1980 ASSESSMENT REPORT

TITLE:	DIAMOND DRILLING REPORT KITSAULT MINE
CLAIMS:	LEASE M 163
MINING DIVISION:	SKEENA MINING DIVISION
NTS LOCATION:	NTS 103 P/6
LATITUDE & LONGITUDE:	55° 25'N. and 129° 24' W.
OWNER AND OPERATOR:	AMAX OF CANADA LTD.
AUTHOR:	GARY D. SMITH
DATE SUBMITTED:	JULY 28, 1980

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LIST OF FIGURES

INTRODUCTION

Location and Access

The Kitsault property is located near the head of Alice Arm, about 150 kilometers northeast of Prince Rupert. The drill hole location is approximately 325 meters south-east of the Kitsault open-pit. Access to the drill site is by road from the community of Kitsault to the east waste dump and from there by foot or all terrain vehicle to the drill site (Fig. 1).

Physiography

The drill site is located approximately 675 meters above sea level. (Fig. 2). Patsy Creek is situated in a deep canyon about 150 meters south of the drill site. The area has been recently logged off to within 100 meters of the drill site. A cat road was pushed through the unlogged portion for access to the drill site.

History

The area that was drilled is part of the B. C. Molybdenum Ltd. claim group that was purchased by Amax of Canada Ltd., in 1973. Both drill holes were collared in the "East Lobe" which is believed to be the oldest phase of the Lime Creek Stock. The area drilled, will be the site for a future waste dump, it was therefore expedient to test it for economic mineralization.

DRILLING RESULTS

Hole 80-1 was started on May 5, 1980 and was completed on May 9, 1980. The size of the drill core was N.Q.W.L. for the entire 197.25 meters drilled. The hole was collared vertically and stayed essentially straight, with the inclination being -88° at the bottom.

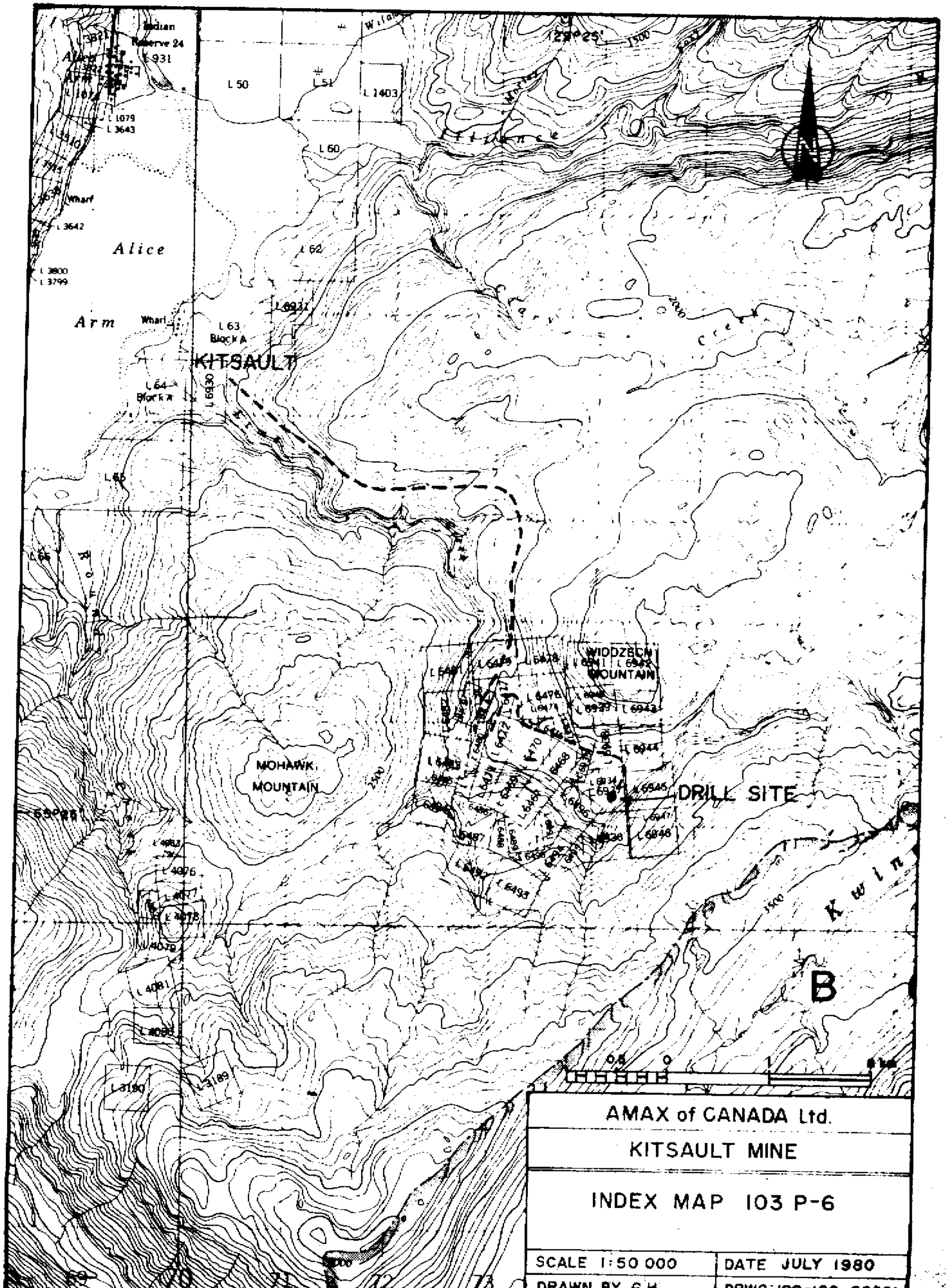
The hole was collared in weakly altered Diorite, and remained in Diorite, with the exception of a breccia zone which started at 122 meters and ended at 164 meters. The hole also intersected several sets of lamprophyre dykes starting at 112 meters to 121 meters and again at 170 meters for approximately 4 meters. Pyrite and pyrrhotite was the dominant sulfide mineralization. The combined amount started out at 1-2% and decreased gradually toward the bottom of the hole, ending at less than 0.5%. The only economically interesting mineralization occured at 28.66 meters, here a polymettalic quartz vein was intersected. Minerals that were noted were galena, sphalerite and pyrite. Assay results for the 3.048 meter section gave the following values, Au - 0.04 oz per ton, Ag - 1.28 oz. per ton, Mo - $<$0.001% and WO_3 - $<$0.01% (for assay results - see Appendix B). No other significant mineralization was noted, all molybdenum assays were 0.001% Mo or less.

Hole 80-2 was started on May 9, 1980 and completed on May 13, 1980. The size of the drill core was N.Q.W.L. for the entire 157.32 meters drilled. The hole was drilled at an inclination of -45^{o} towards the south at 155^{o}. The hole steepened a little, with the dip test reading -51^{o} at 140.24 meters.

The hole was collared in weakly altered Diorite and crossed the sedimentary-intrusive contact at 148.17 meters. At 128.96 meters the hole intersects a lamprophyre dyke which extends 19.21 meters to the intrusive - sedimentary contact. Pyrite and pyrrhotite was the dominant sulfide mineralization. The amounts varied but were generally around 1% combined, the amount decreased in the lamprophyre dyke to 0.5%. No economic mineralization was encountered in the hole. The molybdenum assays were all 0.001% Mo or less.

The holes were drilled to check the possibility of economic mineralization before waste dumps were established in the area.

Hole 80-1 tested the intrusive to a depth of 197.25 meters and hole 80-2 checked the intrusive - sedimentary contact. Both holes encountered weakly altered Diorite with no economic mineralization. Detailed geologic logs can be found in Appendix A.


Indian Reserve 24
Alice
Arm
Wharf
KITSAULT
L 50
L 1403
L 60
L 62
L 63
Block A
L 64
Block A
L 65
L 66
MOHAWK MOUNTAIN
WIDDZECH MOUNTAIN
DRILL SITE
Cedar Creek
Kwinatahl
B
2500
2000
1500
AMAX of CANADA Ltd.
KITSAULT MINE
INDEX MAP 103 P-6
SCALE 1:50 000
DATE JULY 1980
DRAWN BY G.H.
DRWG: 100-100-80001
FIG. 1

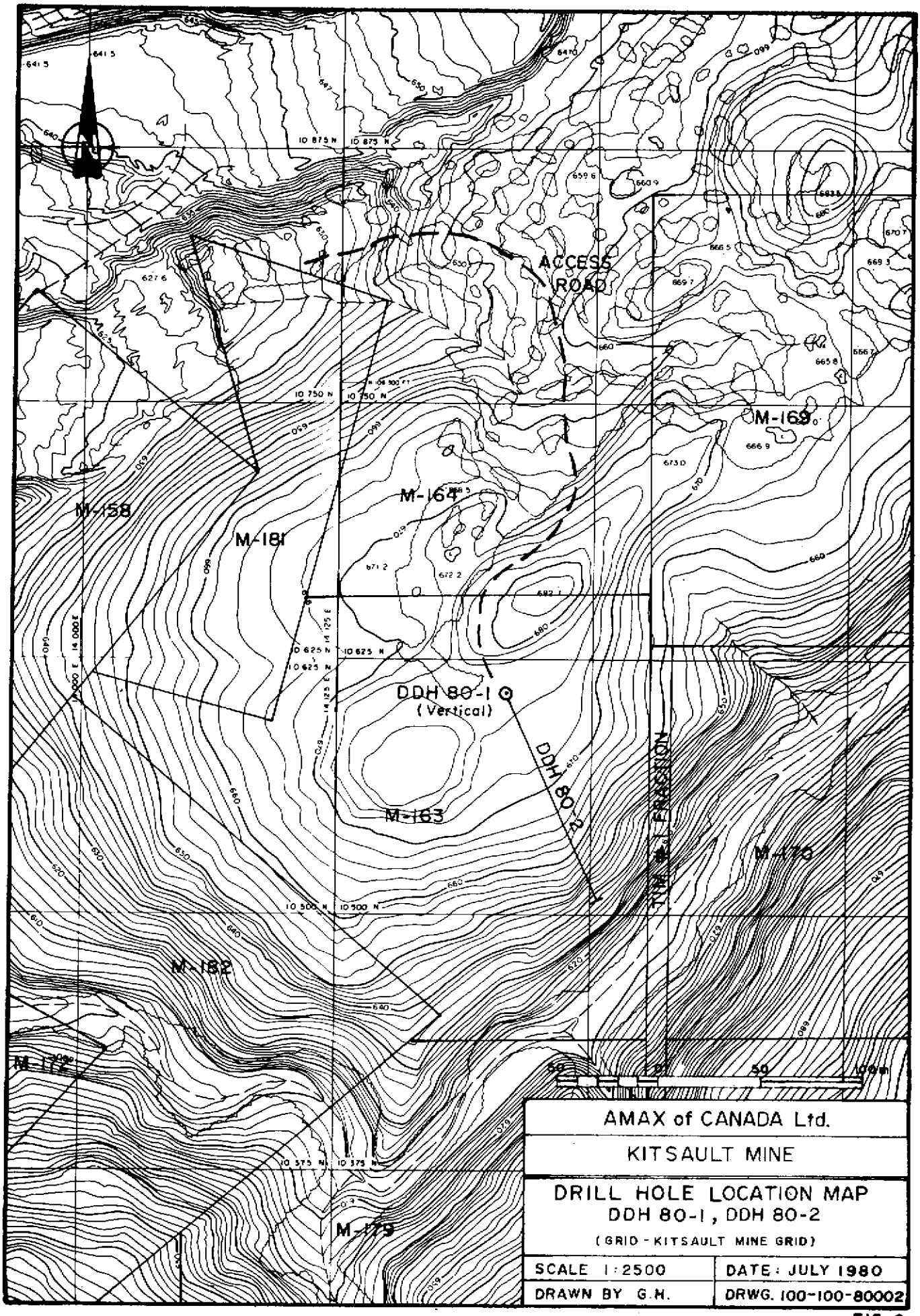

ACCESS ROAD
M-158
M-181
M-164
M-169
M-163
M-182
M-172
M-179
M-170
DDH 80-1
(Vertical)
DDH 80-2
TYM #1 FRACTION
10 875 N
10 750 N
10 625 N
10 500 N
10 375 N
50
0
50
100m
AMAX of CANADA Ltd.
KITSAULT MINE
DRILL HOLE LOCATION MAP
DDH 80-1, DDH 80-2
(GRID - KITSAULT MINE GRID)
SCALE 1:2500
DATE: JULY 1980
DRAWN BY G.H.
DRWG. 100-100-80002

FIG. 2

AUTHORS QUALIFICATIONS

Gary D. Smith

Education

B.Sc. - Geology, 1972, University of British Columbia

Professional Experience

1967 - 1971 Summer field work. Rio Tinto Canadian Exploration Ltd.

1972 - 1978 Field Geologist - Lornex Mining Corporation Ltd.

1979 - 1980 Mine Geologist - Kitsault Mine (Amax of Canada Ltd.)

DRILL HOLE 80-1

ARMADX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-2
CLAIM NO: M-163

SECTION:
LATITUDE: 14205 E
DEPARTURE: 10610 N
AZIMUTH: 155°
DIP: -45°
ELEVATION: 673.8 m
LENGTH: 157.32 m

COLLARED: May 9, 1980
COMPLETED: May 13, 1980
CORE SIZE: N.Q.

DIP TESTS: 90.24 m - 52°
LOGGED BY: G. Smith
DATE LOGGED: May 26 - May 30, 1980

REMARKS: Log Scale 1:60
3.05m of core assayed for Ag. Mo, WO3 every 30.49m.

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.				ESTIMATED SULPHIDES: PbS	ZnS	Py	Po
															4.27 of Over Burden										
20	55	5	20	Py Bio Pyrr	4	Diorite Weak Propylitic Altered					70	1/16	Cal-Qtz-(Py)	Diss-Py-Pyrr-partly replaces mafics	14 16										
											20	1/8	Qtz-Py-Pyrr-Cal											
											40 & 45	1/8 x 2	Qtz-Cal-Py-Pyrrx2											
											45	1/16	Qtz-Cal-Py-Pyrr											
								6.10																	
											55 & 30	1/2 & 1/8	Qtz-Py-Pyrr-Calx2											
											40	1/8	Qtz-Py-Pyrr											
											50 x 2	1/16 x 2	Qtz-Py-Pyrr x 2	Moderate Alt'd mafics bleached to clay	26									
									Mod		25 & 70	1/8 x 2	Qtz-Pbs-Py-Pyrrx2											
											50	1/8	Py-Pyrr-(Cal-Qtz)											
								9.15																	
											40 & 60	1/8 x 2	Qtz-Py-Pyrr x 2											
											35 x 2	1/8 & 1/16	Qtz-Py-Pyrr x 2											
											60 x 2	h/e x 2	Qtz-Py-Pyrr x 2											
											60 & 70	1/16 x 2	Qtz-Cal-Py-Pyrrx2		37									
											60													
											30 & 65	1/16 & 1/8	Qtz-Py-Pyrr x 2											
											10 & 30	1/8 x 2	Qtz-Py-Pyrr x 2											
								13.00																	

8797

.4 .2

.6 .3

.6 .2

AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-2
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS					ESTIMATED SULPHIDES	
Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	Ag	MoS_2	WO_3	Pbs	ZnS	Py	Po
												60 & 45	h/e x 2	Qtz-Cal-Py-Pyrrx2											
												60 & 50	h/e x 2	Cal-Py-Pyrr x 2											
												70 & 55	h/e x 2	Qtz-Cal-Py-Pyrrx2											
												50 & 75 x 2	h/e x 2	Qtz-Py-Pyrr x 2		47									
												50 & 75	h/e x 2	Py-Pyrr-Cal x 2											
												50 & 80	1/16 x 2	Qtz-Chl-Cal-Py-Pyrr x 2											
												70 & 50	1/16 x 2	Qtz-Chl-Cal-Py-Pyrr										.8	.4
								15.24				65 & 35	1/16 x 2	Qtz-Py-Pyrr x 2											
												70	1/8	Qtz-Py-Pyrr											
												80	1/4	Qtz-Py-Pyrr											
												60	1/8	Qtz-Py-Pyrr				80013	0.02	0.001	0.01				
												50 & 35 x 2	1/8 x 3	Qtz-Py-Pyrr x 3	well devel. Pyrite										
												80 & 60	1/8 & 1/16	Qtz-Py-(Pyrr)	xtals along fractures	57									
												80	1/2	Qtz-Py-Pyrr											
												80 & 40	3/4 & 1/8	Qtz-Py-Pyrr x 2											
												50	1/4	Qtz-Py-Pyrr										1.0	.6
								18.29																	
		4	Diorite							Weak Prop		45	1/4	Qtz-Py-Pyrr											
												80 & 40 & 60	1/8&1/16x2	Qtz-Py-Pyrr x 2											
												65	1"	Qtz-(Py-Pyrr)											
												50	1/4	Qtz-Py-Pyrr											
												45	1/8	Qtz-Py-Pyrr		67									
												60	1/8	Qtz-Py-Pyrr											
												55 x 2	1/16 x 2	Qtz-Py-Pyrr x 2											
												40 x 2 & 80	c/ex2 &	Qtz-Py-Pyrr x 2											
								21.34																	

AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-2
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS		ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.		PbS Py	ZnS Po
												80 & 40 x 2	1/8&h/ex2	Qtz-Py-Pyrr x 2							
												60 & 65	1/ & 1/16	Qtz-Py-Pyrr x 2							
												40 & 65	h/e & 1/2	Cal-Qtz-Py-Pyrr							
												70 & 60	1/8 x 2	Qtz-Py-Pyrr							
												80.	8"	Qtz-Pbs-Sphal-Py Pyrr							
												80									
							Lamprophyre Dyke					90	1 1/2	Dyke							
												80 & 60	1/2 & 1/8	Qtz-Py-Pyrr x 2							
								24.39				80 & 90	1/8 x 2	Qtz-Cal-Py		77					
												70 & 50	h/e x 2	Py-Pyrr x 2							
												60 x 2 & 50	h/e x 3	Py-Pyrr-Calx3							
												70 x 3	1/16&h/ex2	Qtz-Py-Pyrr-Calx3							
												20 & 30 & 40	h/e x 3	Py-Pyrr x 3		87					
												70 & 60	h/e x 2	Py-Pyrr-x 2							
								27.44													
												70 & 35	1/16 & h/e	Qtz-PY-Pyrr-Cal							
												70 & 60 x 2	h/e x 3	Py-Pyrr-Cal x 2							
												65 x 2	1/8 x 2	Qtz-Py-Pyrr x 2							
												70 & 40 & 80	1/8&1/16x2	Qtz-Py-Pyrr-Calx2							
												40	1/8 99	Gouge-Clay-Cal-Py-Pyrr							
												30	1/8	Qtz-Py-Pyrr	Silicious zone with needles of Hornblende	97					
												40	1/4 & 1/16	Qtz-Py-Pyrr x 2							
								30.19													

Sample No.	PbS Py	ZnS Po
	.2	.2
	1.0	.5
	.6	.4
	.6	.1

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ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.				PbS	ZnS
																						Py	Po
												80 & 60 x 2	1/8 x 3	Qtz-Py-Pyrr x 3									
												30	6"	Qtz-Py-Pyrr x 2									
												75 x 4	1/8 /16x3	Qtz-Py-Pyrr-Calx4									
												70 & 65 x 2	1/8 x 3	Qtz-Py-Pyrr x 3		107							
												80 x 3	1/8 x 3	Qtz-Py-Pyrr x 3									
												30 & 35	h/e x 2	Py-Pyrr-Cal x 3									
												60 & 70	h/e x 2 .	Py-Pyrr x 2								.8	.6
								33.54															
												45 & 60	h/e x 2	Py-Pyrr-Cal x 2									
												50	h/e	Py-Pyrr									
												60	1/8	Py-Pyrr-Cal									
												80 x 2	1/16 & 1/8	Qtz-Cal-Py-Pyrrx2									
												~~80 x 3 & 70~~	~~h/e x 4~~	~~Py-Pyrr-(Qtz)-Cal~~ x 4	1" Zenolith of HNFLS?	117							
												80	1"	Qtz-Py-Pyrr	Core is blockier								
												35	1/2	Qtz-Cal-Xtals								.8	.6
								36.59															
												40 x 4	h/e x 4	Cal-Py-Pyrr x 4									
												70 & 60 x 2	1/16 x 3	Cal-Py-Pyrr x 3-									
												40	6"	Qtz-Pbs-Py-Pyrr									
												70 & 80	h/e x 3	Qtz-Cal-Py-Pyrr	Plag-Chalky look								
												70	1/2	Qtz-Py-Pyrr	Slight increase in alt'n	127							
												10	1/8	Qtz-Py-Pyrr									
												50	3"	Qtz-Py-Pyrr									
								39.63														.7	.5

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ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	Ag	MoS_2	WO_3	PbS Py	ZnS Po
												30 & 65	1/4 & 1/8	Qtz-(Cal-Py-Pyrr) x 2									
												25 & 65	1/8 & h/e	Qtz-(Py-Pyrr)-Py-Pyrr									
												40 & 50 x 2 60 x 2	1/8 x 3 1/4 x 2	Qtz-(Py-Pyrr) x 3 Qtx-(Py-Pyrr-Cal)-x 2	Core in 1" pieces	137							
												70	2"	Qtz-(Pbs-Sph-Py-Pyrr)									
												70	4"	Qtz-(Pbs-Sph-Py)								.8	.4
								42.68				70 & 60 25 x 2	1/4 x 2 h/e x 2	Qtz-Py-Pyrr-Calx2 Chl-Py-Pyrr x 2									
												50 x 2 20 & 50 40 x 3 80 x 4	h/e x 2 h/e & 1/8 h/e x 3 1/8&h/e x3	Py-Pyrr x 2 Qtz-Py-Pyrr x 2 Chl-Py-Pyrr x 3 Qtz-Py-Pyrr-Chl-Py-Pyrr x 3				80012	0.02	0.001	0.01		
												80 & 70	1/8 & 1/4	Qtz-Py-Pyrr x 2		147							
									Lamprophyre Dyke			80 x 2 30	1" & 1" 1/16	Dyke-Qtz-Py Qtz-Py-Pyrr								.6	.3
								45.73				80	1/8	Py-Pyrr-Cal									
												70	h/e	Py-Cal-Pyrr									
												60 & 40	h/e	Py-Pyrr-Chl-Calx2									
												80 & 65	1/8&1/16	Qtz-Py-Pyrr x 2	6" - Ground	157							
												65 & 70	h/e x2	Py-Pyrr x 2	Rock is more competent 76" lengths								
												70 x 3	1/16 x 3	Qtz-Cal-Py-Pyrrx3								.6	.3

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CORE SIZE:

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DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS		ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.		PbS	ZnS
																				Py	Po
												30 & 35	h/e x 2	Py-Pyrr-Chl x 2							
												60 x 2	h/e x 2	Py-Pyrr x 2							
												70 x 2	h/e x 2	Py-Pyrr x 2							
												60 x 2	1/8 & 1/16	Qtz-Py-Pyrr x 2		166					
												70	1"	Qtz-Py-Pyrr							
												75	1/4	Qtz-Py-Pyrr							
												35 x 2	h/e x 2	Py-Pyrr x 2							
												50 & 70	3/4"& 1/16	Qtz-Py-Pyrr x 2	70 cuts 50					.7	.4
								51.82													
												55	1/8	Py-Pyrr-Cal							
												30 x 2	h/e x 2	Py-Pyrr							
												80 & 25	1/8 & h/e	Qtz-Py-Pyrr x 2							
												60 x 2 & 30	h/ex2&1/8	Py-Pyrr&Qtz-Py-Pyrr							
												40 & 50	h/e	Py-Pyrr x 2		176					
												35 & 40	h/e x 2	Py-Pyrr-Cal							
												80 x 2 & 70	1/8x2&1/16	Qtz-Py-Pyrr-Calx2							
												40 & 80	1/2 x 2	Qtz-Py-Pyrr-(Pbs)							
												50	1/8	Qtz-Cal-Py-Pyrr						.6	.3
								54.88													
												70 x 2 & 45 x 3	1/8x2-h/ex3	Qtz-Py-Pyrr x5							
												40 x 2 & 80	1/2x2&1/4x2	Qtz-Py-Pyrr-Calx4	80° cuts 40°						
												50 & 60 x 3	1/8&1/16x3	Py-Pyrr-Cal-Chlx3							
												80	1/4	Qtz-Py-Pyrr		186					
												80 & 40	1/8 & 1/16	Qtz-Py-Pyrr x 2							
												50 & 70	1/16	Qtz-Py-Pyrr-Calx2							
												70	1/4	Qtz-Py-Pyrr							
												80 x 2	1/16 x 3	Qtz-Py-Pyrr x 2		190					
								57.33													
																				.6	.3

AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-2
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.				PbS Py	ZnS Po
												80 & 50	1/8 & h/e	Qtz-Py-Pyrr x 2									
												80 x 3	1/4&1/16x2	Qtz-Py-Pyrr x 3									
												80x3 & 40x2	1/4&1/8&h/e x 3	Qtz-Py-pyrr-Calx5									
												80 & 20 & 60	1/4x2 & h/e	Qtz-Py-Pyrr x 3		197							
												20 x 3	1/16 x 3	Py-Pyrr-Chl-Calx3	80° cuts 40°								
												40 & 80	1/8 & 1/4	Qtz-Py-Pyrr									
												80 x 2	2"	Qtz-Py-Pyrr x 2								1.0	.6
								60.98															
												85	1"	Qtz-Py-Pyrr									
												80 x 2	1/8 x 2	Qtz-Py-Pyrr x 2									
												50 x 2	h/e x 2	Cal-Chl-Py x 2									
												80 x 3	1/4 & 1"	Qtz-Py-Pyrr x 2									
												50 & 40 x 3	1/4&h/ex3	Qtz-Qtz-Cal 40° cut 50°		207							
												30 & 60 x 3	h/e x 3	Cal-Chl-Py									
												80 x 2	1/8 x 2	Qtz x 2									
												45 & 80 x 3	1/4&1/8x3	Qtz-Cal-Py-Pyrrx4								.8	.4
								64.02															
												80 & 60	1/8 x 2	Qtz-Py-Pyrr-Calx2									
												50 & 80	1/8 & 1/4	Qtz-(Py-Pyrr-Cal) x2									
												80 & 70	1/4 x 2	Qtz-Py-Pyrr-Calx2									
												40	1/2	Qtz-Py-Pyrr									
												50 & 65	1/16 x 2	Qtz-Cal-Pyx2	50° cuts 65°	217							
												80											
												55 x 2	1/8 & 1/16	Py-Pyrr-Chl-Calx2									
												70	6"	Dyke									
												80 x 2	1/4 & 1/16	Qtz-Py-Pyrr-Calx2									
												30 & 70	1/8 x 2	Qtz-Cal-Py-Pyrrx2									
																						.6	.3

Lamprophyre Dyke

AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-2
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESIS:
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DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION									GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance		Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.				PbS	ZnS
																							Py	Po
													80 & 60	1/8 & 1/16	Qtz-Cal-Py-Pyrrx2									
													70	1/16	Py-Pyrr-Cal									
													80 x 2	1/4 & 1/8	Qtz-Py-Pyrr-Calx2									
													55 & 80	1/8 x 2	Qtz-Py-Pyrr x 2									
													80	1/4	Qtz-Chl-Cal-Py-Pyrr		227							
													70 x 2	1/8 & 1/6	Qtz-Py-Pyrr-Calx2									
													50 & 80	1/8 x 2	Cal-Qtz-Py x 2 500 cuts 80°									
													45 & 55	1/4 x 2	Qtz-Cal-Py-Pyrrx2							.6	.3	
									70.12															
													75 & 55	1/8 & h/e	Qtz-Cal-Py-Pyrrx2									
													50 & 70	1/8 x 2	Qtz-Py-Pyrr-Calx2									
													45	1/4	Qtz-Cal-Py									
													70 x 2	1/16 & h/e	Qtz-Cal-Py-Pyrrx2									
													50 x 2	2" & 1"	Qtz-(PY-Pyrr)-Cal x 2		237							
													50 x 3	h/e x 3	Cal x 3									
													80 x 2	1/16 x 2	Chl-Cal-Py-Pyrrx2							.6	.3	
									73.17															
													60 & 70	1/8 x 2	Qtz-Cal-Py x 2									
													70 x 2 & 60	1/4&1/16x2	Qtz-Cal-Py-Pyrrx2									
													70 x 3	h/e x 3	Cal-Py-Chl x 3									
													30	1/2	Qtz-Py-Pyrr-Cal									
													75	1/8	Qtz-Py-Pyrr-Cal									
													40	h/e	Cal		247							
													35 x 2	1/4 x 2	Qtz-Py-Pyrr-Calx2									
													80 x	1/8 x 2	Qtz-Py-Pyrr-Cal (Pbs)									
													40 x	h/e x 3	Cal x 3							.5	.3	

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ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	Ag	MoS_2	WO_3	ESTIMATED SULPHIDES: PbS	ZnS	Py	Po
												80 & 50	1" & 1/8	Qtz-Py-Pyrr-Pbs & Qtz-Py											
												70	1/8	Chl-Cal-Py-Pyrr				80011	0.02	0.001	0.01				
												70	1/8	Cal-Qtz-Py											
												70 & 50	1/8 x 2	Qtz-Cal-Py x 2		257									
												50 x 3	h/e x 3	Chl-Cal-Py x 3											
												70 & 35	1/16 x 2	Cal-Chl x 2											
												30 x 3 & 70	h/e x 4	Cal x 4											
												80	1/8	Qtz-Py											
												60 & 70	h/e x 2	Chl-Cal-Py								.7	.4		
								79.27				60 x 2 & 70	h/e&1/16x2	Chl-Cal-Py-Pyrr											
												70	1/2	Qtz-Cal-Py-Pyrr											
												70 & 60 x 2	2" & h/e	Qtz-Cal x 2											
												50 & 30	h/e x 2	Cal x 2											
												60 & 20	1/16 & h/e	Qtz-Cal&Py-Cal		267									
												30	1/4	Qtz- Py-Chl											
												30 & 60	1/4 & 1/8	Qtz-Py-Pyrr-Calx2											
												70 x 3	h/e x 3	Cal x 3											
												40 x 3 & 60	h/e x 4	Cal x 4								.6	.3		
								82.32				70	1/8	Qtz-Cal-Py											
												40	1/4	Qtz-Cal-Chl (epid)											
												70	1/16	Py-Pyrr-Cal											
												70 & 30	h/e & 1/16	Qtz-Cal-Py											
												20 x 2	h/e & 1/16	Py-Pyrr-Cal x 2											
												25 & 40	1/4 & 1/16	Qtz-Cal-Py-Pyrr-Chl	Smaller core fragments	277									
												15 & 70 x 2	1/8&1/16x2	Qtz-Cal&Py-Pyrrx2											
												65 & 35 x 2	1/8&h/ex2	Qtz-Py-Pyrr x 2											
								85.17																	

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ROCK TYPES AND ALTERATION: Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.				ESTIMATED SULPHIDES: PbS	ZnS
																						Py	Po
												70 x 2	1/8 x 2	Qtz-Py-Pyrr-Pbsx2									
												70 x 3	1½"&h/ex2	Qtz-Py-Pyrr(Cal)&Calx2									
												30 & 45 x 2	h/e x 3	Cal x 3									
												30 x 4	h/e x 4	Cal x 4									
												70	h/e	Qtz-Cal		287							
										Mod		60	10"	Qtz-Sph-Pbs-Py-Pyrr									
										Prop		50 & 40	1/8 x 2	Py-Pyrr-Cal x 2									
												60	2"	Qtz-Py-Pyrr								.8	.4
								88.41															
												20 & 30 x 2	1/4x2&1/2	Qtz-(Py-Pyrr)	Stockwork of Qtz veins								
												70	1" 99	Gouge									
												45 x 3 & 60	1/8x3&1"	Qtz-Py-Pyrrx3&Qtz		296							
												70 x 4	h/e x 4	Cal x 4									
							Dyke 4 Fine Grained Redish Aplite Dyke? (Hornfels?)					80 x 4 & 5⁰	h/e x 5 99	Cal-Py&Cal-Gouge	-May be Hornfels							.6	.4
												50 x 3	h/e x 3	Cal x 3-(Py)									
								91.46															
												50 x 4	1/16 x 4	Qtz-Cal x 4									
												35	2"	Qtz									
												60 x 2 & 45	1/16 x 3	Qtz-Cal x 3									
												50 & 60 x 2	h/e x 3	Qtz-Cal x 3									
												50 & 45 x 4	1/16	Qtz-Cal-Py x 4		307							
												45 x 5 & 10 x 2	h/e x 7	Cal x 7									
												? & 5	6" 99 & 1/4	Gouge-Cal-Qtz-Cal								.6	.1

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ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS	ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	PbS	ZnS
												45 x 2	h/e x 2	Cal						
												70 x 2 & 45 x 2	h/e x 4	Cal x 4						
												30 & 60 x 2	h/e x 4	Cal x 4						
												30 & 45	1 99 & 1/8	Gouge & Qtz-Py-Pyrr						
												60 & 20	1/4 & 1/16	Qtz-Py-Pyrr-Cal-Py-Cal		315½				
	Grn	3	Diorite									70 x 2 & 30	h/e x 2&1/16	Cal x 2&Py-Pyrr						
			Mod Propylitic AH									25 & 40	1/8 & h/e	Qtz-Py&Cal(cuts 25P)					.5	.3
								97.56												
												35 & 50	4" & h/e	Qtz-Py-Pyrr & Cal						
												60 & 70	h/e x 2	Cal-Py-Chl x 2						
												55 x 2	1/8 & 1/16	Qtz-Cal-Py-Pyrrx2						
												80 x 3	h/e x 3	Cal x 3						
												80 & 70	1/8 & 1/16	Qtz-Cal-Py x 2		325⅓				
		4										70 & 60	h/e x 2	Chl-Py-Cal x 2						
												35 & 70	1/8 x 2	Qtz-Cal(Py-Pyrr)x2						
												30 & 80	1/8 & 1/16	Qtz-Cal(Py-Pyrr)						
																			.4	.2
								100.61												
												40 & 60 & 80	1/8&1/16&h/e	Qtz-Cal-Py-Pyrrx2 & Cal						
												70 & 40 & 60	1/8 99x2&1/8	Gouge x 2&Qtz(Py-Cal)						
												40	1/8 99	Gouge		335				
												70 x 3 & 65 x 2	h/ex3&1/8&¼	Calx3&Qtz-Cal(Py-Pyrr) x 2						
												40	1/4 99	Gouge						
												50 x 2	1/16 x 2	Qtz-Cal-Py-Pyrrx2						
												70 x 3	h/e x 3	Cal x 3						
												50	1/8	Qtz-Cal-Py-Pyrr						
								103.6												

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ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	Ag	MoS_2	WO_3	PbS Py	ZnS Po
												45 x 2 45 60 & 70 70 x 4 75 & 70 70x2 & 60x2	1/8 x 2 3/4" 1" 99 & 1" 1/8 x 4 1/8 x 2 1/16x3&1/4	Qtz-Cal-Py-Pyrrx2 Qtz-Py-Pyrr-Cal Gouge&Qtz-Py-Pyrr Qtz-Cal-Py(Pyrr)x4 Qtz-Cal-Py x 2 Qtz-Cal-Py(Pyrr) x4		346							
								106.71				50 & 60 80 x 3 70 x 3	1/16 x 2. h/e x 3 1/8&1/16x2	Qtz-Cal(Py) x 2 Cal-Chl x 3 Qtz-Cal(py) x 2								.6	.2
												50 80 x 3 50 & 20 60 & 30 70 x 6 80 70 x 3 80 & 70 x 2	1/8 1/4&h/ex2 1/8 & h/e h/e x 2 1/8x2-h/ex4 1/8 h/e x 3 1/4	Qtz-Cal-Py-Pyrr Qtz-Py-Pyrr-Cal&Cal Qtz-Py(Pyrr)&Cal Cal x 2 Qtz-Py-Pyrr-Calx2 &Cal-Chlx4 Qtz-Cal Chl-Cal-Py x 3 Qtz(Cal-Py)&Calx2	Blocky Core	356		80010	0.06	0.001	0.01		
								109.76				80 & 70 x 2 70 x 3 80 & 60 & 70 60 80 x 2 & 40 x 2 70 & 40 x 2 60 & 70 80 x 3	1/4&1/16x2 h/e x 3 1/4&h/e&1/8 1/4 h/e x 4 h/e x 3 2" & 1/4 h/e x 3	Qtz-Cal-Py-Cal Cal x 3 Qtz-Py x 2 Qtz-Cal-Py-Pyrr Cal x 4 Chl-Cal x 3 Qtz-Py(Pyrr) x 2 Cal(Py) x 3	Blocky Core	363 367						.6	.3
								112.80														.5	

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ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS		ESTIMATED SULPHIDES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.		PbS	ZnS
																				Py	Po
									/			60 & 70 x 2	h/e x 3	Cal x 3							
									/			25 & 70	1/2 & 1/8	Qtz-Cal-Gouge-Py-Qtz-Py							
									/			70 x 2 & 30	1/8x2&1/16	Qtz-Py-Pyrr-Calx3							
									/			60 & 50	1/8 & 1/16	Qtz-Py-Pyrr x 2		377					
									/			70 x 3	1/8 x 3	Qtz-Py-Cal-Pyrrx3							
									/			75 & 40 x 2	1/16&h/ex2	Py-Cal&Cal							
									/			30 & 60 x 2	1/8x2&1/16	Qtz-Py-Pyrr-Calx2 &Cal-Py							
									/			75 & 80 x 2	1/4&1/16x2	Qtz-Cal-Py-Py-Pyrrx2						.5	.2
									/			70 & 80	1/16 x 2	Qtz-Cal-Py							
								115.85													
												50	1/8	Qtz-Py-Pyrr							
												80 & 70	1/2 & 1/8	Qtz-Py-Pyrr-Calx2							
												70 & 80 x 3	1/8 x 4	Qtz-Cal-Py-Pyrrx4							
												65 & 70	1/16 x 2	Cal-Py x 2							
												70 x 4	1/8 x 4	Qtz-Cal(Py) x 4		387					
												20									
												80 & 70 x 2	1/4	Qtz-Py-Pyrr							
												60 & 70 x 2	½ & 1/16x2	Qtz-Py-Pyrr-Calx2							
																				.6	.3
								118.90													
												60 & 80 x 2	1/4x2&1/8	Qtz-Cal-Py-Pyrrx2							
												70 & 50 & 30	1/16 x 3	Qtz-Py-Cal-Pyrrx3							
												30 x 4	h/e x 3	Cal x 3							
												50 x 3	1/16&h/ex2	Cal-Py-Chl x 3							
												70 x 2	1/16 x 2	Qtz-Cal x 2							
												70 & 40	1/2 x 2	Qtz-Py-Pyrr-Calx2		397					
												80 x 4	1/16 x 4	Qtz-Cal-Py=Pyrrx4							
												80 x 3 & 60	1/16 x 5	Qtz-Py-Cal-Pyrr							
																				.8	
								121.95													

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Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance		Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.				PbS	ZnS
																							Py	Po
													80 & 70 x 2	1/16 x 3	Qtz-Cal-Chl-Py-Pyrr x 2									
													60 & 70	1/16 x 2	Qtz-Chl-Cal-Pyx2									
													65 & 70	h/e x 2	Chl-Cal-Py x 2									
													60 x 5	h/e x 5	Cal-Chl-Py x 5									
													5 & 70	h/e x 2	Qtz-Cal-Py-Pyrrx2		406							
													80 & 70	1/8 & 1/16	Qtz-Py-Pyrr-Calx2									
													80 & 60 x 3	h/e x 3	Chl-Py-Pyrr x 3									
													60	1/2 inch	Lamprophyre Dyke									
													60 & 70 x 2	h/e x 3	Chl-Py-Cal x 3							.8	.4	
									125.0															
							4	Lamprophyre Dyke			Mod Prop		80 & 50 x 3	h/e x 3	Chl-Cal-Py-Pyrrx4	Dyke is Olive Green color - a few								
								Diorite					60 & 50	1/2 x 2	Qtz-Cal-Py&Qtz-mafic needles	Small Phenocrysts of Plag								
														1/4	Qtz-Py-Pyrr	Broken Core								
													60		Qtz-Cal-Py-Pyrrx3									
													50 & 40 x 2	1/16&h/ex2	Qtz-Cal-Py		416							
													70 x 3	Qtz	Cal-Py-Pyrr x 3	2" Silicious Zone (needles of Mafics)								
													60 x 3	h/e x 3		Discon. veins of Py-Pyrr						.5	.3	
									128.05															
													60	1/8	Qtz-Cal	Calcite vein (hareline) stock work								
													50 x 4	h/e x 4	Cal x 4									
													5 x 2	1/16 x 2	Cal(Py-Pyrr) x 2									
													20 x 3	1/16 x 3	Cal x 3	Plag Phenocrysts range in size up to 1 cm								
							Dyke	Lamprophyre Dyke Olive green					60 x 2	1/8 & 1/16	Cal(Py-Pyrr) x 2		427							
													50 x 6 & 60	h/e x 7	Cal x 7	Broken Core						.2	.1	
									131.1															

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Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	Ag	MoS_2	WO_3	PbS / Py	ZnS / Po
							Green Block Lamp. Dyke					70 x 4 25 x 2 55 x 2 70 & 60 60 & 40 x 3 65 x 4 60 x 3	1/16&h/ex3 1/16 x 2 1/4 x 2 1/8 & 1/16 h/e x 4 h/e x 4 h/e x 3	Cal x 4 Qtz-Calx2 Qtz-Cal Qtz-Cal(Py-Pyrr)x2 Cal x 6 Cal x 4 Cal x 3	Stock work of hairline Calcite veins	437	98%						
								134.15														.2	.1
							Reddish Pink Black - Lamp. Red. Lamp (Hornfels?)					60 70 x 4 55 60 x 3	h/e x 4 2" h/e x 3	Cal x 4 Green Zone-dist. contact Cal x 3	Contact between Green Lamp. Reddish Dyke Grnd 4"	447	95%	80009	0.02	0.001	0.01		
							Black Lamp.					70 80 & 65 20 & 30	1/8 h/e x 2 1/16 x 2	Calcite Cal x 2 Cal x 2	Stock work of hairline Calcite veins Py-Pyrr on fract.	455	60%					.1	.05
								137.20															
							Diorite Black Lamp Dyke (Hornfels?)					50 5 60 50	1/8 1/8 1/2 1	Qtz-Cal(Py) Qtz-Cal Qtz-Py-Pyrr-Cal Qtz-Py-Cal	Grnd Core 4'Grnd								
								140.24														.2	

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ROCK TYPES AND ALTERATION: Qtz. / Plag. / K-Spar / Barites / Accessories / Texture / Hardness / Rock Name Appearance	GRAPHIC LOG: Depth (m) / Rock Type / Alteration / Structure	MINERALIZATION AND STRUCTURES: Angle to Core or Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	ESTIMATED STRUCTURE: PbS / ZnS / Py / Po
					'S' Grand				
		80 40 x 3	1/4 h/e x 3	Qtz-Py-Cal Cal x 3	Grand Core	467	50%	8797	.2 .1
	143.29								
Lamprophyre Dyke		45 x 2 10 45 x 100	1/8 & 1/16 3 4" h/e x 100	Qtz-Cal x 2 Silicious Zone diss Py 100's of hairline fract Cal		477	85%		
		30 x lots	h/e x	Cal-Qtz	1 cm Qtz frag-included in Dyke				.2 .1
	146.34								
Lamprophyre Dyke		30 x lots	hairline x	Calcite-hairline filled fract		487	10%		
Hornfels? Black Fragments		5 x 3	1/16 x 3	Cal-Py x 3	Could be intrusive sed. contact - very difficult to drill - 10-20% core reco Just small fragments recorvered				.1
	149.39								

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					Fragments less than 1" Py (Pyrr) on fractures	496½	20%					
	152.44										.1	.05
Mixed Zone of Lamprophyre Dyke and Hornfels		70 65 & 45	1/16 1/4 x 2	Cap-Py Qtz-Py-Pyrr x 2	65° cuts 45°	502	30%					
						507					.1	.05
	155.49											
Hornfels (Dyke?) Reddish fine grained		75 & 25 80 & 70	1/8 h/e	Qtz-(PY-Cal) x 2 Cal x 2	75° cuts 25°	512	50%					
End of Hole						516					.1	.05
	158.54											

8797

DRILL HOLE 80-2

Abbreviations - h/e - hairline
Cal - Calcite
Qtz - Quartz
Flt - Fault
Py - Pyrite
Pyrr - Pyrrhotite
diss - disseminatted
Chl - Chlorite

ARJUNA OF CAL. LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

SECTION:
LATITUDE: 14285 E
DEPARTURE: 10610 N
AZIMUTH: Vertical
DIP: -90°
ELEVATION: 673.70m
LENGTH: 197.25 m

COLLARED: May 5, 1980
COMPLETED: May 9, 1980
CORE SIZE: N.Q.

CORE LOSS: 197.26m - 27.13
LOGGED BY: G.D. Smith
DATE LOGGED: May 6 - May 23, 1980

HOLE NO.: 80-1
CLAIM NO.: M-163

REMARKS: Drill collared on the "East Lobe" - Diorite
Log Scale 1:60m
3.05m of core split every 30.49m; assayed for Au, MoS2, Cu

Up to	Hard	Joints	Fract	Alteration	Mineral	Hardness	Rock Type and Appearance	Depth (m)	Recovery	Alteration	Mineralization	Angle to Core of Hole	Width of Vein	Mineralization and Packing	Remarks	Rock Type	Recovery (%)	Sample No.	Au	MoS2	Cu
																				Py	Po
10	60	5	20	5	Grn	3	Diorite			WM		30 & 20	h/e & 1/8	Cal x 2	10' of over burden	10					
							Prty Py					10 & 60	1/4 & 1/16	Qtz-Cal & Cal	- 1-2% diss. pyrite	12					
							Altd Cal					20 & 45	h/e	Py&Cal	-Sections less alt'd						
							to			W		10 & 20	h/e x 2	Py-Cal	- 6" - lengths						
							Ser.					20 & 60	1/32 & 1/8	Py&Cal (Pyrr)							
							Chl.			WM		20	1/16	Flt							
												20 x 4	h/e x 4	Cal x 4		17					
										W		40	1/4	Qtz-Cal	2"-bleached zone around Qtz-Cal-Vein						
								6.10													
15	55	5	20	5	Sil	4				Mod		5 & 60	1/2 & 1/8	Cal-Qtz- x 2	Diss. Py & Pyrr						
							Bio					20 & 10	1/16 & h/e	Cal x 2							
							Hbld.					10 & 20	1/4 x 2	Qtz-Cal-Py x 2							
10	Gr				Grn							20	1/8	99							
	Tinge					3				Blocky	?		1/8	99 Flt							
												70	1/4	Qtz-Cal		27					
								9.15													
5	50	5	15	3		4	Diorite					45	1/4	99 Flt	Rock competency increases	37					
							Mafics a p					60 & 45	h/e x 2	Cal x 2							
							[illegible]														
							for the most					60	1/8	Qtz-Cal	2'-3' - Solid pieces						
							part.			Weak		40	1/16	Py & Mafics							
												85	1/16	Cal-Py-Trace(Pyrr)							

DIAMOND DRILL RECORD

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

8797

Qtz	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	Sample No.	Ag	MoS_2	WO_3	Py	Po
												60	h/e	Cal-Py									
												30 & 40	1/8 x 2	Qtz-Cal-Py x 2									
												20	1/4	Qtz-Cal-Py(Pyrr)									
												50 x 2	1/16 x 2	Cal-Py x 2									
												45 & 35	1" & 1'	Qtz(Cal) & Sil. zone-Qtz vein	Brownish-Tinge (Biotite)	47							
												50 & 65	3/4" & 1/16	Qtz-Py	-increase in pyrite xtal size up to 2 mm.								
								15.24														1-2%	.02
												35	h/e	Py-Cal									
												40	1/8	Qtz-Cal-Py									
												30	1/8	Qtz-Py	Py & diss. Pyrrhotite								
												45 & 50	1/16 & 1/8	Qtz-Cal-Py x 2				80008	0.02	0.001	0.02		
												45 & 20	1/16 x 2	Qtz-Cal-Py x 2		57							
												30 & 25	1/16 x 2	Qtz-Cal-Py									
								18.29														1-2%	.02
15	60	5	19	1	Grn	4	Diorite			Weak to Mod		40	h/e	Py-Cal									
			Bio 15									20 & 40	h/e x 2	Py-Cal									
			Hnbld 4									40	1/8	Cal-Mafics (Py)			95.99						
												35	1/2	Qtz-Py									
												30 x 3	h/e x 3	Py x 3	Diss-Py-Pyrr	67							
												40	1/8	Qtz-Cal									
15	55	5	19	1		4						20 & 10	1/2 & 1/8	Qtz(diss-Py-Cal)	Solid Core								
												35 & 45	h/e x 2	Cal x 2	2'-3' lengths								
								[illegible]														1%	.02

[illegible]
KIRKLAND LAKE
DIAMOND DRILL RECORD

SECTION:
PROPERTY:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LOCATION:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LENGTH OF:
DATE LOGGED:

LOGGED BY:

Page 6
Hole No.

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Calcite	Accessories	Texture	Hardness	Rock Name, Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	Ag	MoS_2	WO_3	Estimated Sulphides: Pbs	ZnS	Py	Po
										Prop		45 x 2	h/e x 2	Py x 2											
												55 & 10	1/4 & 1/16	Qtz-Py & Py											
												40	1/16 99	Cal & Gouge											
										Sil		20 x 2 & 10	1/8 x 3	Qtz (Py) x 3											
												20 x 2 & 55	1/16x2&1/4	Qtz (Py) x 3											
												45 & 25	1/8 x 2	Py (Qtz) Pyrr	45° Py vein cuts 25°		77								
												30 x 2	1/16 x 2	Py & Pyrr	Py vein off, two Py										
												45	1/8	Py-Qtz-(Cal)	stages										
			Biotite has reddish hue																						
								24.39																	
												45	1/8	Qtz-Py											
												45 & 25	1/8 & h/e	(Py)-Qtz-Cal-Py											
												45	2"	Qtz (Py)											
			Slight increase by 2-3%									50 x 2	1/8 x 2	Qtz-Py(Reddish Tinge)-Py?											
												45 & 20	1/8 & 1/16	Qtz-Py x 2			87								
												45 & 20	1/16 x 2	Py-Pink-Red-Py-Chl?-green material surrounded by Py											
			Chl?									60 & 45 x 2	1/8&1/16x2	Qtz-Py&Py-Qtzx2								1%	--		
								27.44				40 & 20	1/16 & h/e	Chl-Py											
												40	1/16	Py-Chl-Cal											
												20 x 2	h/e x 2	Py-Cal x 2											
			Dyke Fine grained (green)						Dyke			35	1'	Qtz vein-with-massive pods - sheared along contacts of Py			97	80007	1.28	0.001	0.01				
												35	1/2	(Pbs-Zn?-Cpy) Py-Galena-Zn?-Cpy Ag?									.05	Tr.	
												30	3.5"-5"	Massive sulphide vein at contact of dyke H.W. & Qtz vein F.W.-Pbs-Py-Zn?											
			Biotite					30.48				50	h/e	Cal-Py	Py & (Cpy)								3%		
												30 x 2	h/e x 2	Cal & Py x 2											

95-99

977

1-2% .05

ALLIED CHEMICAL CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

SECTION:
LOCATION:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
DATUM:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

RELATED:

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES						Recovery (%)	CORE ASSAYS				ASSAYS OF MINERALIZED SECTIONS	
Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocks			Sample No.				PbS / Py	ZnS / Po
20	55	5	19	1	Grn	4	Bio Py Red Brown Tinge			Weak to Mod		45 45 & 30 55 20 40 & 45 30 x 2 25 x 2	h/e h/e 2 1/2" h/e h/e x 2 h/e x 2 h/e x 2	Py-Cal Py-Cal(Chl)x2 Qtz(Py) Py Py-Cal x 2 Py-(Chl) x 2 Py-Chl-Cal x 2		107							.5	--
								33.54		M Weak Prop		40 10 & 40 35 20 & 35 & 40 40 x 2 45 45 x 2	1/2 1/8 & 1/4 1/2 h/ex2&1/4 h/e & 1/16 1/16 h/e & 1/16	Qtz (Py) Cal-Py-& Py Qtz-Py-Cal Calx2&Qtz-Py-Cal Py-Cal x 2 Py-Cal Py-Pyrr-Cal x 2	Diss-Py	117							.5	--
								36.59				35 x 3	1/8 x 3	Qtz-Py(Cal) x 3	Very solid Core 3' lengths									
Decrease in Diss Py										Weak Prop		45 x 2 35 & 25 20 & 35	1/8 x 2 1/8 x 2 1/8 x 2	Qtz-Py-(Cal) x 2 Qtz-Py-Pyrr-Calx2 Qtz-Py-Cal x 2	- Almost unaltered Quartz-Diorite	127	Est 98%							
								39.63																

877

ARNAK OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
ID SIDE:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

FOOTAGE:

BASE LINE: 80+1
GRID NO.: M-163

5 11 22

MAIN TYPES ALT ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED PERCENTAGES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	Ag	MoS_2	WO_3	Pbs Py	ZnS Po
20	55	5	19	1 Py	Grn	4	Diorite					20 x 2	1/16	Py-Cal x 2									
												35 & 30	1/8 x 2	Py-Cal(Qtz) x 2									
												35 & 30	1/16 & 1/8	Py-Cal(Qtz) x 2			137						
												30	1/16	Py-Cal(Chl)									
												55 x 2	1/4 x 2	Py(Cubes)&Qtz x 2									
								42.68															
												50 & 20	1" & 1/16	Qtz(Py) & Py	Later Py vein cuts Qtz-Py @ 20°								
												55 & 20	1/8 & 1/16	Qtz-Py & Py-Cal									
												30	1/16	Py (Cal)									
												30 & 45	1/8 & 1/16	Py-Pyrr-Cpy?-Cal			147						
												20	1/8	Cal (Py)									
								45.73															
												45	1/8	Qtz-Cpy-Cal									
												30 x 2	1/8 x 3	Qtz-Py-Cal x 3									
												20	1/8	Py-Qtz-Cal				80006	0.02	0.001	0.03		
												45	1/4	Qtz (Py)			157						
												10 & 25	1/2 & 1/8	Qtz-Py-Pyrrhotite?									
												20 & 45 x 2	1/4&1/8x2	Qtz-Py-Pyrr&Qtzx2									
												20 & 10	1/16 x 2	Cal-Py x 2									
								48.78															

Decrease to 10-15% Bio

Weak to Mod

E 98

8PT

DIAMOND DRILL RECORD

Page 6 of 22

SECTION:
LATITUDE:
DEPARTURE:
ACIMUTH:
DIP:
FOOTAGE:
DATE:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

HOLE NO. SD-1
CLAIM NO. M-163

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	CORE ASSAYS			ASSAYED FOR
Qtz.	Plag.	K-Spar	Biotite	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks		Recovery (%)	Sample No.		PbS ZnS Py Po
						3						30 & 40	1/16 x 2	Qtz-Py-Cal x 2						
												25 x 2	1/16 x 2	Py(Chl-Cal) x 2						
												55 x 2	1/8 x 2	Qtz(Py)(Pbs) x 2						
												55	2"	Qtz(Py)		167				
												25	1/4	Qtz-Py-Cal						
										Weak		45 & 20	1/8 & 1/16	Qtz-Py&Py(Chl)						
								51.82		Prop		45	1/4	Qtz						1
						4						20	1/4	Qtz-(Py)						
												30 x 3	1/16 x 3	Qtz (Py) x 3						
										Weak		50	1/2" & 1"	Gouge & Qtz-Py	Diss Py-Pyrr					
										to		35 x 2	1/8 x 2	Qtz-Py-Pyrr-Calx2	Grnd 2" of core.	177				
										Mod		45	1/2	Qtz-Py-Pyrr						
								54.88												.5 .06
												40 & 35	1/8 x 2	Qtz-Py(Pyrr)						
										Weak		35 & 30	1/8 x 2	Qtz-Py-Pyrr x 2						
										Prop		35 x 2	1/8 x 2	Qtz-Py(Pyrr)-Calx2						
												20 & 30	1/16 x 2	Cal&Py-Cal		187				
												20	1/16	Cal-Gouge	Slicken sides at 50° to					
												10 & 35	1/8 x 2	Qtz-Cal-Py	Gouge surface.					
								57.33												.03

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DIAMOND DRILL RECORD

HOLE No: 80-1
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
CENTRE:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
TARGET EL:
DATE LOGGED:

FILMS:

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name / Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Hole	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.				DISSEMINATED SULPHIDES: Pbs	ZnS	Py	Po
												45	1/4	Qtz-Py-Pyrr											
												35 & 10	1/8 x 2	Qtz-Py-Cal x 2											
												50 & 35	1/16 & 1/8	Qtz-Pyrr&Py x 2	Pyrr Py										
												45	1/8	Qtz-Py-Pyrr		197									
												35	1/8	Qtz-Py											
								60.98														.5	.05		
												45 & 20	1/3 & 1/16	Py-Qtz-(Pyrr) x 2											
	Grn		Diorite									25	1/16	Cal- Grey -Manganese Zeol?											
		4										35	1/2 & 1/8	Qtz-Py-Pyrr x 2		207									
												5	1/16	Qtz-Py											
												40 & 35	1/8 & 1/16	Qtz & Cal											
												90 & 45 x 2	1/16	Cal-Py x 3	Grnd 2"										
								64.02		Mod		10	1/4	Qtz-Cal-Py(some is cubes - increase in Chl?								.5	.2		
												40 & 20	h/e x 2	Qtz-Cal (Py)											
												40	1/8	Qtz-Cal (Py)											
												40 x 2	h/e x 2	Cal x 2											
												20 & 30	1/8 & 1/16	Qtz(Py)&Py-Qtz-Cal											
												40 & 45 & 20	1"&1/8&h/e	Qtz(Py-Pyrr) x 2											
												45 x 2	h/e x 2	Qtz-Py x 2		217									
			Slight Decrease 5%									45	1/4	Qtz-Cal-Py		219							.5	.2	
								67.07		Mod															

877

TRADE OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

SECTION:
LATITUDE:
DEPARTURE:
ACIMUTH:
DIP:
ELEVATION:
DRIVEN:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

BEARTS:

HOLE NO:
CLAIM NO:

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	Ag	MoS_2	WO_3	ESTIMATED SULPHIDES: PbS	ZnS	Py	Po
							Occasional White Phenocrysts of Qtz ground mass greener (Chl)			Mod		45 x 3	h/e x 3	Cal x 3											
												40 & 45	1/16 x 2	Qtz-Py-Pyrr& Cal		222									
												45 x 3	1/16 x 3	Qtz-Cal-Py-Pyrrx3											
												40 x 2 & 45	1/16 x 3	Qtz-Cal-Py x 3											
												40	1/16	Qtz-Cal											
								70.12																	
							Ground mass is quite dark (Chl)					45 x 2 & 60	h/e x 3	Py-Pyrr&Chl&Calx2				8 0005	0.36	0.001	0.01	.5	.2		
												45 x 2	h/e x 2	Chl-Cal-Py x 2		232									
												40	1"	Qtz-(Py-Galena-Sphal-Cal)											
												45 & 20 x 2	1/16&h/ex2	Qtz-Py-Cal x 2											
												45 x 3	1/16 x 3	Qtz x 3											
												45 x 3	1/16 x 3	Qtz(Cal-Py) x 3											
								73.17				45 x 3 & 25	h/e x 2	Cal x 3 & Qtz								.5	.2		
												40 x 3 & 15	h/e x 3	Cal(Py) x 3											
												70 & 45	h/e x 2	Py-Cal x 2		243									
												60 & 25	1/8	Qtz-Py x 2											
												45 x 3	1/16 x 3	Qtz-Cal(Py) x 2											
												45 x 3	1/16 x 3	Qtz-Cal(Py) x 3											
												45 x 2	1/8 & 1/16	Qtz-Py-Pyrr (Cpy)	Alt's mafics around Qtz veins										
												40 x 3	1/16&1/8x2	Qtz(Py-Cal) x 3	-have brown red tinge.										
								76.20														.6	.3		

8777

KITSAULT MINE

DIAMOND DRILL RECORD

SECTION:
LATITUDE:
DEPARTURE:
ELEVATION:
LOG:
COMMENCED:
COMPLETED:
CORE SIZE:

BOH DEPTH:
LOGGED BY:
DATE LOGGED:

RELOGGED:

HOLE NO: 80-1
PLAN NO: M-163

ROCK TYPES AND ALTERATION: Qtz. / Plag / Chl Span / Matrix / Accessories / Texture / Hardness / Rock Name Appearance	GRAPHIC LOG: Depth (m) / Rock Type / Alteration / Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width of Vein	Mineralization and Packing	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	Pbs	ZnS	Py	Po
		45 x 3	1/16 x 3	Qtz(Py-Cal) x 3		253						
		40 x 3	1/16 x 3	Qtz-Py x 3								
		40 x 6 & 70 x 2	1/6x6&h/ex2	Qtz-Py-Cal x 8								
	Chl decreases	50 x 3 & 20 x 2	h/e x 5	Cal-Qtz(Py) x 5								
	Rock is a lighter color	50	1/8	Qtz-Py-Cal	2" - bleached zone around Qtz vein.							
79.27		40 & 45 x 2	1/16 x 3	Qtz-Cal(Py) x 3					.5	.2		
	Darker Chl.	60 & 30	1/16 x 2	Qtz-Cal x 2		263						
		30	h/e	Cal-Py								
		45 x 3	1/16 x 3	Qtz-Cal-Py(Pyrr)x3								
		45	1½"	Qtz-(Py)								
		45 x 2 & 30	1/16x2&h/e	Cal-Qtz(epid)								
	Decrease in Chl.	45	1"	Qtz-Py(Pyrr)								
82.32									.5	.2		
	Ground mass is lighter in color	45 x 3	1/16 x 3	Qtz-Cal(Py) x 3		273						
		45 x 4	h/e x 4	Cal-Py-Pyrr x 4								
		40 & 45 x 2	1/16&1/8x2	Qtz-Cal-Py(Pyrr)x3								
		45 x 2	1/8 & 1/16	Qtz-Cal-Py x 2								
		25 & 30	1/16 x 2	Qtz-Cal-Py	Plag - has grey greasey look				.2			
		45 & 20 x 2	1/8& 1/16x2	Qtz-Cal-Py x 2								
85.37									.5	.2		

8777

KINSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
LOCATION:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

RELATES:

ROCK TYPES AND ALTERATION: Qtz. / Chap. / K-Spar / Ratios / Accessories / Texture / Hardness / Rock Name / Appearance	GRAPHIC LOG: Depth (m) / Rock Type / Alteration / Structure	MINERALIZATION AND STRUCTURES: Angle to Core or Axis	Width or Vein	Mineralization and Faulting	Remarks	Fault and Shear Zones	Recovery (%)	CORE ASSAYS: Sample No.	PbS	ZnS	Py	Po
		45 x 2	1/8 & 1/16	Qtz-Py-Pyrr-Calx2								
		20	1/16	Cal-Qtz								
		25	1/2	Qtz-Cal-Py-Pyrr			284					
		35 & 20	1/8 & 1/16	Qtz-Py-Pyrr x 2								
		40	h/e	Cal-Py-Pyrr	Mafics generally alt'd to Chl							
		25 & 30	1/16 x 2	Qtz-Cal-Py	Hnbld Bio						1%	.5
	88.41											
		45 & 20 x 2	h/e x 3	Qtz-Cal-Py-Pyrr								
		45 & 20	1/8 &1/16	Qtz-Cal x 2								
		45	1/8	Qtz-Cal			294					
		45 x 2	1/16 x 2	Qtz-Cal-Py								
		50 & 45	3/4" & 1/2"	Qtz-Py-Pbs&Pyrr& Cal-Qtz								Tr.
		45 x 2	1/16 & 1/8	Qtz-Cal-Py x 2								
		20 & 45	1/8 x 2	Py-Pyrr&Qtz-Cal	Increase in Chl.						1%	.5
	91.46											
2 Vein-Gouge-Int Alt'd Zone Diorite	Intense	60	7"	Qtz-Py-Pyrr	Diss-Py-in Gouge		305					
		60	6" 99	Gouge-Diss-Py-Pyrr								Tr.
		45	1/4	Qtz-Py-Pyrr-Pbs								
		50 & 35	1" & 1/4	Qtz-Py-Pyrr-Pbsx2							.7	.3
	94.51											

8777

DIAMOND DRILL RECORD

80-1
M-163

Depth (m)	Rock Type	Alteration	Structure	Angle to Core Axis	Width of Vein	Mineralization and Texture	Remarks	Footage	Assays PbS	Assays ZnS	Assays Py	Assays Po
				20 x 2	h/e x 2	Py-Pyrr-Cal-Chlx2						
				45 x 2	h/e x 2	Chl-Py-Cal x 2						
				20 & 30	h/e	Py-Pyrr-Cal x 2						
				45	1/16	Py-Pyrr-Cal	Ground 6"	315	95			
				40	1/8	Qtz-Cal						
				45 & 20	h/e x 2	Cal-Chl-Py x 2						
				40 & 20	h/e x 2	Cal-Chl-Py x 2				.6	.3	
97.56												
				45 & 20 x 2	1/16 & h/e	Py-Pyrr x 2						
				20 & 45	h/e x 2	Cal-Py-Pyrr x 2						
				30 & 20	1/16 x 2	Py-Pyrr-Cal x 2		325				
	Diorite - Very weakly alt'd Mafics are fresh			45	1/4	Qtz-Py-Pyrr						
				20 x 2 & 35	1/16 x 3	Cal-Py-Pyrr x 3						
				45 & 50	1/16 x 2	Qtz-Py-Pyrr	Bio Hnbld			.5	.2	
100.61												
	Lose green ground mass of chlorite			20 & 45	h/e x 2	Pyrr&Py-Cal x 2						
				45 x 2	h/e x 2	Py-Pyrr-Cal x 2						
				20 x 2	h/e x 2	Cal-Py-Pyrr x 2						
				45	1/8	Qtz-(Py-Pyrr)		335				
103.66										.1		

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ATTACK OF CANADA LIMITED

KIRKLAND LAKE

DIAMOND DRILL RECORD

PROP. No.: 80-1
CLAIM NO.: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LOCATION:

STARTED:
COMPLETED:
SIZE CORE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

BEARING:

ROCK TYPES AND ALTERATION: Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	Ag	MoS_2	WO_3	ESTIMATED PERCENTAGES: PbS	Py	ZnS	Po
							Weakly alt'd Diorite		/	Weak		25	1/16	Qtz-Py-Cal											
									/			45	1/8	Qtz-(Py-Pyrr)											
												40	1/4	Qtz-(Cal)											
												40	1/8	Qtz-Hnbld - partly replaced by pyrite		346									
												20	1/8	Qtz-(Py-Cal)											
												20	1/4	Qtz-Py-Pyrr											
												35 & 40	h/e x 2	Qtz-Py-Pyrr											
								106.71				25 x 2	h/e x 2	Cal x 2									.6		.3
												45	1/16	Qtz											
												15	1/4	Qtz(Py-Pyrr)	Bio - slightly alt'd to			80004	0.02	0.001	0.03				
												25	8"	Qtz(Py-Pyrr)	drown - in vincinty of Qtz	356									
												50 & 20	1/2 & 1/16	Qtz (Py)	veining. 20^0 vein cuts 50^0 vein										
																							.6		.3
								109.76																	
							Zone of Hornblende needles					5 & 40	1/8 x 2	Qtz-Py-Pyrr-Qtz	5^0 cuts 40^0										
												20 & 60	1/8	Qtz											
												45	1/8	Qtz		366⅔									
												4													
							Lamprophyre Dyke					40	1/8	Qtz											
												40	1/2"	Qtz-Py-(Pyrr)											
												35	1 1/1	Dyke											
								112.80		Mod Prop		20 & 35	1/4 & 1/16	Qtz & Qtz- Ser									.5		

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ATLAS OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LE STA:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

HOLE NO.: 80-1
CLAIM NO.: M-163

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				SPECIFIED SPECIMENS	
Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks			Sample No.				PbS	ZnS
										Mod Prop		40	1/8	Qtz								Py	Po
												40	4"	Qtz-Py-(Pyrr)		377							
							Lamprophyre Dyke					50	3½"	Black-green Lamp Dyke 1-2 mm white pheocrysts - of Plag.									
												25 & 5 & 20	1/4 & h/e	Qtz&Qtz-Py x 2	5° cut by 25° and 20° cuts 25° - 3 stages							.4	.1
								115.85				15 x 3	1/4&1/2x2	Qtz x 3									
												35	1/8	Qtz									
												15 x 5 & 45	1/4&1/8 x 2	Qtz x 3	45 cuts 15 off.								
												15	1/2 99	Gouge - Clay		387							
												45	1/16	Qtz-Py(Pyrr)									
												20	2'	Lamp Dyke								.4	.2
							Lamprophyre Dyke	118.90				20											
							Lamprophyre Dyke					40	1/2	Qtz									
												25 x 4	1/8x3&h/e99	Qtz x 3	Qtz veins displaced by 25° Flt.								
												35	1/4	Qtz-Cpy									
							Lamprophyre Dyke					30		Dyke Contact									
												35	1/8	Qtz-Cal								.4	
							Diorite	121.35				30 x 3	1/8 x 3	Qtz x 3									

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[redacted] OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO.: 80-1
CLAIM NO.: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

INCLINED:
VERTICAL:
HOLE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocked	Recovery (%)	CORE ASSAYS: Sample No.				DISSEMINATED SULPHIDES: PbS	ZnS	Py	Po
							Mixed Zone Diorite Dyke and some Breccia					5 & 50	1/16 x 2	Qtz-Cal-Py x 2											
												25		Contact of Diorite - Basic fine grained Dyke											
												20	1/8	Qtz-Cal-Py-Pyrr											
												40 x 4	h/e x 4	Cal-Py (Pyrr)	Stock work of hairline fractures coated with Py-Pyrr	407									
							Silicified Breccia	125.00				40 x 2	h/e x 2	Py-Pyrr x 2	Fragments of Dyke and Cherty fragments										
												40 x 2.	1" & 1/2"	Qtz-Py-Pyrr x 2									1%		.5
							Silicified Breccia cont.					45 x 3	1/2 & 1"	Qtz-Py-Pyrr x 3											
												40 x 8 & 15	1/16x8&1/4	Qtz(Py-Pyrr)x8%	Qtz cut by 45° veins										
												15	1/2"	Qtz-Py-Pyrr(Massive Zeol)											
												45 x 3	1/8 x 3	Qtz-Py-Pyrr x 3		417	Est 98%								
							Fragments of Diorite-Lamprophyre Dyke - Silicious Zones	128.05				40 x 2	1" x 2	Qtz(Py-Pyrr(Pbs))	Diss-Py-Pyrr										
												40 & 45 x 6	1/16 x 6	Py-Pyrr-Qtz-Cal x6	Stock work of Qtz-Py veins										
												20	3/4"	Qtz-Py-Pyrr-Cal											
												40 x 3	1/8	Qtz-Py-Pyrr x 3									1.0%		.6
												25 x 2	1/16	Qtz(Py-Pyrr)	At least 3 periods of Qtz veining										
												45 x 2	1/16 x 2	Qtz-Cal-Py-Pyrrx2											
												20 rx contact				427									
							Diorite vein Silicious					40 x 3	1/16 x 3	Qtz-Py-Pyrr	Looks a little like a aplite Dyke										
												45 rx contact													
							Silicified Breccia	131.10																	.8

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AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	Sample No.	Ag	MoS_2	WO_3	PbS / Py	ZnS / Po
												45 x 3	1/8 x 3	Qtz-Py-Pyrr	Stock work of hairline Qtz								
												20 x 3	h/e x 3	Cal-epid-Chl? x 3	veins 10 to an inch	433							
												40 x 5	1/16x3&h/ex2	Qtz-Cal-Py-Pyrr									
												40 x 6	h/e x 6	Qtz-(Py-Pyrr)x6									
												45 & 40	1/8 & 1/16	Qtz-Cal-(Py-Pyrr) x 2		439		8117				1.0%	.6
								134.15															
												45 & 40	1/8 x 2	Qtz-Cal x 2									
												45 x 2	1/8 & 1/16	Qtz-Cal(Py-Pyrr) x 2									
												45 & 40	1/16 x 2	Qtz-Cal x 2		447							
												30 x 6	h/e x 6	Qtz-Cal(x6)(Py-Pyrr)									
												40 x 4 & 45	h/e x 5	Qtz-Cal(Py-Pyrr) x 5									
												40	1/2	Qtz(Biotite along contact)								.8	.5
								137.20															
							Mixed Zone - decrease in Fragments - increase in Diorite					35 x 6	h/ex5&1/16	Qtz-Cal(Py-Pyrr)x6	Stock work of Qtz-Py 1' Green Chloritic zone								
												45 x 2	1/16 x 2	Qtz-Cal(Py-Pyrr)									
												40	1/4	Qtz(Py-Ser)				80003	0.02	0.001	0.01		
												40 & 45 x 3	1/16 x 2	Qtz-Cal x 4		457							
												40 x 5	h/e x 5	Qtz-(Cal) x 5									
												35 x 6	h/e x 6	Qtz-(Cal)-(Py-Pyrr) x 6									
												40 x 3 & 45 x 3	1/16 x 6	Qtz(Cal-Py-Pyrr)x6									
												25 x 4	h/e x 4	Qtz-Cal(Py-Pyrr)x4								.6	.4
								140.21															

AMOCO [illegible] LIMITED

KIRKLAND LAKE MINE

DIAMOND DRILL RECORD

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SECTION:
LATITUDE:
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DIP:
ELEVATION:
LENGTH:

HOLE NO: 80-1
CLAIM NO: M-163

COLLAR:
ALTITUDE:
CORE SIZE:

DIP TESTS:
DRILLED BY:
DATE CAPPED:

REMARKS:

ROCK TYPES AND ALTERATION: Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appendance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.			PbS	ZnS	Py	Po
							Silicified Breccia					45 & 40 x 3 20 & 30 25 40	1/8&1/16x3 h/e x 2 1/8 3"	Qtz(Cal-Py-Pyrr)x4 Cal-Qtz x 2 Qtz-Cal-Py-Pyrr Sil-Zone	2"-4" Fragments of Hornfels Silicious Pods	467								
							Diorite	143.29				45 x 3 45 x 3 35 x 6	1/8&1/16x2 1/16 x 3 1/2&1/16x5	Qtz-Cal(Py-Pyrr) Qtz-Cal-Py-Pyrrx3 Qtz-Ser-Py-Pyrrx6	Stock work of hairline Qtz-Cal vein lets						.6	.3		
							Mafics are smaller less than 1 mm					30 40 x 3 20 & 45 40 & 45 45 40 x 3	1/16 h/e x 3 1/16 x 2 1/4 x 2 1/16 1/16 x 3	Cal-Qtz Qtz-Cal-(Py-Pyrr) x 3 Qtz-Py-Ser x 2 Qtz-Py-Pyrr Qtz-Py-Ser Qtz-Py-Pyrr-Serx3		477								
							Silicified Zone	146.34				40	2'	Silicious Zone	Hornfels Fragments on Contacts of Sil Zone.						.6	.3		
							Silicified Zone Diorite					40 50	1/4 h/e	Qtz-Py Massive-Py-Pyrr on Frct	Diss-Py-Pyrr Hornfels Fragments in Diorite	487								
												40 x 3 40	1/16 1/2&1/8 x 2	Qtz-Py-Pyrr Qtz-Cal-Py&Py x 2	Vein lets cross cut both Diorite & Hnfls - Some vein lets Qtz-Py						.5	.2		

149.39

RANGE OF CANADA LIMITED

KINSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
ELEVATION:
DIP:
BEARING:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LENGTH OF:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name / Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	ESTIMATED % SULPHIDES: PbS	ZnS	Py	Po
						4	Mixed Zone of Diorite and Hornfels Fragments - (Silicified)					50 x 4 & 20	1/16 x 5	Qtz-Cal-Py-50 cuts	20° Py - are just in the Hornfels fragments - suggesting Hornfels was mineralized before the intrusion of the Diorite - (Hnf - diss-Py-Pyrr)	497						
												60	1/2	Qtz-Py-Pyrr								
												40 x 3	h/e x 3	Qtz-Cal(Py) x 3								
												40 x 3	h/e x 3	Qtz-Cal x 3								
												30 x 3	1/8&h/e x 2	Qtz-Cal-Py-Pyrrx2								
												30 x 3	h/e x 3	Py-Pyrr x 3								
												40 x 2 & 20	1/16 x 2	Qtz-Cal & Py								
								152.44				20 x 2	h/e x 2	Cal-Py-Pyrr x 2								
												45 x 2	1/8 & 1/16	Qtz-Cal-Py x 2	Stock work of hairline fractures							
												40	1/8	Qtz-Ser-Cal-Py (Pyrr)								
												40 x 5	h/e x 5	Qtz-Cal x 5		507						
												35 x 3	1/8 x 3	Qtz-Ser-Cal								
							Breccia fragments of -Hornfels -Silicified(Mat) -Diorite					40 x 3	1/8 x 3	Qtz-Cal-Py-Pyrrx3								
												40	1/8	Qtz-Py-Cal	Numerous fractures forming							
								155.49				40	1/8	Qtz-Cal-Chl-Py	a stock work of Calcite-Py-Pyrr							
												45 x 3	h/e x 3	Cal-Py x 3								
												50 & 30	1/16 & h/e	Cal-Qtz(Py) x 2	30° displaces 50°							
												45 x 2	1/16 x 2	Qtz-Py-Pyrr x 2								
												60 & 45	1/2 & 1/16	Qtz-Ser-(Py) x 2		516½						
												30 & 35 x 2	1/8	Qtz-Cal & Qtz-Cal (Py) x 2								
												80	1"	Qtz-Ser								
												45 & 20	1/8 x 2	Qtz-Ser x 2								
								158.54				45 x 10	h/e x 10	Qtz-Cal(Py-Pyrr)x10								

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ARNOLD OF CANADA LIMITED

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KINSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

STARTED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS				ESTIMATED PERCENTAGES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.	Ag	MoS_2	WO_3	PbS Py	ZnS Po
									▽△ △▽ △▽ ▽△ △▽			45 x 20	1/8x3&h/ex17	Qtz-Cal(Py-Pyrr)x20									
												40 x 5	h/e x 5	Qtz-Cal(Py-Pyrr)x5									
												30 x 4	h/e x 4	Qtz-Cal(Py) x 4	Stock work of Calcite filled fracture of various orientation mostly 40-45 to core axis.								
												60	3/4	Qtz-Cal-Py-Pyrr		527							
								161.59															
							Contact Zone					30	1/8	Qtz-Cal(Py-Pyrr)									
												40 x 3	h/e x 3	Qtz-Cal-Py-Pyrrx3									
20	50	5	20				Diorite					25 x 3	h/e x 3	Cal(Py-Pyrr)x3				80002	0.02	0.001	0.01		
			Bio									20	h/e	Cal-Py		537							
												40	1/4	Cal-Py-Pyrr									
												35 x 2	1/8 x 2	Qtz-Py-Pyrr x 2									
												25 x 2	1/8 x 2	Qtz-Py-Pyrr-Calx2									
								164.63															
												20 & 30	h/e x 2	Cal x 2									
												40	3/4	Qtz-Cal(Py)									
												20	1/4 gg	Cal-Granulating bonds of Chl-Cal		547							
												25	1/16 x 2	Qtz-Cal x 2	Quartz veins with needles of Hnbld up to 1" long								
								167.68															

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ANACONDA OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
LOCATION:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION: Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name / Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.				ESTIMATED SULPHIDES: PbS	ZnS	Py	Po
												70	1/8	Qtz-Cal											
												20	h/e	Chl-Py		557									
												60 & 20	1/16 x 2	Cal(Py) x 2	Qtz-veins with Hnbld needles 3/4" long										
								170.73														.4	.2			
							Lamprophyre Dyke					20	1 1/2'	Dyne-some pheros of plag & Mafics 1 mm											
							Lamprophyre Dyke					20	1/8	Qtz-Cal		567									
							Lamprophyre Dyke	173.78				0 20 60 x 2	1/8 1/8 h/e	Qtz-Py-Pyrr Cal-Chl Cal x 2								.4	.2		
							Mixed Zone Breccia - Diorite					50 35 20	1/4 1/2 1/8	Shear Zone(Py-Pyrr) Qtz-Cal Qtz-Cal-Py		577									
												40 40 40 & 60 80	1/4 1/2 1/8 x 2 1"	Qtz-Py-Pyrr Qtz-Py-Pyrr Qtz-Cal-Py-Pyrrx2 Qtz-Chl	Green Silicious Swirls										
								176.83				30	1/4	Qtz								.3			

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ADAK OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

FILE NO: 80-1
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
REMOTE:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION: Qtz.	Plag.	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocks	Recovery (%)	CORE ASSAYS: Sample No.	Ag	MoS_2	WO_3	ESTIMATED SULPHIDES: PbS	ZnS	Py	Po
												70	1"	Qtz-Py-Pyrr											
												70	1/16	Py-Pyrr											
				35% Bio			Diorite					35 x 2	h/e x 2	Qtz x 2											
							Mixed Zone					20 & 30	1/8 & 1/4	Qtz x 2	Very Silicious	587									
							Breccia - Diorite					30 x 2 & 20	h/e x 3	Cal-Py-Pyrr x 3	Stock work of Qtz-Cal fractures.									.3	.1
								179.88																	
												30 & 20	h/e x 2	Cal-Py-Pyrr x 2											
												70	4"	Sil - green zone											
												30 x 4	h/e x 4	Cal-Qtz(Py-Pyrr) x 4	Hornfels frag surrounded by Qtz	597									
			4									60	1/2	Qtz											
												40	1/4	Qtz-Cal (Py)											
												40	1/4	Qtz										.5	.2
								182.93				30 x 3	1/16 x 3	Cal-Qtz(Py) x 3											
												20 & 40 x 4	h/e x 4	Cal(Qtz) x 4	Very Silicious-Hnfls										
												50	1/4 99	Qtz-Gouge	Frag partly alt'd to Hematite			80001	0.02	0.001	0.01				
												30 & 40	1/4&h/ex6	Qtz&Qtz-Cal x 6	5" Qtz-Silic Zone	607									
												60	1/4	Qtz											
												35 x 2	h/e & 1/16	Qtz-Cal-Py-Pyrr											
												30 x 3	h/e x 3	Qtz-Cal x 3										.6	.3
								185.38																	

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AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
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CORE SIZE:

DIP TESTS:
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DATE LOGGED:

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ROCK TYPES AND ALTERATION								GRAPHIC LOG				MINERALIZATION AND STRUCTURES				Footage Blocks	Recovery (%)	CORE ASSAYS			ESTIMATED PERCENTAGES	
Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	Depth (m)	Rock Type	Alteration	Structure	Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks			Sample No.			PbS	ZnS
												70	1/2	Qtz								
												35 x 4	1/16 x 4	Cal-Py-Pyrr x 4								
												45	1/8	Qtz-Cal(Py)							Py	Po
							Diorite					20	h/e	Cal-Py	Diss-(Py-Pyrr)	617						
												45	h/e	Cal-Py								
								189.02													.4	.2
												30	1/8	Qtz-Py-Pyrr-Cal								
												40	1/16	Qtz-Cal								
												50	1 1/2"	Qtz-Py-Pyrr								
												25 x 2	1/16 x 2	Cal-Py-Pyrr x 2		627						
												20	1/8	Qtz-Py-Pyrr								
												45	1/2	Qtz-Ser-Cal-Py								
												20 x 2	h/e x 2	Cal-Chl x 2							.4	.2
								192.07				45 x 2	1/16	Cal-Chl x 2								
												20 & 25	1/16 x 2	Cal-Chl x 2								
												40	1/16	Qtz-Py-Pyrr								
												60 x 4	1/16 x 4	Qtz-Chl-Ser x 4								
												30 x 4	h/e x 4	Cal-Chl x 4	Stock work of Calcite covered fractures diss-Py-Pyrr	637						
							Breccia					25 x 2	1/16 x 2	Cal-Py-Pyrr x 2								
												25 x 3	1/16 x 3	Cal-Py-Pyrr x 3								
																					.6	.3

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AMAX OF CANADA LIMITED

KITSAULT MINE

DIAMOND DRILL RECORD

HOLE NO: 80-1
CLAIM NO: M-163

SECTION:
LATITUDE:
DEPARTURE:
AZIMUTH:
DIP:
ELEVATION:
LENGTH:

COLLARED:
COMPLETED:
CORE SIZE:

DIP TESTS:
LOGGED BY:
DATE LOGGED:

REMARKS:

ROCK TYPES AND ALTERATION: Qtz.	Plag	K-Spar	Mafics	Accessories	Texture	Hardness	Rock Name Appearance	GRAPHIC LOG: Depth (m)	Rock Type	Alteration	Structure	MINERALIZATION AND STRUCTURES: Angle to Core of Axis	Width Of Vein	Mineralization and Faulting	Remarks	Footage Blocked	Recovery (%)	CORE ASSAYS: Sample No.				ESTIMATED SULPHIDES: PbS / Py	ZnS / Po
									Weak Prop			25 x 2	h/e x 2	Qtz-Cal x 2									
												30	1/8	Qtz-Py-Pyrr-Cal									
												20 & 25	1/8 x 2	Qtz-Py-Pyrr & Qtz-Cal-(Cutting 20°)		647							
												20	1/8 99	Cal-Gouge-Py-Pyrr									
												40	1/8	Qtz-Cal-Py-Pyrr	Slight increase in alt.								
								197.26						End of Hole									

.4 .2

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APPENDIX B

STATEMENT OF COSTS

COST STATEMENT

(a)	Two diamond drill holes - total footage 354.57 meters	$31,691.12
(b)	Room & board for diamond drillers	
	4 drillers $25/day for 12 days	$ 1,200.00
(c)	Survey hole location	
	$45/hour (2 men) for 4 hours	$ 180.00
(d)	Mobilization to Kitsault from Vancouver Rivtow barge and flat deck rental	$ 1,300.00
(e)	Clearing drill site & an access road to site	
	D-6 Cat - $100/hour X 16 hours = $1600	$ 1,600.00
(f)	Helicopter service to fly drill into site	
	3-2 hours Vancouver Island Helicopter	$ 1,363.20
(g)	Assaying 13 samples X $15.00 Mo, Wo_3	
	13 samples X $9.00 Au-Ag	
	Rossbacher Laboratory Ltd.	$ 312.00
(h)	Geologists Wages: Drill Supervision - Core, logging & splitting & report writing	
	$190/day X 14 days	$ 2,660.00
	TOTAL	$40,306.32