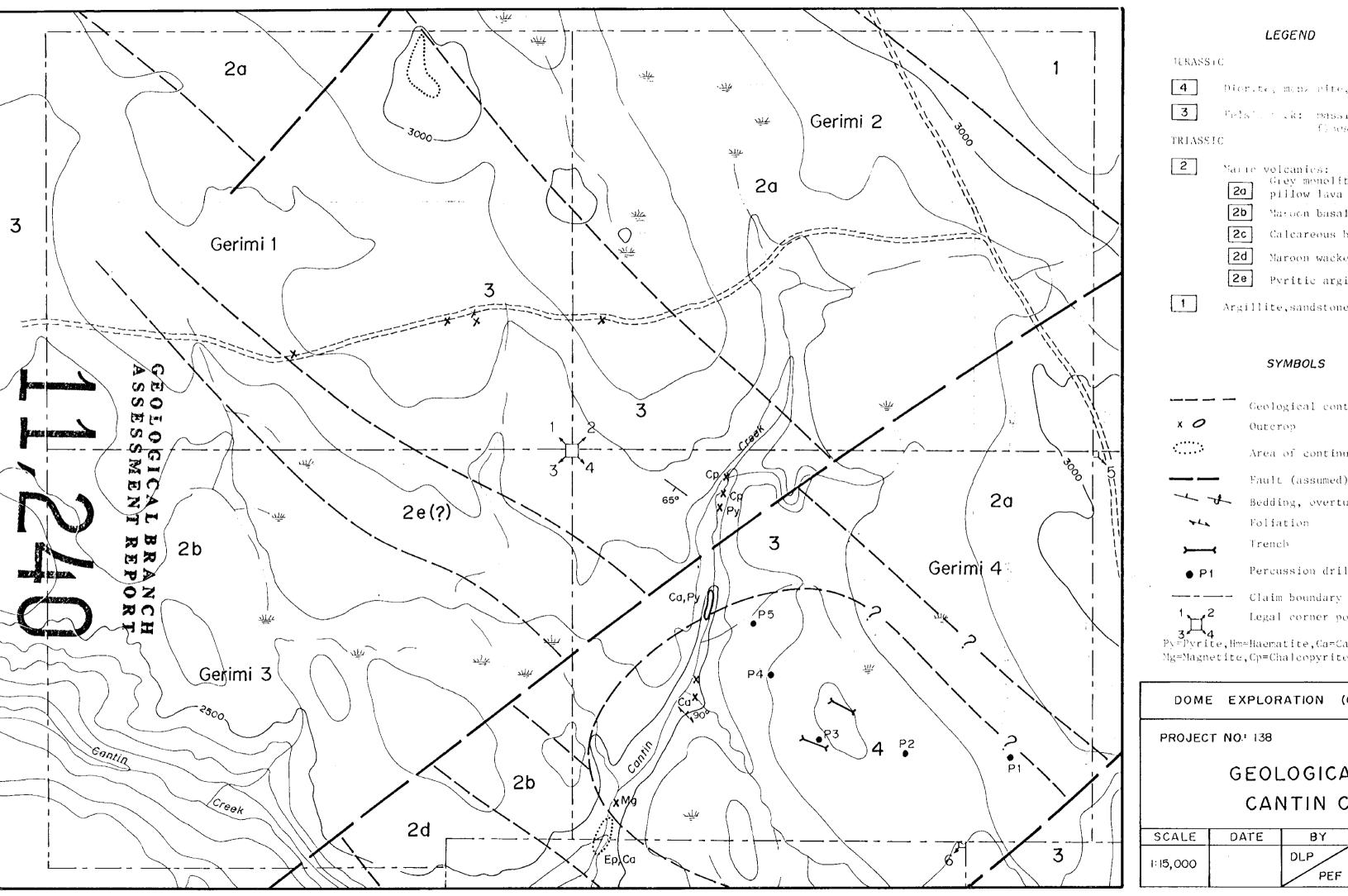
Encl.

6721

GEOLOGICAL BRANCH

11,24





Diorite, many ofte, ayrolte

Pelsinick: massive pillichel gir breccia, flows, poll wifa a. walle

Maire volcanies:
Grey monolithologie breezia, llows,

Maroon basalt and breccia

Calcareous basalts, commonly pyritic

Maroon wacke, breccia, basalt rubble

Pyritic argillite and wacke

Argillite, sandstone, conglomerate

Geological contact: approximate, assumed

Area of continuous outcrop

Fault (assumed)

Bedding, overturned bedding

Percussion drill hole

Legal corner post

Py=Pyrite, Hm=Haematite, Ca=Calcite, Cc=Chalcocite Mg=Magnetite,Cp=Chalcopyrite,Ep=Epidote

DOME EXPLORATION (CANADA) LIMITED

GERIMI 1-4

GEOLOGICAL MAP CANTIN CREEK

SCALE	DATE	BY	N.T.S. No.	DWG. No.	l
1:15,000		DLP PEF	938 /16	3.	

