RD.

PROSPECTING REPORT

- on the -

DOK 1 to DOK 6 MINERAL CLAIMS

Record No's 4699 - 4704

LIARD MINING DIVISION, B.C.

NTS: 104G/12E



Latitude: 57 ° 30' N Longitude: 131 ° 34' W

OWNER: CONTINENTAL GOLD CORP.

OPERATOR: PACIFIC RIM MINING CORP. SMI 89-0100399-163

by:

Mr. John Mirko

GEOLOGICAL BRANCH ASSESSMENT REPORT



September 12, 1989 Vancouver, British Columbia

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INTRODUCTION:

During the period June 16, June 23, 1989, prospecting, geological reconnaissance and stream sediment sampling was carried out on all the claims in the "Dok" group (Dok 1-6). One day, June 18, 1989, was spent in camp preparing samples due to poor flying weather. The claims cover rocks geologically favorable for the presence of base and precious metal deposits of economic interest.

The claims are located in the Dokdaon and Strata Creek area of the Stikine River System in Northern B.C.

Access is via helicopter from Telegraph Creek (50 km NE), or Galore Creek Stikine Copper Camp (50 km SW). Galore Creek is equipped with 2 landing strips capable of handling single or twin otter type fixed wing aircraft at the time of this writing.

The claims are owned by Continental Gold Corp. with Pacific Rim Mining Corp. operating same under an option agreement.

<u>(</u>	<u>CLAIMS</u>	RECORD NO.	RECORD DATE
DOK :	1 - DOK 6	4699 - 4704	June 27, 1989



SUMMARY:

The property was last worked by Swiss Aluminum Mining Company of Canada Ltd., and Empire Metals Corporation Ltd. (N.P.L.), in the period 1970 to 1973 who carried out geological, geochemical, geophysical, trenching and minor diamond drilling on selected portions of the property. Most of the work was carried out on zones located outside Continental Gold Corp.'s property, but surrounded by the "Dok" claims.

At the request of Pacific Rim Mining Corp., the writer carried out geological reconnaissance, prospecting, rock sampling and limited stream sediment sampling. This work was done to satisfy assessment work requirements as well a providing recommendations for future work.

The writer obtained information of this report by prospecting and sampling various portions of all claims in person and with help from 3 additional field assistants.

Previous knowledge was gained by the writer while employed by Sumitomo Metal Mining Canada Limited, in the Dokdaon and Strata Creek area in 1973.



AREAS PROSPECTED AND OBSERVATIONS:

The only outcrops observed by the writer and the crew during exploration work are confined to the ridge tops and extremely rugged and deeply incised upper portions of various creeks.

Overburden was found, for the most part, to be at least 1 meter thick, composed mostly of talus on the slopes and river gravels and organics near Dokdaon and Strata Creeks. Overburden overlies about 80 - 85% of the claims.

The outcrops observed on the property are mostly andesitic and felsite type rocks. Minor limestone, siltstone, and argillite was observed on one area. Younger dykes of andesite, granite, and rhyolite were found cutting all rock types.

An intrusion of granodiorite is exposed on the southern part of the claims in contact with the volcanic rocks.

Much of the country rocks have been metamorphosed to some degree with original rock textures and grains being obscured somewhat.

Dykes of rhyolite (sills in some cases) cut the volcanics and sediments in various locations (see Figure #3), and in most cases trend 165 ° strike. One dyke was found cutting granodiorite.

All dyke and granodiorite contacts are sharp.

Mineralization was found in the most part to consist of pyrite rich altered volcanics and sediments near intrusive contacts one shear/fault zone was found to contain quartz, carbonate, pyrite, chalcopyrite, magnetite and minor sphalerite mineralization in discreet 0.5 meter wide and 1.0 meter long lenses separated by tens

of meters of barren sheared rock. The shear was examined by helicopter, with mineralization examined on float.

Other mineralization consists mostly of 1 cm. quartz veinlets containing pyrite and minor malachite and well fractured volcanic rocks containing minor malachite localized at intrusive contacts.

GEOCHEMICAL SAMPLING:

12 stream sediment samples were collected from the main creek drainages to localize areas of interest. For the most part they consisted of grey brown coarse silt and sand with numerous rock fragments present. Each sample was collected in a large plastic sample bag containing about 10 kg of wet sample. The samples were taken back to camp, and sieved to 5 mesh resulting in about 20% of each sample being rejected. The remaining samples went whole to the analytical laboratory.

The sediment samples were analyzed by 30 element I.C.P. and geochemed for P.P.B. Au.

12 rock samples were collected from various parts of the property of which 9 were float found below inaccessible outcrop areas in gullies. These samples were analyzed the same as the sediment samples.

All sample locations are plotted on Figure #3. Most results are not plotted due to lack of interesting values.



Figure 4: Geology of the Dokdaon Creek Project Area, (After Souther, 1972)

QUATE	RNARY	 Undifferentiated volcanio and sedimentary rocks (units 5 to 8 lociusive)
29	Flyintile gravel; sand, silt; glattel outwash, till, sipine moraine and colluvium	B Augite-anderits flows, pyroclastic rocks, derived velcaniclastic rocks and related subvolcanic intrusions; misor greywacks, silisions and polymicute
28	Roi-spring deposit, iuis, gragoatte	conglomerate
27	Olivies basali, reisted pyroclastic rocks and loose tephra; younger than some of 29	7 dolomictia milistone, greywacks, valcania congiomerata, and minor limestone
TERTI/	NRY AND QUATERNARY	6 Limestore, ford argineccous limestore, calcareous shale and reefold limestore; may be in part younger than some 7 and 3
26	PER INER AND PLEDS COLORS Rhyolite and dants flows, lave domes, pyroclassic rocks and related sub- volcanic intrusions; minor basalt	5 Greywacke, slitstone, shale; minor conglomerate, tuff and volcanic sandstone
25	Easelt, olivine baselt, decite, related pyroclastic rocks and subvolcanic intrustons; minor rhyoille; is part younger than some 25	MIDDLE TRIASSIC Shale, concretionary black shale; minor calcareous shale and elitatone
CRETA UPI	CEOUS AND TERTIARY SER CRETACEOUS AND LOWER TERTIARY SLOKO GROUP Light green, purple and white rhyolite, trachyte and desite flows,pyroclastic rocks and derived sediments	PERMIAN MIDDLE AND UPPER PERMIAN Limestone, thick-bedded mainly bioclastic limestone; minor silistone, chert 3 end tulf
22 23	22. Diolite leucogramite, subvoluanic stocks, dykes and stils 23. Porphyritic biotite andesite, lava domes, flows and (7) sills	PERMIAN AND QLDER Phyllito, arguiacsous quartzils, quartz-sericite schist, chlorite schist, greepstone, minor obert, schistors tuff and limestone
21	Sosiol GROUP Chert-pebble conglomerate, granute-bouider congiomerate, quarizose sandstone, arkose, silisione, carboascoous shale and minor cosi Felsite, quartz-feidepar porphyry, pyritiferous felsite, orbicular rhyolite; in	MISSISSIPPIAN Limestone, crinoidal limestone, ferruginous limestone; marcos tuff, chert 1 and phylitie
19	part equivalent to 22 Medium-to coaree-grained, pink biotite-borableade quarte montonite	B Amphibolite, amphibolite gneiss; age unknown probably pre-Upper Jurassie Ultramatic rocks; peridotite, dunite, serpentinite; age unknowe, probably
TURASS POS	SIC AND/OR CRETACEOUS ST-UPPER TRIASSIC PRU-TERTIARY	
18	Normblands diorita	Geological boundary (defined and approximate, assumed)
17	Granodiorite, quartz diorite; minor diorito, leucogranite and migmatite	Anticline
JURASS		Fault (defined and approximate, assumed)
15	DOWSER CROUP DOWSER CROUP Chort-pebble conglomerate, grit, greywacke, aubgreywacke, silistons and their provide come 13	Thrust fault, teeth on hanging-wall side (defined and approximate, assumed).
 15	DDLE JURASSIC Basalı, pillow lava, iufi-breccia, derived volcaniciastic rocks and related orbiologic istructure	Giscier
LOV	WER AND MEDDLE JURASSIC Shale, minor silistone, siliceous and calcareous slitetone, greywacks and ironstone	
L.OV	VER JURASSIC Cooglomerais, polymictic conglomerate; granite-boulder conglomerats, grit, greywacks, silistone; basalitic and andeettic volcanic rocks, poperitos, pillow-breacts and derived volcaniclastic rocks	
FRIASSI 705	IC AND JURASSIC T-UPPER TRIASSIC PRE-LOWER JURASSIC	
:2	Symile, orthoclass porphyry, monzonits, pyroxenite	
ווןפי	RICNMAN BATROLITH 10. Hornblende granodiarite, minor hornblende-quartz diorite 11. Hornblende, quartz diorite, hornblende-pyroxene diorite, amphibolite and pyroxene-bearing amphibolite	

Legend for Geological Map in Figure 3, (After Souther, 1972) Figure 💻:

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RIASS UPF	ic Per trias	ssic				
9	Undiffere	ati e la	ed volc	inio and	sedimentary	r ç
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υP	PER TRIASSIC	•
	Undifferentieted volcanin and sedimentary rocks ((units 5 to

flows, pyroclastic rocks, derived volcaniclastic rocks and mic intrusions; minor greywacks, silisions and polymicito

1	
Dadifferentisted volcanio and sedimentary rocks (units 5 to 8 inclusi	¥#)

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LEGEND

RESULTS AND CONCLUSIONS:

One area on the DOK 3 ~4 claims appears to warrant further work. This area contains sample no's 2954 and 2955 which are taken from across A Z M width (random chip samples) of epidote altered andesitic rock containing numerous <1 cm quartz carbonate veinlets of random orientation. Sample no. 2954 contained visible minor malachite and < 5% pyrite, with sample No. 2955 containing no apparently visible metallic minerals other than about 3% pyrite. The mineralized area appears to be about 4 meters wide and 60 meters long with both samples taken in the middle of the zone across full width.

The highest values obtained were from sample No. 2951 which gave over 14,000 p.p.m. copper and 42 p.p.m. silver. It was obtained from a float sample of sheared volcanic rock of mostly andesitic composition containing about 10% pyrite, <.5% chalcopyrite and moderate malachite and azurite staining. The origin of this sample was not sampled but it is probably from a small shear zone explored (visible from air) on bluffs at the headwaters of the creek containing silt sample no. 2974.

No rock or sediment samples were found (from authors experience in area) to be anomalous in gold.

It is apparent from the results that much of the claim area is not anomalous for gold and therefore further work should be restricted to areas not yet tested or prospected.

Sample No. 2951 is probably not of interest as the size of the shear zone (less than 2 m) of possible origin is small and extends off the property as well as the fact that nil gold is present.

ITEMIZED COST STATEMENTS

DOK 1 and 2 claims, June 16 - 23, 1989 Field Work	-
WAGES: 1 Project Manager, Prospector - J. Mirko 2 field days @ \$200.00/day (travel to different prov.) 0.5 office days @ \$200.00/day	400.00 100.00
1 Prospector - H. Tremblay 1 travel day @ \$175.00/day 3 field days @ \$175.00/day	175.00 525.00
1 assistant - R. Redavid 1 field days @ \$125.00/day	125.00
1 sampler - M. Yurko 1 field day @ \$125.00/day	125.00
ROOM AND BOARD:	
7 mandays @ 130.00/day Stikine Copper Ltd. Camp, Galore Creek	910.00
AIRFARE:	
- Galore Creek to Smithers (Manager & Prospector)	450.00
SUPPLIES: (bags, shovels, axe, saw, flagging, etc.)	63.60
HELICOPTER: .9 hour @ \$806.00/hour	725.40
ASSAYS: 11 samples @ \$24.00/sample	264.00
REPORT TYPING, ETC.: (1/2 total)	75.00
SAMPLE AND EQUIPMENT SHIPPING: (1/2 total)	450.00

DOK 1 and 2, TOTAL ALLOCATED COSTS \$ 4,388.00

Respectfully submitted,

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ITEMIZED COST STATEMENTS

DOK 3, 4, 5, and 6 claims, June 16 - 23, 1989 Field Work.

WAGES:	1 Project Manager, Prospector - J. Mirko 1 travel day @ \$200.00/day 2.5 field days @ \$200.00/day 0.5 office days @ \$200.00/day	\$ 200.00 500.00 100.00
	l Prospector - H. Tremblay 1 travel day @ \$175.00/day 3 field days @ \$175.00/day	175.00 525.00
	1 assistant - R. Redavid 2 field days @ \$125.00/day	250.00
	1 sampler - M. Yurko 1 field day @ \$125.0/day	125.00
ROOM AND I	BOARD:	
	9 mandays @ 130.00/day Stikine Copper Ltd. Camp, Galore Creek	1,170.00
AIRFARE:	 Vancouver to Smithers/jet Smithers to Galore Creek (Manager & Prospector) 	228.00 450.00
ACCOMMODA	FION: 1 night, Manager - Smithers	44.00
SUPPLIES:	(bags, shovels, axe, saw, flagging, etc.)	40.50
HELICOPTE	R: 4.25 hours @ \$806.00/hour	3,425.50
ASSAYS:	13 samples @ \$24.00/sample	312.00
REPORT TYI	PING, ETC.: (1/2 total)	75.00
SAMPLE ANI	D EQUIPMENT SHIPPING (1/2 total)	450.00
	DOK 3,4,5, and 6, TOTAL ALLOCATED COSTS	\$ 8,070.00

Respectfully submitted,

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September 12, 1989

QUALIFICATIONS

John M. Mirko 811 Prospect Avenue North Vancouver, B.C. V7R 2M2 Phone: 986 - 4821 Previously Employed by: 1972 Manex Mining Ltd. 1972 - 1973Sumitomo Metal Mining Canada Ltd. Kerr Addison Mines Ltd. 1974-1975 1976 Newconex Ltd. 1977-Present Consulting Experience in: Total property evaluations, consulting, etc. Mine development, contracting Supervision Construction All phases of exploration Duties included: Line cutting, claim staking, blasting, first aid, surveying, percussion and diamond drilling, camp management, geochemical and geophysical surveys, prospecting, geological mapping, bedding and structure interpretation, core logging, grade and tonnage calculations, drill management, underground rehabilitation and development, road construction, bridge construction, geotechnical surveys for water storage dams, tailings dams and mill sites, property acquisitions, property sales. Type of Deposits Worked: Skarns - Au, Ag, Pb, Zn, WO , U O , Fe, Sn Veins - All minerals Stataform Replacement - Pb, Zn, Cu, Ag, Ba Volcanic Bedded Massive Sulphide - Pb, Zn, Cu, Au, Ag Disseminated - Au, Ag, U₂Og, Fe Porphyry - Cu, Mo, Ag, Au WO3 Industrial - Ba, Lime, MgCo3, CaF2.

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- JURY, R.G., Assessment Report No., 3029, EWK, LLE, and DOK claims, 1970.
- MIRKO, J.M., Unpublished notes, Dokdaon and Strata Creek Prospecting and Sampling Traverses, 1973.
- SCHIELLY, H. Assessment Reports No. 3846, 3847, PR and GU Groups, 1972.
- ULRICH, G.D., Assessment Report No. 3238, DON and DOK Groups, 1971.

APPENDIX I

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GEOCHEMICAL ANALYSIS CERTIFICATE

NOR 1-1. CONNES.

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3NL 3-1-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR AND IS DILUTSD TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MM FE SR CA P LA CR MG BA TI B W AND LIMITED FOR MA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK AU* ANALISIS BT ACID LBACH/AA FROM 10 GM SAMPLE.

PACIFIC RIM MINING CORP. PROJECT DOK File # 89-2382

SAMPLE	P	lo C PN PP	1 1 1 ?1	PD PN P	26. 94	Ag PPM	¥i PPK	CO PPN	Ka PPN	7e 1	λs 2PM	U Pêk	A U Pen	US 1993 1993	SC Ppy	60 Baa	SD PPN	Bİ PPH	P ? M V	Sa 1	₽ ₹	La PPN	Cr PPN	Hg	88 899	71 3	B PPN	41 1	Na J	K ł	¥ PPH	Au * 228
Q 2951	•	7 1400	;√ ₁ ,	00 1	38	42.37	33	22	658	6.13	122	5	ND	2	20	2	35	8	36	. 75	.092	2	(8	.55	15	.09	2	.65	.02	.07	1	22
2 2952		3 3	} :	14	38	. 2	3	8	556	2.47	8	5	ND	1	19	1	2	2	23	. 89	.042	16	- 4	. 63	57	.01	2	. 58	. 02	.13	t	1
Q 2953		2 14	3	32	\$1	1.1	32	25	578	3.42	14	5	ЯÐ	3	44	1	2	2	11	3.11	.05B	6	32	1.48	35	.09	Z	.62	.02	. 69	1	6
0 2354	1.	2 132	2	33	82	4.8	32	18	633	5.45	51	5	ЭD	1	11	1	12	1	90	.40	.081	3	102	1.43	30	.20	5	1.33	. 02	.07	L	25
Q 2955		1 38	1 :	12 1	21	. 1	56	21	1073	5.12	10	5	80	1	43	2	2	2	156	3.32	.108	6	134	2.98	8	.22	2	2.56	.02	.05	1	23
Q 2956		5 23	: \$	96 1	27	1.0	26	22	751	11.13	24	5	ND	2	21	3	2	2	157	.21	.158	6	50	1.58	109	.16	2	2.33	.01	.08	L	10
Q 2957		3 25		53 I	49	1.3	22	30	1218	7.79	35	5	ND	1	38	2	2	2	129	.46	.136	7	25	1.85	156	.19	2	2.17	.02	.07	1	25
Q 2958	••	2 9	1	15	67	. 5	10	11	{19	5.02	16	5	ND	l	17	1	2	2	135	. 21	.049	2	11	1.64	33	. 24	2	1.55	.02	.03	158	9
Q 2959		1 13	5	53 1	60	.7	45	13	881	8.00	19	5	ND	1	- 24	2	2	2	139	.64	.119	5	129	2.46	62	.23	2	2.56	. 03	.06	1	7
Q 2960		1 216	2	1 I	29	.5	29	24	1089	5.57	21	5	ЯD	1	24	2	2	2	152	. 50	.110	7	23	2.02	156	.15	2	2.46	. 02	. 09	ł	22
Q 2951		1 5) 1	10	12	. 3	72	19	975	4.38	7	5	ЯĎ	1	49	1	2	2	89	1.53	. 099	9	91	2.53	54	.17	2	2.4D	.03	.05	1	1
Q 2952		4 53		1	48	.1	23	11	102	3.95	11	5	ND	1	32	1	2	2	58	1.22	.099	6	56	.76	50	.13	2	. 94	. 92	. 66	1	21
Q 2963		1 13	2	20 1	29	. 2	14	21	1012	4.53	19	5	ND	2	49	ł	2	2	90	1.11	.990	9	13	2.32	58	.16	5	2.52	.03	. 86	2	1
Q 2964		1 91		9 :	33	. 2	19	12	640	1.18	10	5	ND	3	19	1	2	2	105	. 79	.080	7	32	1.47	108	.11	5	1.79	.03	.07	1	8
Q 2955	4	1 219	i	25	52	.1	24	33	515	5.17	15	5	ND	3	25	1	2	2	85	.75	.073	4	30	1.22	25	.21	2	.98	.94	.05	1	14
Q 2965		1 96	I	2	32	.1	33	17	733	4.11	10	5	ND	ŧ	44	2	2	2	38	ĩ.15	.081	9	51	1.91	100	.16	2	2.12	,03	. 06	1	1
Q 2957		3 9!	1	0	5.	. 2	29	14	\$23	3.52	16	5	ND	4	- 34	1	2	2	57	1.19	.071	10	31	1.24	154	.10	2	1.32	.03	.05	1	2
Q 2968	- 1	1 164	1	.2	59	. 2	24	26	111	3.39	9	5	ND	l	30	1	2	2	24	.94	.955	6	8	. 19	15	.17	2	. 80	. 09	. 02	2	2
Q 2969		1 91	' 1	8 1	30	. 2	58	23	1150	5.76	10	5	ND	2	47	1	2	2	128	1.92	.094	1	87	2.89	65	.17	2	3.37	.05	.08	1	1
Q 1970		3 131	2	0	26	.1	44	10	186	2.31	11	5	NÐ	2	221	1	2	2	34	2.96	.026	5	23	.34	35	.17	3	(.31	. 23	, 04	1	1
Q 2971		3	5	H	62	.1	5	ł	173	. 18	S	5	ND	17	4	1	2	2	2	.04	.002	5	5	.04	39	.01	2	.28	.03	.15	1	2
Q 2972		1 15	1	.1	60	.1	27	10	111	3.18	1	5	ND	1	225	1	2	2	72	1.51	.089	3	25	1.58	6	.22	3	2.16	.01	. 01	3	1
Q 29"2	ı	9 125	19	4 5	19	2.0	17	20	910	5.40	18	5	ND	2	51	3	2	2	110	1.60	.143	13	48	1.15	212	. 01	5	1.66	.03	.03	1	1
0 2974		1 21	ł	1 (58	.1	20	9	949	3.05	18	5	¥D	- 4	100	1	2	2	52	8.37	.051	8	8	2.11	177	.91	2	.0	.01	.11	t	- E
STD C/AU-R	1	9 63	4	3 1	33	1.2	70	31	1055	1.01	43	22	8	36	50	19	15	20	58	.50	.094	- (1	57	. 90	179	.98	39	1.93	.06	.14	12	505

- ASSAY REQUIRED FOR CORRECT RESULT -

- Pref SKUPLES.

APPENDIX II

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APPENDIX 2

ROCK SAMPLE DESCRIPTIONS

2951	ROCK	FLOAT	Propylitic sheared andesite cut by qtz. carb., ankerite veinlets in 10% Py, malachite
2953	ROCK	FLOAT	Shear dk. grey volcanic, minor qtz. veilets, <5% Py., some malachite.
2954	ROCK	2 m	Epidote rich andesite, Qtz. veinlets, <5% Py, some malachite.
2955	ROCK	2 m	Same as 2954, less malachite.
2956	ROCK	FLOAT	Pyrite rich <40% quartz, sheared volcanics.
2957	ROCK	FLOAT	Rusty sheared argillite, <10% Py., siliceous.
2958	ROCK	FLOAT	Hornfelsed volcanics, Dk green, <5% Py, <10% qtz.
2959	ROCK	FLOAT	Ryolite dyke, <5% pyrtie, <1% magnetite.
2960	ROCK	FLOAT	Sheared andesite, minor malachite, <5% Py, rusty.
2965	ROCK	FLOAT	Rusty sheared siltstone, <3% Py.
2968	ROCK	FLOAT	Rusty granite dyke? <5% Py, Pale grey, bleached.
2973	ROCK	FLOAT	Quartz rich sheared volcanics minor Zn, <3% Py.



	2974	2968 2954 2954 2955 200 2955 200 200 200 200	~~ 3				
LEG GRANGDIORTE. ANDESITE (IN PART AUGITE). NORNFELSED VOLCANICS (UNDIFFERENTIATED). HORNFELSED ARGILLITE (SOME SILTSTONE?). BIOLITIC DYNES AND SILLS.	EEND PY MORE THAN 5% FYRITE, USUALLY RUSTY. CU MALACHITE AND MINOR ((12) CHALCOPYRITE. M MAGNETITE, LESS THAN 2% MOSTLY. CI 2973 FLOAT ROCK SAMPLE LOCATION AND MO.	SCALE		J C SAMPI	212 -E LOCI AND	28	
ASSUMED GEOLOGICAL CONTACT. OBSERVED OUTCROP BOUNDARY. CLAIM LINE, DOK' BOUNDARY STREAM/CREEK AND FLOW DIRECTION. ASSUMED BOUNDARY OF OTHER CLAIMS. FOT TRAVERSE ROUTES.	X 2974 STREAM SEBIMENT SAMIFLE LOCATION AND NO. A 2954 ROCK SAMPLE LOCATION AND NO. 70° STRIKE AND DIP (14,000 PPM CU) GEOCHEMICAL ASSAY RESULT FOR COPPER SHEAR / PAULT ZOME CLAIM CORNER WITH INITIAL POST	METRES	DOK 1 DRAWN 557 J. MIRKO	DATE JAN. 5, 1990	NATION I	MAP .IARD 1	M.D. N.T.S. 1046/12E

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