1981 PROSPECTING REPORT

M M 100 CLAIM GROUP

SKEENA MINING DIVISION

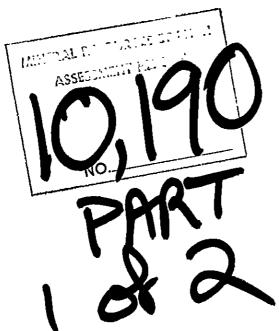
NTS 104 A/4 W

Lat. 56° 01' N Long. 129° 55' W

Owner: Kingdom Resources Ltd.

Operator: Kingdom Resources Ltd.

Consultant: C. R. Harris, P.Eng.



Report prepared by;

C. R. Harris, P.Eng February 28, 1982

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INTRODUCTION

During the period July 10 to August 7, Kingdom Resources Ltd. carried out an extensive exploration program on their M M 100 claim group near Stewart, B. C. using a crew of five men supplied and supervised by Mr. Doug Hopper under the general direction of the writer. During this period physical work, prospecting and geochemical surveys were performed. On September 9 the writer and Mr. Hopper returned to the property for several days to obtain check samples and to visit and sample a few areas previously overlooked.

This report describes the prospecting operations only which were directed primarily at locating and sampling the old workings and toward a general reconnaissance of the claim area.

LOCATION & ACCESS

The M M 100 group of claims is located five to six miles north of Stewart, B. C. to the east of Bear River between Glacier and Bitter Creeks as shown on Figure 1.

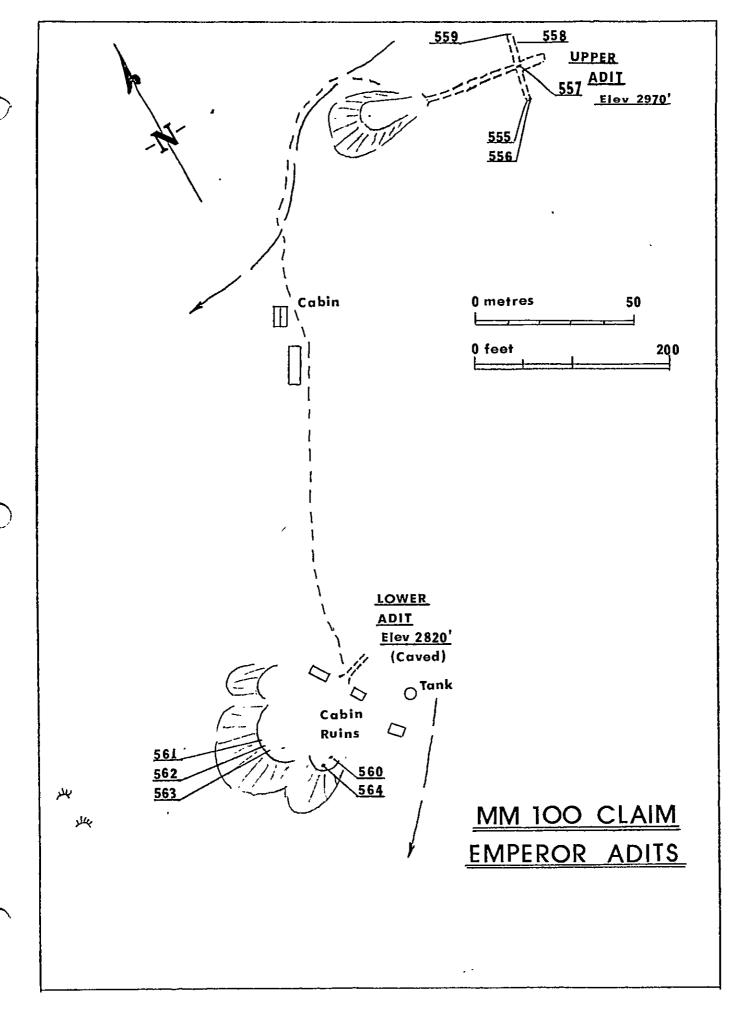
Access to the lower showings is by highway from Stewart thence by trail to the Tyee, Mayflower and Victoria adits. Higher and more easterly areas however are best reached by helicopter and pad areas have been cleared near the Silver Ledge camp and the Emperor adits.

PHYSICAL FEATURES

Below elevation 1500' travel is difficult due to heavy timber and brush, steep slopes and often deep creek canyons with impassible falls.

Above 1500' the area is more open but often swampy with a few shallow lakes. Overburden is generally heavy and outcrops scarce except in creeks.

Above 1500' good campsites are plentiful. Water is generally in good supply except for occasional dry seasons. Timber for mining and camp use is easily obtainable.



PROPERTY & TITLE

The M M 100 claim group consists of the following claims;

M M 100	Rec.# 1594	18	units	July :	11.
Buck 709	3138	12	**	July	23
Buck 710	3170	3	**	Aug '	7
Lake 16	3139	1	tt.	July :	23
Lake 17	3140	1	11	July	23

All claims are owned by Kingdom Resources Ltd. and are in good standing.

HISTORY

The early history of the work on the claim area is somewhat confused by the large number of property, prospect and operator names but the earliest mention of active prospecting is in the 1908 BCMM Report where the Main Reef vein is referred to. This is probably the Victoria - Silver Ledge section of Victoria Creek. Adjoining this area to the south, the Sunbeam claim is known to have been located in 1905.

In 1909 mention is made of the government assayer sampling the Tyee and a small shipment from the Mayflower area is noted. In 1911 a 700' tunnel is reported to have been driven on the Main Reef with a short winze intersecting good gold values.

The properties appear to have lain dormant until about 1920 and from 1920 - 28 almost all of the workings on the claims were driven and several small high-grade shipments made. After 1928 interest in the area waned and activity seems to have been limited to occasional high grading operations. The claims covering the various showings lapsed and although re-staked from time to time interest did not seriously revive until 1979 when the M M 100 claim was staked and delt to Kingdom Resources.

ECONOMIC ASSESSMENT

At the present time the primary interest in the claim area is for the silver and gold content of the Tyee shear and the Mayflower, Victoria, Silver Ledge and Emperor veins. The Tyee, Mayflower and Silver Ledge as well as several other isolated showings have returned excellent silvergold-lead-zinc assays which, if sufficient horizontal and vertical extent can be proved, could become small producing mines.

The old Dunwell Mine which was an active producer during the 1920s and 30s is located only about one mile south of the claims on what is thought to be the same structure as the Victoria and Silver Ledge.

Because of the generally low altitude, less than 3000°, and freedom from avalanche of the prospect areas and possible road access routes the prospects are ideally located for relatively inexpensive development and year around operation if sufficient ore can be developed.

Geochemical surveys run in 1981 have outlined additional exploration targets which do not outcrop.

GEOLOGICAL SETTING

The M M 100 claims extend over three major rock units mapped by Grove as the Hyder quartz monzonite stock along the western edge, then Hazelton fragmental volcanics followed by Bowser sediments over the eastern half. Grove (1971) provides a detailed description of these rock units and the general geology of the area.

A major feature on the claims is the northern extension of the so-called Portland Canal Shear Zone in or near which were found the Dunwell Mine and numerous important prospects immediately to the south of the M M 100. The Victoria and Silver Ledge showings appear to be on the west or hanging wall side of this zone while the newly found geochemical anomolies probably represent the eastern portion. The known veins are complex quartz-carbonate

breccia veins with locallized sulphides. The veins are usually associated with lamprophyre and other dykes. The veins so far opened up strike more or less north-south and dip west from 70 at the Dunwell Mine in the south to 40 - 50 at the Silver Ledge in the north.

The Tyee showing is a highly pyritized shear with quartz and occurs at the contact of the Hyder intrusive and Hazelton volcanics. The showing appears to be quite similar to the old Ben Ali Mine located not far to the south.

SUMMARY OF WORK

The project crew assembled in Stewart, B. C. early in July but because of an unfortunate helicopter accident it was not until July 10 that a functional base camp was set up along upper Victoria Creek although some familiarization traverses were made along lower elevations prior to establishing the camp. During the period July 10 to August 7 all workings were entered and sampled on the Tyee, Mayflower, Victoria and Silver Ledge areas and on August 7 the old Emperor Mine was located by helicopter reconnaissance and the dumps and upper adit sampled. Considerable time was spent walking the property and numerous old pits and caved adits were also noted but could not be cleared with the time and equipment available.

The adits that could be entered, the Tyee, Mayflower (3), Victoria and upper Emperor were in good condition but very dirty therefore detail mapping was not attempted and only the obvious shears and veins were sampled. Similarly, because of heavy overburden little new geological information could be obtained.

On september 9 the property was again visited to check some high gold assays obtained in Mayflower Creek and to map the creek area in more detail.

The prospecting was carried out at the same time as a geochemical

soil sampling program for which a separate report is submitted. Survey control was by compass and chain survey including the base-line and grid established for geochemical sampling and general control.

The following section describes the claim area visited and the various workings and outcrops sampled.

FIELD RESULTS AND COMMENTS

GENERAL

The geology of the claim area was found to be as described by Grove (1971) although it is thought that the Hazelton - Bowser contact is probably further to the east than mapped particularly in the upper Victoria Creek section. Upper Victoria Creek geology is very complex due to the main Portland Canal Shear and associated dykes and at least two small intrusive bodies near the north M M 100 claim boundary.

Figure 2 shows the M M 100 claim and the location of physical features and workings. Figures 3 - 6 show details of the workings and sample locations. Assay numbers are shown on the figures and values are tabulated on Appendix I.

TYEE AREA

The Tyee workings consist of a large hillside cut with a nearby shaft reported to be about 40' deep but now flooded, a line of pits extending north of the shaft and a crosscut tunnel at a lower elevation. The area and workings are shown on Figure 3. In addition, an adit, possibly two, is mentioned in old reports as having been driven on the south extension of the Tyee shear in the canyon of Victoria Creek but could not be found.

At the main workings mineralization occurs in a north striking steeply dipping silicified shear in quartz-monzonite. The shear varies

from 12" to 36" in the crosscut 60' below the upper pit to up to 8 feet in the trenches north of the shaft. Mineralization occurs as pods or lenses of pyrite with some chalcopyrite and galena. Sampling indicates that gold and silver values occur with the sulphides. In fresh rock specimens molybdenite was identified as minute flakes but no local concentrations could be found. Occasional specks of scheelings were also noted when viewed under UV light. Sample locations are plotted on Figure 3.

The intrusive-volcanic contact could not be located but must be close to the shaft area as volcanics were noted not far to the east in Mayflower Creek. The contact is expected to be quite irregular.

Because overburden in quite heavy prospecting along strike of the shear can best be accomplished by a series of short diamond drill holes. Hydraulic trenching is another possibility.

MAYFLOWER CREEK

A number of quartz-carbonate fissure veins and shears in fragmental volcanics were located in the canyon of Mayflower Creek. These all strike northwest and dip to the southwest. Only one vein could be traced for any distance as debris covers much of the creek bed and overburden is heavy beyond the banks.

Three short adits were driven in the past. #1 and #2 adits along mineralized shears but these were not driven far enough to be conclusive and #1 adit may have been driven off strike. Picked specimens of loose high pyrite material from #1 adit returned very good gold and silver values as did a 3' vein in the creek just below #1 adit although this sample (569) may have been salted by placer minerals. #2 adit shows no vein in the face but an outcrop just downstream assayed 2.72 oz/ton gold and 12.30 oz/ton silver across 7" of quartz with sulphide. The #3 tunnel appears to have been collared in high-grade of one vein and driven to intersect another. Values underground were low but the vein collared on was traced for 150' upstream and gave fair to good values depending upon the sulphide content. Adits and sample locations are shown on Figure 4. Outcrops north and south of the creek bed are very rare.

The Mayflower veins are all found in fragmental volcanics and are not associated with dykes as are the veins in or near the Portland Canal Shear to the east. Also, the strike and dip differ and it is likely that the veins are associated with the intrusive to the west not the major shear to the east.

Further prospecting of the veins can best be accomplished by short diamond drill holes and detailed examination of the canyon of Victoria Creek to the southeast.

VICTORIA MINE

The Victoria adit appears to have been an attempt to crosscut the hanging wall of the Portland Canal Shear to the east at an elevation lower than other workings. Two minor shears with quartz were encountered but the values were low and the tunnel was stopped short of the probable objective. The general area and underground workings are shown on Fig. 5.

East of the Victoria tunnel, in the vicinity of Bend Creek, are a number of old caved adits and pits (Fig. 2). The depth of the adits cannot be estimated as creek action has removed most of the dump material. Sampling in the area showed some interesting outcrops and dump specimens.

In view of the heavy costs of renovating portals and underground, a diamond drill program is probably the best way to test this area. Holes drilled east from Victoria creek and the Victoria tunnel are indicated as structures just to the south point to cansiderable potential for the area.

SILVER LEDGE NO - Siker ledge actuelly on Bull Dog clavis - much futter horth

The Silver Ledge prospect is a silicified shear exposed on the west bank of upper Victoria Creek as shown on Figure 2. A sample across 8" of quartz-sulphide assayed 0.36 oz/ton gold and 5.05 oz/ton silver but unfortunately the zone could not be traced due to heavy debris and overburden. Short hole diamond drilling will be necessary to trace this structure. A dark dyke rock was observed in the pit and it is likely that the Silver Ledge represents the western edge of the Portland Canal Shear.

EMPEROR

The Emperor Mine was only visited briefly and only the upper adit could be entered for sampling. The Emperor location is shown on Figure 2 and details on Figure 6. Sample values were generally low although some good silver assays were obtained from picked specimens from the lower adit dump. The vein could not be traced on surface due to heavy overburden but signs of old pits were found and it is possible that the vein has considerable lateral extent. The rocks observed were argillites mapped by Grove(1971) as Bowser sediments. The lower adit was unsafe to enter but can be renovated by cleaning and re-timbering the portal.

QUARTZ REEF

The Quartz Reef is a wide, up to 8 feet, quartz breccia vein traced by sporadic outcrops for some 600 metres as shown on Figure 2. Sampling in 1980 and 1981 showed no significant sulphides or precious metals. True strike and dip could not be determined but the surface trace does indicate what might be expected for suspected structures to the west in the Portland Canal Shear.

COST STATEMENT

Three separate types of work were done during the 1981 field season, physical work, prospecting and geochemical soil sampling. 1981 exploration costs are shown on the following pages with what is believed to be a fair apportionment of costs to the various jobs.

A total of \$ 11,954 is applied to prospecting.

July 10 - August 7 Wages D. Hopper, Supervisor, 1 mo @ 2500 250 1,250 1,500 3,000 L. Nyman, prospector, 1 mo @ 2500 250 750 1,500 2,500 E. Becker, prospector, 1 mo @ 2000 600 1,400 2,000 C. Sherwood, helper, 10 da @ 120 240 240 480 960 D. Bannerd, helper, 4 da @ 120 480 960 D. Diristansky, helper, 3 da @ 100 200 100 300 D. Diristansky, helper, 3 da @ 100 200 100 300 D. Diristansky, helper, 3 da @ 100 200 100 300 D. Diristansky, helper, 3 da @ 100 200 100 300 D. Diristansky, helper, 3 da @ 100 200 100 300 D. Diristansky, helper, 3 da @ 100 200 200 200 400 D. Diristansky, helper, 3 da @ 100 200 200 400 D. Diristansky, helper, 3 da @ 120 200 400 D. Diristansky, helper, 3 da @ 120 200 400 D. Diristansky, helper, 3 da @ 120 200 400 D. Diristansky, helper, 3 da @ 120 400 400 D. Diristansky, helper, 3 da @ 120 400 400 D. Diristansky, helper, 3 da @ 120 400 400 D. Diristansky, helper, 3 da @ 120 1,980 1,104 1,104 D. Diristansky, helper, 3 da @ 120 120 240 360 D. Diristansky, helper, 3 da @ 120 1,000 1,400 D. Diristansky, helper, 3 da @ 120 120 240 360 D. Diristansky, helper, 3 da @ 120 120 240 360 D. Diristansky, helper, 3 da @ 120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120 120 240 360 D. Diristansky, helper, 5 da 2120		Physical \$	Prospect \$	Geochem \$	Total \$
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T. Finlay, helper, 8 da @ 120		240			
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COST STATEMENT (Cont'd)

	Physical	Prospect	Geochem	Total
Transportation				
Air fare, Vanc-Stewart, 3 men		<i>5</i> 90	300	890
Room & Board				
Stewart, 3 men, 5 days		400	200	600
Assays				
Geochemical 16 @ 6.00 Rock samples 20 @ 33.00		660	100	100
NOCK SAMPLES 20 @ 33.00		660 ——	<u> </u>	660
		660	100	760
Preparation of Report				
C. R. Harris, P.Eng.		300	300	600
Total this page		1,950	900	2,850
Total previous page	1,860	10,004	13,774	25,638
GRAND TOTAL	1,860	11,954	14,674	28,488

A SAME

CERTIFICATE

- I, Charles R. Harris, of 2709 Wembley Drive, North Vancouver, B. C., hereby certify that;
- I am a graduate of the University of British Columbia with a degree of Bachellor of Applied Science in Mining Engineering.
- 2. I am a registered member in good standing of the Association of Professional Engineers of B. C.
- 3. I have been practicing my profession continuously for the past seventeen years.

C. R. Harris, P.Eng February 28, 1982

NUMBER	DESCRIPTION		ASS	SAYS		
		Au.oz/t	Ag.oz/t	Cu.%	Pb.%	Zn.%
	Samples by D. Hopper, July 1981.					
526	Bend Creek, volc float with py, epi	.002	.04			
527	Victoria Creek, 300' N of Bend Ck, 50' E Victoria Ck.	.004	.10	.02		
528	Silver Ridge - 8" hi sulph quartz vein	36	5,04		5,40	ුරු
529	" - 5' south contact	.004	.16			
530	" - 4' north contact	.002	.20		1 8	
531	" - 5' north contact	.002	.01		.01	.01
532	" - 4°; 4° N of contact	.002	.06			.02
<i>5</i> 33	" - 3', 60' N of contact	.002	.02			
534	Sta 5N 0.5W some blue fluoresc	.003	.04			
<i>5</i> 3 <i>5</i>	Seton Lake, blue & yel fluoresc	.002	.01			۲ ۱،
<i>5</i> 36	Sunbeam - Adit, 8" vein	.12 4	1,24	Ն ի	2.74	1.06
<i>5</i> 37	" - QB in argill, trace fluoresc	.020	.14		_	
538	" - Argill with py cubes	.002	.04			
<i>5</i> 39	" - Dump, blue fluoresc ⋄	.12	.96	4	1.35	4,70
540	" - Dump, argill, some pyrrh	.002	.08			
541	FF _ 51	.007	.22			
542	tt _ tt	.002	.42			
<i>5</i> 43	19 _ 11	.002	.42		}	
544	Sta 4S 7.5E, Quartz Reef	.002	.01	.01		
<i>5</i> 45	Sta 6S 0.5W, Blue fluoresc	.002	.04			
546	Sta 8S 2.5W, creek showing	.002	,12	.01		
547	Ben Ali - Dump	.46	4,40		ľ	

NUMBER	DESCRIPTION		ASS	AYS		
	W-T-V-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Au.oz/t	Ag.oz/t	Cu.%	Ръ.%	Zn.%
<i>5</i> 48	Mayflower - 150' above 1st adit, 5' QB	.002	.06	.01	.01	.02
<i>5</i> 49	" - 80' " " , 2' shear	.002	.16			,
550	" - 40' " " , qtz shear	.026	.47	.03	.01	1.06
<i>55</i> 1	" - 50* " " ,	.015	.65	.10	.02	.06
<i>55</i> 2	" - Just above 1st adit, 5'	.047	3.80	•53	.16	3.70
<i>55</i> 3	" - Massive sulph, 1st adit, loose	-2-28	57-2 ′	.74	6.66	6.60
<i>55</i> 4	" - 10' below 1st adit, 5'	.013	.37		.02	.2]
<i>555</i>	" - 60' " " , 5'	.002	.08		.01	٠٥.
<i>55</i> 6	Victoria Creek - Dump of short adit at bend	.002	•08			
<i>55</i> 7	Tyee - Adit dump	.002	.14			
<i>55</i> 8	- Cut NW of portal, 1 qtz vein	.040	.78	ĺ		
<i>55</i> 9	" - Adit dump	.14	3.46	.22		
<i>5</i> 60	" - Shaft Cut, dump, mass sulph	.22	12.36			
<i>5</i> 61	" - Shaft Cut, W side 2'	.002	.16		į	
<i>5</i> 62	" - " , 2' - 4'	.024	.04			
<i>5</i> 63	" The street of	≈ 080 =	ES-44-807			
564	" - " , 4*8" - 5*8"	.002	.08			,
<i>5</i> 65	Mayflower - 8m below 1st adit	.080	1.74		•34	3.2
<i>5</i> 66	" - 373 m E of sta 23	.002	.01		.01	.09
<i>5</i> 67·	Tyee - 10" vein at portal	.012	.27			
<i>5</i> 68	Mayflower - 2nd adit portal	.060	5.86	1,22	.12	2.30
569	" - lst adit, 3' in creek, good sulph	3.10	18.8			
<i>5</i> 70	Silver Ledge - QB above adit					
571	o Smarr addit 2000 south	039	26		.08	69

NUMBER	DESCRIPTION		ASS	AYS		
		Au.oz/t	Ag.oz/t	Cu.%	Pb.%	Zn.%
<i>5</i> 72	North of Silver Ledge, float, some sulph	.005	.44		•39	
<i>5</i> 73	400' S of Silver Ledge, pyrrh float, east bank	.002	.06			
2770	West of camp, W cliff Victoria Ck. 4'zone, Cu stain	.002	.04	.01		
2771	South of 2770, silic argill.	.003	.01		•	
2772	N of camp, near gran contact, Cu stain, head of creek	.002	4.02	.01		
2773	Small adit at creek bend, 8"	.002	.02			
2774	Near 2773 adit, 2' lens, high py	.002	.16			
277 <i>5</i>	Bend Creek, float, qtz with py	.080	.06			
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		i j	l		!	

NUMBER	DESCRIPTION			ASSAY	3		
Honbar		Au.oz/t	Ag.oz/t	Cu.%	Qd.%	Pb.%	Zn.%
	Samples by C. R. Harris, P.Eng. AugSept/81						
551 e	Mayflower #3 tunnel, face adit, 2' silic zone	.001	.10				
<i>55</i> 2 e	" " " " , l" sulph vein.	- 058-	2.92	.25		.46	6.02
<i>55</i> 3 e	Mayflower Creek, 4" sulph, above #3 tunnel	a979#	38×110	•99		3.65	2.65
<i>55</i> 4 e	" , 7" qtz-sulph vein, top falls, #2 adit.	29720₽	12530			•	
555	Emperor, Upper Adit, S drift, 8" shear	.022	1.30				
556	" , " , 28" qtz zone, E of 555	.007	2.30				
557	" , X-cut, 3° silic shear	.027	2.28				n
558	" , N drift, 5' silic zone, E wall	.050	•75				
559	" , N drift, 8" silic in face	.002	.21				
<i>5</i> 60	" , Lower Dump, picked sphal & galena	.046	7.93	.10	.31	7.80	12,20
<i>5</i> 61	", " ", massive py, fine	.069	.98				
<i>5</i> 62	", " ", " ", coarse	.032	•99				
<i>5</i> 63	" , " ", qtz mat'l, little sulph.	.019	1.43				
564	", "", "high sulph.	.157	2.58			ľ	
900	Silver Ledge, 2' silic zone.	OLU	7.44			1.53	-26
901	Victoria Adit, End X-cut, 8" shear	.002	.04				•
902	" ", Bend in S drift, 3' qtz shear	.003	.30				
903	" , S drift, 11.5m, 6" qtz shear	.002	.02			.01	.01
904	" " , " , 5.0m, 20" qtz shear.	.004	.18	•			
905	Tyee Adit, 36" qtz shear in granite.	.005	.06				
906	" ", 12" " " " "	.006	.36				
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NUMBER	DESCRIPTION			ASSAYS	}		
		Au.oz/t	Ag.oz/t	Cu.%	Mo.%	Pb.%	Zn.%
27 <i>5</i> 1	Mayflower Creek, 2' vein below #3 adit	.009	.30				
2752	" " , 6" vein 15m above #3 adit	.007	.20				
27 <i>5</i> 3	" ", 12" " 35m " " "	.01.2	.10				
27 <i>5</i> 4	" ", Vein, bend creek, 6" centre	.003	.01				
2755	" ", ", " ", 18"S side	.002	.02				
27 <i>5</i> 6	" ", ", " ", 12"N "	.003	.02				
27 <i>5</i> 7	" " , Base upper falls, 8" vein.	.021	.69		;	.60	.67
27 <i>5</i> 8	Tyee Pit 40' N of shaft, 3' rusty qtz.	.131	6.39	.017	.001		
27 <i>5</i> 9	Mayflower Creek, 2' qtz zone @ 206m	.002	.19				
2760	Tyee Pit, 100' N of shaft, $4\frac{1}{2}$ ' alt granite, py.	.010	.24	.003	.004		
2761	" ", " " " , 8" pyrite vein	.012	2.56	.005	.003		
2762	Mayflower-#1-adit-6"-shear-across-creek	1 _{,2} 8	1.01>	Į			
2763	Mayflower Creek, Upper Falls, Volc seds.	.012	.20				

