FILE NO:		
ACTION:		
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PROSPECTING

AND

GEOCHEMICAL SAMPLING

DECE CLAIMS

DOME MOUNTAIN

OMINICA MINING DIVISION

NTS MAP 93 L /106 QUICK

UTM GRID CO-ORDINATES OF LEGAL CORNER POSTS 653200 EAST 6065300 NORTH

LATITUDE 54' 42" N LONGITUDE 126' 38' ്പ് ജ ZC ≪ 🏊 CLAIM SIZE 

3 SOUTH \* 4 WEST 12 UNITS

COMMODITY - GOLD

OWNERS

DANIEL ETHIER BOX 184 SMITHERS B.C. VOJ 2NO PH.(604) 847-2814 RALPH KEEFE BOX 5 TELKWA B.C. VOJ 2XO PH.(604) 846-5638

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## INTRODUCTION

The DECE claim is located in west central B.C. in the Omineca Mining Division, NTS Map 93 L /10. The principal topographic feature in the area is Deception Lake, the claims include the north-eastern portion of the lake, within the boundaries. The claim block is 12 units, 3 south \* 4 west.

The Dece Claim is 2.5 km south of the central mineral deposit in the DOME MOUNTAIN CAMP.

Dome Mtn. is currently in the feasibility stage and is expected to go to production soon.

Outlying areas of mineral potential are currently being explored in the attempt to increase reserves.

Dome Mtn. vein characteristics trend north west and dip steeply to the north east or south west.

They occur in phyllitic Tuff of Telkwa formation. Veins parallel and crosscut the foliation.

The Free Gold claim veins are hosted by andesite and quartz feldspar porphory intrusive.

Veins are 3 cm to 3 metres in width, lenticular and locally folded and brecciated. In the most intense altered zones green sericite occurs.

In 1924 the Dome Mtn exploration died due to veins proving lenticular and discontinuous in values, (barren zones in guartz).

In 1976 the area was reopened for intense exploration.

## LOCATION and ACCESS

The DECE claim is located in west central B.C. in the Omineca Mining Division, 34 km east southeast of the town of Smithers, and 33 km north of the town of Houston, NTS Map 93 L /10. The principal topographic feature in the area is Deception Lake, 4 km SSE of the Dome Mtn. peak.

Access to the property is by road from Smithers on the Babine Lk. road 41km to Chapman Lk. south Rd. to km 64, then by secondary logging road south and west on a series of logging roads for approx. 9 km, to the claim block which is situated in a logging sale. Another route is available from the Round Lake farming district but this is not recommended as it is rather rough going around Guess Lk. Helicopter access is available from several bases located in Smithers.

The town of Smithers is supportive of the mineral industry with a major supply centre located here. The government facilities include a sub-recording office and the Department of Energy, Mines and Resources.

#### PHYSIOGRAPHY

The property lies within 3600' and 4300 feet elevation. The terrain is generally moderate to gently sloping with flat dry and marshy ground in the central low region. South exposure with numerous secondary roads from past logging activity. Most of the claim has been logged (clear-cut), but there is a section of forest that remains which is well timbered with balsam, spruce, pine and popular.

#### CLAIM STATUS

The Dece claim was staked on March 17 1989, by R. Keefe and D. Ethier. Tag number 109507, Record number 10244.

The claim is 12 units , 3 south \* 4 west. Current expiry date is March 17 1993.

The claims are in good standing with no liens or encumbrances.





1:50,000.



## PROPERTY HISTORY

#### DECEPTION LAKE

## ASSESSMENT REPORTS

# 5374 - 1974 I.P.geophysical + geochemical # 5435 - 1975 four diamond drill holes. # 13842 - 1985 geochem survey. # 15148 -1986 geochem survey.

This area has been under review for a considerable length of time. The first assessment report found was from 1974, a program of Induced Polarization and Geochemical soil survey. This was carried out on the TAK and ZUK claims, by Sumac Mines Ltd., and was being investigated for porphory copper deposits. Sumac conducted reconnaissance soil geochemistry and 64 km of I.P. The report indicated two IP conductors running parallel on a north-west trend. They are 500 metres apart and extend for approx. 1700 metres. An anomalous geochem zone follows both conductors over the length (CU, ZN.). Two other conductive zones and a resistive low exist in the area.

The 1974 program recommended four diamond drill holes and this was accomplished in March of 1975. The drill holes did not intersect any major mineralized zone. However major zones of qtz. stringers with strong chlorite and sericite alteration are apparent in the drill logs. Several intersections of 2-4 % pyrite over 18 ft., qtz. and carbonate stringers, sericite, chlorite. Zones of breccia noted. Many of the potential AU bearing zones were not analysised.

Noranda Exploration Co. Ltd. carried out geological mapping, soil geochem, magnetometer, electromagnetic, and I.P. surveys, this work is not available to the public.

In 1984 R. Holland staked the ground and a soil survey was conducted, this indicated a strong geochem kick of AU, AG, CU, AS, PB, occurring in the central portion of the claim. This anomaly has a east-west trend. Two anomalous AU zones of the 84 program coincide with 1974 geochem work. During the 84 season a large float rock of massive sulfides was found near the east border of the claims.

### GEOLOGY

There is ample information available on the Dome Mtn Camp geology in regional and specific reports. Please refer to Ministry of Energy Mines and Petroleum Resources, Geological Fieldwork, 1986, Paper 1987-1, for a detailed, professional discussion of this area.

Outcrops of altered qtz. porphory and porphyritic qtz. monzonite, with related qtz. veining have been reported on Dome Mtn. The claims are underlain by greywacke, graphitic argillite and dacite to andesitic tuffs and flow rocks possibly belonging to the Nilkitkwa Formation. No detailed geologic information is available for the property area and outcrop exposure is limited. (Holland Ass. report 15,148)

#### MINERALIZATION

During the 1989 prospecting season several zones of quartz veining were found. Numerous veins ranging from 3cm to 1 metre width, running parallel on the north-west trend, About 500 metres to either side of the qtz. zone there is quartz feldspar porphory carrying pyrite and pyrrotitte. South of the qtz. zone on an east -west trend there is a large >400 metres zone of disseminated pyrite in propylitic altered chloritized hornblende porphory.

89 DE 440

Float from an uprooted tree, quartz feldspar porphory with pyrite, pyrrotitte. 97 metres east of I.D.post 3 W 0 S.

dec 01 F

Float, from around 4 W post.

quartz carbonate in heavily altered mashed up rock pyrite, limonite.

Au .03 g/t, Ag 1.0 g/t, Fe 4.25 %, Zn .01 %

dec 02

claim line area 3WOS, outcrop along upper edge of logging sale. This rock is a buff green, fine grained volcanic? spotted with black dots, (hemitite?). It is possible that it is an intrusive that has been regionally altered to epidote calcite, and silicified.

Au .02 g/t.

pq. 10 dec 02 F small 3 inch gtz vein, unusual linear bands and tabular crystal shapes, possibly pseudomorph of calcite or barite. sample insufficient for lab. dec 03 same area as 02 I.D. post 3W0S, south end of outcrop, rock has very interesting texture, chunks of intensely altered clay carbonate wall rock, gtz. carbonate flooding after? wall rock disintegration. pyrite, possible Pb., Mg staining. Au .03 g/t Fe 1.22% dec 04 I.D. post 3WOS, east 105 metres, checking back on sample DE 440 taken during the winter staking. Did not relocate the qtz. feldspar porphory, however there is a zone about 4-5 metres wide in the float train along the hillside, coarse float, residual. It appears to be trending north. Silicified green volcanics, likely flow related? Limonite staining is common in this band. Rocks are mineralized with pyrite, pyrrotitte, and hemitite. These rocks appear somewhat altered. Au .04 g/t Fe 4.04% Zn .01% dec 05 I.D. post 3W0S, south-southeast 100 metres, qtz. vein 2-3 inches thick, exposed by an overturned tree, still in logged area, bedrock. Apparent strike 320' horizontal. Green volcanic with qtz. vein and epidote crystals, and unknown brown mineral (brn. epidote?) Au .03 q/t dec 06 F small sample of float from roadway, qtz. with heavy limonite.

Au .02 g/t Fe 1.44%

## dec 07 F

I.D. post 2WOS, 200 metres West, 100 metres south. Along fire guard at edge of slash walking towards the brow of the hill where there is visible outcrop, at 4150 ft elev. UTM 520.5 E - 652 N. One large float rock 12"\*8", Bull qtz. with carbonates and shisty green chlorite, possible sericite, and a black mineral. Goldish sheen to some material in the carbonate, limonite pockets, stained sericite?

Au .03 g/t

continuing uphill from 07 , 75 metres at the edge of the logging block north west corner, There has been several trees blown over in wind storms, the roots have stripped the overburden off and exposed bedrock. There are numerous veins of quartz ranging in size from 2" to 6" in an altered volcanic? Generally white bull qtz. with some carbonate, stained with limonite, and occasional clusters of trenolite. The average strike is 316' dip 44' NE. numerous smaller veinlets suggest stockwork.

Au .03 g/t Fe .88%

#### dec 09

dec 08

50 metres away from 08 NNE, uphill along the cat push into the forest. 2" wide qtz. vein with epidote. There was a small bleb of tetrahedrite in the qtz. but it was too difficult to remove. Strike and dip same as 08.

Au .03 g/t Cu .01%

#### dec 10

100 metres east of the NW corner of the slash along the fire guard at the base of the outcrop. Actual outcrop is covered with logging debris , however several one foot square pieces of very fresh float from the talus train were from a qtz. calcite vein, enriched with epidote and chlorite, with some sericite and specular hemitite.

Au .02 g/t

## dece 11

This rock is probably a hornblende porphory that has been altered, the mafics have been chloritized, Propolitic alteration and bleaching, carbonate rich, feldspars have gone to epidote and clay. Pyrite, pyrrotitte. UTM 524E-647N, along road in central portion of property, 100 metres east of the junction for the road that leads to Deception Lake.

Au .02 g/t Fe 2.67%

## dece 12 From the old LCP travel SW along the old logging road for 400 metres. Chloritized hornblende porphory, propolitic alteration. Pyrite, pyrrotitte, carbonates. Au .03 g/t As .01% Fe 2.77%

#### dece 13

From the old LCP travel SW along the old logging road for 300 metres. Possibly a rhyolite?, felsic intrusive? argillic alteration, heavy bleaching. Carbonates, Fe and Mg staining. Pyrite, pyrrotitte. Au .02 g/t Sb .01% As .01% Fe 1.66%

pg. 11

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dece 14 From the old LCP travel SW along the old logging road for 200 metres. Possibly a rhyolite?, felsic intrusive? argillic alteration mild. Carbonates, pyrite. Acid turned it green. Au .02 g/t Sb .01% As .03% Fe 2.03% dece 15 From the old LCP travel SW along the old logging road for 100 metres. Possibly a rhyolite?, felsic intrusive? pink intrusive? argillic alteration mild. Carbonates, pyrite. coarse banding of pyrite, some minor sericite along fractures. Au .02 g/t Sb .01% As .03% Fe 2.03% dece 16 From the old LCP travel NNE along the old logging road for 50 metres. Altered rock, fractures filled with Qtz.-carbonate, siderite rich clasts. Weathered. Au .02 g/t Fe 2.12% dece 17 From the old LCP travel NNE along the old logging road for 150 metres. Chloritized hornblende porphory, moderate propolitic alteration, feldspars to clay. Pyrite, pyrrotitte, carbonates. Similiar to #12 Au .02 g/t As .01% Fe 2.05% dece 18 I.D. post 2W0S, 150 metres West, 50 metres south. Along fire guard at the top edge of slash beneath the brow of the hill where there is visible outcrop, at 4200 ft elev. UTM 520.5 = -652 N, near the NW corner of the logging sale, within 50 metres of dece 08 + 09. A couple of inches of qtz. was showing in the road cut, by digging with the hammer a 1 metre wide qtz vein was exposed. strike 320' dip 45'. Bull qtz, very little limonite. Au .02 g/t dece 19 Approx. 50 metres north of I.D. post 1WOS Altered, bleached, porphory? containing rose gtz. and pyrite. Au .02 g/t Fe 1.78% dece 20 Approx. 200 metres west of I.D. post 1WOS. Numerous small stringers of qtz. occur along the base of the outcrop usually with hemitite. Sample is of one of these, in the green volcanic. Au .02 g/t As .01% Fe 2.13%

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## INTERPRETATION and CONCLUSIONS

Past geophysical work indicates two anomalous zones running on a NW trend, through the centre of the Dece claim, and in the NE corner.

Past geochemical data show anomalous zones that correspond to the geophysic zones. The geochem is weak and spotty but this is normal with the general responses expected in the Dome Mtn camp.

The 89 prospecting described a strong contact zone that occurs around 3WOS. Overburden limited the details of the contact but we see to the east 200 metres a substantial zone of quartz veining that apparently had not been previously noted. A drill hole site (probable) is located 30 metres to the east of the qtz. zone and was drilled to the north, which would have missed. The purpose of the drill hole was to explore the geophysic anomaly.

This qtz. zone warrants further investigation. Although analysis of the qtz. did not show remarkable anomalies, it is notable that hemitite and minor amounts of tetrahedrite are visible in the system. Further downhill strong anomalies occur in the 86 soil survey, Cu 80ppm, Ag 2.6ppm, Pb 403ppm, As 689ppm, Au 85ppb.

East of the qtz. zone there are propylitic and argillic alteration zones that extend for over 1 km in a feldspar and or hornblende porphory, which indicate the strength of the system.

Near the second geophysical anomaly also trending NW there is rose qtz. with pyrite in the altered porphory.

Both geophysical anomalies have a deviation in there trend towards the E-W along the outflow creek of Deception Lk. Past DDH's intersect pyrite zones of 4% and brecciated rock with a fine grained black mineral and pyrite on the rims and along fractures of the breccia fragments. Minor fractures also contain sericite with qtz. carbonate stringers with occasional pockets of vuggy kaolin.

A large geophysical anomaly exists in the southeast corner of the claim block and is supported by geochem. However this area was not investigated in the 89 season. Au is present throughout the system as indicated by all the rocks sampled in 89 carrying between .02 and .04 g/t.

The main geochem high from the 86 soil survey was investigated. Due to overburden and the time restrictions the area was not manually trenched. A soil sample was taken and this verified the previous anomaly of Au, Ag, Pb.

It appears the porphory has undergone successive stages of activity. The underlying breccia fragments suggest proximity to a volcanic source and overlying this is a porphory that was altered after deposition. The qtz. veins are either a co-event with the alteration or a latter stage. The alteration package is mineralized with 2-4% pyrite and qtz. carbonate , sericite, chlorite.

Although minimal economic mineralization occurs at surface, there is sufficient evidence to state that the event carries mineral and the potential for substantial deposition is supported by the structural faulting and shearing as well as the junction of regional faults ie. 340' and 070' that occur in the central portion of the claim.

#### RECOMMENDATIONS

The property requires a tighter soil grid pattern especially over previously known anomalous zones. These anomalies should be followed up with mini grids, similar to the approach used by Noranda on Dome. Five stations that are significant anomalies should receive this attention, perhaps 15 - 20 soils on the mini grid per station. At least eight other scattered anomalies Cu, Ag occur which may warrant the same attention.

A complete Geological mapping program is advised

A detailed prospect of 10 days duration is strongly suggested as it is possible to poke about in the moss around the qtz. zone, and necessary to locate the As veins (previous unrecorded find.). The area in the SE corner of the claim has been ignored by all previous parties, there is a geophysical high with geochemical support in this area.

Some backhoe trenching is required to expose the qtz zone, 50-100 metres along the fire guard should suffice, and a second trench above the strongest geochem anomaly to expose bedrock if possible.

With the currently accumulated data, it is possible to initiate a drilling program in the coming season.

## AUTHOUR'S STATEMENT

I, Daniel Ethier am a Prospector , with residence at 3644 3rd ave., Box 184, Smithers B.C. VOJ-2NO.

I have worked in exploration activities since 1979.

I have been an independent prospector since 1983.

I have worked as a prospector for Tom Richard's Prospecting, 1986 -1988.

I am a graduate of the Advanced Prospecting Course of / Malaspina College 1987.

I am a graduate of the Petrology for Prospectors, 1990 Smithers, B.C. Instructor T.A. Richards

I am sole owner and operator of Ethier Exploration.

## STATEMENT OF COSTS

August 7, 8, 9 1989 600.00 Ethier prospector, 3 days @ \$200./day D. R. Keefe prospector, 3 days @ \$200./day 600.00 Camp, supplies, 3 days @ 60./day 180.00 Groceries 126.00 6 man days @ 21./day 3/4 ton 4X4 truck 3 days @ \$75./day 225.00 3 days @ \$35./day 105.00 A.T.V. 150.00 Fuel 440.00 Geochemical analysis 22 samples 200.00 Report preparation, typing 200.00 Drafting \_\_\_\_\_ 2826.00 P.A.C. account 30% 847.80 of D. Ethier -----3673.80

TOTAL APPLICABLE TO ASSESSMENT REPORT

for 3 years \$ 3600.00

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GEOCHEMICAL ANALYSIS

# SOILS

Sample	AU	AG	AS	CU	PB	SB	ZN
	ppb	ppm	ppm	ppm	ppm	ppm	ppm
1	85	1.3	60	30	259	5.0	161
2	10	0.9	60	95	25	1.4	222

а/с <u>150-089</u> Dept<u>Geology</u> DIST:

## EQUITY SILVER MINES LIMITED

# ASSAY CERTIFICATE

	Attention: Mine Manager Mill Supt Pit Supt Plant Supt Adm Supt	— Mill — Researc	h Met				DA	te <u><i>No</i></u>	<u>ov. 151</u>	189
	SAMPLE	Cu	Agʻ	Au	Sb	As	Fe	Pb	Zn	ţ
		%	g/t	g/t	%	%	. %	%	%	%
1	Dece# 01	Tr	1	.03	ND	N'D	4.25	Tr	.01	
2.	02		ND	.02	ND	ND	.16	ND	ND	
3	03			.03	ND	ND	1.22	Tr	Tr	
4	04			,04	Tr	Tr	4.0.4	ND	.01	
5	05			.03	ND	Tr	.67	ND	ND	
6	06			.02	ND	Tr	1.44	Tr	Tr	
7	07			.03	ND	Tr	,78	Tr	ND	
8	08			.03	ND	ND	.88	Tr	ND	
9	09	.01		.03	ND	ND	.79	Tr	Tr	
10	10	Tr		.02	ND	Tr	.45	ND	ND	
11	11			.02	ND	ND	2.67	Tr	Tr	
12	12			.03	ND	.01	2.77	Tr	Tr	
13	13			.02	.01	,01	1.66	ND	Tr	
14	14			.02	.01	.03	2.03	Tr	Tr	
15	15		_	.02	ND	.01	1.72	ND	Tr	
16	16			.02	ND	ND	2.12	Tr	Tr	
17	17			.02	ND	.01	2.05	Tr	Tr	
18	18			.02	ND	ND	.46	Tr	ND	
19	. 19			.02	ND	ND	1.78	Tr	Tr	
20	20			.02	Tr	,01	2.13	Tr	ND	
21										
22										
23										
24										

ND - Not Detected

Tr - < .01 %

Àg

Tr - < 1.0 gm/TONNE

Form No. C - 200/80 - Revised - 2

Signed

