

# 6183

DIAMOND DRILLING REPORT

on the MAC 1, 2 & 3 claims

CARIBOO M. D.

November 25 to December 6, 1976

Location

3000 meters east of McIntosh Lake

Lat: 52° 06' 45"

Long: 121° 24'

on behalf of

CITIES SERVICE MINERALS CORP.

405 - 1200 West Pender Street

Vancouver, B. C.

by

J. W. Murton, P. Engineer

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. <u>6183</u>

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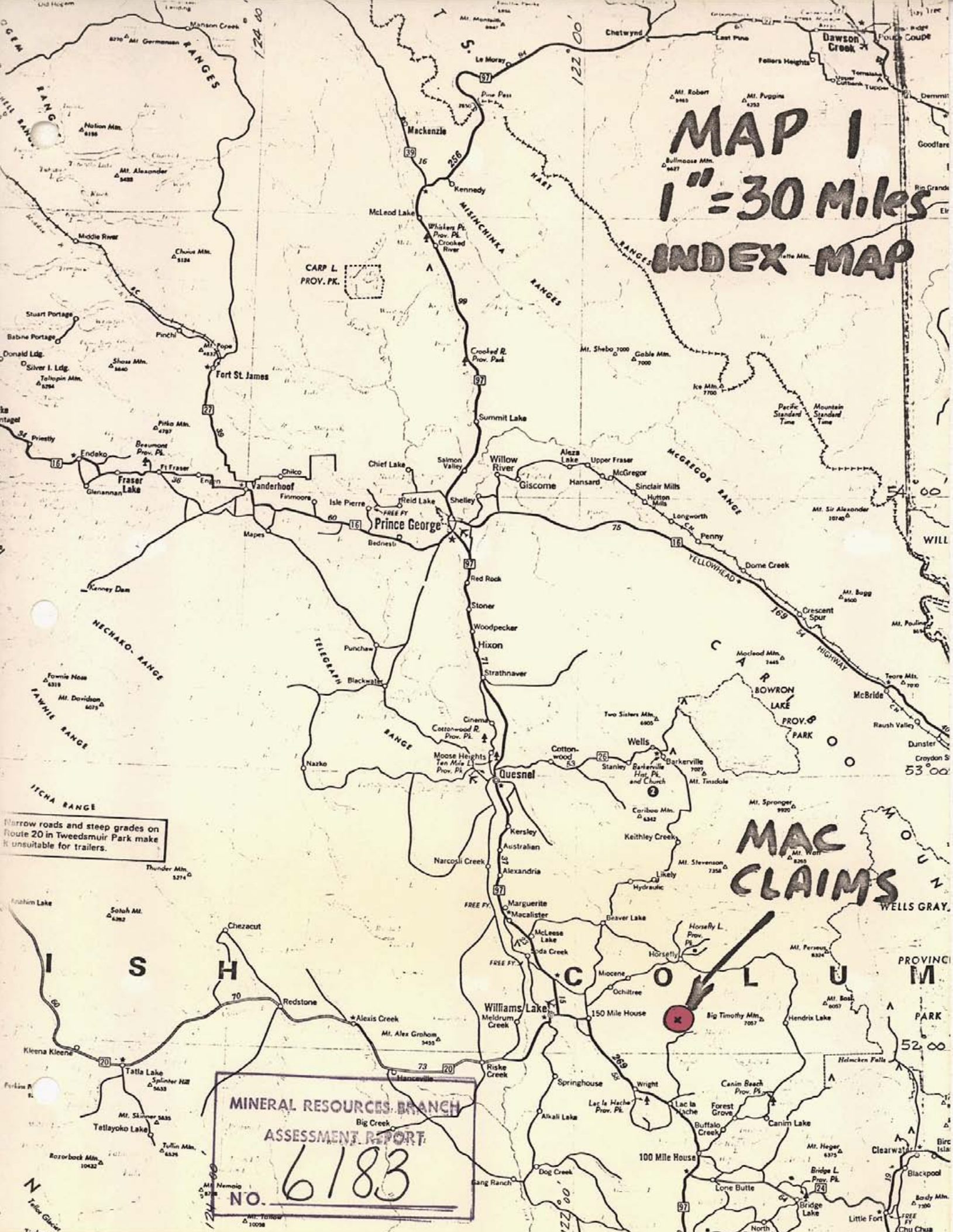
### MAPS

Map # 1	Index Map	Scale 1" = 30 miles	At front of Report
Map # 2	Location Map	Scale 1:50,000	Following Map #1
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# MAP 1

1" = 30 Miles

## INDEX MAP



CARP L. PROV. PK.

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

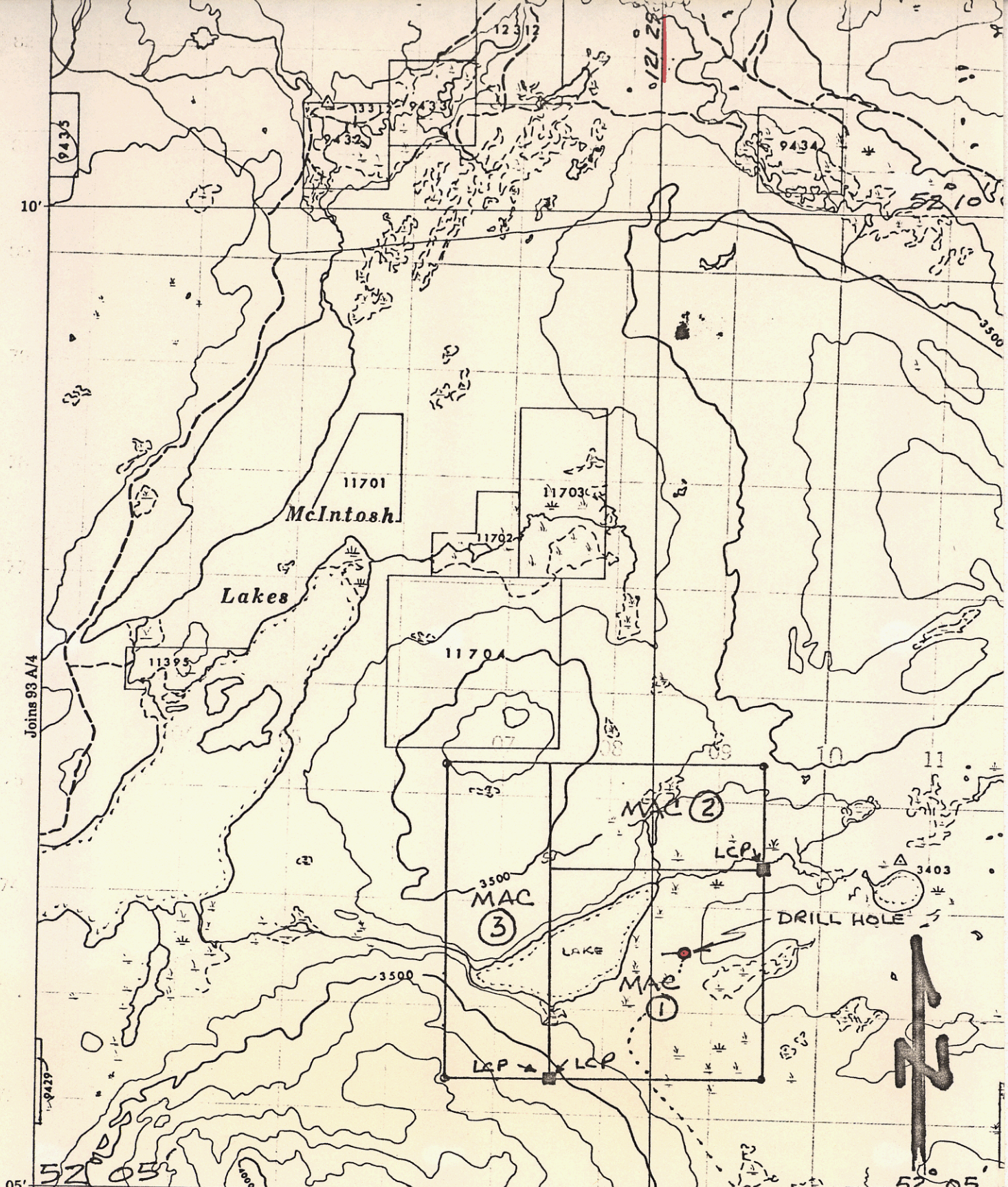
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### MAC CLAIMS

Narrow roads and steep grades on Route 20 in Tweedsmuir Park make it unsuitable for trailers.

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Joins 93 A/4

05'

52° 05'

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MAP 2  
LOCATION MAP  
1:50,000





6183

1:5,000

Plan

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
1100

STATEMENT OF COSTS INCURRED DURING PERIOD NOVEMBER 26 to  
DECEMBER 6, 1976 on the MAC 1, 2, & 3 CLAIMS, CARIBOO M. D.

Drilling Invoice from J. T. Thomas includes  
time for building 3 miles of cat trail to get  
access to drill site \$17,910.00

DDH M 76-1	Azimuth	270° True
	Inclination	-51°
	Total Depth	997'
	Elevation	3500'
	Core Size	BQ

Core storage is in Vancouver at Cities Service Warehouse.

The core was logged by Mr. Gary Nordin, a graduate from the University  
of Alberta with a B. Sc. in Geology, under the direction of J. W. Murton, P. Eng

A handwritten signature in black ink, appearing to read 'J. W. Murton', is written above a circular stamp. The stamp is faint and mostly illegible, but it appears to be an official seal or stamp.

J.T. THOMAS DIAMOND DRILLING LTD.  
P.O. Box 394, Smithers, B.C.

Invoice No. 1

Property Mac Size 8Q

Invoice Date: December 8th, 1976.

To: Cities Service Minerals Corporation,  
405 - 1200 West Pender Street,  
Vancouver, B.C.

This invoice is for diamond drilling and other services on the above property per contract.

Hole No.	Date		Overburden		Coring		Total Footage	Rate	Amount
	From	To	From	To	From	To			
1	Nov 25	Dec 6	0	47			47	11.00	\$ 517.00
					47	500	453	11.50	\$ 5,209.50
					500	997	497	12.00	\$ 5,964.00

Reaming: 47' to 58' 11' @ \$11.00 \$ 121.00

Mobilization: } \$1,400.00 \$ 1,400.00  
Demobilization: }

Moving Costs:

Mud Costs: 12 bags @ \$6.25 \$ 75.00

Cementing Costs:

Tractor Rental: 86 hrs. @ \$25.00 less operator \$11.50 \$ 1,161.00

Core Box: 50 @ \$3.00 \$ 150.00

Testing Hole:

Casing and Shoes Left in Hole:

Camp Provision: Geologist - Room and Board \$ 150.00

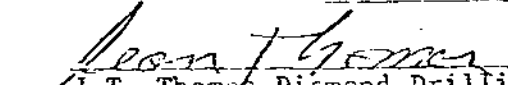
Downtime:

Fly Time:

Other: Man hrs. for moving in & out, slashing, road building 3162.50  
275 hrs. @ \$11.50 plus 13% ~~\$3,478.75~~

Invoice Total: \$48,226.25  
The above calculations are agreed to by: 17,910.00

  
Company Representative

  
J.T. Thomas Diamond Drilling Ltd.

S81 S-5 drilling

CERTIFICATION

I, J. W. Murton, of North Vancouver, British Columbia, do hereby  
certify that:

I am a member of the Association of Professional Engineers  
of the Province of British Columbia, registered in 1972,  
No. 8324.

I am a graduate of the University of Manitoba with a B. Sc.  
in Geology.

I have been a practising Engineer and Geologist since 1960  
in Manitoba, Saskatchewan, British Columbia, South Western  
U. S. A. and Alaska.

Vancouver, B. C.

January 21, 1977



J. W. Murton, P. Eng.





CITIES SERVICE MINERALS CORP.

VANCOUVER, B.C.

Total Recovery \_\_\_\_\_ %

DEPTH	AZIM.	DIP	Property	MAC CLAIMS	Core No.
0		-51°	N.T.S.	93 A 4	M 76-1
900'		-53°	Collared	DEC-1/76 <del>Nov-25/76</del>	Sheet 1 of 12
			Completed	DEC 5/76	Logged by G. NORDIN

Lat. 9+00N Elev. 23500'

Long. 9+50W Total Depth 997'

Length FEET	Rock'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length	ASSAYS					
48		OVERBURDEN											
48-60		48-139 PORPHYRITIC ANDESITE occasional fragments dark green-grey very fine grained. 1mm plagioclase phenocrysts 30%-50% - chlorite-epidote groundmass.		48-58 broken. fractures @ 16°-40° to core. 1-2% Py + calcite coating fractures. 57.5-69 ground core.									
60-70		epidote-chlorite-calcite alt. epidote dissem. + after plagioclase calcite fractures with pyrite. 62-74 fragmental-epidotized subrounded to subangular frags.		67.5-68 heavy pyrite on 10° fracture with calcite.									
70-80				72-73 unbroken core.									
80-90				78-83 fracture zone + fragments 30° to core. 82-83 1/4" ground core fragments 87.5-88 brecciated with calcite cement									
90-100				more pyrite with epidote, calcite altered fragments									
100-110		107-108 fragmental with calcite-epidote alt. of fragments.		104-chlorite clay fracture 10°									
110-120		1" fragments - 20% with increase py.		113-124. pyrite-epidote increase 5% pyrite with epidote 40% alteration of fragment with calcite									

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VANCOUVER, B.C.

DEPTH	AZIM.	DIP	Property	MAC	Hole No. M 76-1
Total Recovery _____ %	0		N.T.S.	Core Size	Sheet <u>2</u> of <u>12</u>
Lot.	Elev.		Collared	Logged by	
Long.	Total Depth		Completed	ASSAYS	

Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
130				128-132 calcite-calcite fracture 10% 10" to core.								
140		139-377 <u>ANDESITIC AGGLOMERATE</u> <u>andesitic agglomerate</u> 10% epidote-increases in frags. - few fragments with chilled margins - light pink-brown mineral-calcite?		135-136 5-10% pyrite banded @ 60°. Veinlets $\approx$ 40" to core from 139-7. Pyrite dis. along fract. with epidote calcite veinlets. 1-2% fault @ 139 - 3" gouge-calc. chl. layering @ 60" to core axis								
150		142 - 1" silic dyke with chilled margin. Pyrite contact @ 70"										
160		139-147 numerous small fractures bleached light green @ 70" 147 - fewer but larger fragments "1/2" - 2"		152 4 - 1/4" calcite-pyrite veinlets with 1" bleached envelopes.								
170		156-157, 158.5-159.5 lenses of epidote alteration. blebs bleached light green										
180		171 - large epidote bleb - 2"		173 - 1/4" calcite veinlet @ 45°								
190		186 - minor light pink-brown with epidote-calcite alteration										
200												

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VANCOUVER, B.C.

DEPTH	AZIM.	DIP	Property	MAC	Hole No. M-76-1
Total Recovery	%	0	N.T.S.	Core Size	Sheet 3 of 12
Lat.	Elev.	Collared	Logged by		
Long.	Total Depth	Completed	ASSAYS		

Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
202		6" bleb epidote		calcite pyrite veinlets spaced 2-3" with pyrite content 2-3%								
210		217-229 large light grey bleached fragments 2-4"		207-208, 213 chloritic shears @ 30°								
220		229 smaller light grey bleached fragments. Epidote with minor fiss em. brown calcite alteration										
230												
240		240 → large fragments										
250												
260		257-261 1/4-1/2" pyrite-calcite veinlet with epidote + brown calcite alt.										
270												
280				277.5-278 - 10% pyrite								

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Lat.  
Long.

Elev.  
Total Depth

DEPTH	AZIM.	DIP	Property	MAC
0			N.T.S.	
			Collared	Logged by
			Completed	

Hole No. M76-1  
Sheet 4 of 12

Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length											
290		287-302 numerous bleached 1" epidote alt. rounded fragments. (40%) with scattered brown calcite alt.		284 fault - chlorite breccia 6" @ 45° 287-302 increase in pyrite as disseminations + fractures from 1% to 4%														
300				296-297 brecciated fault zone with numerous dark green chlorite shears @ 30° to 40°														
310				303 calcite-py-chlorite shear @ 20°														
320		313-315 epidote increase from 10% to 30% in bleached fragments. Mottled texture. bleaching varies with nearness to fractures		310 many chloritic slips @ 30°														
330																		
340		336-339 bleached epidote increase with pyrite.		335.5-336 shear zone, chlorite clay gouge 1/2" at 35° 338.5 clay-calcite fault @ 30° 346 - 3" clay epidote fault @ 37°														
350		347-350 increased epidote with brown calcite. 3-4" blebs																
360		350 silicified epidote + brown calcite. band @ 35° 357-360 light green-silic +		350 epidote with pyrite @ 30° + calcite. bleached.														

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DEPTH	AZIM.	DIP	Property	MAC	Hole No.	M 76-1
Total Recovery	%	0	N.T.S.	Core Size	Sheet	5 of 12
Lat.	Elev.	Collared	Logged by			
Long.	Total Depth	Completed	ASSAYS			

Length	Rec'y. %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
				360- chlorite - calcite fault 1/4" @ 35° 364-365 strong fault - chlorite - clay gouge @ 20° 365-366 broken with chlorite shears								
370		374-376 contact @ 30° with parallel banding - mottled silicified blocks appearing fragments silicified within volcanics.		369-369 fault - 6" chlorite gouge @ 20° 370 - fault @ 40° 1/2 chl. clay gouge 368-371 broken + brecciated. Chl. shears 373-376 highly sheared								
380		377-394 <u>SILICIC INTRUSIVE DYKE</u> <del>white massive granitic</del> contact - few plagioclase phenos in microcrystalline groundmass 1% py. on fract.		377-394 broken 1/2-1" fragments								
390		394-412 <u>BIOTITE - FELDSPAR - QUARTZ PORPHYRY</u> . slightly coarser grained with 10%-15% light brown biotites - more py dxs with biotite. B.F.Q.P. cuts fine grained silicic dyke with silic fragments @ contact		394-422 3-4% py with biotite								
400												
410												
420		412-427 <u>SILICIC INTRUSIVE DYKE</u> white massive + microcrystalline groundmass. 10% 1-2mm plag. - banding @ 20°		420-421 10-15% pyrite with dark brown + green biotite								
		427 contact @ 70°										
430		427-443 <u>ANDESITIC AGGLOMERATE</u> <u>BRÉCCIA?</u> Highly silicified, bleached fragments 30-40%.		427-443 10% pyrite as fine grained dissemination with chlorite + on fractures.								
440												

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Total Recovery \_\_\_\_\_ %

DEPTH	AZIM.	DIP	Property	MAC	Hole No. M 76-1
0			N.T.S.		Sheet 6 of 12
Lat.	Elev.	Collared	Logged by		
Long.	Total Depth	Completed	ASSAYS		

Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
450		443-451 MASSIVE PORPHYRITIC ANDESITE. dark grey green (diabasic texture) - 2-4 mm light green mottled subrounded xls		443-451 10% pyrite, fine grained + disseminated with chlorite or fine grained biotite								
460		448-451 andesitic agglomerate - 1" bleached siliceous frags. with pyrite. 451-461 BANDED SILICEOUS ZONE 1/2-3" veinlets light grey-pink		451-461 2% py. as blebs on fractures. 458.5 1" fault - breccia with calcite cement.								
470		microcrystalline + siliceous with epidote + minor brown calcite. banded @ 30° pale green dispride? chl. qtz alteration.		461-472 4% py. 1-2% on fractures 467-467.5 chloritic fault @ 20° @ 40°								
480		461-517 PORPHYRITIC ANDESITE dark green + massive with 2-3 mm pale altered plagioclase in very f.g. chl groundmass.		472-517 1-2% py. as fine disseminations + on few tight fractures.								
490		461-472 - silicified + brecciated pale green quartz epidote + minor brown calcite.										
500		500-503 siliceous banding 1" @ 45°										
510		light grey, green with minor epidote + brown calcite. 503-506 minor breccia with epidote + brown calc.										
520		517-553 ANDESITIC AGGLOMERATE - light green bleached 1/4-2" fragments. Banding to 531		517-553 3% py. dissem. + as large blebs with epidote + brown calcite.								

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DEPTH		AZIM.	DIP	Property	MAC	Hole No. m 76-1	
Total Recovery _____ %		0		N.T.S.		Core Size	Sheet <u>7</u> of <u>12</u>
Lat.	Lat.	Elev.		Collared	Logged by		
Long.	Long.	Total Depth		Completed	ASSAYS		
Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length
530				524.5 chloritic fault @ 70° - breccia with calcite.			
540		538.5 - 540.5 - porphyritic andesite		531-532 broken chloritic shears @ 30°			
550		542-544 silice alteration blebs epidote - diaspido, + brown calcite. 547.8 - 1" breccia with calcite + pyrite		544 - 1/2" calcite fracture @ 30° 546-546.5 broken chl shears @ 0°			
560		553-578 <u>MASSIVE PORPHYRITIC ANDESITE</u> 549-560 irregular silice + light pink alteration. blebs Qtz, diaspido, minor brown calcite.		547.5 chl. fault @ 70° 547.8 1" breccia calc. Qtz. py. 549-560 8% py. 559.5 45° fault - chl - calc gouge.			
570		571-572 breccia - Qtz, calc, ep.		573 fault - chloritic 10°-20°			
580		578-584 <u>ANDESITE BRECCIA</u> 5-10 mm light grey-green silicified fractures in massive greenmass		583-584 fault zone - chloritic @ 20° with py.			
590		584-729 <u>ANDESITIC AGGLOMERATE</u>		584- py - 4-7% diss + on fractures.			
600		upper contact fault @ 20° - minor epidote + brown calcite alteration with light green bleached fractures. Increasing light brown calcite alt.					

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VANCOUVER, B.C.

Total Recovery \_\_\_\_\_ %

DEPTH	AZIM.	DIP	Property	MAC
0			N.T.S.	
			Collared	Logged by
			Completed	

Hole No. M 76-1  
Sheet 8 of 12

Lat.	Elev.
Long.	Total Depth

Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length	ASSAYS					
610		601-602 bleached network of fractures with quartz + minor epidote-calcite alt. 605-607 light green bleaching along fractures. Soft breccia, minor hematite		601 - fault @ 12° with chl. 605-607 minor chloritic slips @ 70° 605.5 - 1" fault @ 35° chl-clay. 607 - 6" fault @ 30° 10% py + strong alt.									
620		607-729 larger fragments - 10-30 mm. bleached light grey. 40-60% increasing siliceous alt. - bleaching pale grey to pink with development of diasporite? + on veinlets.		616 fault @ 30° - 1" breccia + chl. gouge. 619 fault 1/4" chl-calc. @ 30° 621-624 breccia zone - chl.									
630		621-624 pale chl-calc. bleaching in breccia with epid.		627-628 fault zone - 4" chl-clay gouge pyrite 10% 632 - 1" fault - gtz - calc veinlet									
640		630 - 4" siliceous band with diss. epid. + brown calc. light pink breccia? 632-633 gtz calc. alt. in veinlet @ 20-30°											
650													
660		657-659 strong siliceous bleaching with pyrite + minor brown calcite on fault.		657 chl fault @ 10°									
670		666 - 4" massive andesitic tuff @ 70° - unaltered.											
680		678-680 - several unaltered bands massive andesite. may be andesitic tuff. compact @ 70-90°		671 - 15% py on pale alt. on fracture with calcite.									

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DEPTH	AZIM.	DIP	Property	MAC	Hole No. M76-1
0			N.T.S.		Sheet 9 of 12
Total Recovery _____ %			Core Size		
Lot.	Elev.		Colored		Logged by
Long.	Depth		Completed		ASSAYS

Depth	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
690		numerous large patches brown calcite 1-2" + finely discern. 20-30%. Preferential alt. of fragments.		690 irregular pyrite band + disseminated 10%								
700		690- abundant light brown calcite alt. as blebs 2-6" 693-695 large 2-3" rounded fragments - bombs, strong calc-epidote alt.										
710		692 6" brown calcite band. 703-709 strong epid + brown calcite alt. with large round bombs. 45-50%		702 6" breccia with calcite + disseminated py. 10%								
720												
730		725.5 6" brown calcite - epidote f band @ 35° 729-756 MASSIVE ANDESITIC TUFF very fine grained with faint bedding										
740		729-729.5 fine grained diorite dyke @ 60°		729 pyrite on fract. with brown calc. numerous small 1/8" fractures @ 10°-30° with epidote + brown calc. and py.								
750		737 breccia 1-2" with calc. cement 729-752 30% brown calcite associated with bleached fragments + fractures		747 pyrite calcite veined @ 20°								
760		752-760 decrease in calcite 756-761 FRAGMENTAL ANDESITE FLOW or LAPILLI TUFF 5-10 mm subrounded fragments		751-752 vuggy breccia - calcite cement 752 - fault @ 30° chloritic								

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VANCOUVER, B.C.

PROPERTY		DEPTH	AZIM.	DIP	Property	MAC	Hole No. M 76-1				
Total Recovery _____ %		0			N.T.S.		Core Size	Sheet 10 of 12			
Lat.	Elev.				Collared		Logged by				
Long.	Total Depth				Completed		ASSAYS				
Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length				
		761-766.5 ANDESITIC TUFF 68° contact very fine grained with vague banding dark green. 1" pyrite rich bands.		766-767 - 3-1" pyrite bands @ 62° parallel to contact.							
770		766.5-775 ANDESITIC AGGLOMERATE 1-2" round bombs - same material as bleached ground mass.		771 - 1/8" calcite + pyrite @ 20°							
		772-774 small fragments (10mm) lapidic tuff?		776.8 1/2" calcite @ 45° brachioid chert shear.							
780		775-784 MASSIVE P-SOPHYRITIC ANDESITE 25% - 1mm plagioclase phenos. white with vague lamination - a few vague fragments		784-785 - several calcite-pyrite veinlets @ 10°-30° - light brown alt.							
790		771.5 1/2" calcite band @ 40°		782 pyrite 1/2" xcut bedding @ 10°							
		784-785 ANDESITIC AGGLOMERATE pale bleached fragments with diopside + brown calcite		785 py on fract. 2-4%							
800		785-790 TUFF-FINE GRAINED + LIMY 1" bands altered with chlorite - preferential alteration.									
810		790-808 MASSIVE ANDESITIC TUFF with fine bands of argillaceous tuff. Dissemin. scudite + minor calc increases to 20%. preferential alt. of some phenos.									
820		805 1" very fine grained tuff band @ 70°		816-818.5 - strong fault zone - chlorite calcite breccia @ 10° 10% py.							
		808-816 ANDESITIC AGGLOMERATE 10% 3-4mm calcite altered plagioclase phenos.									
830		816-835 ANDESITIC TUFF massive occasional vague banding @ 60° @ 819° 816-823 brown calcite 25%									
840		835-839 LIMY TUFF - fine banding. 1-4" limy bands alternating with coarse, diopside, pale pink calc bands @ 51°		838 . 1" calcite pyrite band. oblique to bedding @ 40°							

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Total Recovery \_\_\_\_\_ %

DEPTH	AZIM.	DIP	Property	MAC	Hole No. M 76-1
0			N.T.S.		Sheet 11 of 12
			Collared		Logged by
			Completed		ASSAYS

Lat.	Elev.
Long.	Total Depth

Length	Rec'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
		839.5-853 PORPHYRITIC ANDESITE mottled + massive - dark green 1-3mm patches 35%		pyrite - 4% on hairline fractures with calc - chl. @ 6-30°								
850		849-844 andesitic tuff layered @ 65°-70°										
		850-852 epidote - calc fract. 0°-10°										
860		853-860 ANDESITIC TUFF Very fine grained with vague banding @ 55°										
870		860-878 PORPHYRITIC ANDESITE mottled - vague plagioclase phenos. 2mm. Extensive pink calcite & diopside		861-862 - strong fault @ 20° - calcite - chlorite breccia 865 calcite - pyrite breccia 15% py - minor epidote								
				867-869 - same as above. 872-873 fault @ 10° - chloritic with calcite cement.								
880		878-888 ANDESITIC TUFF limy bands preferentially altered to pink calcite - diopside. Banding @ 70° 878-881 - strongly bleached		885 - chloritic shear @ 20°								
890		888-902 ANDESITIC AGGLOMERATE 10-20mm fragments. Pale bleached quartz chlorite alt. with epidote in groundmass. Sharp lower contact @ 48°		889-902 disseminated pyrite with epidote. 20%								
900				897-902 strong chloritic fault @ 0°-10° - chlorite gangue with py on slickensides. dark green - brown slicks @ 70° to fault plane. - calcite cement.								
910		902-951 LIMY TUFF fine banded. pink calcite alt, diopside & qtz. - banding 1-2" @ 60° 909 - 1/2" band displaced by 30° fracture		904. 6" chloritic fault breccia with calcite cement @ 20°								
920		911-928 very pale - probably limestones with beds chloritic tuff bands.										

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VANCOUVER, B.C.

DEPTH	AZIM.	DIP	Property	MAC	Hole No. M 76-1
0			N.T.S.		Sheet 12 of 12
Lat.	Long.	Elev.	Collared	Logged by	
Dep.	Long.	Total Depth	Completed	ASSAYS	

Length	Roc'y %	Rock Type / Alteration	Graphic Log	Mineralization / Structure	Est. Sulf. %	Sample No.	Length					
930		928-951 increase in brown calcite - very fine grained siliceous tuff.		919-951 pyrite disseminated in fractures with calcite 10-30° 927- 6" chloritic breccia @ 20° in fault. 10% py.								
940												
950				942- bedding @ 52°								
960		951-965 TUFF MASSIVE VAGUE Banded & LITHIC LAPILLI TUFF decrease in brown calcite in bedding @ 58° @ 958.										
970		Possibly more biotite. blt - dark green + massive. Creditional lower contact 965-997 PORPHYRITIC ANDESITE Massive dark green										
980		2 mm plus. 35% increase in brown calcite. + 20% in few large blebs		972- Vuggy fault with calcite (2mm x tals)								
990		987-993 increase in brown calcite 30%		987.3 fault @ 37° calcite cement 2". 989-990 breccia with brown calcite cement								
1000		997 - END of HOLE.										

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