ASSESSMENT REPORT

ON THE

JC PROPERTY

Toodoggone River
British Columbia
NTS:94E/07W
UTM: 94E.036, 94E.037
Latitude: 57°21' Longitude: 126° 48'
Omineca Mining Division

for
Stealth Mining Corporation
Suite 580, Metropolitan Place
10303 Jasper Avenue, Edmonton
Alberta, Canada, T5J 3N6

by
David E. Blann, P.Eng.
Standard Metals Exploration Ltd.
May 1, 2000

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1. SUMMARY

The JC property is located in the Toodoggone gold district, approximately 37 kilometres north of the Kemess South mine, and by road, approximately 400 kilometres north of Mackenzie, British Columbia. Access to the property is by helicopter. The property is comprised of 35 claim units covering an area of approximately 9 square kilometres. Northwest, north and northeast trending regional structures cut andesite-dacite and quartz monzonite of the Toodoggone Formation and Black Lake Suite, respectively.

Rocks underlying the southwest region of the JC property are variably propylitic to argillic altered and contain widespread and locally extensive quartz and quartz-calcite veins, breccia and stock work zones, with variable pyrite, sphalerite, galena mineralization and associated copper, zinc, lead, gold and silver values.

Prospecting in 1999 discovered a 50-100 cm wide, 100-150 metre long quartz-calcite vein, breccia and stock work zone containing significant copper, lead, zinc mineralization and associated gold-silver values. Vein sulphide mineralization contains up to 5.78% lead, 14.93% zinc and 2,226.1 g/t silver, 7.99 g/t gold over approximately 15 cm in width. Locally anomalous arsenic and barium occur. This structure is largely buried beneath talus, and its true size and extent remains open. Nearby, banded purple and white quartz veins and intensely silicified zones also contain elevated silver, gold and barium values. In the creek valley east of this area, clay altered quartz monzonite contains anomalous molybdenum values.

The geology, alteration and mineralization in the southwest corner of the JC property suggests the area is underlain by epithermal style base and precious metal veins proximal to a quartz-monzonite intrusion of transitional porphyry copper-gold affinity.

The JC property contains attractive exploration targets for epithermal gold-silver and transitional porphyry copper-gold deposits. Further prospecting, mapping and sampling followed by grid-based geology, geochemical, and geophysical surveys is warranted.

2. INTRODUCTION

This report describes the 1999 prospecting program on the JC. Fieldwork was carried out between August and September 1999. Work comprised fly-camp prospecting for base and precious metal mineralization in an area with no previously recorded assessment work. A total of 37 rock samples were obtained for analysis.

3. LOCATION / INFRASTRUCTURE

The JC property zone is located near the junction of Jock Creek and the Toodoggone River, approximately 400 kilometres north of Mackenzie, British Columbia by road, and then 25 kilometres northeast by helicopter (Figures 1,2). It is located in the Omineca Mining Division at 57° 21' latitude and 126° 48' longitude on NAD83 mapsheets 94E.036 and 94E.037.

Historically, dominant economic products from the Toodoggone district are gold and silver, and recently copper-gold concentrate.

4. PHYSIOGRAPHY AND CLIMATE

The JC property is located between approximately 1200 metres and 2000 metres elevation. Terrain in the lower elevation is gentle to undulating, and higher elevations in the southwest corner of the property are moderately steep and craggy. The Toodoggone River valley lies to the eastern side of the property and contains remnant glacio-fluvial deposits such as gravel terraces. The ground cover in this area is of predominantly pine forest, with local areas of swamp. Debris comprised of rockslide and talus occurs near the base of steeper ground to the southwest where pine, spruce and sub-alpine to alpine groundcover prevails.

Seasonal temperatures vary from -35° C in winter to over 30°C during the 4 months of summer. The mean daily temperatures for July and January are approximately 14°C and 15 - 20°C below zero, respectively. Precipitation between 50 and 75 centimetres occurs annually.

5. PROPERTY STATUS

The JC property is comprised of 35 claim units covering approximately 875 ha and is held by Stealth Mining Corp. of Edmonton, Alberta, under option from Electrum Resources Inc. of Vancouver, British Columbia (Table 1, Figure 2).

6. HISTORY / PREVIOUS WORK

Kennco Exploration (Western) Ltd. initially performed regional reconnaissance surveys between 1968 and 1973. During this time, airborne magnetometer, induced polarization, geology and geochemical surveys were performed over areas to the south and west of the JC property. The B.C. Government carried out a regional stream silt sampling program with results released in 1997; in this survey, a silt sample returned anomalous gold, silver, copper, lead, zinc, molybdenum, arsenic and mercury prompting the staking of the JC claims.

7. REGIONAL GEOLOGY

The following account of the regional geology is summarized after works of Bailey et al (1991), and Diakow et al (1985, 1993).

The area is underlain by a northwesterly trending belt of sedimentary rocks of the Permian Asitka Group, Upper Triassic Takla Group and Lower to Middle Jurassic Hazelton Group Toodoggone Formation, respectively (Figure 2). The Cretaceous Sustut Group occurs west of the property.

The Asitka Group is comprised of calcareous meta-sediment, siliciclastic and massively bedded limestone rocks of Permian age.

The Takla Group is comprised of massive, dark green, coarse-grained porphyritic augite basalt, and fine-grained aphyric basaltic andesite lava with lapilli tuff and volcanic breccia, and minor amygdaloidal flows.

The Hazelton Group is comprised of undivided and Toodoggone Formation subarial and marine volcanic members divided into lower and upper volcanic cycles. The lower cycle consists of the Adoogachoo, Moyez, Metsantan and McClair members and the upper cycle consists of the Attycelley and Saunders Members. These rocks are predominantly comprised of red and maroon flow, pyroclastic rocks.

The Attycelley Member is 500 metres in thickness, and comprised of a heterogeneous mixture of green, grey and mauve lapilli-ash tuff, subordinate lapilli tuff, with minor ash and lava flows, and epiclastic rocks. These rocks resemble the Adoogachoo Member.

The Saunders Member is composed almost exclusively of welded crystal dacite ash flow and tuff. The lower contact of this Member appears to be in part erosional, with underlying Takla Group conglomerate and tuffite.

Lower to Middle Jurassic Black Lake-Omineca intrusive rocks are comprised of small to medium sized stocks and sub volcanic plutons of granodiorite with localized gabbro, diorite, and quartz-monzonite present. Dikes or sills of quartz latite porphyry, and trachy-andesite to basalt composition cut previous intrusive and volcanic rocks.

Lower to Upper Cretaceous Sustut Group sedimentary rocks are in unconformable contact with Takla and Hazelton Group rocks to the west of the Pine property. Pleistocene glacial till and reworked glaciofluvial deposits cover most of the Toodoggone River valley bottom.

Steeply dipping normal faults and lessor strike slip and thrust faults, cut the Takla Group and Toodoggone Formation. Northeasterly trending high angle faults cut and displace northwest trending structures, tilting and rotating monoclinal strata (after Diakow et al, 1993). Movement along these faults appears coeval with Toodoggone Formation volcanic, subvolcanic and high-level intrusive rocks, with associated hydrothermal alteration and mineralization. Regional metamorphism is sub-greenschist or zeolite facies (Bailey et al, 1991).

Regionally, extensive copper-gold porphyry and epithermal gold-silver mineralization occurs. The Kemess North and South deposit are located 16 and 22 kilometres south of the Pine zone, respectively. The Kemess South deposit is currently mining at a rate of 50,000 tonnes per day from an open pit with a geological reserve of 248 million tonnes grading 0.62 g/t gold and 0.22% copper. The Kemess North deposit is estimated to contain a geological reserve of 175 million tonnes grading 0.37 g/t gold and 0.18% copper (Royal Oak Mines, 1995). The Pine zone, south of the JC property, contains a transitional porphyry gold-copper deposit with potential for 200 million tonnes. West of the JC property, Toodoggone Formation rocks host epithermal gold-silver deposits such as the Lawyers, Al and Shasta, and Takla volcanic rocks host the Baker, all producers. Two distinct time periods are evident for porphyry copper-gold and the epithermal deposits (Diakow, per. comm., April, 2000.).

8. JC PROPERTY GEOLOGY

A plan map of rock sample locations is located in Figure 3, with corresponding rock sample assay summary in Table 2, rock sample descriptions and assay certificates in Appendix 1,2, respectively.

Prospecting and rock sampling on the JC property in 1999 was limited to a cirque in the southwestern corner of the property. In this area, dominantly maroon to chloritic heterolithic dacite-andesite feldspar crystal tuff, flow and minor breccia occur, however one sample of quartz monzonite in float and possible outcrop occurs in the creek drainage east of the cirque. These rocks appear to be of the Toodoggone Formation and Black Lake intrusive suite, respectively.

8.1 Structure

Strong regional structures trend northwest and northeast, and large-scale block tilting or rotation occurred (Diakow, 1993). Airborne magnetic surveys suggest the presence of northwest, northeast and east trending structures; higher magnetic responses occur to the east and south, while a strong low occurs in the northwestern portion of the property (Open File 3495). Fractures, shears, faults, and veins in rocks trend northwest, northeast, north, and dip steeply. Topographic maps display strong lineaments trending north-northwest and northeast. These structures may be related to regional strike-slip and in part transverse normal/reverse faults, respectively.

8.2 Alteration and Associated Mineralization

Andesite-dacite rocks are moderately fractured and weak to moderately chlorite-epidote-calcite altered, with structurally and in part lithology-controlled quartz-sericite-pyrite, quartz-sericite-clay alteration underlying ridges and creek bottoms in the northwest and southeast portions of the property. Quartz-sericite-pyrite+/- clay alteration locally contains abundant hematite, goethite, limonite and barite minerals.

Variable concentrations of chalcopyrite, sphalerite, galena mineralization with associated copper, zinc, lead and gold-silver values occur dominantly with quartz and quartz-calcite veins 0.5- 50 cm in width, however wallrock may contain quartz-carbonate flooding, stringers and weak stockwork over 1-3 metres in width. Purple, banded quartz vein material contains geochemically anomalous arsenic, barium, gold and silver values, and a silicified, quartz-carbonate-pyrite flooded shear 1.0-2.0 metres in width and at least 25 metres in length returned 396 ppb gold, 4.0 g/t silver (JC99-DB-5).

The Griz vein is located in the cirque wall southwest of a small tarn. This structure trends approximately 155/70, is between 50-100 cm in width and can be traced 100-150 metres along a hematite altered rock face and in talus. Less mineralized narrow stockwork and shears cut

the structure. Sample DR-8 contains 15 cm of semi-massive sphalerite and galena mineralization and returned 5.78% lead, 14.93% zinc, 2,226.1 g/t silver and 7.99 g/t gold. Sample JC99-BK-10 returned 1.2% copper, 1.0%lead, 2.53% zinc, 123.7 g/t silver, 0.73 g/t gold over a 1.0 metre width.

Several other mineralized zones were also located. Sample JC99-DR-3 returned 1.3ppm silver, 127 ppb gold, 20ppm molybdenum, 39ppm copper, 78ppm lead, 83ppm zinc from intensely silicified, weakly vuggy dacite-andesite with approximately 1% pyrite. Sample JC99-BK-6 returned 3297ppm copper with trace lead, zinc, silver and gold values. Sample JC99-BK-15 returned 52ppm molybdenum from a clay altered quartz monzonite.

9. DISCUSSION

The JC property is underlain by Toodoggone Volcanic rocks cut by quartz-monzonite stock to the east of the area prospected. Regional and local faults, shears and fractures trend northwest, north and northeast. Fracture-controlled and in part, lithology-controlled alteration varies from propylitic to intermediate and locally advanced argillic. Quartz-sericite-calcite, quartz-chlorite-epidote and sericite-clay-pyrite altered volcanic and intrusive rocks contain quartz and quartz-calcite veins, breccia, stockwork and stringers and variable amounts of pyrite, chalcopyrite, sphalerite, galena mineralization and associated copper, zinc, lead, gold and silver values; this mineralization also contains variable cadmium, barium and arsenic. Anomalous molybdenum occurs with clay altered quartz monzonite east of the cirque (BK-15).

Prospecting in 1999 discovered a 50-100 cm wide, 100-150 metre long quartz-calcite vein, breccia and stockwork zone containing significant copper, lead, zinc mineralization and associated gold-silver values. Vein sulphide mineralization contains up to 5.78% lead, 14.93% zinc and 2,226.1 g/t silver, 7.99 g/t gold over approximately 15 cm in width. Much of this structure is covered by talus, and its full extent and size remains unclear.

The geology, alteration and mineralization in the southwest corner of the JC property suggests the area is underlain by epithermal style base and precious metal veins proximal to a quartz-monzonite intrusion of transitional porphyry copper-gold affinity.

10. CONCLUSIONS

The JC property zone is located near the junction of Jock Creek and the Toodoggone River, approximately 400 kilometres north of Mackenzie, British Columbia by road, and then 25

kilometres northeast by helicopter. It is located in the Omineca Mining Division at 57° 21' latitude and 126° 48' longitude on NAD83 map sheets 94E.036 and 94E.037.

The JC property is underlain dominantly by maroon to chloritic, heterolithic dacite-andesite feldspar crystal tuff, flow and minor breccia; bleached, clay-altered quartz monzonite containing anomalous molybdenum in float and possible outcrop in the creek drainage east of the cirque occurs. These rocks appear to be of the Toodoggone Formation and Black Lake intrusive suite, respectively.

The Griz vein, 50-100 cm wide, 100-150 metres long, is comprised of quartz-calcite vein, breccia and stockwork containing significant copper, lead, zinc mineralization and associated gold-silver values. Vein sulphide mineralization in float contains up to 5.78% lead, 14.93% zinc and 2,226.1 g/t silver, 7.99 g/t gold over approximately 15 cm in width. Outcrop of this structure returned 1.2% copper, 1.0%lead, 2.53% zinc, 123.7g/t silver, 0.73 g/t gold over a 1.0 m width. Talus cover in this area limits definition of its true size and extent.

The geology, alteration and mineralization in the southwest corner of the JC property suggests the area contains widespread and locally concentrated epithermal style base and precious metal veins, breccia and stockwork proximal to a quartz-monzonite intrusion of the Black Lake suite; potential for development of high-grade epithermal gold-silver and transitional porphyry copper-gold deposits occurs.

11. RECOMMENDATIONS

A success-contingent two-phase program is recommended for the JC property.

11.1 Phase 1

Further prospect and geologically map the property with rock, soil and silt samples, defining areas for geochemical and geophysical grids and/ or trenching.

11.2 Phase 2

Layout grids and follow with geology, soil sampling and magnetic, VLF surveys. Prospective areas outlined by this work may be further investigated with helicopter-supported Kubota backhoe trenching.

Proposed Budget-JC Property

Phase 1

Wages

	#days	$/day	total	
Geologist	10	$450.00	$4,500.00	$9,250.00
Prospector	10	$250.00	$2,500.00	
Field Tech.	10	$225.00	$2,250.00	

Assays		ICP #Samples	ICP $/Sample	Assays #Samples	Assays $/Sample	
	Rock	150	$17.50	50	$15.00	$3,812.50
	Silt	25	$17.50			
				Shipping/storage		$100.00

Transportation $9,800.00

Mob/Demob		$5,000.00		
Canadian Helicopters	HOURS	$/HOUR		
	6	$ 800.00	$ 4,800.00	

Accomodations-Fly camp $442.00

#Persons	**$/DAY**	**#DAYS**		
3	$100.00	10	$3,000.00	
			$3,000.00	

Office/field Supplies $500.00

Communications $1,300.00

Sat Phone, Field Radios,Long Distance

Maps, Reproductions $600.00

Report $4,000.00

TOTAL $29,804.50

1999 STATEMENT OF COSTS-JC PROJECT

Feb10,1999 to Feb 9,2000

Wages					
Standard Metals Exploration Ltd.		#days	$/day	total	
	DBLANN	7	$450.00	$3,150.00	$6,275.00
Lodestone Expl	D. Ridley	8	$250.00	$2,000.00	
	D. Black	5	$225.00	$1,125.00	
		ICP		Assays	
Assays	#Samples	$/Sample	#Samples	$/Sample	
Rock	36	$17.50	11	$15.00	$795.00
			Shipping/storage		$100.00
Transportation					
Mob/Demob	20%	$1,200.00	$240.00		$3,840.00
Canadian Helicopters	HOURS	$/HOUR			
	4.5	$ 800.00	$ 3,600.00		
Accomodations					$442.00
	#MEN	**$/DAY**	**#DAYS**		
	2	$65.00	3	$390.00	
	1	$50.00	1	$52.00	
				$442.00	
Office Supplies					$150.00
Communications					$150.00
Sat Phone, Field Radios,Long Distance					
Maps, Reproductions					$450.00
Report					$2,500.00
				TOTAL	$14,702.00

14. REFERENCES

1. Blann, D.E., (Jan 1999), Geological and Diamond Drilling Report on the Pine Prospect, Finlay River, Toodoggone, B.C., Jan, 1999, for Stealth Mining Corporation.

2. Bowen, B.K., Copeland, D.J. and Rebagliati, C.M. (1993): Pine Gold-Copper Porphyry Project; Summary Report on the 1992 Exploration and Diamond Drilling Program. Copeland Rebagliati and Associates Ltd., Priv. Rep. for Romulus Resources Ltd.

3. Diakow, L.J., Panteleyev, A. and Schroeder, T. (1993): Geology of the Early Jurassic Toodoggone Formation and Gold-Silver Deposits in the Toodoggone River Area, Northern British Columbia. *Bul. 86, B.C. Ministry of Energy Mines & Petroleum* Resources.

4. McMullen, J. and Smith P.K. (1973): Geophysical Report for Kennco Explorations (Western) Ltd., Pine Property, Omenica M.C., British Columbia. Kennco Explorations Priv. Rep.

5. Rebagliati, C.M., Bowen, B.K. and Copeland, D.J. (1993): Pine Property Gold-Copper and Copper-Molybdenum Porphyry Prospects, Kemess-Toodoggone District, Northern British Columbia. Paper 29, CIM Special Volume 46, pp 436-440.

18. Open File 3495, Geological Survey of Canada, Aeromagnetic Residual Total Field Map, 94E/SE, 1999.

19. BC RGS46, British Columbia Regional Geochemical Survey, W. Jackman, NTS 94 E, 1997.

15. STATEMENT OF QUALIFICATIONS

I, David E. Blann, of Burnaby, British Columbia, do hereby certify:

1. That I am a Professional Engineer registered in the Province of British Columbia.

2. That I am a graduate in Geological Engineering from the Montana College of Mineral Science (School of Mines), Butte, Montana (1986).

3. That I am a graduate in Mining Engineering Technology from the B.C. Institute of Technology (1984).

4. That I have been actively engaged in the mining and mineral exploration industry since 1984.

5. That the 1999 prospecting program was directed and performed under my supervision, and information, conclusions and recommendations herein are based on approximately 10 man-days work on the property during 1999, and a review of information in the public records.

Dated at Burnaby, B.C., May2 1, 2000

David E. Blann, P.Eng.

TABLES

TABLE 1
January, 2000
Stealth Mining Corp. Electrum Resources Corp.
Schedule of Mineral Claims

Total: 35 claim units

Name	Tenure #	Units	Anniversary Date yy/mm/dd	Expiry Date yy/mm/dd	Registered Owner
JC 1	367804	15	99/02/09	03/02/09	107591
JC 2	367805	20	99/02/09	03/02/09	107591

Table 2
Rock Sample Assays

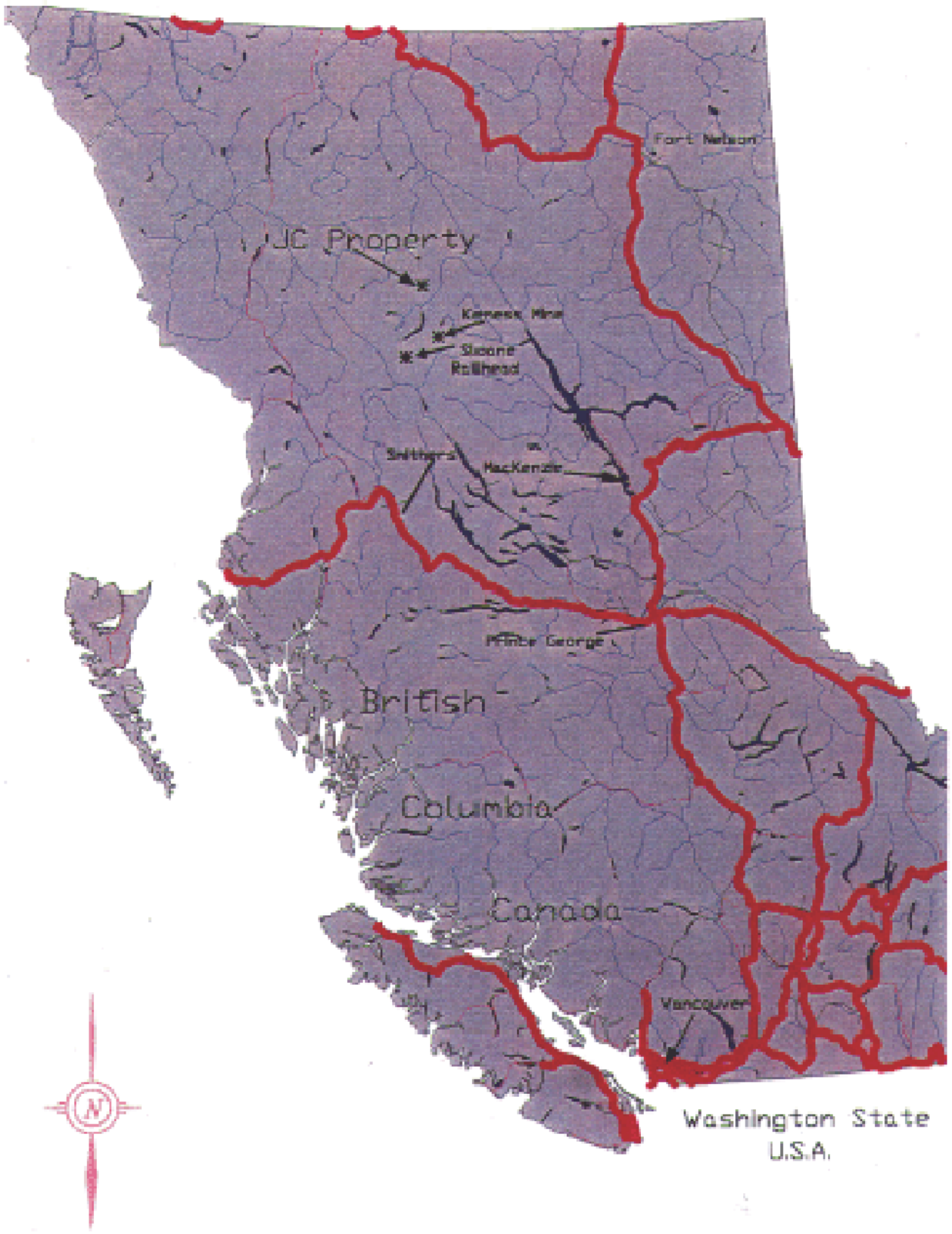
ELEMENT	Mo	Cu	Pb	Zn	Ag	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	Ca	Mg	Ba	Ti	Na	K	W	Au*
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	%	%	ppm	ppb
JC99-BK-1	19	6235	1192	248	9.10	616	3.26	8	< 2	33	3.4	< 3	< 3	0.08	0.28	71	< .01	0.01	0.25	3	35
JC99-BK-2	5	52	10	205	0.30	561	7.44	14	2	7	1	< 3	8	0.05	0.65	93	< .01	0.01	0.38	< 2	8
JC99-BK-3	3	24	31	65	0.40	758	3.16	3	3	14	< .2	< 3	< 3	0.45	0.67	59	0.12	0.04	0.23	4	1
JC99-BK-4	3	15	34	32	< .3	475	2.43	25	< 2	11	< .2	< 3	< 3	0.72	0.1	226	0.01	0.01	0.19	10	3
JC99-BK-5	< 1	10	13	11	< .3	6006	0.17	< 2	< 2	230	0.9	< 3	< 3	33.3	0.02	13	< .01	< .01	0.04	< 2	1
JC99-BK-6	2	3297	11	125	3.00	2149	3.01	4	2	113	0.5	< 3	< 3	2.8	0.59	88	0.05	0.01	0.51	5	10
JC99-BK-7	1	61	1160	1526	11.40	4982	1.52	< 2	2	231	41.6	< 3	< 3	12.7	0.39	730	0.03	0.05	0.29	< 2	91
JC99-BK-8	5	2796	11130	812	21.20	423	2.38	< 2	< 2	16	4.3	< 3	< 3	0.14	0.12	165	0.04	0.01	0.12	13	22
JC99-BK-9	9	343	358	261	4.50	1528	3.32	4	< 2	12	0.7	< 3	< 3	0.34	1.11	139	0.15	0.01	0.15	6	24
JC99-BK-10	7	12141	10496	27713	131.00	5844	2.38	< 2	< 2	125	621	< 3	3	12.6	0.1	37	< .01	< .01	0.03	< 2	670
JC99-BK-11	4	2467	3184	7398	32.20	8918	1.29	< 2	< 2	190	144	< 3	3	18.8	0.13	39	< .01	< .01	0.03	< 2	160
JC99-BK-12	18	52	2034	4174	22.20	4691	0.25	< 2	< 2	168	113	< 3	< 3	17	0.02	533	< .01	0.01	0.08	< 2	157
JC99-BK-13	4	274	305	553	2.20	1132	1.36	49	< 2	35	8.2	< 3	< 3	1.24	0.09	446	< .01	0.01	0.07	10	7
JC99-BK-14	3	2209	24	124	1.40	2093	2.72	8	6	32	1.1	< 3	< 3	2.77	0.68	228	0.01	0.02	0.56	4	12
JC99-BK-15	52	87	9	65	< .3	608	2.91	< 2	7	9	< .2	< 3	< 3	0.18	0.83	160	0.05	0.05	0.33	2	7
JC99-DR-1	4	3994	12	290	0.80	1869	2.51	5	2	34	1.4	< 3	< 3	0.66	1	571	0.09	0.01	0.35	5	24
JC99-DR-2	6	276	135	11988	0.60	2074	2.57	11	2	27	185	< 3	< 3	0.31	1	233	0.01	< .01	0.32	8	44
JC99-DR-3	20	39	78	83	1.70	72	1.29	13	< 2	402	0.9	< 3	< 3	0.11	0.01	102	< .01	< .01	0.04	12	127
JC99-DR-4	3	11	13	205	< .3	736	4.23	14	2	20	0.6	< 3	< 3	0.05	0.93	488	< .01	< .01	0.33	< 2	3
JC99-DR-5	2	78	2112	3827	0.30	2239	2.03	< 2	3	106	30.1	< 3	< 3	4.24	1.08	277	0.17	0.01	0.15	3	4
JC99-DR-6	< 1	11	68	80	1.70	8820	1.23	13	2	243	2.5	< 3	< 3	27.1	0.23	57	0.03	0.01	0.13	< 2	15
JC99-DR-7	7	97	1109	1146	60.00	8233	0.41	< 2	2	251	33.1	< 3	< 3	29.8	0.08	52	< .01	< .01	0.14	< 2	249
JC99-DR-8	< 1	2348	27043	99999	205.20	3833	1.47	< 2	< 2	111	3789	< 3	3	10.6	0.16	48	< .01	< .01	0.13	7	5110
JC99-DR-9	3	4701	7897	81956	173.50	2645	1.51	18	< 2	36	1613	6	< 3	3.29	0.07	35	< .01	< .01	0.01	2	900
JC99-DR-10	8	243	3454	11608	23.90	6556	1.24	< 2	2	137	247	< 3	4	13.4	0.05	17	< .01	< .01	0.01	< 2	92
JC99-DR-11	2	3138	8796	55416	143.80	6120	0.8	< 2	< 2	213	1342	< 3	< 3	13.2	0.04	18	< .01	< .01	0.01	< 2	360
JC99-DR-12	4	3001	4106	19632	18.60	3424	4.48	20	2	30	307	< 3	< 3	1.83	0.54	163	0.02	0.01	0.37	< 2	49
JC99-DR-13	8	827	4520	22405	25.50	4909	1.01	< 2	< 2	107	393	< 3	< 3	8.32	0.18	86	< .01	0.01	0.09	3	149
JC99-DR-14	18	514	5910	19734	19.00	4290	1.8	< 2	< 2	46	204	< 3	< 3	4.07	0.35	177	0.01	< .01	0.13	3	75
JC99-DR-15	6	3968	7853	33425	44.80	6676	1.95	< 2	< 2	118	495	< 3	3	7.97	0.31	57	0.02	< .01	0.07	< 2	107
JC99-DR-16	3	400	1230	5195	8.90	6511	2.26	22	2	79	80.1	3	< 3	10.8	0.31	77	< .01	< .01	0.1	< 2	48
P99-DR-69	15	30	20	6	1.50	49	0.78	11	< 2	187	0.2	< 3	< 3	0.1	0.04	545	< .01	0.01	0.13	4	116
JC99-DB-1	8	33	63	101	2.60	1127	2.28	17	< 2	9	1.2	< 3	< 3	0.38	0.37	132	0.01	< .01	0.14	3	164
JC99-DB-2	6	10	20	42	2.20	365	1.71	9	2	6	< .2	4	< 3	0.13	0.35	98	0.01	0.01	0.17	2	55
JC99-DB-3	< 1	45	31	89	3.40	2537	1.7	5	< 2	121	0.5	< 3	< 3	6.29	0.51	1052	< .01	< .01	0.16	2	23

Table 2
Rock Sample Assays

ELEMENT	Mo	Cu	Pb	Zn	Ag	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	Ca	Mg	Ba	Ti	Na	K	W	Au*
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	%	%	ppm	ppb
JC99-DB-4	2	34	267	411	2.40	1852	2.28	25	< 2	48	3.2	< 3	< 3	1.38	0.29	494	0.05	< .01	0.12	4	40
JC99-DB-5	36	36	132	12	4.00	65	0.94	14	2	375	< .2	< 3	< 3	0.13	0.01	183	< .01	< .01	0.13	3	396

ELEMENT	Mo	Cu	Pb	Zn	Ag**	Mn	Fe	As	Cd	Sb	Bi	Au**
SAMPLES	%	%	%	%	gm/t	%	%	%	%	%	%	gm/t
JC99-BK-8	< .001	0.256	0.97	0.07	21.00	0.04	1.76	< .01	< .001	< .001	< .01	0.04
JC99-BK-10	0.001	1.200	1.00	2.53	123.70	0.59	2.37	< .01	0.05	< .001	< .01	0.73
JC99-DR-2	0.001	0.025	0.01	1.12	< .3	0.18	2.18	< .01	0.02	< .001	< .01	0.03
JC99-DR-8	< .001	0.260	5.78	14.93	2226.10	0.42	1.56	< .01	0.34	< .001	< .01	7.99
JC99-DR-9	< .001	0.433	0.70	6.85	159.80	0.24	1.49	< .01	0.13	0	< .01	0.96
JC99-DR-10	0.001	0.024	0.34	1.14	23.20	0.68	1.24	< .01	0.02	< .001	< .01	0.10
JC99-DR-11	< .001	0.325	0.87	4.88	154.00	0.65	0.81	< .01	0.12	< .001	< .01	0.40
JC99-DR-12	0.001	0.288	0.38	1.83	17.10	0.32	4.38	< .01	0.03	< .001	< .01	0.04
JC99-DR-13	0.001	0.080	0.42	2.09	23.50	0.47	0.98	< .01	0.03	< .001	< .01	0.12
JC99-DR-14	0.002	0.048	0.53	1.78	16.60	0.39	1.73	< .01	0.02	< .001	< .01	0.06
JC99-DR-15	0.001	0.380	0.74	2.94	41.00	0.66	1.94	< .01	0.04	< .001	< .01	0.09
RE JC99-DR-15	0.001	0.379	0.72	2.93	40.70	0.66	1.93	< .01	0.04	< .001	< .01	0.09

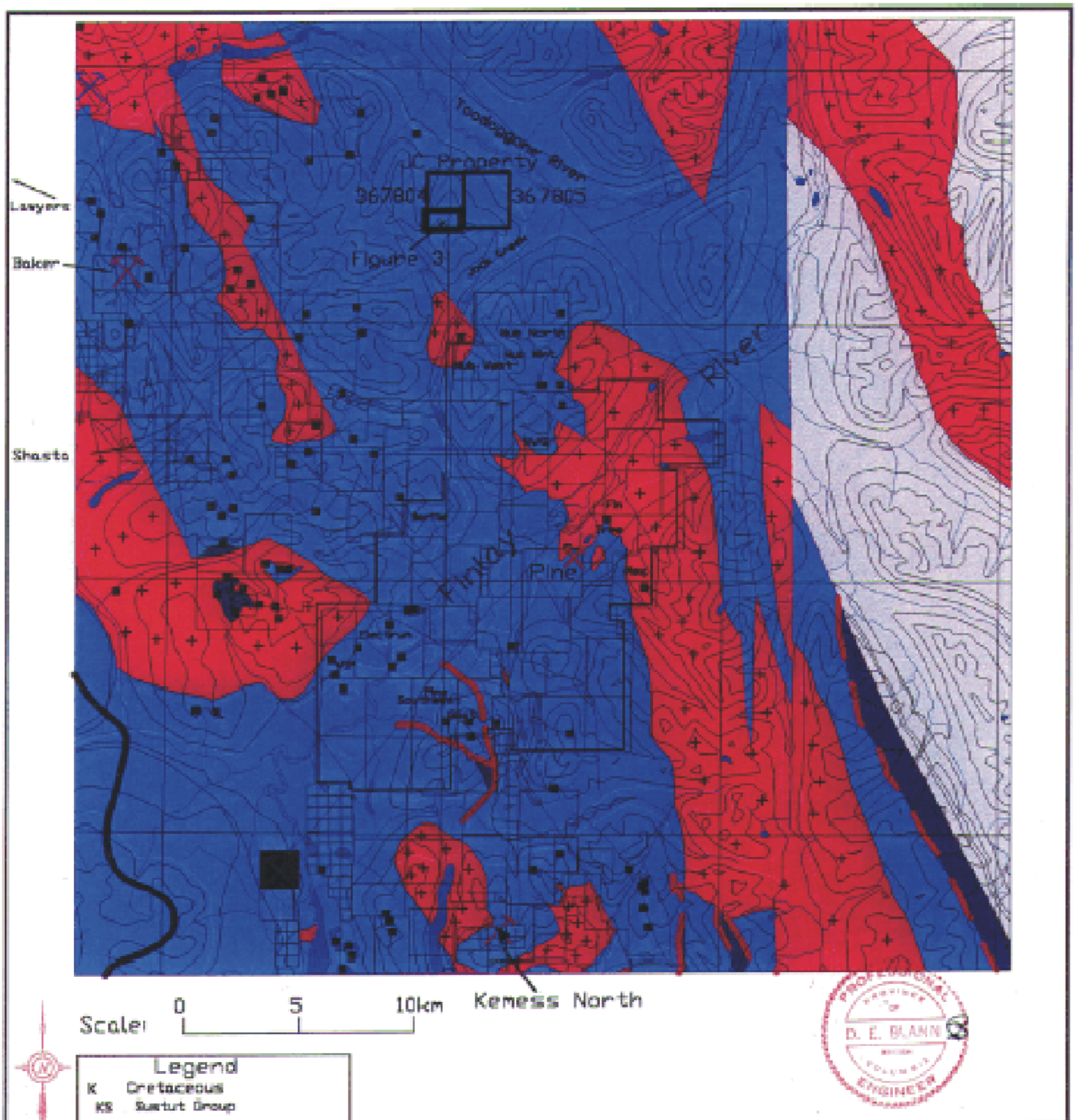
FIGURES



NTS: 94E/07W
Lat: 57° 21'N Long: 126° 48'E
Omineca Mining Division
Date: May 2000

Stealth Mining Corp.
JC Property
Location

By David E. Blann, P. Eng. Standard Metals Exploration Ltd. Fig. 1



Legend

- K Cretaceous
  - KS Sustut Group
- M Mesozoic
  - LJr Lower Jurassic
    - + Black Lake Intrusive Suite
      - QMz-Grd
  - H Hazelton Group
    - TFn Toodoggone Volcanic Rocks
  - UTr Upper Triassic
    - T Takla Volcanic/Sed Rocks
- Pn Permian
- PC Proterozoic

Past Producer-Au-Ag

Developed Prospect Au-Cu

Prospect

After BC GS-Map Place

Standard Metals Exploration Ltd.
D.E. Blann, P.Eng.
Date: Apr/2000 File: 08Fig2

PROFESSIONAL ENGINEER
D. E. BLANN

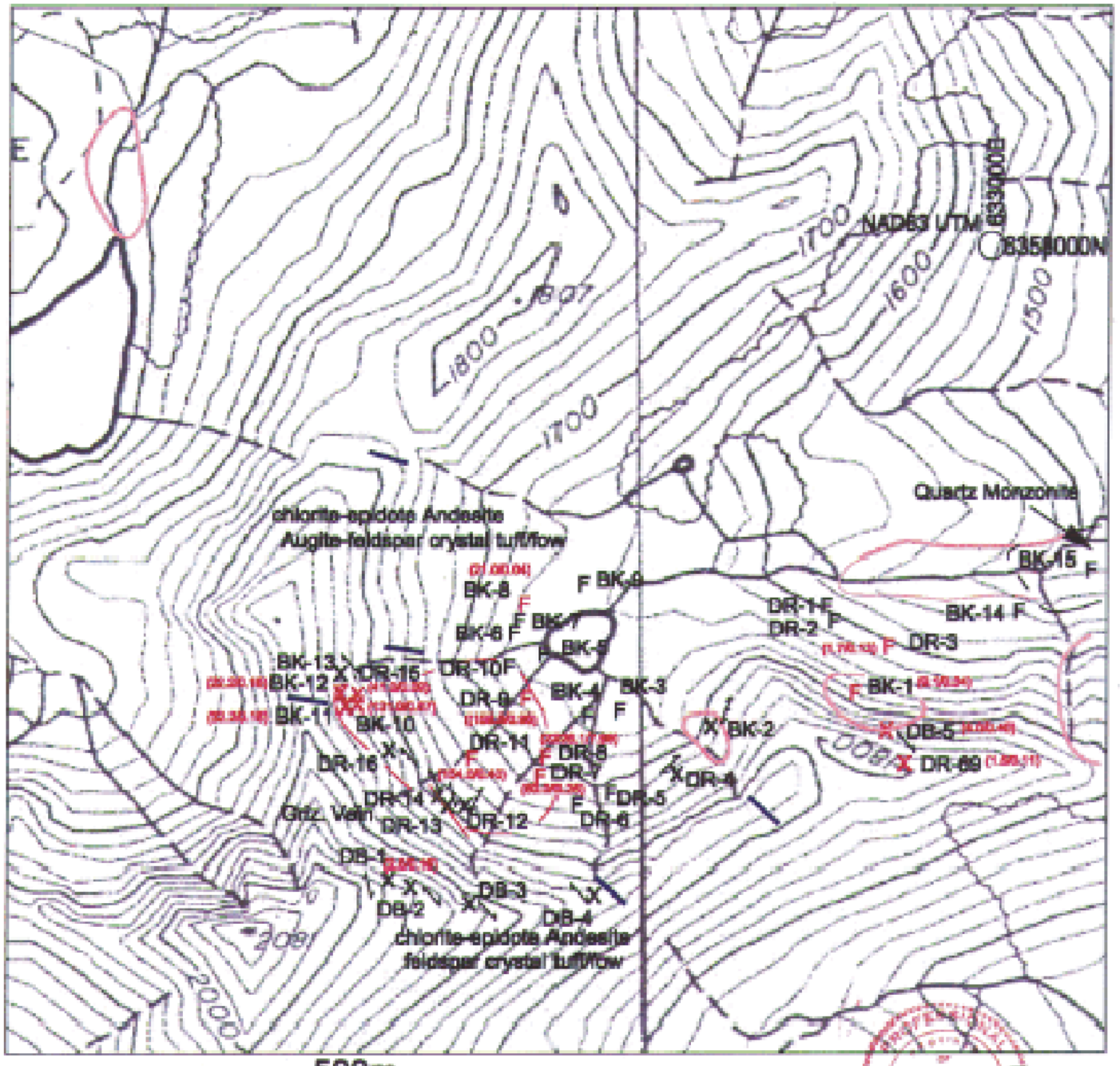
Stealth Mining Corp.

JC Property

Claim Location, Regional Geology

Toodoggone Gold District

NTS: 94E/07W Figure: 2



Refer To:
Appendix C: Rock Sample Descriptions
Appendix D: Rock Sample Assays

F DR Float Sample Number
X DR Outcrop Sample Number

X BK10 (131.0/0.67)= Ag(g/t)/Au(g/t)

Vein/Fault Orientation

Sericite-clay-pyrite alteration

STEALTH MINING CORP.

PINE PROJECT
JC Property
Rock Sample Locations

SCALE: 1:10,000	NTS: 94E/07W+E	FILE: JC90.dwg
DATE: Apr/2000	DRAWN: DB	FIGURE: 3

APPENDIX 1

ROCK SAMPLE DESCRIPTION SHEETS

Rock Sample Description Sheet

Company: Stealth Mining Corp.

File: SAL-P-99

Standard Metals Exploration Ltd.

Area: SC

Sampled by: RIDLEY / BLACK

Date: AUG 1999

RH Rule

Az/Dip

Sample Number	Comments	Color R,Br,Gy,Gn	Color Int/ Sec V, +, =, Lst	Structure 000/00	Chip m/sq.m	Grab Kg.	Rock Code	% Py	% Cp	% Qvn	% Mag	% Hem	Alteration Scale 1-5: Ser	K Feld	Gyp Anhy	Ca	Chl Ep	Clay	Au ppb/g	Ag ppm/g	Cu ppm/%	Zn ppm/%
99-DR-1	FLOAT	Gy	V	-	-	1	Fxt	.1	.3	10	-	-	3	-	-	1	2	-				
QUARTZ-BARITE STOCKWORK, CHALCOPYRITE/MALACHITE. PERVASIVE QUARTZ-SERICITE, MINOR CALCITE, ANDESITE CRYSTAL TUFF																						
99-DR-2	FLOAT	Gy	V	-	-	1	Fxt	1	.1	-	-	-	3	-	-	2	2	1				
1.5 M BELOW DR-1, ANDESITE CRYSTAL TUFF. QUARTZ-CARBONATE - PERVASIVE AND STOCKWORK. GALENA CLOTS DISSEMINATED.																						
99-DR-3	FLOAT	Br	V	-	-	1	Q-Ca	1	-	1	-	-	4	-	-	3	1	1				
MASSIVE PERVASIVE QUARTZ-VEIN (SILICIFICATION) (VERY FINE GRAINED) WITH DISSEM. Py. QUARTZ-BARITE? WEAKLY VUGGY																						
P99-DR-4	RUSTY WEATHERING	Br	V	065/55	0.40	2	Fxt	2	-	1	-	-	3	-	-	1	3	-				
ANDESITE FELDSPAR CRYSTAL TUFF. MOD. PERVASIVE SERICITE-EPIDOTE. WELL FRACTURED SHEARED.																						
P99-DR-5	GREY-GREEN. FLOAT	Gy	V	-	-	2	Fxt	1	0	3	-	-	3	-	-	1	3	1				
FELDSPAR CRYSTAL TUFF/FLOW. ANDESITE, MINOR-MODERATE FRACTURED WITH QUARTZ-CALCITE ± ANKERITE ± BARITE VEINS. - GALENA.																						
P99-DR-6	FLOAT	W	V	-	-	2	Fxt	.1	-	2	-	-	3	-	-	5	2	-				
ANDESITE TUFF, MOD. PERVASIVE CHLORITE-SERICITE-CALCITE, STRONG CALCITE VEINING, LOCALLY PINKISH COLOR.																						
P99-DR-7	FLOAT.	W	V	-	-	1	Q-Ca	2	-	20	-	-	3	-	-	5	1	1				
MASSIVE QUARTZ - CALCITE (MED-COARSE GRAINED), DISSEM. FINE GRAINED GALENA.																						
P99-DR-8	FLOAT. Q-Ca VN.	W	V	-	-	1	Q-Ca	1	.3	10	-	-	-	2	-	5	-	1				
25 x 30 x 40 CM BOULDER, 15CM SEMI-MASSIVE SP, GL, ANDESITE TUFF WITH PYRITE WALLROCK.																						

Rock Sample Description Sheet

Company: Stealth Mining Corp.

File: SAL-P-99

Standard Metals Exploration Ltd.

Area:	JC
Sampled by:	
Date:	

RH Rule

Az/Dip

Sample Number	Comments	Color R,Br,Gy,Gn	Vein/ Int/ Sed V, +, =, Lst	Structure 000/00	Chip m/sq.m	Grab Kg.	Rock Code	% Py	% Cp	% Qvn	% Mag	% Hem	Alteration Scale 1-5: Ser	K Feld	Gyp Anhy	Ca	Chl Ep	Clay	Au ppb/g	Ag ppm/g	Cu ppm/%	Zn ppm/%
99-DR-9	FLOAT	Gy	V	-	-	2	Q-Ca	1	.3	30	-	-	3	-	-	3	2	1				
ANDESITE-CRYSTAL TUFF, PERVASIVE SILICIFICATION, VUGGY QUARTZ VEIN BRECCIA, COCKSCOMBE QUARTZ. MAL.																						
99-DR-10	FLOAT	Gy	V	-	-	2	Q-Ca	0.1	0.1	25	-	-	2	-	-	5	2	1				
MAROON ANDESITE, PERVASIVE QUARTZ-CARBONATE AND VEIN Bx.																						
99-DR-11	FLOAT Q-Ca VN Bx	W	V	-	-	2	Q-Ca	1	.2	20	-	-	3	-	-	5	2	1				
25 X 40 X 30 CM #Sp, Gl. QUARTZ-CALCITE BRECCIA. MAROON VOLCANIC BRECCIA CLASTS WITHIN A QUARTZ-CALCITE VUGGY MATRIX.																						
99-DR-12	OUTCROP	Br	V	213/80	0.50	2	Fxt	2	.5	2	-	-	3	1	-	1	2	-				
RED-BROWN ANDESITE TUFF. MOD. PERVASIVE QUARTZ-SERICITE, WEAK CALCITE, MOD. FRACTURED, Py, Cp, Sp, Gl, WEAK PERV. SIL.																						
99-DR-13	Q-Ca VN	W	V	350/80	.40	2	Q-Ca	2	1	20	-	-	3	-	-	5	1	1				
5M WEST OF DR-12. ANDESITE TUFF, WEAK PERV. QUARTZ-SERICITE-CALCITE CUT BY CALCITE VEIN Bx. Cp, Sp, Gl, MOD. SIL.																						
99-DR-14	Q-Ca VN	W	V	155/90	0.50	2	Q-Ca	1	.1	20	-	-	3	-	-	5	-	1				
7M NORTH & DOWNSLOPE OF DR-13. 1-3% Gl, Sp. PERVASIVE, FINE GRAINED QUARTZ-CALCITE VEIN CUTTING Py ANDESITE, FINE GRAINED Sp, Gl.																						
99-DR-15	Q-Ca VN Bx	Br	V	155/70	1.0	2	Fxt	1	1.	10	-	1	3	1	-	2	2	1				
25M E. OF BK-11. 1-2% Cp, Gl, Sp. ANDESITE FELDSPAR CRYSTAL TUFF. MOD PERVASIVE QUARTZ-CHLORITE-SERICITE-CALCITE ± K-FELD. MOD. QUARTZ STOCKWORK, BRECCIA.																						
99-DR-16	Q-Ca VN Bx	Gy	V	-	-	2	Fxt	.1	.1	10	-	-	3	-	-	2	2	1				
BETWEEN DR-14/15 - SAME VEIN. PERV. Q-S-CHL; Ca QTZ-Ca VEINING. MAROON VOLC.																						

Rock Sample Description Sheet

Company: Stealth Mining Corp.

File: SAL-P-99

Standard Metals Exploration Ltd.

Area: SC

Sampled by:

Date:

RH Rule

Az/Dip

Sample Number	Comments	Color R,Br,Gy,Gn	Vein/ Int/ Bed V, +, =, Lst	Structure 000/00	Chip m/sq.m	Grab Kg.	Rock Code	% Py	% Cp	% Qvn	% Mag	% Hem	Alteration Scale 1-5: Ser	K Feld	Gyp Anhy	Ca	Chl Ep	Clay	Au ppb/g	Ag ppm/g	Cu ppm/%	Zn ppm/%
99-DR69	Q-Ca-VN	Br	V	060/90	0.35	2	Fxt	1	-	10	-	-	4	-	-	4	1	1				
QUARTZ-CALCITE ± BARITE VEIN. YELLOW-BROWN OXIDE STAIN. VERY FINE GRAINED PYRITE. WALLROCK IS FELDSPAR CRYSTAL TUFF - SERICITE - CALCITE ± PYRITE.																						
SC99-BK-1	FLOAT. RUSTY	Br	V	-	-	2	Fxt	2	.5	2	-	-	4	-	-	1	3	1				
WEATHERING FELDSPAR CRYSTAL ANDESITE TUFF. PERVASIVE QUARTZ-SERICITE-PYRITE. SHEARED, QUARTZ VEINLETS 1-2 MM WITH CHALCOPYRITE.																						
SC99-BK-2	RUSTY WEATHERING	Br	V	210/78	-	2	Fxt	2	.1	0	0	0	3	-	-	0	3	-				
FELDSPAR CRYSTAL TUFF. MODERATE PERVASIVE QUARTZ-SERICITE-PYRITE.																						
SC99-BK-3	FLOAT.	Br	V	-	-	2	Fxt	3	-	-	-	-	5	-	-	1	1	2	3			
FELDSPAR CRYSTAL TUFF (ANDESITE). STRONG PERVASIVE QUARTZ-SERICITE-PYRITE. MOD. SIL.																						
SC99-BK-4	FLOAT	PURPLE		-	-	1	QVN	-	-	90	-	2	1	-	-	1	-	-				
MASSIVE, FINE GRAINED, BANDED GREY-ORANGE-PURPLE QUARTZ VEIN. WALLROCK = FELDSPAR CRYSTAL TUFF. POSSIBLY 10 CM WIDE. ABOVE SNOWPATCH.																						
SC99-BK-5	FLOAT. Q-Ca VN	W		-	-	2	Q-Ca	.1	-	2	-	-	2	-	-	5	-	-				
COARSE GRAINED CALCITE VEIN, B/X. SERICITE PARTINGS.																						
SC99-BK-6	FLOAT.	Gy	V	-	-	2	Fxt	1	.5	2	-	2	3	-	-	3	2	1				
FINE GRAINED, ANDESITE TUFF/BRECCIA. HETEROLITHIC. WEAK PERVASIVE QUARTZ-CHLORITE-SERICITE-CALCITE, WITH QUARTZ-CALCITE VEINS 1-2 MM. DISSEMINATED CHALCOPYRITE.																						
SC99-BK-7	FLOAT. Q-Ca VN	Gy	V	-	-	2	Q-Ca	1	-	10	-	-	2	-	-	4	2	2				
COARSE GRAINED CALCITE ± BARITE WITH GL, SP. WALLROCK = F.G. Fxt - MAROON.																						

Rock Sample Description Sheet

Company: Stealth Mining Corp.

File: SAL-P-99

Standard Metals Exploration Ltd.

Area: SC

Sampled by:

Date:

RH Rule

Az/Dip

Sample Number	Comments	Color R,Br,Gy,Gn	Vein/ Int/ Sed V, +, =, Lst	Structure 000/00	Chip m/sq.m	Grab Kg.	Rock Code	% Py	% Cp	% Qvn	% Mag	% Hem	Alteration Scale 1-5: Ser	K Feld	Gyp Anhy	Ca	Chl Ep	Clay	Au ppb/g	Ag ppm/g	Cu ppm/%	Zn ppm/%
SC99-BK-8	FLOAT. RUSTY QUARTZ ± CALCITE VEIN. Gl, Sp, Cp. ABUNDANT.	Gy	V	-	-	2	Q-VN	1.	1.0	25	-	-	3	-	-	2	1	1				
SC99-BK-9	FLOAT. QTZ STOCKWORK. PALE GREEN ANDESITE FELDSPAR CRYSTAL TUFF. MOD. PERVASIVE Q-CHL-S. ± CALCITE, AND WEAK 1-2 MM VEINS, WEAKLY VUGGY.	Br	V	-	-	2	FxT	1	.3	2	-	-	3	-	-	1	3	0				
SC99-BK-10	Q-Ca VN. Gl, Sp, Cp, Mal. MED. GRAINED CALCITE VEIN, Bx, STOCKWORK. MAROON ANDESITE WALLROCK - PART OF GRIZ VEIN.	Gy	V	328/80	1.0	2	Q-Ca	.1	.5	2	-	-	3	-	-	5	1	-				
SC99-BK-11	RE-SAMPLE OF BK-10. PART OF GRIZ VEIN																					
SC-99-BK-12	7M NORTH OF BK-11. Q-Ca VN ± BARITE. FELDSPAR CRYSTAL TUFF. MOD. PERVASIVE QUARTZ-SERICITE-CHLORITE-CALCITE ± CUT BY STRONG QTZ-Ca VEINS.	W	V	340/76	0.20	2	Q-Ca	.1	.5	20	-	-	3	-	-	5	1	1				
SC-99-BK-13	20M NORTH OF BK-12. PURPLE QUARTZ WITH MINOR CALCITE.	W	V	334/85	0.30	2	Q-Ca	.1	.2	20	-	-	1	-	-	-	-	-				
SC99-BK-14	FLOAT. PALE GREEN FELDSPAR CRYSTAL TUFF, STRONG PERVASIVE SERICITE, MINOR QUARTZ-CALCITE, VEINLETS 1-2 MM WITH CHALCOPYRITE (ALSO DISSEMINATED).	Gy	V	-	-	2	FxT	1	.5	1	-	-	4	-	-	2	3	-				
SC99-BK-15	FLOAT. MEDIUM GRAINED, QUARTZ MONZONITE. PERVASIVE CLAY, LIMONITE. MINOR FRACTURE-FILL CP, MO	Gy	+	-	-	2	QMz	1	.2	-	-	-	3	-	-	-	-	3				

Rock Sample Description Sheet

Company: Stealth Mining Corp.

File: SAL-P-99

Standard Metals Exploration Ltd.

Area: SC.

Sampled by:

Date:

RH Rule

Az/Dip

Sample Number	Comments	Color R,Br,Gy,Gn	Vein/Inf/Sed V, +, =, Lat	Structure 000/00	Chip m/sq.m	Grab Kg.	Rock Code	% Py	% Cp	% Qvn	% Mag	% Hem	Alteration Scale 1-5: Ser	K Feld	Gyp Anhy	Ca	Chl Ep	Clay	Au ppb/g	Ag ppm/g	Cu ppm/%	Zn ppm/%
SC99-DB-1	NORTH SIDE OF	GY	V	348/90	0.25	2	Q-Ca	1	-	-	-	2	2	-	-	5	1	2				
RIDGE. QUARTZ + QUARTZ-CARBONATE VEIN, 2-STAGE. ANDESITE FELSIC CRYSTAL LITHIC TUFF, FLOW, TRACHYTE.?. WEAKLY SILICIFIED. LIMONITE/GOETHITE.																						
SC99-DB-2	25 M. EAST OF #1	GY	V	330/90	0.90	3	QVN	1	-	60	-	1	3	-	-	4	1	3				
2-STAGE QUARTZ VEIN WITH WALLROCK SILICIFICATION, VUGGY VEIN BRECCIA, STOCKWORK. LIMONITE/GOETHITE. WEAK CLAY ALTERED WALLROCK TO 0.8 M FROM VEIN. STRIKE: 50M																						
SC99-DB-3	AT SADDLE ON	GY	V	340/0	1.0	3	Q-Ca	0.5	0.1	80	-	1	2	-	-	4	3	2				
RIDGE. 2-3 STAGE QUARTZ VEIN, SILICIFICATION, BRECCIA AND STOCKWORK. MAYBE STRIKE OF GRIZ. VEIN. VUGGY, TRACE CHALCOPYRITE.																						
SC99-DB-4	QUARTZ VEIN	GY	V	330/90	0.20	2	QVN	0.5	0.1	80	-	-	2	-	-	3	2	2				
BRECCIA (20CM) WITH 2-3 M WIDE STOCKWORK. 2 STAGE VEIN, SILICIFICATION. CHALCEDONIC QUARTZ, TRACE MnOx, Py, Cp. PART OF GRIZ VEIN?.																						
SC99-DB-5	NORTH SIDE OF RIDGE	Br	=	330/60	1.0	3	Q-Ca	3	0.1	50	-	2	3	-	3	4	2	2				
2 170CM. BARITE-QUARTZ-CARBONATE VEIN WITH 2-5% PYRITE, AsPy?. STRONG PERVASIVE WALLROCK QUARTZ-CARBONATE FLOODING, STOCKWORK, 1-2M WIDE, 25+M. LONG																						

APPENDIX 2

ROCK SAMPLE ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Standard Metals PROJECT PINE File # 9903270 Page 1

606 - 6595 Bonsor Ave, Burnaby BC V5H 4G5 Submitted by: D. Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
JC99-BK-1	19	6235	1192	248	9.1	4	6	616	3.26	8	<8	<2	<2	33	3.4	<3	<3	17	.08	.037	6	10	.28	71	<.01	<3	.71	.01	.25	3	35
JC99-BK-2	5	52	10	205	.3	4	12	561	7.44	14	<8	<2	2	7	1.0	<3	8	38	.05	.093	6	2	.65	93	<.01	4	3.04	.01	.38	<2	8
JC99-BK-3	3	24	31	65	.4	5	6	758	3.16	3	<8	<2	3	14	<.2	<3	<3	27	.45	.066	6	12	.67	59	.12	<3	.90	.04	.23	4	1
JC99-BK-4	3	15	34	32	<.3	2	3	475	2.43	25	<8	<2	<2	11	<.2	<3	<3	40	.72	.039	4	25	.10	226	.01	3	.51	.01	.19	10	3
JC99-BK-5	<1	10	13	11	<.3	1	1	6006	.17	<2	28	<2	<2	230	.9	<3	<3	1	33.31	.002	9	6	.02	13	<.01	<3	.06	<.01	.04	<2	1
JC99-BK-6	2	3297	11	125	3.0	4	13	2149	3.01	4	<8	<2	2	113	.5	<3	<3	90	2.80	.063	9	10	.59	88	.05	4	1.68	.01	.51	5	10
JC99-BK-7	1	61	1160	1526	11.4	3	6	4982	1.52	<2	<8	<2	2	231	41.6	<3	<3	16	12.72	.023	13	9	.39	730	.03	<3	1.07	.05	.29	<2	91
JC99-BK-8	5	2796	11130	812	21.2	4	3	423	2.38	<2	<8	<2	<2	16	4.3	<3	<3	15	.14	.012	2	28	.12	165	.04	3	.41	.01	.12	13	22
JC99-BK-9	9	343	358	261	4.5	6	8	1528	3.32	4	<8	<2	<2	12	.7	<3	<3	59	.34	.044	5	27	1.11	139	.15	<3	1.27	.01	.15	6	24
JC99-BK-10	7	12141	10496	27713	131.0	2	5	5844	2.38	<2	<8	<2	<2	125	621.1	<3	3	13	12.63	.001	11	13	.10	37	<.01	<3	.21	<.01	.03	<2	670
JC99-BK-11	4	2467	3184	7398	32.2	3	5	8918	1.29	<2	<8	<2	<2	190	143.9	<3	3	13	18.79	.014	15	9	.13	39	<.01	<3	.28	<.01	.03	<2	160
JC99-BK-12	18	52	2034	4174	22.2	1	1	4691	.25	<2	<8	<2	<2	168	113.1	<3	<3	3	16.95	.004	8	6	.02	533	<.01	<3	.11	.01	.08	<2	157
JC99-BK-13	4	274	305	553	2.2	7	3	1132	1.36	49	<8	<2	<2	35	8.2	<3	<3	17	1.24	.014	5	47	.09	446	<.01	<3	.27	.01	.07	10	7
JC99-BK-14	3	2209	24	124	1.4	3	10	2093	2.72	8	<8	<2	6	32	1.1	<3	<3	38	2.77	.064	11	15	.68	228	.01	4	1.67	.02	.56	4	12
JC99-BK-15	52	87	9	65	<.3	3	11	608	2.91	<2	<8	<2	7	9	<.2	<3	<3	49	.18	.068	14	8	.83	160	.05	<3	1.26	.05	.33	2	7
JC99-DR-1	4	3994	12	290	.8	4	8	1869	2.51	5	<8	<2	2	34	1.4	<3	<3	30	.66	.052	6	12	1.00	571	.09	<3	1.71	.01	.35	5	24
JC99-DR-2	6	276	135	11988	.6	5	8	2074	2.57	11	<8	<2	2	27	184.6	<3	<3	25	.31	.045	8	17	1.00	233	.01	<3	1.61	<.01	.32	8	44
JC99-DR-3	20	39	78	83	1.7	4	4	72	1.29	13	<8	<2	<2	402	.9	<3	<3	2	.11	.058	18	31	.01	102	<.01	<3	.09	<.01	.04	12	127
JC99-DR-4	3	11	13	205	<.3	3	2	736	4.23	14	<8	<2	2	20	.6	<3	<3	30	.05	.097	6	7	.93	488	<.01	6	1.93	<.01	.33	<2	3
JC99-DR-5	2	78	2112	3827	.3	3	9	2239	2.03	<2	<8	<2	3	106	30.1	<3	<3	40	4.24	.068	8	14	1.08	277	.17	3	1.84	.01	.15	3	4
JC99-DR-6	<1	11	68	80	1.7	1	3	8820	1.23	13	12	<2	2	243	2.5	<3	<3	17	27.13	.015	20	4	.23	57	.03	<3	.50	.01	.13	<2	15
JC99-DR-7	7	97	1109	1146	60.0	1	1	8233	.41	<2	14	<2	2	251	33.1	<3	<3	5	29.83	.008	13	7	.08	52	<.01	<3	.26	<.01	.14	<2	249
JC99-DR-8	<1	2348	27043	99999	205.2	2	7	3833	1.47	<2	<8	7	<2	111	3789.1	<3	3	11	10.61	.026	6	8	.16	48	<.01	<3	.47	<.01	.13	7	5110
JC99-DR-9	3	4701	7897	81956	173.5	2	62	2645	1.51	18	<8	<2	<2	36	1613.2	6	<3	13	3.29	.017	5	18	.07	35	<.01	<3	.15	<.01	.01	2	900
JC99-DR-10	8	243	3454	11608	23.9	4	4	6556	1.24	<2	<8	<2	2	137	247.1	<3	4	7	13.39	.017	14	13	.05	17	<.01	<3	.11	<.01	.01	<2	92
JC99-DR-11	2	3138	8796	55416	143.8	1	7	6120	.80	<2	<8	<2	<2	213	1342.3	<3	<3	9	13.19	.001	5	10	.04	18	<.01	<3	.10	<.01	.01	<2	360
JC99-DR-12	4	3001	4106	19632	18.6	4	12	3424	4.48	20	<8	<2	2	30	306.8	<3	<3	47	1.83	.086	10	8	.54	163	.02	3	1.26	.01	.37	<2	49
JC99-DR-13	8	827	4520	22405	25.5	2	5	4909	1.01	<2	<8	<2	<2	107	392.5	<3	<3	11	8.32	.012	10	15	.18	86	<.01	<3	.37	.01	.09	3	149
JC99-DR-14	18	514	5910	19734	19.0	5	6	4290	1.80	<2	<8	<2	<2	46	203.9	<3	<3	22	4.07	.027	12	15	.35	177	.01	<3	.67	<.01	.13	3	75
JC99-DR-15	6	3968	7853	33425	44.8	2	5	6676	1.95	<2	<8	<2	<2	118	494.9	<3	3	26	7.97	.024	9	11	.31	57	.02	<3	.65	<.01	.07	<2	107
JC99-DR-16	3	400	1230	5195	8.9	4	11	6511	2.26	22	<8	<2	2	79	80.1	3	<3	42	10.82	.025	6	14	.31	77	<.01	<3	.64	<.01	.10	<2	48
P99-DB-10	8	135	88	414	2.2	43	25	1370	2.85	9	<8	<2	<2	16	4.3	<3	<3	119	.49	.064	1	141	2.38	97	.07	4	2.15	.03	.20	3	440
P99-DB-11	9	181	52	854	.7	30	20	1866	2.47	2	8	<2	2	161	8.0	<3	<3	80	2.09	.150	3	61	1.64	31	.21	5	1.86	.05	.04	3	6
P99-DB-12	1	2678	118	4695	11.5	57	58	4659	5.68	5	9	<2	3	150	43.3	<3	9	161	1.95	.084	2	114	3.69	16	.26	9	3.17	.06	.02	<2	31
STANDARD C3/AU-R	26	68	38	178	5.9	38	13	829	3.48	56	25	3	23	31	25.6	18	21	82	.60	.091	18	176	.62	153	.08	23	1.97	.05	.18	15	490
STANDARD G-2	2	4	<3	46	<.3	9	5	581	2.13	<2	<8	<2	5	89	<.2	<3	<3	43	.73	.100	8	83	.63	248	.13	<3	1.15	.12	.56	2	2

GROUP 1D - 0.50 GM SAMPLE, 3 ML 2-2-2 AQUA REGIA, 1 HOUR AT 95 DEG. C, DILUTED TO 10 ML, ICP-ES ANALYSIS. LEACH IS PARTIAL FOR SOME MINERALS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* GROUP 3A - 10.00 GM SAMPLE, AQUA-REGIA,MIBK EXTRACT, ANALYSIS BY GF/AA.

DATE RECEIVED: SEP 3 1999 DATE REPORT MAILED: Sept 13/99 SIGNED BY: .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data 1 FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Standard Metals PROJECT PINE File # 9903566

606 - 6595 Bonsor Ave, Burnaby BC V5H 4G5 Submitted by: D. Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
G99-DB-1	18	42	234	278	13.8	5	5	1967	2.46	1597	<8	7	<2	637	.3	6	<3	53	25.08	.022	2	3	.66	5	.07	<3	1.09	.01	.09	<2	12000
G99-DB-2	25	74	148	326	40.4	7	8	1968	3.00	263	<8	31	<2	549	7.2	<3	<3	76	21.28	.035	3	4	.89	7	.10	<3	1.47	.03	.12	<2	22500
JC99-DB-1	8	33	63	101	2.6	<1	7	1127	2.28	17	<8	<2	<2	9	1.2	<3	<3	27	.38	.044	6	9	.37	132	.01	<3	.63	<.01	.14	3	164
JC99-DB-2	6	10	20	42	2.2	3	2	365	1.71	9	<8	<2	2	6	<.2	4	<3	22	.13	.034	8	9	.35	98	.01	<3	.68	.01	.17	2	55
JC99-DB-3	<1	45	31	89	3.4	3	5	2537	1.70	5	<8	<2	<2	121	.5	<3	<3	17	6.29	.037	10	7	.51	1052	<.01	<3	.94	<.01	.16	2	23
JC99-DB-4	2	34	267	411	2.4	2	5	1852	2.28	25	<8	<2	<2	48	3.2	<3	<3	29	1.38	.031	4	19	.29	494	.05	<3	.68	<.01	.12	4	40
JC99-DB-5	36	36	132	12	4.0	3	5	65	.94	14	<8	<2	2	375	<.2	<3	<3	5	.13	.080	33	16	.01	183	<.01	<3	.20	<.01	.13	3	396
P99-BK-10	4	24	10	46	<.3	4	3	593	1.34	4	<8	<2	3	159	.6	<3	<3	42	.70	.014	3	16	.73	420	.05	<3	1.86	.05	.26	3	4
P99-BK-11	3	296	<3	424	<.3	13	33	4999	11.19	7	<8	<2	<2	10	<.2	<3	<3	68	.53	.005	1	4	9.85	114	.01	219	.37	<.01	.01	<2	56
P99-BK-12	2	3931	<3	1440	4.7	19	25	1686	2.28	20	<8	<2	<2	106	4.2	<3	3	65	2.66	.163	6	17	3.18	30	.14	18	3.85	.07	.01	<2	239
P99-BK-13	130	382	<3	62	.6	21	16	316	2.66	5	<8	<2	<2	126	1.3	<3	<3	115	3.68	.043	3	14	.31	64	.10	<3	4.75	.38	.13	2	19
P99-BK-14	<1	6156	16	2468	26.6	9	19	1289	23.25	4	<8	5	<2	4	13.8	<3	17	6	.62	.040	5	8	.10	27	<.01	34	.16	.01	<.01	<2	3630
P99-BK-15	1	6559	46	969	72.1	14	7	2772	17.87	83	<8	3	<2	31	5.6	<3	351	13	7.87	.023	5	10	.05	7	<.01	12	.48	<.01	<.01	22	4520
P99-BK-16	16	4113	<3	110	11.9	5	8	513	6.87	6	<8	2	<2	110	2.2	<3	18	116	2.68	.116	9	46	.24	41	.08	<3	1.97	.08	.19	10	1400
P99-BK-17	3	9448	61	407	27.6	34	8	1924	9.98	11	<8	<2	5	79	3.2	<3	47	45	2.40	.140	12	24	1.70	5	.03	<3	1.65	.01	.01	22	700
P99-DR-60	10	96	8	51	.8	4	5	669	2.64	3	<8	<2	12	36	.9	<3	3	53	.37	.074	8	12	.74	60	.08	<3	.97	.05	.12	2	26
P99-DR-61	<1	330	13	63	19.5	5	3	1270	5.05	12	<8	<2	<2	350	.9	<3	43	11	15.60	.028	5	8	.08	4	.03	<3	.69	.01	.01	3	840
P99-DR-62	4	95	7	45	<.3	9	9	531	4.04	4	<8	<2	4	27	1.3	<3	<3	111	.99	.122	9	14	1.12	49	.11	<3	1.15	.06	.13	2	35
P99-DR-63	5	89	50	79	.9	4	9	2076	3.65	53	<8	<2	<2	362	.6	<3	<3	34	14.38	.047	5	4	.57	25	.01	<3	.78	.01	.13	<2	37
P99-DR-64	<1	62	5	49	<.3	7	17	584	3.32	5	<8	<2	<2	26	1.5	<3	<3	80	2.99	.060	3	9	.88	22	.10	<3	1.45	.03	.11	3	10
RE P99-DR-64	<1	58	7	48	<.3	6	17	569	3.35	5	<8	<2	<2	26	1.4	<3	<3	80	2.90	.061	3	9	.88	22	.10	<3	1.44	.03	.11	2	5
P99-DR-65	1	3991	5	114	5.9	10	19	753	4.60	10	<8	<2	<2	2	.6	<3	4	30	.94	.057	1	4	1.10	6	.01	<3	.18	<.01	.01	2	439
P99-DR-66	<1	748	<3	141	.5	6	7	1872	1.32	15	<8	<2	<2	275	.7	<3	<3	12	11.83	.012	1	1	8.04	3	<.01	148	.03	<.01	<.01	<2	43
P99-DR-67	<1	2733	14	130	17.0	8	7	1875	22.06	29	<8	9	<2	5	.3	<3	41	5	5.18	.027	7	6	.08	9	<.01	33	.24	<.01	<.01	12	11000
P99-DR-68	6	2660	7	372	7.1	22	7	3526	11.56	15	<8	<2	<2	3	2.5	<3	6	37	11.23	.038	3	13	.08	4	.04	<3	.68	<.01	<.01	3	710
P99-DR-69	15	30	20	6	1.5	3	<1	49	.78	11	<8	<2	<2	187	.2	<3	<3	1	.10	.024	6	29	.04	545	<.01	<3	.14	.01	.13	4	116
P99-DR-70	106	225	2708	4013	7.3	5	6	4607	2.57	109	<8	<2	<2	575	47.5	<3	<3	35	20.70	.017	6	4	1.00	78	<.01	<3	1.04	<.01	.06	<2	97
STANDARD C3/AU-R	28	67	35	168	6.1	38	11	810	3.64	57	25	3	22	29	25.3	18	25	76	.55	.095	16	177	.59	141	.08	21	1.80	.04	.16	14	469
STANDARD G-2	2	3	<3	41	<.3	8	4	519	2.06	<2	<8	<2	5	72	1.2	<3	<3	38	.58	.102	7	82	.55	221	.11	<3	.88	.07	.50	2	9

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* GROUP 3A- 10.00 GM SAMPLE, AQUA-REGIA/MIBK EXTRACT, ANALYSIS BY GF/AA.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 20 1999 **DATE REPORT MAILED:** Sept 29/99 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Standard Metals PROJECT PINE File # 9903270R

606 - 6595 Bonsor Ave, Burnaby BC V5H 4G5 Submitted by: D. Blann

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag** gm/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au** gm/t
JC99-BK-8	<.001	.256	.97	.07	21.0	.001	<.001	.04	1.76	<.01	<.01	<.01	<.001	<.001	<.01	.04
JC99-BK-10	.001	1.200	1.00	2.53	123.7	.001	<.001	.59	2.37	<.01	<.01	<.01	.051	<.001	<.01	.73
JC99-DR-2	.001	.025	.01	1.12	<.3	<.001	<.001	.18	2.18	<.01	<.01	<.01	.017	<.001	<.01	.03
JC99-DR-8	<.001	.260	5.78	14.93	2226.1	<.001	<.001	.42	1.56	<.01	<.01	<.01	.338	<.001	<.01	7.99
JC99-DR-9	<.001	.433	.70	6.85	159.8	<.001	.005	.24	1.49	<.01	<.01	<.01	.127	.001	<.01	.96
JC99-DR-10	.001	.024	.34	1.14	23.2	.001	<.001	.68	1.24	<.01	<.01	<.01	.021	<.001	<.01	.10
JC99-DR-11	<.001	.325	.87	4.88	154.0	.001	<.001	.65	.81	<.01	<.01	<.01	.121	<.001	<.01	.40
JC99-DR-12	.001	.288	.38	1.83	17.1	<.001	.001	.32	4.38	<.01	<.01	<.01	.025	<.001	<.01	.04
JC99-DR-13	.001	.080	.42	2.09	23.5	.001	<.001	.47	.98	<.01	<.01	<.01	.033	<.001	<.01	.12
JC99-DR-14	.002	.048	.53	1.78	16.6	<.001	<.001	.39	1.73	<.01	<.01	<.01	.017	<.001	<.01	.06
JC99-DR-15	.001	.380	.74	2.94	41.0	.001	<.001	.66	1.94	<.01	<.01	<.01	.039	<.001	<.01	.09
RE JC99-DR-15	.001	.379	.72	2.93	40.7	<.001	<.001	.66	1.93	<.01	<.01	<.01	.040	<.001	<.01	.09
P99-DB-18	.007	.444	.13	1.90	14.7	.002	.002	.17	2.47	<.01	<.01	<.01	.015	<.001	<.01	.02
P99-DB-21	.005	9.608	.01	1.48	88.5	.005	.003	.46	13.71	<.01	<.01	<.01	.018	<.001	.01	.13
P99-DR-28	.005	.066	.22	1.04	478.2	.003	.001	.07	1.49	<.01	<.01	<.01	.010	<.001	<.01	.96
P99-DR-29	.001	.865	1.86	1.80	16.0	.002	.002	.25	2.89	<.01	<.01	<.01	.020	<.001	<.01	<.01
P99-DR-30	.009	.179	2.92	1.13	54.1	.002	.001	.10	1.24	<.01	<.01	<.01	.011	<.001	<.01	.02
P99-DR-36	.011	.188	.25	1.99	11.7	.007	.003	.35	3.68	<.01	<.01	<.01	.020	<.001	<.01	.01
P99-DR-37	<.001	1.813	.01	.97	61.1	.010	.004	.48	8.42	<.01	<.01	<.01	.009	<.001	<.01	.01
P99-DR-38	.001	2.039	<.01	.22	29.6	.002	.001	.50	4.45	<.01	<.01	<.01	.003	<.001	<.01	.24
P99-DR-39	.001	7.478	.15	.88	325.3	.005	.003	.17	15.34	.01	<.01	<.01	.009	<.001	.01	3.63
P99-DR-40	.001	1.389	.21	1.34	32.0	.004	.003	.52	5.54	<.01	<.01	<.01	.013	<.001	<.01	.01
P99-DR-41	<.001	.189	1.26	1.50	57.3	.006	.002	.29	2.51	<.01	<.01	<.01	.016	<.001	<.01	7.41
STANDARD R-1/AU-1	.089	.836	1.31	2.14	99.6	.025	.025	.08	6.44	.97	.01	.01	.044	.154	.03	3.43

GROUP 7 - MULTI ELEMENT ASSAY - 1.000 GM SAMPLE, AQUA - REGIA DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 7 1999 **DATE REPORT MAILED:** Oct 15/99 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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