

**Serengeti Resources Inc.**

**GEOCHEMICAL REPORT ON THE BLOOM PROPERTY  
2004**

Located in the Johanson Lake Area  
Omenica Mining Division  
NTS 94C/05  
56 degrees and 29 minutes North Latitude  
125 degrees and 58 minutes West Longitude

- prepared for -

**SERENGETI RESOURCES INC.**  
Suite 450, 800 West Pender Street  
Vancouver, B.C., Canada  
V6C 2V6



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## **SUMMARY**

The Bloom property covers 850 hectares in mountainous terrain in north-central British Columbia, approximately 240 kilometers northwest of Fort St. James. Access to the property is currently by helicopter with the nearest road in the Kliyul Creek valley in the southern part of the property. .

The property is located in the Quesnel Trough which hosts numerous alkalic porphyry copper-gold mines and deposits from southern to northern B.C., in dioritic and monzonitic plugs and stocks. The main ones in the area of the property are the Kemess mine and the Lorraine and Mt.Milligan deposits.

In 2004, Serengeti Resources carried out a program of rock and soil sampling. This work confirmed the previous sampling results by Teck Explorations Ltd. with the anomalous copper and gold values associated with a zone of propylititized diorite that is at least 1.8km by 1.6km.

## **1.0 INTRODUCTION**

The Bloom property was originally acquired in April 2004 to cover copper-gold soil and rock anomalies, reported by Teck Corporation in Bloom cirque, that have excellent potential for alkalic porphyry copper-gold deposits. In 2005 the property was greatly expanded by the acquisition of Northgate's adjacent property and by staking. The present assessment report covers just the property acquired last year.

## **2.0 LOCATION AND ACCESS**

The Bloom property is situated in the Omenica Mining Division just south of Johanson Lake, approximately 240 kilometers northwest of Fort St. James(Plate 1). It is located on NTS map sheet 94C/5, at latitude 56 degrees 29 minutes North and longitude 125 degrees and 58 minutes West and between UTM 316000mE and 320000mE and 6261000mN and 6263000mN(NAD 83, Zone 10).

Access to the property is by helicopter or from an active logging road in the southern part of the property. The property is in mountainous terrain with moderate to steep slopes rising from about 1,500m to 2,300m. It is alpine country above 1,600m with pine forests below.

## **3.0 PROPERTY TITLE**

The Bloom property consists of five contiguous mineral claims (850 hectares, Plate 2) which are owned by Serengeti Resources Inc.:

Claim name	Record Number	Cell Claim #	Hectares	Record Date
Bloom 1	409869	514421	450	April 20, 2004
Bloom 2	409870	514418	200	April 20, 2004
Bloom 2	414790	514420	125	April 20, 2004
Bloom 3	414791	514417	25	Oct. 19, 2004
Bloom 4	414792	514417	50	Oct. 19, 2004

## PROPERTY EXPLORATION HISTORY

### 4.1 Previous Work

The earliest recorded work was in 1937 on the Croydon property owned by Consolidated Mining and Smelting Ltd. They explored copper-gold quartz veins on Croydon Creek with underground drifting and identified 100m long vein running 3 percent copper and 10g/t gold. Work was halted when the camp was destroyed in a forest fire.

Subsequent investigations (geophysical surveys, trenching and diamond drilling) by Consolidated Mining and Smelting Ltd., Bralorne, Noranda, Canex and Rio Tinto, in the 1950's and 1960's, failed to delineate economic mineralization in the area surrounding the Croydon mine.

In 1946 to 1948 numerous gold and base metal showings to the west of the Croydon mine were discovered. Subsequent investigations on the Shell prospect outlined 80,000 tons of three percent copper and 5.5g/t gold in chalcopyrite-pyrite-pyrrhotite veins. In 1988 and 1996 Pacific Rim drilled a number of holes in this prospect.

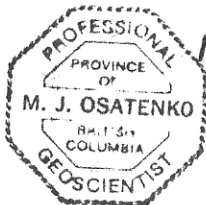
The Soup skarn, southwest of the Shell prospect, was staked in 1964. Vital Pacific drill seven short holes in 1989 with the best intersection 0.17 percent Cu and 49.0g/tAu/3.2m.

United Miniere ExplorationsLtd.(UMEX)staked the Raven claims in 1970 to cover a strong copper stream sediment anomaly. Follow up soil sampling delineated a 1,200m by 750m copper soil anomaly. Drilling(about 300m)encountered only minor chalcopyrite mineralization.

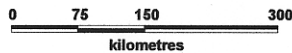
In 1973, Stellac Explorations staked the Sarah claims, south of the Raven claims. Prospecting discovered widespread chalcopyrite and pyrite mineralization as disseminations and in fractures. No further work was apparently done.

Molybdenum potential in the Davie Creek stock was first recognized by Rio Tinto in 1964. Drilling from 1979 to 1982 by Teck Exploration Ltd. and Chevron followed later by Teck and Getty intersected widespread low grade Mo mineralization with two better grade holes(81-4, 0.073%Mo/203m and 82-6, 0.052%Mo/195m). These encouraging results were not followed up.

In 1990 Teck Explorations Ltd. acquired a large property and in 1990 and 1991 did extensive geological mapping, soil and rock sampling and 89km of IP on two targets



*MO*  
*Sept. 2, 2005*

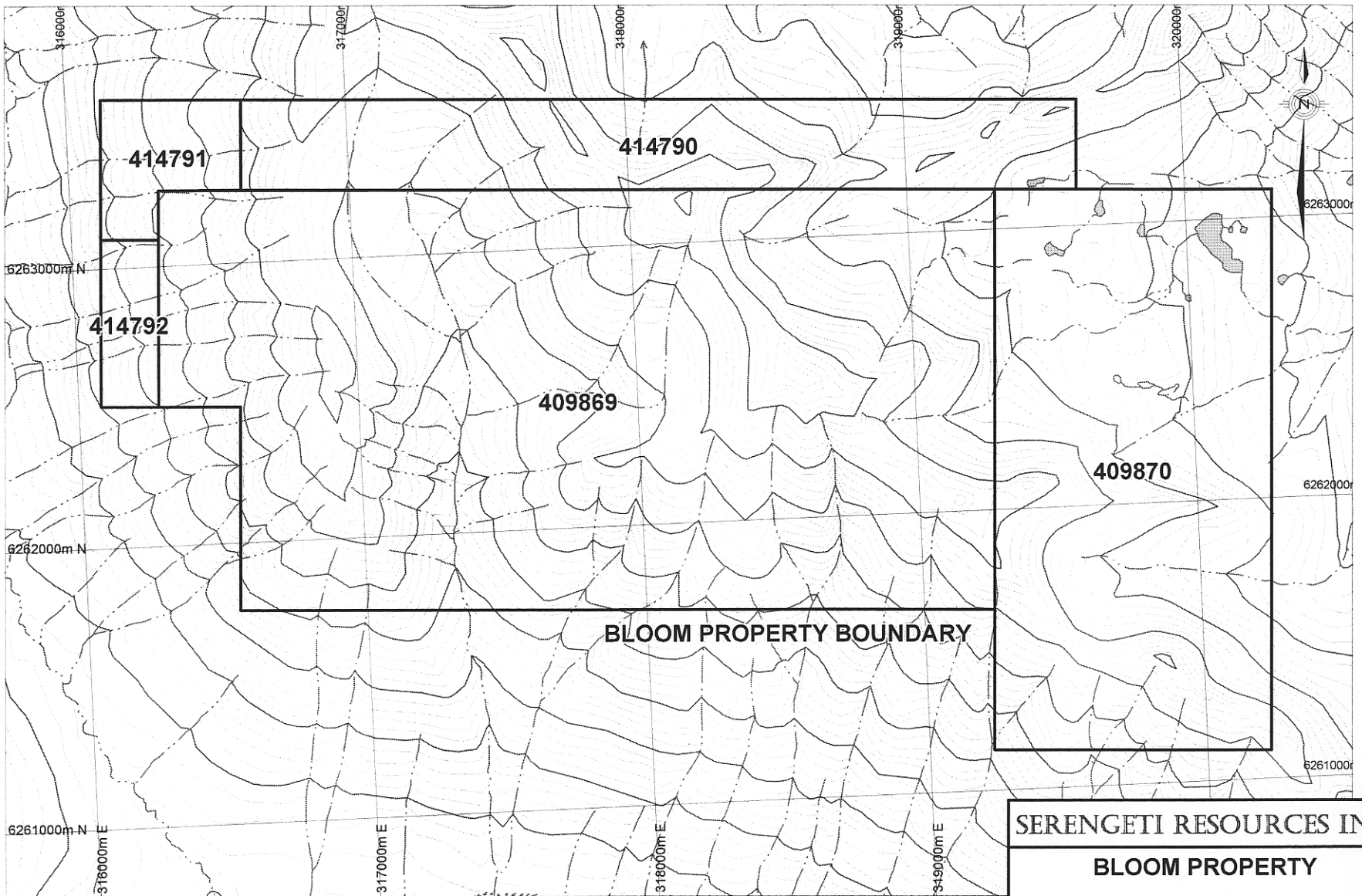


SERENGETI RESOURCES INC.

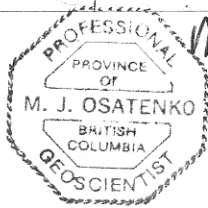
**BLOOM PROPERTY**

**LOCATION MAP**

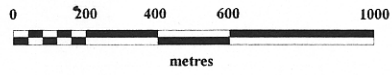
Date	Aug 30, 2005	Scale	1:8000,000	Plate	<b>1</b>
Projection	UTM Zone 10 - NAD83	State/Province	BC		
Author	MO	File	Aeromag		



BLOOM PROPERTY BOUNDARY



*MJO*  
sept. 2, 2005



SERENGETI RESOURCES INC.

BLOOM PROPERTY

CLAIM MAP

Date	Aug 30, 2005	Scale	1:20,000
Projection	UTM Zone 10 - NAD83	State/Province	BC
Author	MO	File	Aeromag



exploring for alkalic porphyry copper-gold potential [Grextton, L. and Roberts, P.(1991) and Toohey, J.R., Cartwright, P. and Hoffman, S.J.(1992)]. Drilling consisted of three holes(450m)on the Raven target. Two of these holes encountered weak copper and gold mineralization with the best hole 0.04%Cu and 0.004g/tAu/150m. Large copper/gold soil and rock anomalies, mainly in Bloom cirque, were not IP surveyed or drilled. Neither was a large, covered target that show coincident IP and copper/gold soil anomalies just to the west of Bloom cirque and a covered IP anomaly in the vicinity of the Croydon Creek vein.

#### **4.2 2004 Exploration Program**

A program of rock and soil sampling was carried out on the Bloom property on October 2, 2004 to substantiate copper and gold rock and soil anomaly reported by the Teck Corporation in Bloom cirque. This program was based from the Bergie Camp at the north end of Johanson Lake and helicopter supported. A total of three rock and two soil samples were collected. In addition, geological observations were made in the eastern part of the property.

#### **5.0 REGIONAL GEOLOGY**

The Bloom property lies in the 1,300km long by 35km wide Quesnel Trough which hosts numerous alkalic porphyry copper-gold deposits from southern to northern B.C. In the area of the property the Kemess Mine is located 90km to the northwest while the Lorraine and Mt. Milligan deposits are found 50km and 180km to the southeast respectively. To the west, deformed and uplifted Permian Cache Creek Group rocks are separated from Quesnel Trough by the Pinchi fault. To the east, the Manson fault zone separates this belt from the uplifted Proterozoic/early Paleozoic Wolverine metamorphic complex and the Mississippian–Permian Slide Mountain and Cache Creek Groups.

In the Johanson Lake area the Takla Group sequence(Quesnel Trough)is dominated by alkalic to subalkalic dark green tuffs, andesitic to basaltic volcanic breccias and flows of similar composition. These volcanic rocks are intruded by syenite, monzonite, monzodiorite and diorite plug and stocks, which are associated with the porphyry copper-gold mineralization, and are coeval with the volcanic rocks.

#### **6.0 PROPERTY GEOLOGY**

The geology of the Bloom property is from the geological mapping of Teck Exploration Ltd. and consists of a fine grained diorite plugs and stocks cutting Takla Group andesite. These diorites and andesites, in the Bloom cirque area, are moderately propylitized and show widespread malachite and chalcopyrite mineralization over an area at least 1.8km by 1.6km that is coincident with a strong copper and gold soil anomaly. 151 rock samples, from this area, average 2,900ppm Cu and 270ppbAu. No IP surveys or drilling have been done.

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## 7.0 GEOCHEMISTRY

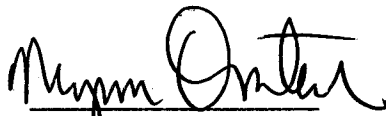
The analytical results for copper and gold in stream sediment and rock samples taken are shown in Plate 3 with the results in Appendix 2. All samples were analyzed in Teck Cominco's Global Discovery Labs in Vancouver. Rock descriptions are in Appendix 2.

Rocks from Bloom cirque are fine grained diorites that show moderate to strong propylitic alteration, mainly pale green chlorite and epidote, with the best rock sample 1,909ppm copper and less than 10ppb gold in a grab sample. Two talus samples, each 10m composites, run 1,673ppmCu/80ppbAu and 3,216ppmCu/192ppbAu. These samples are more representative of the copper and gold grades than the grab rock samples. In addition to anomalous copper and gold values the soils are anomalous in Zn, Pb, Ag, Mo and Co.

## 8.0 CONCLUSIONS

The Bloom property lies in part of the Quesnel Trough that hosts the alkalic porphyry copper-gold Kemess mine and two significant porphyry copper-gold deposits at Lorraine and Mt. Milligan. Serengeti's rock and soil sampling confirms the anomalous copper and gold values reported by Teck Exploration Ltd. with these anomalies associated with moderate to strongly propylitized diorites containing widespread malachite and chalcopryite, mainly along fractures. The rock types, type of alteration and the presence of anomalous zinc values suggest that the mineralization seen at Bloom cirque is adjacent or on top of potentially significant mineralization. As the Bloom property has received only early stage exploration an IP survey is recommended.

Respectfully submitted,



Myron Osatenko, P. Geo.  
Serengeti Resources Inc.

Vancouver, British Columbia  
August, 2005



## **APPENDIX 1 BIBLIOGRAPHY**

- (1) Grexton, L. and Roberts, P. (1991): Geological and Geochemical Report on the Porphyry Creek property; Assessment Report 21,521.
- (2) Toohey, J.R., Cartwright, P. and Hoffman, S.J.(1992): Geochemical, Geophysical and Diamond Drilling Porphyry Creek property; Assessment Report 22,083.

## APPENDIX 2

### ROCK AND SOIL GEOCHEMICAL RESULTS FOR THE BLOOM PROPERTY

#### Rock Geochemistry

Lab No	Field No.	Au ppb	Wt Au gram	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm
R0431490	OR-24	<10	5	1909	4	67	<.4	<2	34	<1	157	98	3.97	<2	41	<5
R0431499	MR04-44	<10	5	245	4	310	<.4	<2	253	1	21	55	3.42	<2	137	<5
R0431500	MR04-45	<10	5	32	8	64	<.4	<2	45	1	26	39	6.25	<2	77	<5

Lab No	Field No.	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0431490	OR-24	<5	125	<2	6	37	6	<2	769	1.76	0.16	1.73	2.24	0.07	0.11	675
R0431499	MR04-44	<5	93	<2	<2	44	5	<2	1088	1.77	0.13	1.50	2.33	0.07	0.11	662
R0431500	MR04-45	<5	97	<2	6	78	7	<2	1429	3.35	<.01	1.60	7.25	0.05	0.11	635

#### Soil Geochemistry

Lab No	Field No.	Au ppb	Wt Au gram	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm
S0411220	OSS-22	80	10	1573	70	2458	0.6	5	602	13	75	79	6.94	16	103	<5
S0411221	OSS-23	192	10	3216	216	378	1.9	11	473	2	197	78	8.18	30	12	<5

Lab No	Field No.	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0411220	OSS-22	<5	112	<2	2	23	13	7	7384	1.86	0.02	2.25	0.53	0.02	0.13	1221
S0411221	OSS-23	<5	78	<2	<2	21	16	11	4763	0.92	0.01	1.60	0.52	0.03	0.15	1515

#### ANALYTICAL METHODS:

Au Aqua regia decomposition / solvent extraction / AAS

Wt Au The weight of sample taken to analyse for gold (geochem)

ICP PACKAGE :

0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

## ROCK DESCRIPTIONS


<u>Sample number</u>	<u>Type/Length</u>	<u>Description</u>
OR-24	Grab	Diorite, chloritized, highly fractured with malachite, neotocite
MR04-44	Composite grab(50m)	Fractured, propylitized microdiorite, 1-2% py, tr cpy, mal
MR04-45	Selected grab	Iron carbonate-qtz altered zone, tr py, rare cpy, mal

### **APPENDIX 3 GEOLOGIST'S CERTIFICATE**

I, Myron Osatenko, of 5458 Wildwood Crescent, Delta, B.C., in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am Chief Geologist with Serengeti Resources Inc., a junior mining company.
2. THAT I am a graduate of the University of British Columbia with Bachelor and Master of Science degrees in Honours Geology.
3. THAT I am a Professional Geoscientist registered and good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia(#22,125).
4. THAT this report is based on fieldwork carried out by me on October 1, 2004 and on publicly available reports on the Darby property.

DATED at Delta, British Columbia, this 2 day of September, 2005.

  
Myron Osatenko, P. Geo.

**APPENDIX 4**

**STATEMENT OF EXPENDITURES FOR THE BLOOM PROPERTY  
October 1, 2004**

**PROFESSIONAL FEES AND WAGES**

Myron Osatenko 1.5 days @ \$500/day..... \$750.00  
David Moore 1 day @ \$500/day.....\$500.00

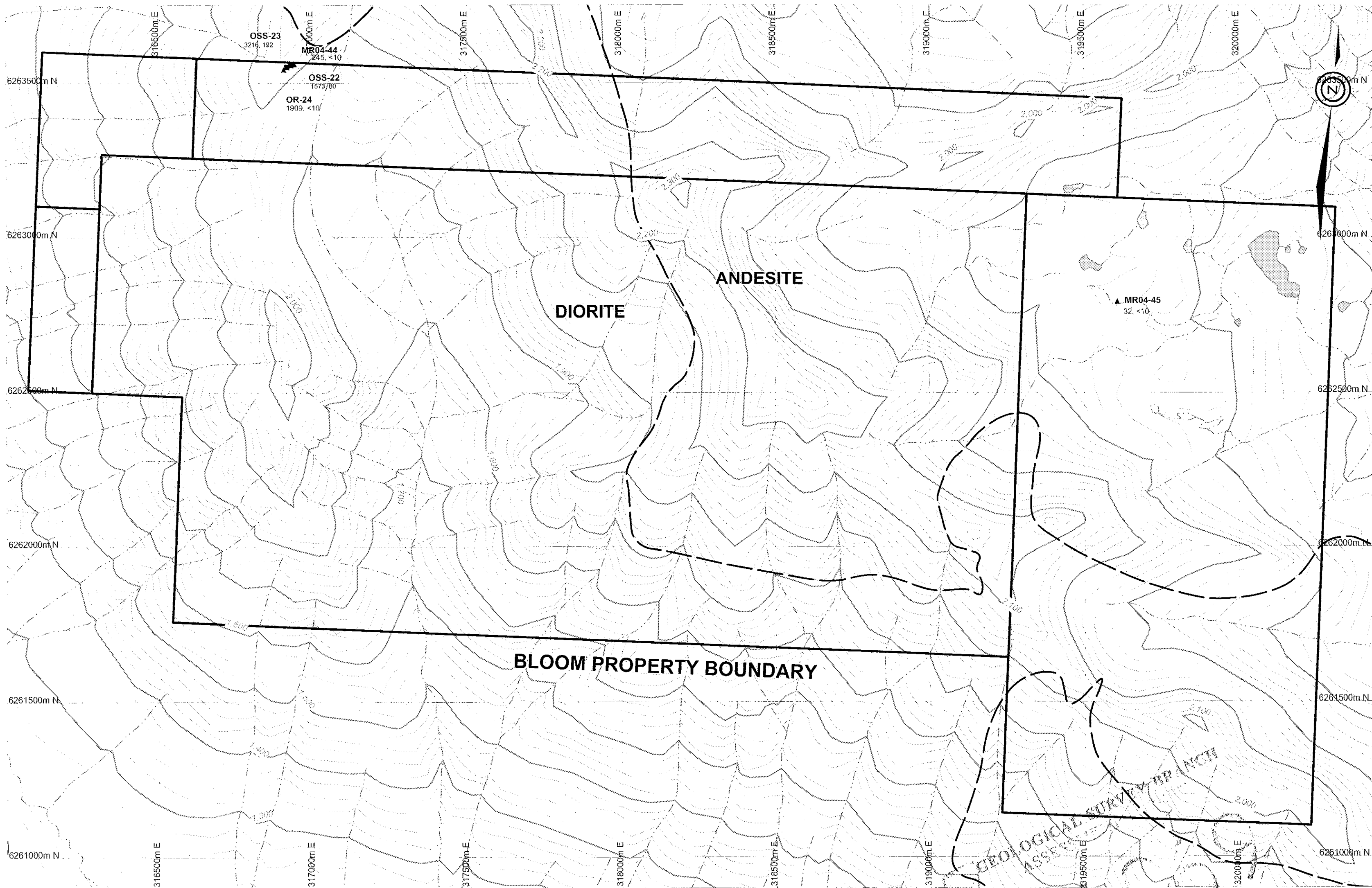
**EQUIPMENT RENTALS**

Helicopter.....384.72

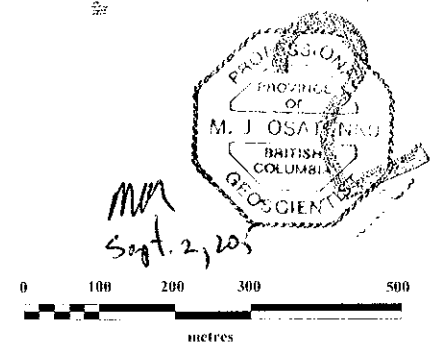
**EXPENSES**

Chemical Analyses-----\$100.00  
Map Production(Terracad)----- \$390.92  
Miscellaneous Expenses(Osatenko)----- \$404.94  
Miscellaneous Expenses(Moore)-----\$151.22  
Room and Board-----\$171.33  
Report-----\$500.00  
**Subtotal** **\$3,353.13**  
Overhead Charge(10%) 335.31

**Total** **\$3,688.44**



LEGEND	
■	stream sediment sample
▲	rock sample
217, <10	Cu (ppm), Au (ppb)



SERENGETI RESOURCES INC.			
<b>BLOOM PROPERTY</b>			
<b>Rock and Soil Geochemistry</b>			
Date	Aug 31, 2005	Scale	1:10,000 Plate
Projection	UTM Zone 10 - NAD83	State/Province	BC
Author	MO	File	ShadowAss