

DONNA AND PAULA CLAIMS

Omineca Mining Division  
British Columbia

PRELIMINARY GEOLOGICAL REPORT

for

SKYROCKET EXPLORATION & RESOURCES INC.

by

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18 March 1985

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## SUMMARY

The Donna and Paula mineral claims are situated at the southeastern end of Goosly Lake, about 5 km southwest of the Equity silver mine, near the possible resurgent centre of the Buck Creek caldera. The area is underlain mainly by Cretaceous and Tertiary volcanic rocks with a few granitoid to gabbroic intrusions.

Recent drilling on the adjacent Sam claim has revealed highly altered and extensively pyritized volcanic and intrusive rocks that may extend under Goosly Lake and onto the Donna and Paula claims.

A preliminary exploration program on the Donna claim, comprising mainly VLF-EM and magnetometer surveys followed by percussion drilling, is expected to cost \$18,000.00.

## INTRODUCTION

There has been continuous exploration interest in the Goosly Lake area since the mineralization that led to the Equity mine was discovered by Kennco Explorations (Western) Ltd. in 1967, in their follow-up of a 1961 copper and zinc anomaly augmented by subsequent fluorine analysis (Ney, et al., 1972).

In the late 1960's and early 1970's the area now occupied by the Donna and Paula claims was part of a large block of claims controlled by Silver Standard Mines Ltd. (e.g. Burmeister, 1970), who appear to have concentrated their efforts to the east and northeast of the present claims.

I visited the Donna claim, but not the Paula claim, on 4 October 1984.

### LOCATION AND ACCESS

The Donna and Paula claims are situated on and directly south of the southeastern end of Goosly Lake. The claims are centred at about  $54^{\circ}10' N$  latitude and  $126^{\circ}20' W$  longitude (Map 93L/1W), approximately 33 km southeast of Houston, B.C. Houston is served by a paved highway, railway (CNR), natural gas pipeline and a main electricity transmission system (500 kV). The Equity silver mine is 5 km northeast of the claims.

Good summer access to the claims is provided by the Buck Creek road and by an extension of the Equity mine road. The roads leading to the claims are not maintained in winter at present.

The claims are generally free of snow from late May until late October.

### PHYSIOGRAPHY

The claims extend from Goosly Lake at about 885 m elevation above sea level to 1 423 m elevation at the top of the hill that occupies most of the Paula claim. The hill is steep in places and there are local outcrops. However, no outcrops are known on the Donna claim. The claims are generally covered by till which supports a heavy growth of spruce and lodgepole pine. There are several small swampy areas and the two northern units of the Donna claim extend over Goosly Lake. Local areas of both the Donna and Paula claims have been logged.

Goosly Lake and Buck Creek carry sufficient water for exploration and mining purposes. A potential source of gravel was noted immediately west of the Donna claim.

### CLAIMS AND OWNERSHIP

The Donna claim has 4 units, record number 6079, and expires on 2 March 1986. The Paula claim comprises 20 units, record number 6077, and expires on 2 March 1986. The claims apparently overlap 4 pre-existing 2-post claims to the east by about 200 m.

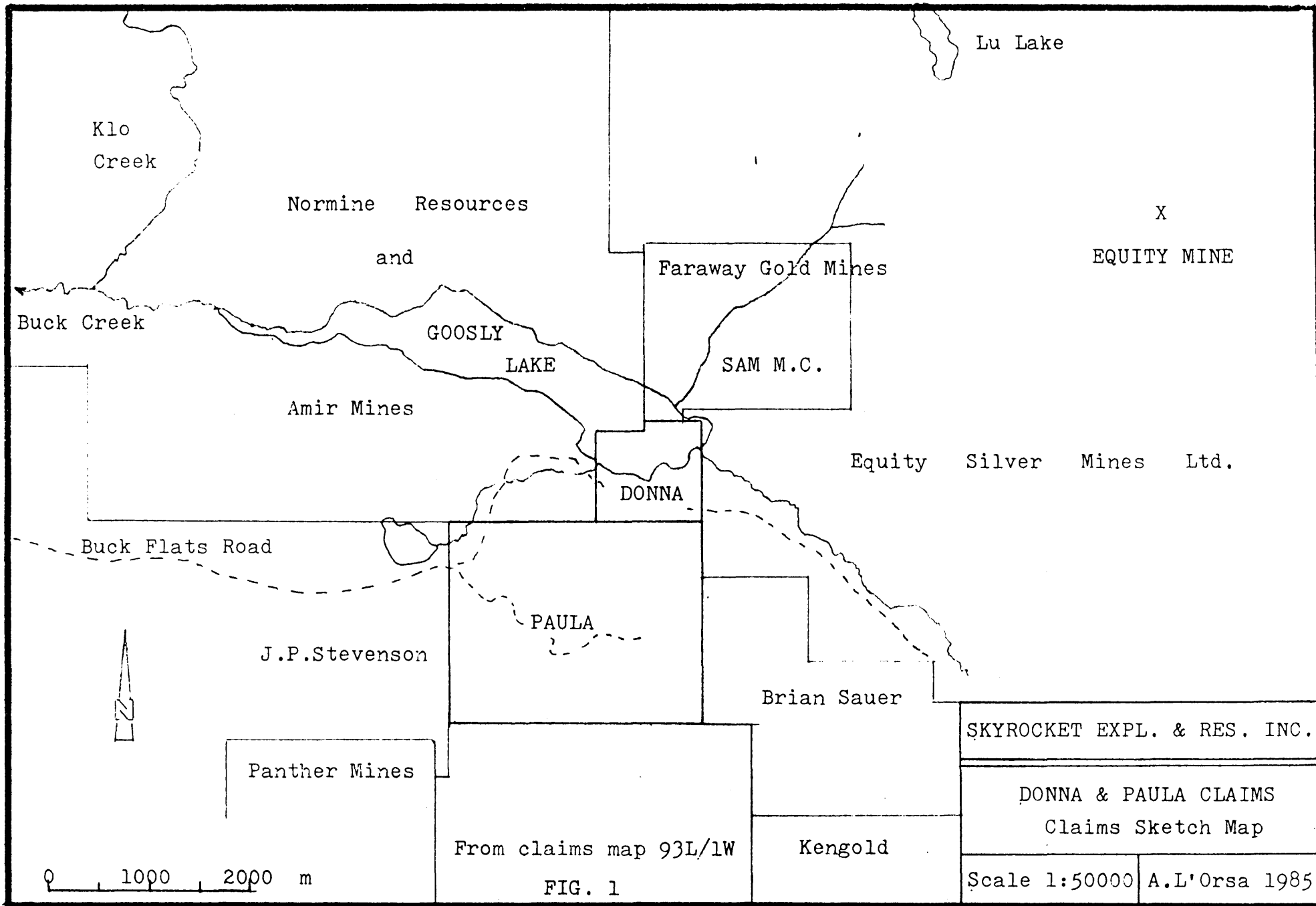
The claims are owned by Mr. Brian Sauer, 4604 Strathcona Road, North Vancouver, B.C., V7G 1G3, subject to an option agreement with Skyrocket Exploration & Resources Inc., 1 - 3630 West Broadway, Vancouver, B.C., V6R 2B7.

### GEOLOGICAL SETTING

The Goosly Lake area lies on the Skeena Arch, about 95 km northeast of the Coast Plutonic Complex. The area is generally underlain by andesites and dacites of Upper Cretaceous and Tertiary age, assigned to the Ootsa Lake and Endako Groups. In the vicinity of the Equity mine, Lower Cretaceous volcanic and sedimentary rocks of the Skeena Group are exposed (Tipper, 1976) and it is in these rocks that the mine was found.

Intrusions exposed in the general area are mainly Eocene volcanic necks, sills and dykes of gabbroic or "syenomonzonite" composition. A quartz monzonite of Paleocene age outcrops near the Equity mine and several Upper Cretaceous granitoid stocks outcrop near and north of the Silver Queen mine at Owen Lake (Church, 1985; Tipper, 1976; Wojdak and Sinclair, 1984).

Church (1985) postulates that the area is underlain by a resurgent caldera (Buck Creek caldera) with a diameter of very approximately 50 km. He further postulates a radial fracture extending from the centre of resurgence near the Equity mine, through two gabbroic feeder plugs, to the Silver Queen mine at



Owen Lake. This fracture passes about 2 km south of the Equity mine and through the central part of the Paula claim.

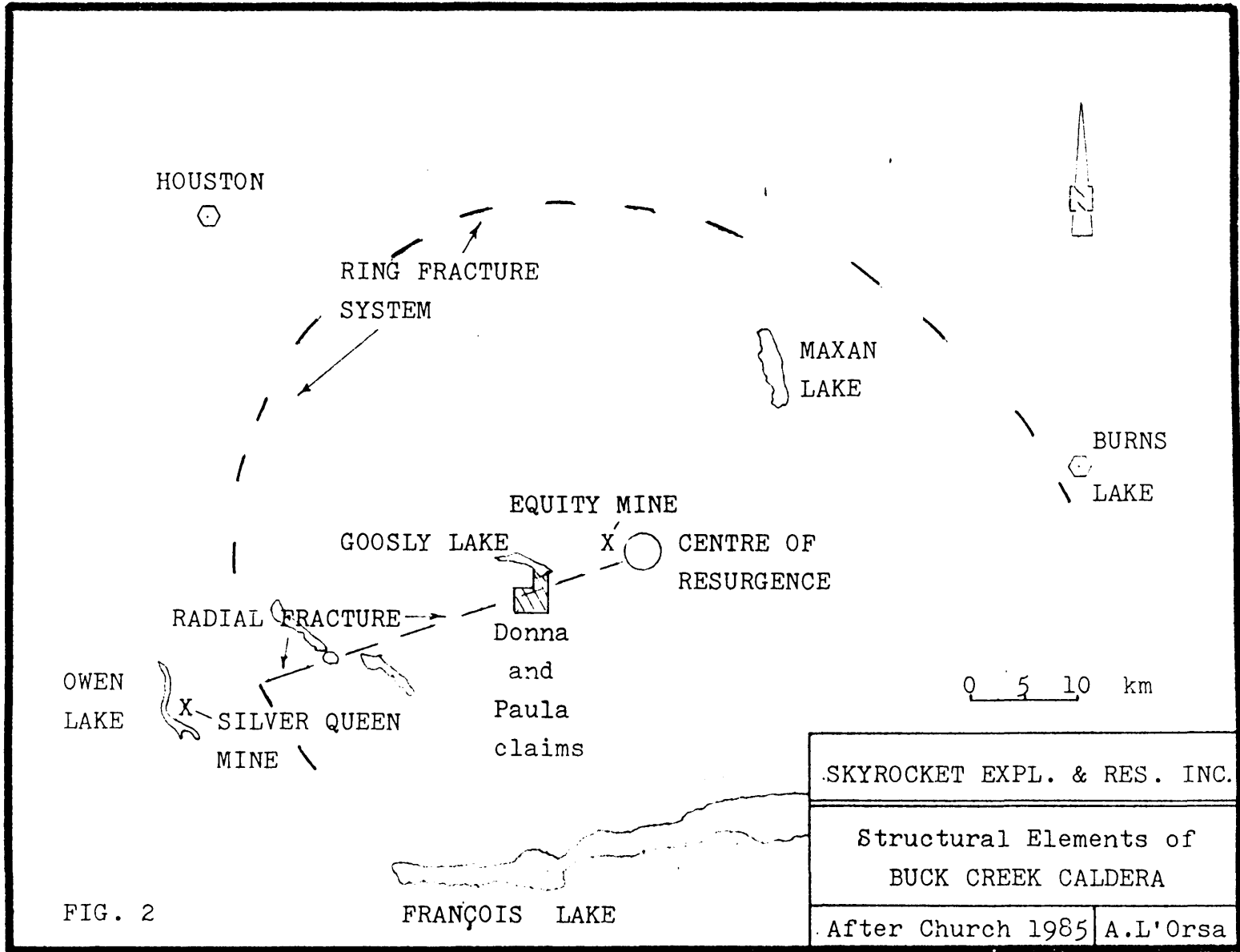
One of the world's major silver producers, the Equity mine operated by Equity Silver Mines Ltd., lies approximately 5 km northeast of the Donna claim. Ore reserves in 1979 were reported to comprise about 28,000,000 metric tons grading 106.3 g/mt (3.4 oz/st) Ag, 0.96 g/mt (0.03 oz/st) Au and 0.384% Cu. Production in early 1984 was at the rate of about 5,500 mt/day (Wojdak and Sinclair, 1984).

#### GEOLOGY OF CLAIMS

The Donna claim is covered by Quaternary alluvium and by Goosly Lake. However, the Tip Top Hill volcanic unit of the Ootsa Lake Group is shown by Tipper (1976) outcropping immediately west of the claim. Recent drilling on the Sam claim, which lies immediately north and northeast of the Donna claim, has revealed highly altered and extensively pyritized volcanic and intrusive rocks beneath a moderate thickness of overburden or Tertiary volcanic rocks (A. L'Orsa, 1984, drill logs for Faraway Gold Mines Ltd.).

The Paula claim covers part of a large hill south of the Donna claim. The rocks here are trachytes assigned to the Goosly Lake volcanic unit of the Ootsa Lake Group. These rocks strike approximately north and dip about  $4^{\circ}$  west. In the extreme southern sector of the Paula claim, the trachytes are overlain by the more mafic volcanic rocks of the Endako Group (Tipper, 1976).

There is no known mineralization on the Donna and Paula claims.





## CONCLUSIONS

The occurrence of highly altered and pyritized rocks on the adjacent Sam claim indicates that the claims have potential for the occurrence of Equity mine type mineralization.

The radial fracture postulated by Church (1985) passes through the Paula claim. Intracaldera faults in a mineralized caldera setting can be of great economic significance (e.g. Creede mine; Steven and Eaton, 1975). This idea should be investigated on the claims, using Church's model as a guide.

The thickness of Eocene volcanic rocks on much of the Paula claim may preclude any effective surface exploration.

## RECOMMENDATIONS

1. Work should be concentrated on the Donna claim to test the possibility that mineralized rocks encountered on the Sam claim extend under and south of Goosly Lake.
2. VLF-EM and magnetometer surveys should be carried out.
3. A percussion drill, presently working on the Sam claim, should be brought in to test selected geophysical anomalies. Samples from mineralized zones should be analysed for Ag, As, Cu, Pb, Zn and W, and selected samples should be analysed for Au. In addition, while drilling anomalies, soil samples should be collected for analyses from the base of the overburden and from immediately below the Tertiary volcanic rocks if possible.
4. Further recommendations will depend in large part upon the results of the above program.

REFERENCES

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- Wojdak, P.J., and Sinclair, A.J., 1984, Equity Silver silver-copper-gold deposit: Alteration and fluid inclusion studies: Econ. Geol., v. 79, no. 5, p. 969-990.

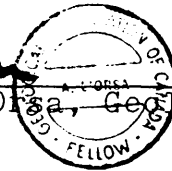
A. L'Orsa  
Anthony L'Orsa, Geologist

A circular professional seal for a geologist. The outer ring contains the text "PROFESSIONAL GEOLOGIST" at the top and "1923 - FELLOW" at the bottom. The center of the seal features a stylized globe or similar emblem.

COST ESTIMATE

1. VLF-EM and magnetometer surveys: 5 km @ \$150/km	\$ 750.00
2. Percussion drilling: 1,600 ft. @ \$8.50/ft. (approx. 487.68 m @ \$27.89/m)	13,600.00
3. Rock geochemical analyses and assaying:	
DCP analyses of 30 samples, incl. prep.	375.00
Selected samples for Au assay, 10 @ \$7.00	70.00
4. Camp: 2 men for 5 days	500.00
5. Supervision and drill logging:	1,500.00
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	\$16,795.00
Contingencies:	1,205.00
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TOTAL:	<u><u>\$18,000.00</u></u>

*A. L'Orsa*  
Anthony L'Orsa, Geologist



CERTIFICATE

I, Anthony T. L'Orsa, of Smithers, British Columbia, hereby certify that:

1. I am a consulting geologist with business address at Box 23, R.R. 2, Adams Road, Smithers, B.C., VOJ 2N0.
2. I am a graduate of Tulane University, New Orleans, La., U.S.A. with the degrees of B.Sc. (1961) and M.Sc. (1964) in geology.
3. I have practised my profession in mineral exploration since 1962 in western Canada, Australia and Mexico.
4. I am a Fellow in good standing of the Geological Association of Canada and a member of the Society for Geology Applied to Mineral Deposits.
5. I visited the Donna claim on 4 October 1984.
6. I have no interest, direct or indirect, in the properties or securities of Skyrocket Exploration & Resources Inc. or their affiliates, nor do I expect to receive any such interest.
7. I consent to the review of this report by other geologists or engineers for the Vancouver Stock Exchange or Superintendent of Brokers.
8. I consent to the use of this report or summary thereof by Skyrocket Exploration & Resources Inc. in a statement of material facts or for whatever purpose they deem necessary.



Anthony L'Orsa, Geologist