

115-P-15

ASSESSMENT REPORTS

Mayo M.D.

MAP No.

TYPE OF WORK: Diamond Drilling

REPORT FILED UNDER

Cominco Ltd.

090713

DATE PERFORMED

July 1 - August 15, '79 DATE FILED: March 4, 1980

LOCATION - LAT.

63° 50' N

LONG.

136° 35' W

CLAIM Nos.

The A and SP Group

WORK DONE BY

S. B. Butrachuk

WORK DONE FOR

Cominco Ltd

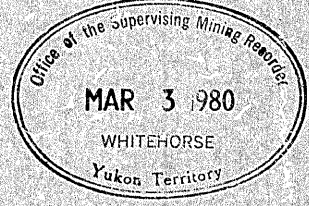
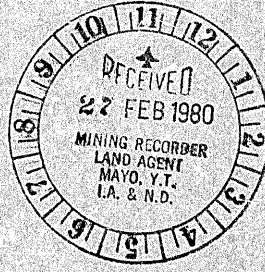
REMARKS

The A and SP claim groups lie along Sunshine
Creek, between Boulder and Sprague Creeks, about 45 km

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northwest of Mayo. The claims are underlain by quartzite, and quartz-biotite-chlorite schist of probable Upper Proterozoic age, and by Cretaceous (?) quartz monzonite. In 1979, four NQ holes totalling 542.8 metres were drilled. Minor pyrite and tourmaline were present, especially in fractured quartzite near the intrusive rocks. The best intersections were as follow:

Interval metres	Cu ppm	Sn ppm	Pb ppm	Zn ppm	Ag ppm
1•22	28	197	20	90	1•5
1•52	51	42	6	2760	0•4
1•52	74	1020	54	74	0•5



DIAMOND DRILL ASSESSMENT REPORT ON
THE A AND SP GROUP OF MINERAL CLAIMS
SUNSHINE CREEK AREA, YUKON TERRITORY

MAYO MINING DIVISION

63°50'N LATITUDE; 136°35'W LONGITUDE

PERIOD OF WORK: JULY 1, 1979 TO AUGUST 15, 1979



NOVEMBER 1979

S.B. BUTRENCHUK

090713

DIAMOND DRILLING - 1979

ASSESSMENT REPORT

A AND SP GROUP OF MINERAL CLAIMS

This report is submitted in order to fulfill the requirements for assessment work on the following mineral claims:

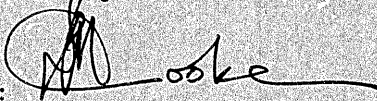
A 1-128, SP 1-40, 42, 53-62, 64, 73-84

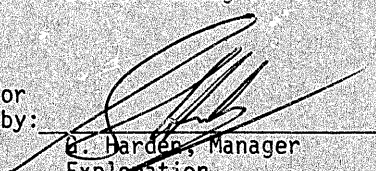
Using a Longyear 34 drill taking NQ core 4 diamond drill holes totalling 1781 feet were drilled on mineral claims A 25, Bix 4, Bix 5 and Bix 6. This drilling was completed during the period July 1, 1979 to August 15, 1979. All core, except those sections shipped to Vancouver for further study, is stored on the property at the 4200 foot elevation level on the bank of Sunshine Creek.

The accompanying diamond drill logs include a geological description of the rocks intersected and are updated by geochemical analyses where these were deemed warranted. All rocks intersected are quartzites, quartz-feldspar porphyry and quartz-mica schists of Proterozoic age that have been intruded by quartz monzonite of Cretaceous age and fine-grained intrusive rocks.

Attached to this report is a Statement of Expenditures incurred during the period July 1, 1979 to August 15, 1979 supported by invoices and an affidavit.

Report by: Stephen B. Butrenchuk
Stephen B. Butrenchuk
Geologist

Endorsed by: 
D.L. Cooke
Senior Geologist

Approved for
Release by: 
G. Harden, Manager
Exploration
Western District

COMINCO LTD.

EXPLORATION
NTS: 115P/15

WESTERN DISTRICT
21 NOVEMBER 1979

IN THE MATTER OF THE YUKON QUARTZ MINING ACT AND
IN THE MATTER OF A DIAMOND DRILLING SURVEY CARRIED OUT ON
MINERAL CLAIMS A 1-128, SP 1-40, 42, 53-62, 64, 73-84
LOCATED IN THE MAYO MINING DISTRICT OF THE YUKON TERRITORY
MORE PARTICULARLY, NTS: 115P/15

A F F I D A V I T

I, STEPHEN B. BUTRENUK, of the City of Port Coquitlam, in the Province of British Columbia, geologist, make oath and say:

1. THAT I am employed as a geologist by Cominco Ltd. and, as such, have a personal knowledge of the facts to which I hereinafter depose;
2. THAT annexed hereto and marked as "Exhibit A" to this my affidavit is a true copy of expenditures on a diamond drilling survey carried out on mineral claims A 1-128, SP 1-40, 42, 53-62, 64, 73-84;
3. THAT the said expenditures were incurred between the 1st day of July 1979 and the 15th day of August 1979 for the purpose of mineral exploration on the above noted claim group.

Sworn Before Me at the City of
Vancouver in the Province of
British Columbia, this 21st
day of January, 1980.

Catherine A. Ho
A Notary Public In and For the
Province of British Columbia.)

Stephen B. Butrenchuk
Stephen B. Butrenchuk
Geologist

COMINCO LTD.

EXPLORATION
NTS: 115P/15

WESTERN DISTRICT
21 NOVEMBER 1979

EXHIBIT "A"

GEOLOGICAL, GEOCHEMICAL AND DIAMOND DRILLING

REPORT ON THE A AND SP MINERAL CLAIMS

SITUATED AT: 63°50'N LATITUDE; 136°35'W LONGITUDE

NTS: 115 P/15

SALARIES:

S.B. Butrenchuk (21 days) \$ 3,000

DIAMOND DRILLING: 58,072

HELICOPTER: 23,780

TOTAL: \$84,852

Signed: Stephen B. Butrenchuk
Stephen B. Butrenchuk
Geologist

This is Exhibit "A" to the Affidavit of Expenditures relating to the Geological, Geochemical and Diamond Drilling Survey declared before me the 21st day of January, 1980 A.D.

Carrie A. Rose

STATEMENT OF QUALIFICATIONS

I, STEPHEN B. BUTRENCHUK, with business address at 409 Granville Street, 7th Floor, Vancouver, British Columbia, do hereby certify that I have supervised the field work and have assessed and interpreted the data resulting from this diamond drilling survey on the A and SP mineral claims.

I also certify that:

1. I am a graduate of the University of Manitoba, B.Sc. 1966 and M.Sc. 1970;
2. I have engaged in mineral exploration since graduation.

Respectfully Submitted:


Stephen B. Butrenchuk, Geologist

Stephen B. Butrenchuk was responsible for supervising the diamond drilling survey described herein. Mr. Butrenchuk received his B.Sc. and M.Sc. from the University of Manitoba in the years 1966 and 1970 respectively. He has worked for Cominco as a permanent employee since January 23, 1970. I consider him to be a competent geologist.


G. Harden, Manager
Exploration, Western District



Drill Hole Record

Property	SUNSHINE CREEK	District	MAYO	Hole No.	SC 79-2
Commenced	July 19, 1979	Location	SUNSHINE CREEK	Tests at	Hor. Comp. 223 feet
Completed	July 25, 1979	Core Size	NQ	Corr. Dip	Vert. Comp. 387 feet
Co-ordinates	1008N & 75W			True Brg.	310°
Objective	To test downdip extension of mineralized breccia zone.			% Recov.	96.12
				Date	July 29/79

Claim A 25

T Brg. 310

Collar Dip -60°

Elev. 4575

Length 447

Hole No. SC 79-2 Sheet 1

Footage From To	Description	Sample No.	Length	Analysis			
0 - 34	Overburden						
34 - 65	Quartz-biotite-chlorite schist: grey to green, moderately foliated, few hairline fractures, occasional cream coloured quartzite band. - foliation at 55° to core axis. - 34-51 broken core - occasional thin (1 inch) band of speckled schist - no visible sulphides.						
65 - 79	Quartzite: chloritic, very light grey, green in sections where chlorite abundant, chloritic sections are moderately foliated, few hairline fractures, no visible sulphides - at 71 - 2 inch band of speckled schist.						
79 - 87	Quartz-biotite schist: thin bedded to laminated parallel to foliation, grey to greenish-brown bands, thin speckled schist layers present throughout, occasional hairline fracture. - foliation at 60° to core axis.						
87 - 98	Quartzite: buff-brown, weakly foliated due to presence of muscovite contains thin quartz-biotite schist bands and chlorite rich bands.						

Drill Hole Record



Property	SUNSHINE CREEK	District	MAYO	Hole No.	SC 79-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg

Collar Dip

Elev.

Length

Hole No. SC79-2 Sheet 2

Footage From	To	Description	Sample No.	Length	Analysis in ppm					
					Cu	Sn	Pb	Zn	Ag	
87	- 98	Quartzite: Continued - at 95 - 2 inch band containing feldspar laths (1-2 mm), quartz grains are 0.5-1.0 mm in size - at 96 - thin fracture (1 inch long) contains pyrite.								
98	- 101	Quartz-biotite-chlorite schist								
101	- 153	Quartzite: buff-brown to green, chloritic, weakly foliated due to the presence of muscovite, occasional quartz veinlet, few hairline fractures. 103-104 quartz-biotite schist 107.5-108.5 quartz-biotite schist at 117.5 quartz becomes clean - absence of chlorite and biotite; oxidized (limonitic) hairline fractures are abundant at 121 minor tourmaline present. 121-153 minor to trace tourmaline occurs locally throughout this section.								
		Assays	117-120	19352E	3.0	46 < 20	6	57 < 4		
			120-124	19353E	4.0	32 < 20	5	38 0.6		
			124-127	19354E	3.0	63 100	16	94 0.7		
			127-132	19355E	5.0	58 < 20	5	227 0.5		

Drill Hole Record



Property	SUNSHINE CREEK	District	MAYO	Hole No.	SC 79-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis in ppm				
				Cu	Sn	Pb	Zn	Ag
	Assays 132-138	19356E	6.0	62	21	4	67	<.4
	138-142	19357E	4.0	68	37	<4	107	<.4
	142-147	19358E	5.0	46	<20	8	77	<.4
	147-153	19359E	6.0	85	32	8	126	<.4
	153-155	19360E	2.0	80	<20	6	245	<.4
153 - 168	Quartz-biotite-chlorite schist: dark grey to dark greenish-grey, in part laminated, foliation is weak to moderately developed. - contact with overlying quartzite at 50° to core axis.							
168 - 170	Contact Zone							
170 - 175	Quartz-feldspar porphyry: cream colour, slight light rusty brown appearance due to oxidation, siliceous, white feldspar phenocrysts up to 4 mm in size.							
175 - 197	Quartzite-quartz-muscovite schist: cream to buff-brown, weakly foliated and fractured, occasional manganese staining along hairline fractures.							
	181-182 biotite rich schistose bands (up to ½ inch thick)							
	182-183 quartz-feldspar porphyry							
	188-197 tourmaline present locally in minor amounts							

Drill Hole Record



Property **SUNSHINE CREEK** District **MAYO** Hole No. **SC 79-2**

Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim
T. Brg.
Collar Dip
Elev.
Length
Hole No. SC79-2 Sheet 4

Footage From To	Description	Sample No.	Length	Analysis in ppm				
				Cu	Sn	Pb	Zn	Ag
	Assays 187-192	19361E	5.0	108	51	12	400	0.4
	192-197	19362E	5.0	110	70	19	591	0.6
197 - 222	Aplite: medium crystalline, cream, quartzo-feldspathic, minor muscovite, weakly griesenized, occasional fracture, trace to minor tourmaline in fractures and as blebs.							
	Assays 197-202	19363E	5.0	34	181	98	93	1.7
	202-207	19364E	5.0	32	169	142	130	3.3
	207-213	19365E	6.0	125	170	181	234	4.2
	213-217	19366E	4.0	28	197	20	90	1.5
	217-222	19367E	5.0	145	92	27	179	1.1
222 - 265	Quartz-biotite-chlorite schist: dark grey, laminated, weakly foliated, occasional thin quartz veinlet; some chlorite present in occasional thin fracture. - laminations at 60° to core axis. 222-223 contact zone; quartz veining common 244-246 minor tourmaline and trace pyrite 246 6 inch speckled schist band 255-257 abundant quartz veining parallel to foliation, pyrite is also relatively abundant 261 4 inch band containing tourmaline							

Drill Hole Record



Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis in ppm				
				Cu	Sn	Pb	Zn	Ag
	Assays 243-247	19368E	4.0	58	63	10	280	0.8
	255-260	19369E	5.0	212	34	5	219	0.6
	260-265	19370E	5.0	178	31	6	349	0.6
265 - 275	Quartzite:							
	broken core, buff-brown, occasional biotite rich laminae.							
	266-267 minor tourmaline present							
	267-268 brecciated							
	Assay 265-270	19371E	5.0	70	<20	5	60	<.4
275 - 239	Quartz-biotite-chlorite schist:							
	dark grey to green, chloritic laminations and bands, foliation weakly developed, trace to minor pyrite.							
	282-290 quartz veining relatively abundant							
	308-310 quartzite band							
	at 314 laminations at 55 ⁰ to core axis.							
339 - 344	Quartz-feldspar porphyry:							
	greenish grey, aphanitic ground mass, phenocrysts of quartz and feldspar up to 1.5 cm in size; comprise 10-15% of the rock.							
344 - 447	Quartz monzonite-porphyritic quartz monzonite:							
	rock varies from medium-grained holocrystalline to							

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No. S.79-2 Sheet 5

Drill Hole Record



Property	SUNSHINE CREEK	District	MAYO	Hole No.	SC 79-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length
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Footage		Description	Sample No.	Length	Analysis in ppm				
From	To				Cu	Sn	Pb	Zn	Ag
		porphyritic, cream to light grey coloured, mafics (biotite) vary from 0-15%, K-feldspar is largely altered to kaolinite, plagioclase is relatively unaltered, some weakly griesenized zones.							
		at 345 trace tourmaline							
		355-362 rock is fresh and unaltered							
		at 357 1 inch band containing tourmaline							
		362-367 rock is badly altered and crumbly							
		378-380 phenocrysts up to 1.5 inch in length.							
		380-386 rock is oxidized; limonitic							
		377-386 occasional thin band of pyrite and tourmaline							
		395-396 broken core							
		396-401 rare pyrite-tourmaline lamination							
		Assays 377-382	19372E	5.0	59	20	14	78	0.4
		382-386	19373E	4.0	106	23	29	139	1.2
		END OF HOLE at 447 feet							

Drill Hole Record



Property	Sunshine Creek	District	Mayo	Hole No.	SC 79-3		
Commenced	July 28, 1979	Location	Sunshine Creek	Tests at	347 and 437	Hor. Comp.	216.0 feet
Completed	August 1, 1979	Core Size	NQ	Corr. Dip	-65 ⁰	Vert. Comp.	380.5 feet
Co-ordinates	1800N + 5050E ("A" zone)			True Brg.	270 ⁰	Logged by	SBB
Objective	To test a breccia zone observed at surface for tin mineralization.			% Recov.	94.6	Date	Aug. 2/79

Claim
Bix 6T Brg.
270⁰Collar Dip
-60⁰Elev.
4900Length
437

Hole No. SC 79-3 Sheet 1

Footage From	To	Description	Sample No.	Length	Analysis in ppm					
					Cu	Sn	Pb	Zn	Ag	
0	- 14	Overburden								
14	- 149	Quartzite, Phyllitic Quartzite: buff to buff-brown, in part micaceous, locally phyllitic, phyllitic horizons have a silvery grey colour, moderately to well foliated, foliation at 45 ⁰ to core axis, occasional quartz stringer, 30% broken core, rare hairline fracture.								
		18 - 19 black argillite band								
		57 - 58 few hairline fractures								
		59 - 62 rock has a light grey colouration; foliation is weakly contorted.								
		at 61 fold in the foliation								
		73 - 74 fault breccia: 1/2 inch - 1 inch thick, at 5-10 ⁰ to the core axis.								
		78 - 82 relative abundant quartz veining (25% of rock volume)								
		79.5 tourmaline and pyrite in a fracture; chlorite also present.								
		Assay 78-83.	19374E	5.0	370	20	22	260	1.1	
		92 - 97 phyllite: grey, core recovery 1.5 feet								
		at 103.5 chlorite bleb								
		at 106.5 4 inch band containing pyrite and tourmaline								
		Assay 105-109	19375E	4.0	555	64	36	172	2.2	

Drill Hole Record



Property Sunshine Creek District _____ Hole No. SC 79-3
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis in ppm					
				Cu	Sn	Pb	Zn	Ag	
	107 -111 phyllite: silvery grey								
	129 -137 rock is dark grey, in part argillite and phyllite								
	136 -136.5 breccia - possibly fault								
	143 single 1/8 inch thick fracture containing tourmaline								
149 - 159	Phyllite: silvery grey, weakly chloritic, quartzitic in part								
	149 -154 abundant quartz veining								
	at 155 tourmaline and minor pyrite in a single fracture								
	at 156 tourmaline and minor pyrite in a single fracture								
	Assay 154-157	19376E	3.0	65	<20	4	93	<4	
159 - 172.5	Quartzite: cream to light grey, phyllitic, few hairline fractures								
172.5 - 184	Quartz-biotite-chlorite schist: dark grey to green in the more chloritic sections, has a reticulate appearance due to both quartz and quartzite lenses, moderately foliated, in part laminated.								
	at 178 foliation at 45° to core axis.								

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No. SC79-3 Sheet 2

Drill Hole Record



Property	SUNSHINE CREEK	District	Hole No.	SC 79-3
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis in ppm					
					Cu	Sn	Pb	Zn	Ag	
184	- 269	Quartzite: cream to very pale grey, in part phyllitic, in part micaceous, contains interlayered phyllite, few fractures only rare fractures are non-hairline. - silvery grey phyllite bands (laminae to 1 cm thick) occur throughout the section; phyllite is locally chloritic. - quartz lenses occur throughout this section.								
		212 -213 broken core								
		212 thin band (less than 1 inch) containing tourmaline and pyrite								
		215 -220 weak to moderately fractured (hairline fractures), tourmaline and pyrite in minor amounts in a few fractures (less than 25%)								
		at 216 minor sphalerite and trace chalcopyrite								
		Assays 210-215	19377E	5.0	63	20	31	243	0.6	
		215-220	19378E	5.0	23	24	30	1973	0.7	
		220-225	19379E	5.0	27	31	47	1902	0.5	
		225-230	19380E	5.0	17	20	28	424	<.4	
		226.5-227.5 2 vugs (1 inch by 1/8 inch) contains pyrite and sphalerite.								
		231 -233 biotite laminae present, highly crenulated								

Drill Hole Record



Property	SUNSHINE CREEK	District	Hole No.	SC 79-3
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Claim
T. Brg.
Collar Dip
Elev.
Length

Footage From	To	Description	Sample No.	Length	Analysis					
					Cu	Sn	Pb	Zn	Ag	
		at 253								
		2 inch thick quartz vein - fractured and contains pyrite and tourmaline								
		254 -257 limonitic coating on much of the core								
		Assays	252-257	19381E	5.0	27	103	21	561	0.5
			257-262	19382E	5.0	67	97	21	1080	0.7
		252 -262 rock contains abundant hairline fractures								
269	- 274	Phyllite:								
		buff-grey to grey, laminated and foliated, few biotite rich laminae, chloritic laminae also present.								
		at 273								
		foliation at 55° to core axis.								
274	- 289	Quartzite:								
		very light grey, phyllite bands present, few hairline fractures and few quartz veins								
		275 -276 white 1.5 mm feldspar laths present (less than 5%), weakly to moderately micaceous (muscovite).								
289	- 296	Phyllite-Biotite Schist:								
		grey laminated, foliated, biotite rich and occasional chlorite rich laminations present, occasional quartz stringer, rare hairline fracture.								
		- laminations at 55° to core axis.								

Scale

Colour Plot
& Dips

Drill Hole Record



Property	SUNSHINE CREEK	District	Hole No. SC 79-3	
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Footage From	To	Description	Samples No.	Length	Analysis					
296	- 299	Quartzite								
299	- 312	Quartz-biotite-chlorite schist: few quartz stringers								
312	- 319	Quartzite: contains minor chlorite at 313								
319	- 340	Quartz-biotite schist: locally phyllitic, grey, laminated and foliated, rare hairline fracture, chloritic, few quartz stringers, trace pyrite throughout.								
		at 331 5 in. thick quartz vein - contains minor chlorite								
		337 -338 few biotite knots								
340	- 344	Quartzite								
344	- 369	Quartz-biotite-(chlorite) schist: grey to dark grey, laminated and foliated, few quartz stringers								
		351 -353 biotite rich quartzite band								
		358 -360 chlorite knots present (5%)								
		364 -368 chlorite knots present in bands having a thickness of 6 inches								

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No. SC79-3 Sheet 5

Drill Hole Record



Property	SUNSHINE CREEK	District	Hole No.	SC 79-3
Commenced	Location	Tests at	Hor. Comp.	
Completed	Core Size	Corr. Dip	Vert. Comp.	
Co-ordinates		True Brg.	Logged by	
Objective		% Recov.	Date	

Footage From To	Description	Sample No.	Length	Analysis in ppm				
				Cu	Sn	Pb	Zn	Ag
369 - 437	Quartzite, phyllitic quartzite, phyllite: interlayered sequence, rock is laminated to thin bedded, weak to moderately foliated, buff-brown to light grey. - at 372 6 inch thick silicified zone containing tourmaline and pyrite 372 -389 fractures containing tourmaline and pyrite 1%; fractures - hair- line to 5 mm in thickness							
	Assays	369-375	19383E	6.0	44	194	6	530 <.4
		375-380	19384E	5.0	13	46	<4	677 <.4
		380-385	19385E	5.0	51	42	6	2760 0.4
		385-388	19386E	3.0	43	55	5	1950 0.4
		388-392	19387E	4.0	27	50	6	1857 <.4
	at 400 2 cm thick fault zone (12 cm long) at 25° to core axis							
	at 423 1 inch zone - contains tourma- linized fractures							
	at 429 1 inch zone - contains tourma- linized hairline fractures.							
	END OF HOLE							

Claim

T. Brg.

Collar Dip

Elev.

Length

Hole No. SC79-3 Sheet 6

Drill Hole Record



Property	SUNSHINE CREEK	District	Hole No.	SC 79-4
Commenced		Location	Tests at	Hor. Comp.
Completed		Core Size	Corr. Dip	Vert. Comp.
Co-ordinates			True Brg.	Logged by
Objective			% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis in ppm				
				Sn	Cu	Pb	Zn	Ag
95 - 100	Quartzite: highly fractured, weakly brecciated, limonitic coatings along fractures. Assay 95-100	19388E	5.0	25	80	77	148	1.3
100 - 102	Phyllite: silvery grey							
102 - 117	Quartzite: weakly micaceous, weakly foliated, light grey, in part phyllitic, few limonite coated hairline fractures.							
117 - 122	Phyllite: light grey, rare quartz stringer 118-119 quartz-feldspar porphyry: weakly foliated, contacts parallel to phyllite							
122 - 168	Quartzite: in part phyllitic, in part micaceous, weakly fractured, occasional quartz stringer or veinlet. 131-132 phyllite: weakly chloritic 136 few tourmalinized hairline fractures 139-150 75% broken core 157-158 quartz vein: rare vug present							
168 - 174	Phyllite							

Drill Hole Record



Property **SUNSHINE CREEK** District _____ Hole No. **SC 79-4**

Commenced _____ Location _____ Tests at _____ Hor. Comp. _____

Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____

Co-ordinates _____ True Brg. _____ Logged by _____

Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis in ppm					
				Sn	Cu	Pb	Zn	Ag	
174 - 185	Quartzite-Phyllitic Quartzite: in part micaceous, rare tourmalinized hairline fracture.								
185 - 222	Phyllite: in part quartzitic, weak to moderately fractured, few fractures contain tourmaline - from 202 - weakly brecciated - 185-202 50% core recovery								
	Assays 185-190	19389E	5.0	55	44	31	145	<.4	
	190-195	19390E	5.0	<20	60	13	259	<.4	
	195-200	19391E	5.0	<20	34	25	40	<.4	
	200-205	19392E	5.0	293	79	90	138	0.4	
	205-210	19393E	5.0	75	100	64	151	0.4	
	210-215	19394E	5.0	300	173	33	61	12.2	
	215-222	19395E	7.0	32	57	101	57	0.4	
222 - 238.5	Brecciated quartzite: vuggy, leached, limonitic coating along fractures and in vugs common, tourmaline present but not abundant.								
	Assays 222-227	19396E	5.0	88	69	83	174	5.0	
	227-232	19397E	5.0	118	180	205	217	1.0	
	232-236.5	19398E	4.5	160	223	86	117	12.5	

Claim _____
T Brg. _____
Collar Dip _____
Elev. _____
Length _____
Hole No. _____
Sheet _____

Scale _____
Colour Plot & Dips _____

Drill Hole Record


 Property **SUNSHINE CREEK** District _____ Hole No. **SC 79-4**

Commenced _____ Location _____ Tests at _____ Hor. Comp. _____

Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____

Co-ordinates _____ True Brg. _____ Logged by _____

Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis in ppm					
				Sn	Cu	Pb	Zn	Ag	
	285-291 core is not severely leached, rock is tourmalinized, pyrite is present.								
	307-311 pyrite and tourmaline common to abundant, rock is relatively unleached.								
311 - 334	Phyllite: silvery grey, well foliated, few fractures								
	311-315 weakly brecciated								
	Assays 311-315	14861I	4.0	301	308	50	93	4.3	
	315-320	3355I	5.0	82	140	105	164	1.5	
	320-322	3356I	2.0	30	114	90	67	2.0	
	320-322 black argillite-siltstone band								
	322-237	3357I	5.0	<20	33	20	26	0.5	
334 - 343	Quartzite: broken core								
343 - 350	Phyllite: badly broken core								
350 - 352	Quartzite								
352 - 384	Quartz-biotite schist: pale grey, laminated, foliated, occasional fracture, few quartz stringers - some have associated chlorite, muscovite is relatively abundant.								

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Drill Hole Record



Property	SUNSHINE CREEK	District		Hole No.	SC 79-4	Claim		T Brg.		Collar Dip		Elev.		Length		Hole No.		Sheet	
Commenced		Location		Tests at		Hor. Comp.													
Completed		Core Size		Corr. Dip		Vert. Comp.													
Co-ordinates		True Brg.		Logged by															
Objective		% Recov.		Date															
Foolage	Description	Sample No.	Length	Analysis in ppm															
From	To			Sn	Cu	Pb	Zn	Ag											
	285-291 core is not severely leached, rock is tourmalinized, pyrite is present.																		
	307-311 pyrite and tourmaline common to abundant, rock is relatively unleached.																		
311 - 334	Phyllite: silvery grey, well foliated, few fractures																		
	311-315 weakly brecciated																		
	Assays 311-315	148611	4.0	301	308	50	93	4.3											
	315-320	33551	5.0	82	140	105	164	1.5											
	320-322	33561	2.0	30	114	90	67	2.0											
	320-322 black argillite-siltstone band																		
	322-237	33571	5.0	<20	33	20	26	0.5											
334 - 343	Quartzite: broken core																		
343 - 350	Phyllite: badly broken core																		
350 - 352	Quartzite																		
352 - 384	Quartz-biotite schist: pale grey, laminated, foliated, occasional fracture, few quartz stringers - some have associated chlorite, muscovite is relatively abundant.																		

Scale

Colour Plot
& Dip

Drill Hole Record



Property	SUNSHINE CREEK	District	Hole No.	SC 79-5
Commenced	Location	Tests at	Hor. Comp.	
Completed	Core Size	Corr. Dip	Vert. Comp.	
Co-ordinates		True Brg.	Logged by	
Objective		% Recov.	Date	

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage		Description	Sample No.	Length	Analysis in ppm										
From	To				Sn	Cu	Pb	Zn	Ag						
		130-133													
		135-140													
		are lined with limonite, some tourmaline present, pyrite is rare or masked by limonite.													
		149-155													
		154													
		2.5 cm band containing tourmaline													
		foliation at 85° to core axis													
		Assays 125-130	3379I	5.0	<20	97	10	172	0.5						
		130-135	3380I	5.0	39	84	51	100	0.7						
		135-140	3381I	5.0	139	67	56	88	5.6						
		140-145	3382I	5.0	22	118	12	135	<.4						
		145-149	3383I	4.0	<20	43	12	67	0.5						
180 -	215	Phyllite, quartzitic phyllite: grey to dark grey, well foliated, laminated in part, contains quartzite bands, laminations at 212-213 contorted.													
		192													
		minor pyrite													
		207-209													
		quartzite													
		211-213													
		laminated quartzite-quartzite; feldspathic													
		Assays 200-205	3389I	5.0	<20	19	<4	60	<.4						
		205-210	3390I	5.0	<20	43	<4	95	<.4						
		210-215	3391I	5.0	<20	52	6	71	0.4						

Drill Hole Record



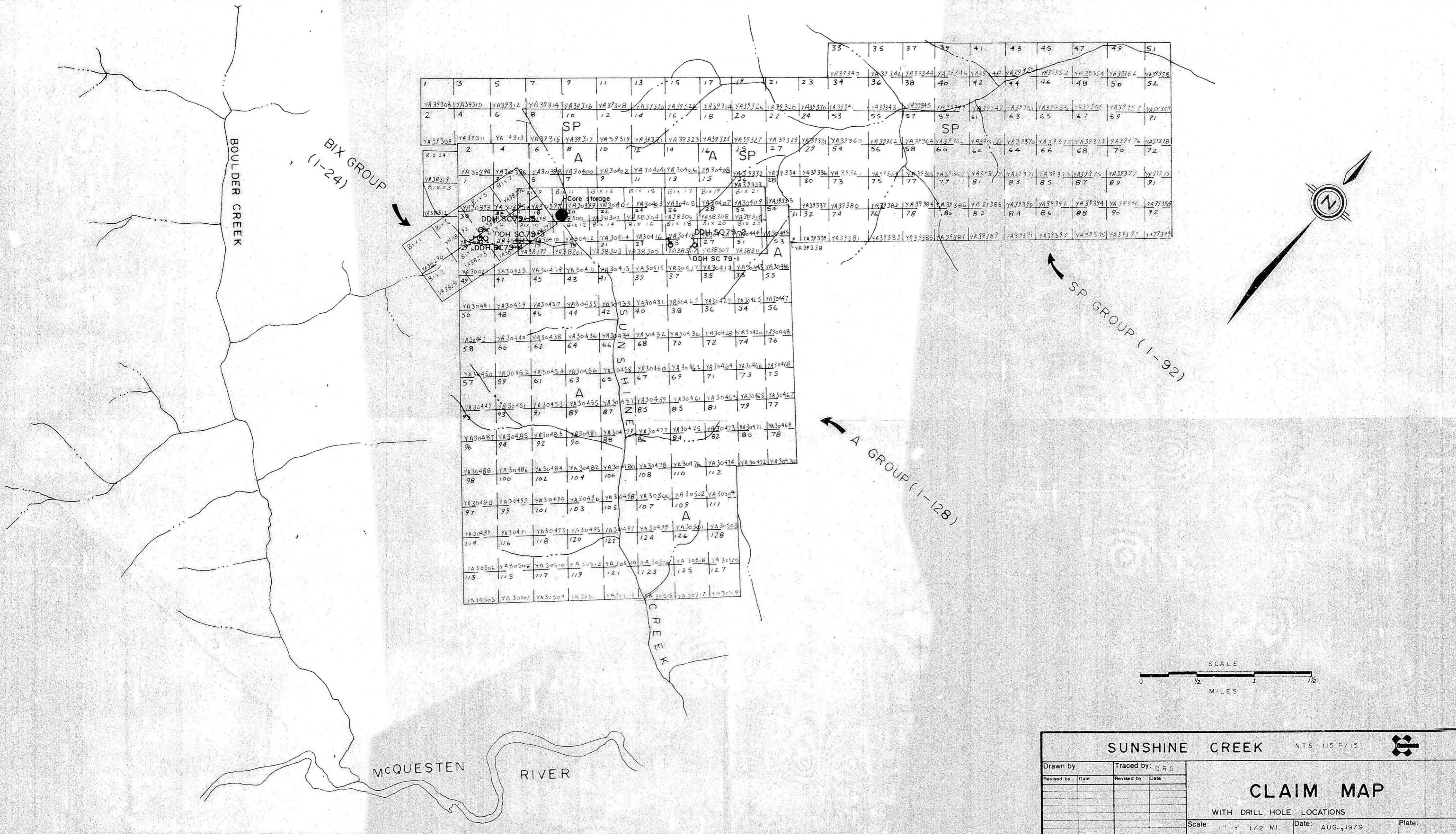
Property		SUNSHINE CREEK	District		Hole No.	SC 79-5								
Commenced			Location		Tests at		Hor. Comp.							
Completed			Core Size		Corr. Dip		Vert. Comp.							
Co-ordinates					True Brg.		Logged by							
Objective					% Recov.		Date							
Footage		Description					Sample No.	Length	Analysis					
From	To								Sn	Cu	Pb	Zn	Aq	
215	275	Brecciated quartzite and phyllite: leached, limonitic fractures common, tourmaline present along fractures, pyrite is rare to absent, minor manganese staining.												
		227-232	tourmaline and minor pyrite in fractures											
		236-242	tourmaline abundant											
		Assays	215-220			3392I	5.0	<20	113	<4	314	1.2		
			220-225			3393I	5.0	<20	137	<4	380	1.2		
			225-230			3394I	5.0	21	134	28	410	0.6		
			230-235			3395I	5.0	62	142	17	168	3.6		
			235-240			3396I	5.0	50	134	82	157	5.2		
			240-245			3397I	5.0	<20	100	6	144	0.9		
			245-250			3398I	5.0	<20	83	4	292	0.6		
			250-255			3399I	5.0	<20	63	8	316	0.9		
			255-260			3400I	5.0	<20	52	5	255	0.7		
			260-265			28452D	5.0	<20	48	17	160	1.0		
			265-270			28453D	5.0	<20	44	10	170	0.7		
			270-275			28454D	5.0	<20	92	25	134	0.7		
275	298	Phyllite: grey to dark grey, foliated, laminated, quartzite bands present												
		281-285	crenulated laminae											
		290-291	quartzite,											
		Assays	275-280			28455D	5.0	<20	53	12	770	0.6		
			280-285			28456D	5.0	<20	41	5	720	0.4		



Drill Hole Record

Property	SUNSHINE CREEK	District		Hole No.	SC 79-5					
Commenced		Location		Tests at		Hor. Comp.				
Completed		Core Size		Corr. Dip		Vert. Comp.				
Co-ordinates		True Brg.		Logged by						
Objective		% Recov.		Date						
Footage		Description	Sample No.	Length	Analysis in ppm					
From	To				Sn	Cu	Pb	Zn	Ag	
		415-417	rock contains 5% limonitic specks - possible limonite after pyrite							
		Assays	385-390	28467D	5.0	<20	34	17	25	0.4
			390-395	28468D	5.0	82	170	37	94	4.4
			395-400	28469D	5.0	228	570	265	27	24.2
			400-405	28470D	5.0	33	138	28	25	0.9
			405-410	28471D	5.0	47	200	49	24	1.6
			410-415	28472D	5.0	154	90	96	22	0.6
			415-420	28473D	5.0	162	228	206	30	17.5
417 - 435	Brecciated quartzite:	highly leached, vuggy, vugs are limonite lined, breccia contact at 10° to core axis, rock is weak to moderately brecciated, breccia fragments are not abundant, rock is also fractured (hair-line) - the majority of fractures are tourmaline filled.								
	Assays	420-425	28474D	5.0	171	490	570	50	200	
		425-430	28475D	5.0	166	600	570	152	74	
		430-435	28476D	5.0	198	570	536	100	38.4	
435 - 463	Quartzite:	cream to very light grey, weak to highly fractured, weakly foliated								
		435-445	highly fractured section, tourmaline is relatively abundant							

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.



BOULDER CREEK

BIX GROUP
(1-24)

SP GROUP (1-92)

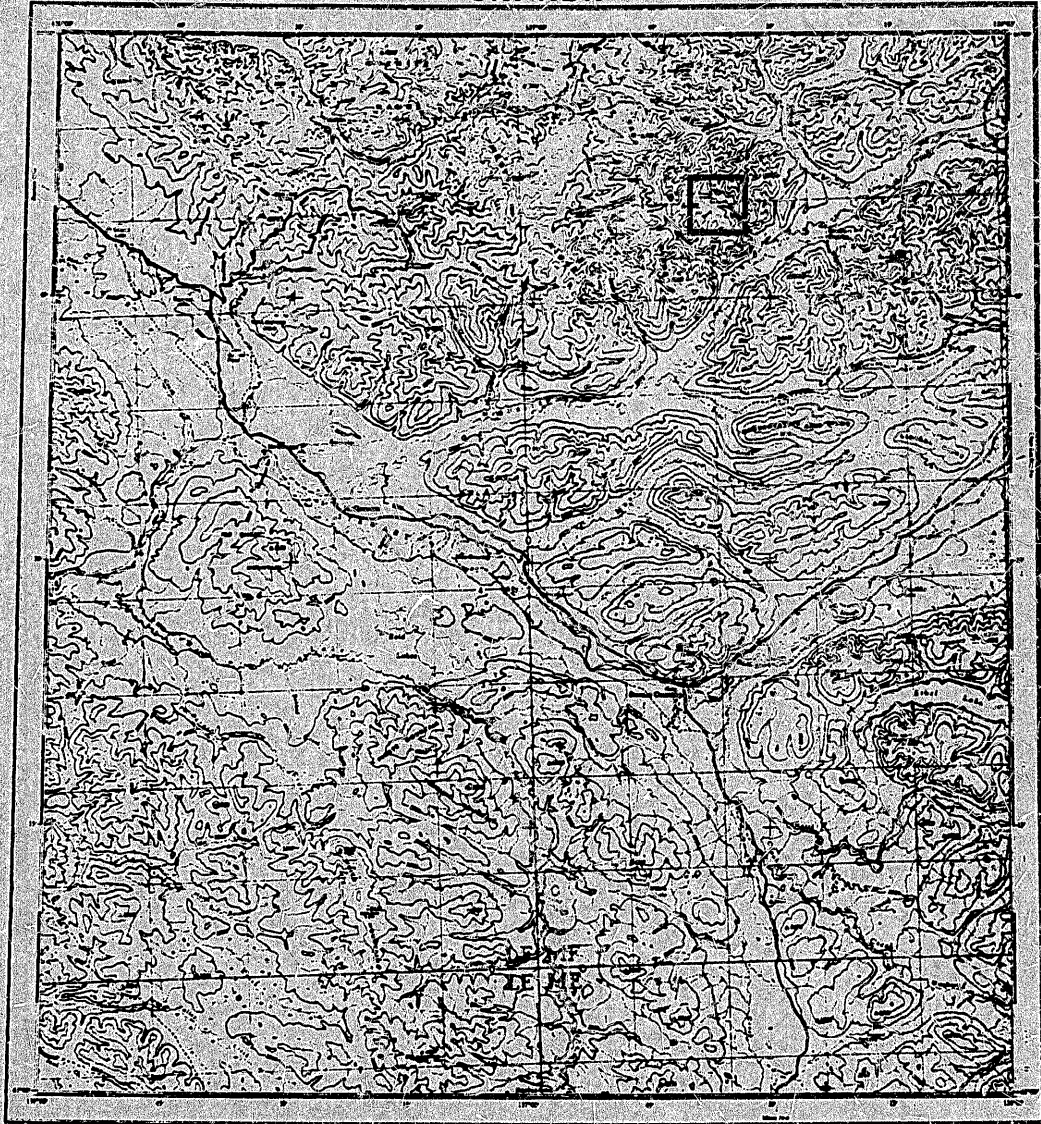
A GROUP (1-128)

MCQUESTEN RIVER

CREEK



SUNSHINE CREEK		NTS 115 P/15			
Drawn by:		Traced by:	DRG		
Revised by:	Date	Revised by:	Date		
CLAIM MAP					
WITH DRILL HOLE LOCATIONS					
Scale:	1" = 1/2 MI	Date:	AUG., 1979	Plate:	



McQUESTEN
YUKON TERRITORY

Scale 1:50,000

Map symbols and legend including: Contour Interval, Spot Height, Elevation, and various terrain features.

13	14	15	16
12	11	10	9
5	6	7	8
4	3	2	1

N.T.S. GRID REFERENCE

Drawn by:	Traced by:
Checked by: Date:	Revised by: Date:

LOCATION MAP