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REPORT ON  
1996 DIAMOND DRILLING  
AT  
THE SWIM LAKES BASIN  
FARO, YUKON TERRITORY  
WHITEHORSE MINING DISTRICT

BY

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FOR

ANVIL RANGE MINING CORP.  
FARO, YUKON

MAY 1, 1996

NTS 105-K-2  
LAT 62°10'  
LONG 132°50'

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ \_\_\_\_\_.

*for MBK*  
Regional Manager, Exploration and  
Geological Services for Commissioner,  
of Yukon Territory.

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## INTRODUCTION

Access Mining Consultants Ltd. was contracted to supervise a diamond drill program for Anvil Range Mining Corp. on Anvil's Swim Lakes Basin property, 30 km east of Faro, Yukon.

The program consisted of six (6) vertical NQ diamond drill holes totalling 1056m (3466'). The program commenced Feb.13,1996 and was completed March 28,1996.

The purpose of these 6 holes was to explore the Swim Lakes Basin for the eastern extension of the favourable geologic horizon that hosts the Faro, Vangorda, Grum and Dy orebodies and the Swim and SB mineralization.

Interpretation of results is ongoing but preliminary results show only weak sulphide mineralization is present throughout the Swim Lake Basin. Favourable carbonaceous schist was intersected in Hole 96-6. No massive sulphides were observed.

Additional exploration is recommended in this area as the programs completed to date are not adequate to fully test this target. Due to deep glacial till cover over virtually the entire target area most surface exploration techniques will be of little use. Airborne geophysics followed up with diamond or percussion drilling are the most likely tools to map the bedrock geology, locate the favourable carbonaceous horizon and explore along its length for any massive sulphide ore bodies. Of particular importance in the airborne geophysical survey are the EM, magnetic and resistivity parameters.

## LOCATION AND ACCESS

The Swim Lakes Basin is located 30 km east of Faro, Y.T. on NTS 105-K-2. Access is gained by following the Blind Creek road east from Faro for approximately 20 km and then taking the Swim Lake road another 19 km east to the target area. These roads are gravel and are only moderately well maintained. Access is best in winter while the Swim Lake road is frozen as swampy areas would be impassable during spring breakup.

The Faro area is located in central Yukon about 200 km north east of Whitehorse. It can be accessed by all weather highway from Whitehorse via Carmacks and also has scheduled air service from Whitehorse. Faro is a town of approximately 600 people and has service and supply facilities.

## PHYSIOGRAPHY, CLIMATE AND VEGETATION

The Swim Lake area is characterized by elevations of 3000 to 3400 feet above sea level. Relief is moderate although local hill-sides can be steep. The area is dotted by numerous small lakes formed during the glacial retreat. The hills are well rounded and many are of a glacial nature as lateral or terminal moraines.

The lakes are shallow in depth and all but one in the drill target area stank of sulphur dioxide gas.

The area is heavily forested with black spruce and pine and some poplar. Some of the spruce approach 2 feet in diameter.

Climate is typical of the central Yukon, with long cold winters and warm summers. Temperatures can range from -60° to +35°C. Yearly precipitation averages approximately 40cm (15"). Winter snow pack seldom exceeds 1 m (3').

## REGIONAL GEOLOGY

The Faro area is part of the Selwyn Basin, a large area of east-central Yukon where deep water clastics, chert and minor carbonate accumulated along the ancient North American continental margin during the late Proterozoic and Paleozoic.

Just to the southwest of the target area the Tintina Fault cuts off the Selwyn Basin rocks. This is a large suture zone which developed during the oblique collision of the Yukon Tanana Terrane as an allochthon of volcanic-plutonic rocks overlying North American rocks. This collision during the Jurassic through the Cretaceous initiated metamorphism and deformation of the Selwyn Basin rocks by northeast directed thrust faulting and folding. Collisional deformation culminated with the intrusion of mid-Cretaceous granites such as the Orchard Batholith.

The clastic rocks of the Selwyn Basin host most of Canada's large stratiform lead-zinc deposits. The Faro ore bodies are the only ones of economic value discovered to date in the Selwyn Basin. Total reserves in the Faro area are 120 million tonnes grading 3.7%Pb 5.6%Zn. Values in silver gold and minor copper are also found.

In the Faro area the stratigraphy ranges in age from late Precambrian to Permian. The lower part of the sequence is formed by three mappable units. From the base upward these are the Mt. Mye formation of noncalcareous metapelite, the Vangorda formation of calcareous pelite and basalts of the Menzies Creek formation. These pre-Silurian rocks total about 5km in thickness.

Above these rocks are shales, cherts, basalts minor limestones and coarse clastics rich in chert fragments of the Earn Group and Anvil range group. These are Devonian to Permian and may be allochthonous to the underlying rocks.

All of these rocks are intruded by the Cretaceous granites.

The older rocks host the ore bodies or are spatially related to them. In particular, a 150 meter thick interval on the contact between the Mt. Mye and Vangorda formations hosts the ore bodies in the Anvil District. The deposits consist of one to five sheets of sulphide mineralization interbanded with the metasedimentary rocks. Where multiple sulphide horizons occur, they are usually stacked upon each other. Several of these horizons are laterally equivalent to the basal carbonaceous pelite member of the Vangorda formation and the upper Mt. Mye formation. This carbonaceous unit is not a dominant unit but is thin and subordinant and locally is not present at all.

The ore bodies are of the sedimentary exhalative type and are comprised of the Faro, Grum, Vangorda Dy and Swim deposits and the SB and Sea showings. They follow a northwest-southeast trending arcuate band nearly 30 km long.

Mineralization is pyritic, baritic, pyrrhotitic and carbonate bearing massive sulphide ores and carbonaceous and non-carbonaceous quartzose disseminated sulphide ores. These massive sulphides occur as stratiform sheets and horizons which have been subsequently deformed by complex folding and faulting. Individual horizons can range from 10-40 meters thick.

Wallrock alteration is ubiquitous and consists of a variably developed white mica dominant alteration. This alteration halo is biased towards the footwall of the ore but can envelope the entire orebody.

The deposits are considered to be submarine exhalites formed from hot metalliferous brines discharging through sea floor fumaroles along a synsedimentary fault related to lower Cambrian extensional tectonism.

Mineralization consists of pyrite, sphalerite, galena, pyrrhotite, chalcopyrite and marcasite in decreasing order of abundance.

## HISTORY

The Swim Lake Basin was first prospected and staked in the early 1950s. It was restaked and prospected by numerous individuals and companies until the entire area was acquired by Cyprus Anvil Mining Corp. in 1980. Curragh Resources obtained the claims from Cyprus in 1985 and Anvil Range Mining Corp. obtained the claims from the bankruptcy courts in November 1994.

Exploration in this area has included prospecting, geological mapping, airborne magnetic surveys, ground magnetics, EM, SP, Turam and gravity surveys and 101 diamond drill holes totalling 17,947 meters and 7 rotary holes totalling 1,161 meters. Only 1 of the diamond drill holes and 6 of the rotary holes are in the immediate vicinity of the 1996 target area.

To date this exploration has discovered the Swim deposit approximately 2km west of Swim Lake. This deposit has a drill indicated reserve of 4.75 Mtonnes @ 4.7%Zn, 3.8%Pb and 42g/tAg within 18Mtonnes of massive sulphide in a lens 460m x 150m x 2lm. The SB prospect located beneath Swim Lake has assays up to 2%Zn, 1.7%Pb, 13.7g/tAg and 0.3%Cu over 4.lm.

The closest showing to the 1996 drilling is the SEA prospect located east of Swim Lake at Finger Lake, which has assays up to 1%Pb, 1.4%Zn and 0.4%Cu and 7%Cu with 102.9g/tAg. This prospect is within 1km of drill hole 96-1 of this program.

The 1996 drill holes were drilled to explore the eastern extension of this mineralized trend.

## PROPERTY GEOLOGY

The 1996 drill holes intersected 4 rock types. The most prevalent is a dark grey biotite schist of the Mt. Mye formation. This is a soft, well foliated, non-calcareous unit. Foliation dips 10°-20° throughout the target area. The schist is occasionally cut by narrow stringers of white quartz that often carries fine grained pyrite or pyrrhotite. The schist itself carries up to 1% very fine grained disseminated pyrite and pyrrhotite in the schist folia and occasionally as narrow sulphide stringers. A few narrow quartz carbonate veinlets also cut the schists. Minor beds of hard siliceous calc-silicate occur throughout the schist and are probably the metamorphosed equivalent of limey beds in the sediments.

In Hole 96-2 the Mt. Mye schist is in contact with a hard siliceous, white, medium grained aplite with minor disseminated fine grained orange-red garnets. This unit is approximately 20m (960') thick and grades into the third rock type over a short distance (5cm).

The third rock type is a medium grained, white/grey/black "salt & pepper" granodiorite of the Orchay Batholith. This unit shows minor pink potassic alteration of feldspars and is cut by minor dark green chlorite (?) veins or fracture fillings.

The fourth rock type is found only in Hole 96-6. This is a soft, non-calcareous, black/grey carbonaceous schist. The amount of carbonaceous material is variable from 5% to 80%. Trace very fine grained disseminated pyrite occurs parallel to foliation throughout most of the unit. Foliation dips 10° (80° to core axis) throughout the unit. Interbedded in the carbonaceous schist are narrow beds (+3m) of hard siliceous grey quartzite and/or biotite schist as well as hard, siliceous dark green, weakly foliated calc-silicate.

For detailed descriptions of the geology see the Diamond Drill Logs attached to this report.

#### MINERALIZATION

Although no massive sulphide units were intersected in any of the 1996 drill holes, there was sulphide present throughout the target area.

All six holes intersected very fine grained disseminated pyrite and/or pyrrhotite which also occurred as narrow sulphide stringers and in narrow quartz stringers.

Galena was very rarely seen, mostly disseminated in quartz stringers.

Some sulphides were too fine grained to visually identify as sphalerite and must await assaying to be confirmed as such.

See the Diamond Drill Logs attached for detailed descriptions of the mineralization.

#### STRUCTURE

The target area is cut by a number of small fault zones which were intersected in the 6 drill holes completed by this program. The faults vary from a few centimeters to a meter or more in width and are often strongly crushed and gouged. Hole 96-3 was strongly faulted throughout most of its length and indicates a major fault in this area.

The attitude of these faults is unknown as fault contacts in the drill core were generally too broken up to measure with any degree of accuracy.

The 6 holes were also drilled too far apart to correlate the fault intersections from hole to hole.

#### CONCLUSIONS

The 1996 drilling failed to locate any obvious visible massive sulphide mineralization. However, fine grained disseminated sulphides are ubiquitous throughout the target area. Hole 96-6 also intersected substantial black carbonaceous schist which may represent the ore bearing horizon at the contact between the Mt. Mye and Vangorda formations.

The depth of glacial till in this area (up to 100m) precludes most surface exploration techniques in any future programs.

#### RECOMMENDATIONS

It is strongly recommended that this area be explored by an up to date airborne geophysical survey, such as DIGHEM VI. In particular the EM, magnetic and resistivity parameters are of paramount importance in obtaining a better understanding of the geology of the Swim Lake Basin and in providing targets for future prospecting by drilling.

In particular, the carbonaceous horizon that hosts the known ore bodies in the Faro camp should be traced from those ore bodies into the swim Lake Basin as an EM conductor and as a resistivity low. Any massive sulphide ore bodies located along this horizon could then, hopefully, be identified as EM conductors of a local nature with coincident magnetic signatures.

These anomalies could then be explored by drilling to confirm the presence of massive sulphide ore.

Respectfully submitted,



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Jim McFaull B.Sc., F.G.A.C.  
Exploration Geologist

STATEMENT OF QUALIFICATION

I, Jim McFaull, of the City of Whitehorse in the Yukon Territory,  
Hereby State;

1. That I am a consulting geologist and that I have reviewed published reports and maps on the subject property, and that I personally supervised the 1996 diamond drill program described in this report.
2. That I am a graduate of the University of British Columbia with a B.Sc. Geology in 1976.
3. That I am a Fellow of the Geological Association of Canada.
4. That I have engaged in mineral exploration in British Columbia for 3 years and in the Yukon Territory for 22 years.
5. That I was on the Swim Lakes Basin property from Feb.14 to March 28, 1996.
6. That I do not have any interest in, direct or indirect, the properties or securities of Anvil Range Mining Corp. nor do I expect to receive any such interest in the properties or securities pertaining to this report.
7. I hereby grant permission for Access Mining Consultants Ltd. and Anvil Range Mining Corp. to use this report for any legal purposes normal to their business.

Signed at Whitehorse, Yukon this 1st day of May,1996.



Jim McFaull B.Sc., F.G.A.C.



## REFERENCES

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  - Yukon Minfile #105K 042
  - Yukon Minfile #105K 043
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- Pigage L.C., 1990. Anvil Pb-Zn-Ag district, Yukon Territory, Canada. In; Mineral Deposits of Northern Canadian Cordillera, yukon and Northeast British Columbia, J.G.Abbott & R.J.W. Turner (eds.), 8th Annual IAGOD Symposium Field Trip #14 Guidebook, p283-307.
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AUR EXPLORATION  
DIAMOND DRILL LOG

LOCATION			NTS	LAT.	LONG.	HOLE # 96-1
AZIMUTH		DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY		DATE DRILLED	
FOOTAGE			GEOLOGICAL DESCRIPTION			ASSAYS
FROM	TO	RCY				
244	264	20/20	Box 7 Core blocky 1"-4" & broken @ 251-252. Medium grey/green biotite phyllite. Foliation 80° to core axis. Trace very fine grained disseminated pyrite & pyrrhotite			
264	285	19/21	Box 8 Core blocky 1"-6" & broken @ 264-266 & 2' core lost @ 264-266. Soft medium grey/green biotite phyllite. Foliation 80° to core axis. Trace very fine grained disseminated pyrite & pyrrhotite in folia. White foliaform quartz veins @ 266.1-266.2 & 271.2-271.3.			
285	304	19/19	Box 9 Core is intact. Soft grey biotite phyllite. Foliation 80° to core axis. Very minor white quartz stringers cross-cutting foliation with trace pyrite.			
304	322	18/18	Box 10 Core is intact. Soft grey biotite phyllite. Foliation 80° to core axis. Trace very fine grained disseminated pyrrhotite in the phyllite. White foliaform quartz vein @ 304.3-304.6 & 311-311.5.			
322	342	20/20	Box 11 Core is solid. Soft grey biotite phyllite. Foliation 80° to core axis. Disseminated pyrite & pyrrhotite. Minor white quartz stringers cross-cutting foliation.			
342	360	19/19	Box 12 Core is intact. Soft grey biotite phyllite. Foliation 80° to core axis. Trace very fine grained disseminated pyrite & pyrrhotite. Minor narrow white quartz stringers cross-cutting foliation. White foliaform quartz vein @ 344.5-344.7.			
360	380	20/20	Box 13 Core is solid. Soft grey biotite phyllite. Foliation 80° to core axis. Trace very fine grained disseminated pyrite & pyrrhotite. Minor white quartz stringers cross-cutting foliation. White foliaform quartz vein @ 376.8-376.9.			

AURIFEROUS EXPLORATION  
DIAMOND DRILL LOG

LOCATION \_\_\_\_\_ NTS \_\_\_\_\_ LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ HOLE # 96-1 \_\_\_\_\_

AZIMUTH \_\_\_\_\_ DIP \_\_\_\_\_ CASING \_\_\_\_\_ DEPTH O/B \_\_\_\_\_ DEPTH \_\_\_\_\_ CORE SIZE \_\_\_\_\_

MINING DISTRICT \_\_\_\_\_ LOGGED BY \_\_\_\_\_ DATE DRILLED \_\_\_\_\_

FOOTAGE \_\_\_\_\_ GEOLOGICAL DESCRIPTION \_\_\_\_\_ ASSAYS \_\_\_\_\_

FROM	TO	RCY	
380	401	20/21	Box 14 Core intact except broken @ 385-388 & 1' lost. Soft grey biotite phyllite. Foliation 80° to core axis. Trace disseminated very fine grained pyrite & pyrrhotite. White foliaform quartz veins @ 384.9-385, 387-388, 397-397.5. Narrow white quartz stringers @ 396-401.
401	419	18/18	Box 15 Core intact except broken @ 417-419. Soft grey biotite phyllite. Foliation 80° to core axis. White foliaform quartz veins @ 402-402.1, 417-417.1. Trace very fine grained disseminated pyrite & pyrrhotite.
419	442	20/23	Box 16 Core intact except 419-423 core is rubbly & 2' lost & 436-437.5 core is rubbly & 1' lost. Soft grey biotite phyllite. Foliation 80° to core axis. Narrow pyrrhotite stringers cross-cut foliation @ 432.5-433.
442	460	18/18	Box 17 Core is intact. Soft grey biotite phyllite. Foliation 80° to core axis. Pyrrhotite stringers @ 444-446 parallel & cross-cutting foliation. White foliaform quartz veins @ 450-451, 455.5-456.5. Trace disseminated fine grained pyrrhotite throughout.
460	466	6/6	Box 18 Core is intact. Soft grey biotite phyllite. Foliation 80° to core axis.

END OF HOLE

Recovery = 320.5'/326 = 98.1%.

**AURIFEROUS EXPLORATION  
DIAMOND DRILL LOG**

**LOCATION** Swim Lakes 08 616414E 6895925N 105-K-2 **LAT.** 62°10.7' **LONG.** 132°45.8' **HOLE #** 96-2

**AZIMUTH** N/A **DIP** -90° **CASING** 130' **DEPTH O/B** 130' **DEPTH** 600' **CORE SIZE** NQ

**MINING DISTRICT** Whitehorse **LOGGED BY** J. McFaul **DATE DRILLED** Mar3, 1996

**FOOTAGE** **GEOLOGICAL DESCRIPTION** **ASSAYS**

**FROM** **TO** **RCY**

0	130	0	Glacial overburden.	
130	147	17/17	Core intact. Soft dark grey biotite phyllite. Minor narrow white quartz stringers cross-cutting foliation, with trace pyrite. Foliation 75° to core axis.	
147	165	18/18	Core is rubbly @ 149-155. Soft dark grey biotite phyllite. Foliation 75° to core axis. Fault zone @ 149-155 & core is brecciated, broken & bleached light grey. Foliaform quartz veins @ 159.3-159.4 & 167.7-167.8.	
165	181	16/16	Box 3 Core intact. Soft dark grey biotite phyllite. Foliation 75° to core axis. White foliaform quartz vein with pink (andalusite ?) patches @ 166.2-166.3. White foliaform quartz veins @ 171.5-171.6 & 172-172.2.	
181	199	18/18	Box 4 Core intact. Soft dark grey biotite phyllite. Foliation 75° to core axis. White foliaform quartz vein @ 182.8-183.	
199	217	18/18	Box 5 Core broken @ 213-217. Soft dark grey biotite phyllite. Foliation 75° to core axis.	
217	234	17/17	Box 6 Core fractured 228-234. Soft dark grey biotite phyllite with minor andalusite clots. Fractured zone @ 228-234 cut by numerous narrow white stringers of quartz/carbonate in a stockwork. Core is bleached to a pale grey in this zone.	
234	252	18/18	Box 7 Core intact except 235-236. Soft grey biotite phyllite. White foliaform quartz veins @ 239-239.5, 240-240.1 & 242-244 with trace pink (andalusite ?) patches. Narrow quartz/carbonate stringers @ 246-252 @ 10°-20° to core axis.	
252	270	18/18	Box 8 Core intact except 269-270. Soft grey biotite phyllite. Foliation 75° to core axis. Core fractured by occasional narrow white quartz/carbonate stringer @ 25° to core axis. White foliaform quartz vein @ 269-270 with trace patches of pink (andalusite ?). Dark brown weathered black band of biotite or sphalerite(?) @ 266-267.	

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-2
AZIMUTH	DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE			GEOLOGICAL DESCRIPTION		ASSAYS
FROM	TO	RCY			
270	287	17/17	Box 9 Core intact. Soft grey biotite phyllite. Foliation 75° to core axis. White foliaform quartz veins @ 270.1-270.3 & 285.5-285.7.		
287	307	20/20	Box 10 Core intact. Soft grey biotite phyllite. Foliation 75° to core axis. White quartz/carbonate stringers @ 289.5-289.9 @ 10° to core axis. Trace very fine grained disseminated pyrite on folia surface @ 305.		
307	325	18/18	Box 11 Core intact except @323-325 core is rubbly. Soft grey biotite phyllite. Foliation 75° to core axis. White quartz/carbonate vein fault breccia & gouge zone @ 309-309.2. Quartz/carbonate vein fault breccia zone @ 310.5-321.2.		
325	344	19/19	Box 12 Core intact. Soft grey biotite phyllite. Foliation 75° to core axis. White quartz/carbonate veinlet stockwork which has bleached the adjacent wall rock @331-333. Several narrow light brown weathered black very fine grained biotite or sphalerite (?) veins with trace pyrite & pyrrhotite @ 333-344. Veins are wispy & feather in & out of foliation but mostly cut accross folia @ 10°-20° to core axis.		
344	363	19/19	Box 13 Core intact. Soft grey biotite phyllite. White quartz/carbonate veins @ 352-352.2. Brown weathering black veinlets of biotite or sphalerite @ 344.3-344.4, 346-346.5 & 362.1-362.2. Trace very fine grained disseminated pyrite & pyrrhotite in quartz/carbonate veinlets & in folia. Foliation 70° to core axis.		
363	382	19/19	Box 14 Core intact. Soft grey biotite phyllite. White & pale green quartz/carbonate vein with trace disseminated pyrite @ 371-376. Vein @ 10° to core axis. Trace disseminated very fine grained pyrite & pyrrhotite in schist folia. Foliation 70° to core axis.		

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-2
AZIMUTH	DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE		GEOLOGICAL DESCRIPTION			ASSAYS
FROM	TO	RCY			
382	401	19/19	Box 15 Core intact. Soft grey biotite phyllite. Foliation 70° to core axis. Phyllite bleached to light greenish grey @ 391 to 401. Bleaching due to crushed & gouged strong fault zone @ 398-398.1. Trace disseminated pyrite & pyrrhotite on folia surfaces. White quartz/carbonate veins @ 386-387, 396.5-396.6 & 397.3-397.4. Veinlet of possible brown sphalerite (?) @ 390-390.5 @ 45° to core axis.		
401	420	19/19	Box 16 Core intact. Soft grey biotite phyllite. Foliation 70° to core axis. Very fine grained disseminated pyrite & pyrrhotite on folia surfaces throughout. Narrow bands of massive very fine grained pyrite & pyrrhotite @ 412-413. Thickest band is <u>±2"</u> .		
420	436	16/16	Box 17 Core broken 425-428.5 & core fractured 434-436. Soft grey biotite phyllite. White quartz/carbonate vein @ 425-426. Colour change to light grey mottled with dark grey @ 426-428. Contact @ 428 to hard siliceous white medium grained aplite with trace disseminated orange/red garnets. Core is well fractured.		
436	454	18/18	Box 18 Core fractured 436-438. Hard, siliceous white garnetiferous aplite. Smokey grey quartz vein with very fine grained black sulphides & pyrite @ 436.5-438. Vein is @ 5° to core axis.		
454	473	19/19	Box 19 Core intact. Hard, siliceous medium grained white garnetiferous aplite. Narrow smokey grey quartz vein with very fine grained black sulphides @ 472-473. Vein is @ 20° to core axis.		
473	492	19/19	Box 20 Core intact. Hard siliceous white garnetiferous aplite. Gradational contact over 2" @ 489-491 to medium grained white/grey/ black "salt & pepper" granodiorite.		
492	510	18/18	Box 21 Core intact. Gradational contact of aplite and granodiorite to 497. Medium grained white/grey/black "salt & pepper" granodiorite with minor narrow grey quartz veins parallel to core axis @497.		

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION

LAT.

LONG.

HOLE #96-2

AZIMUTH

DIP

CASING

DEPTH O/B

DEPTH

CORE SIZE

MINING DISTRICT

LOGGED BY

DATE DRILLED

FOOTAGE

GEOLOGICAL DESCRIPTION

ASSAYS

FROM TO RCY

510	529	19/19	Box 22 Core intact. Hard siliceous medium grained "salt & pepper" granodiorite. Trace very fine grained disseminated pyrite.
529	548	19/19	Box 23 Core intact. Hard siliceous medium grained "salt & pepper" granodiorite. Trace very fine grained disseminated pyrite. Minor salmon pink potassic alteration of K-feldspars.
548	566	18/18	Box 24 Core intact. Hard siliceous medium grained "salt & pepper" granodiorite. Trace very fine grained disseminated pyrite. Minor dark green chlorite (?) veins.
566	584	18/18	Box 25 Core intact. Hard siliceous medium grained "salt & pepper" granodiorite. Trace very fine grained disseminated pyrite. Minor dark green chlorite fracture fillings.
584	600	16/16	Box 26 Core intact. Hard siliceous medium grained "salt & pepper" granodiorite. Trace very fine grained disseminated pyrite. Minor chloritic fracture fillings.

END OF HOLE

Recovery = 470'/470' = 100%.

**AURE EXPLORATION  
DIAMOND DRILL LOG**

**LOCATION** Swim Lakes 08 616197E 6895177N 105-K-2 **LAT.** 62°10.3' **LONG.** 132°46.1' **HOLE #** 96-3

**AZIMUTH** N/A **DIP** -90° **CASING** 140' **DEPTH O/B** 140' **DEPTH** 600' **CORE SIZE** NQ  
**MINING DISTRICT** Whitehorse **LOGGED BY** J. McFaul1 **DATE DRILLED** Mar 5, 1996  
 Mar 11, 1996

**FOOTAGE** **GEOLOGICAL DESCRIPTION** **ASSAYS**

<u>FROM</u>	<u>TO</u>	<u>RCY</u>		
0	140	0	Glacial overburden.	
140	161	16/21	Box 1 Core broken & fault brecciated. 140-147 lost 4' of core, 147-160 lost 1' of core. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated & fracture filling pyrite. Strong fault breccia 2 143-144 & 152-153.	
161	180	19/19	Box 2 Core is blocky 2" pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated & fracture filling pyrite. Fault breccia @ 162.5-163 & 176.5-177. S <sub>2</sub> surface is corrugated.	
180	199	19/19	Box 3 Core is blocky 2" & broken. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. No visible sulphides. Fault breccia @ 180-184 & 192-193. Hard siliceous nonfoliated calc silicate (?) bed @ 184-185 with trace disseminated pyrite. S <sub>2</sub> surface is corrugated.	
199	217	17.5/18	Core intact but crushed & broken 210-217. lost 0.5' of core @ 204-210.5. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Light green hard siliceous calc silicate bed @ 207-209.5. Trace very fine grained disseminated pyrite on schist folia. Fault zone @ 210-213 & core crushed & broken.	
217	234	17/17	Box 5 Core blocky 2" pieces & brecciated @ 229-230. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated pyrite on schist folia. Small fault zone @ 229-230.	
234	251	17/17	Box 6 Core is blocky & broken. Soft dark green/brown biotite schist with light green hard siliceous quartzite (?) @ 238-240 & 249-251. Trace disseminated pyrite on schist folia & in narrow white quartz carbonate veinlets. Foliation 75° to core axis.	

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-3
AZIMUTH	DIF	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE			GEOLOGICAL DESCRIPTION		ASSAYS
FROM	TO	RCY			
251	271	16/20	Box 7 Core blocky 2" pieces & crushed @ 251-253 & 267-268. Core loss of 1' @ 251-253, 1' @ 254-257 & 2' @ 262-266. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated pyrite. Hard siliceous pale green quartzite (?) @ 253.5-255 & 256-261. Fault zones @ 251-253 & 267-268.		
271	292	15/21	Box 8 Core is blocky 2"-3" pieces & crushed @ 273-276 & 285-288. Core loss of 1.5' @ 271-273.5, 2' @ 273.5-276.5, 1' @ 276.5-280.5, 0.5' @ 280.5-285 & 1' @ 285-289. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated pyrite. Small fault zone @ 285-289.5 & schist is leached to a pale greenish/grey.		
292	308	16/16	Box 9 Core is blocky 1"-4" pieces & crushed @ 293-295. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated very fine grained pyrrhotite & pyrite in schist folia. Crushed & brecciated fault zone @ 293-295.		
308	324	16/16	Box 10 Core is blocky 3" pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 75° to core axis. Trace disseminated pyrite & pyrrhotite.		
324	342	18/18	Box 11 Core is intact & blocky. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Trace disseminated pyrite & pyrrhotite.		
342	359.5	17.5/17.5	Box 12 Core is blocky 2"-6" pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Trace disseminated pyrite & pyrrhotite. Core is broken to rubble @ 357.5-359.5.		
359.5	377	17.5/17.5	Box 13 Core is broken & rubbly @ 359.5-366. Core is intact & blocky 3" pieces to 377. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis.		

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-3
AZIMUTH	DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE			GEOLOGICAL DESCRIPTION		ASSAYS
FROM	TO	RCY			
377	395	18/18	Box 14 Core intact & blocky 2" pieces. Core broken & rubbly @ 377-381. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Hard siliceous grey poorly foliated calc silicate (?) @ 390-391 with trace disseminated pyrite.		
395	413	18/18	Box 15 Core is intact & blocky 2"-6" pieces. Core broken @ 396-397. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Smokey grey quartz vein @ 395-395.3 with trace pyrite.		
413	430	17/17	Box 16 Core intact & blocky 1"-3". Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Small quartz vein parallel to foliation @ 413.8-413.9 with trace very fine grained pyrite stockwork veinlets.		
430	445.5	15.5/15.5	Box 17 Core intact & blocky 2" pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Trace pyrite stringers @ 443.5-443.7.		
445.5	462	16.5/16.5	Box 18 Core intact & blocky. Core broken @ 445.5-448. Core gouged 460.5-461.5. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Small fault zone @ 460.5-461. Smokey grey quartz vein @ 461.5-461.6.		
462	478	16/16	Box 19 Core intact & blocky 1"-6" pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis.		
478	493	15/15	Box 20 Core broken & crushed 1' pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Fault zone @ 484.5-492.5 core is very crushed & broken & gouged.		
493	509	16/16	Box 21 Core is blocky 2"-6". Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Smokey grey foliaform quartz vein @ 495-495.1 & 506-506.5. Fault zone @ 497-498 & 507-507.1.		

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-3
AZIMUTH	DIF	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE		GEOLOGICAL DESCRIPTION			ASSAYS
FROM	TO	RCY			
509	525.5	16.5/16.5	Box 22 Core intact & blocky 2' pieces. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Trace pyrite on schist folia & in fracture fillings. White foliaform quartz veins @ 518-518.2 & 524.7-524.8 with trace pyrite stringers.		
525.5-544	18.5/18.5		Box 23 Core intact. Strongly fault gouged @ 526-544. Soft noncalcareous dark green/brown biotite schist. Foliation 70° to core axis. Trace pyrite & pyrrhotite in small white quartz vein @ 525.5-525.6. Strong fault zone @ 526 with very crushed & gouged & brecciated but intact core. Trace disseminated pyrite in fault zone. Foliation in fault zone 10°-45° to core axis.		
544	563	19/19	Box 24 Core intact & heavily fault gouged. Core is fault gouged to a degree that geology cannot be ascertained except by colour. Dark green/brown biotite schist (?). Light green colour @ 555 may be due to water in the fault leaching the schist.		
563	585	16.5/22	Box 25 Core is heavily fault gouged & core loss of 0.5' @ 563-565, 2' @ 567-574, 2' @ 574-577.5 & 1' @ 582.5-585. Core is fault gouged to a degree that geology cannot be ascertained except by colour. Probably dark green/brown biotite schist with sections of pale green leached schist.		
585	600	12/15	Box 26 Core is heavily fault gouged & core loss of 0.5' @ 585-586, 1' @ 588-590, 0.5' @ 593-595.5 & 1' @ 597.5-600. Core is fault gouged to a degree that geology cannot be ascertained except by colour. Probably dark green/brown biotite schist. Trace pyrite.		

END OF HOLE

Recovery= 436'/460' = 94.8%

**AURE EXPLORATION  
DIAMOND DRILL LOG**

**LOCATION** Swim Lakes 08 615446E 6894910N 105-K-2 **LAT.** 62°10.2' **LONG.** 132°47.0' **HOLE #** 96-4

**AZIMUTH** N/A **DIP** -90° **CASING** 102' **DEPTH O/B** 102' **DEPTH** 600' **CORE SIZE** NQ  
**MINING DISTRICT** Whitehorse **LOGGED BY** J. McFaul **DATE DRILLED** Mar 13, 1996  
 Mar 16, 1996

<u>FOOTAGE</u>			<u>GEOLOGICAL DESCRIPTION</u>	<u>ASSAYS</u>
<u>FROM</u>	<u>TO</u>	<u>RCY</u>		
0	102	0	Glacial overburden.	
102	118	16/16	Box 1 Core intact & blocky 2" pieces. Soft noncalcareous mottled dark grey/brown biotite schist. Foliation 75° to core core axis. Minor inter-bedded hard siliceous greenish grey calc silicate (?) @ 103.5-105 & 107-109. Trace to 1% very fine grained foliaform pyrrhotite, pyrite @ 102-115 & one foliaform band of galena (?) @ 113.	
118	135	17/17	Box 2 Core intact & blocky 2"-4" pieces. Core broken @ 125-126. Soft noncalcareous dark grey/brown partly mottled biotite schist. Foliation 75° to core axis. Trace to 1% very fine grained pyrrhotite parallel to to foliation. Fault zone @ 125-126. White foliaform quartz vein @ 129-130.	
135	154	19/19	Box 3 Core intact & blocky 1"-4" pieces. Soft noncalcareous dark grey/brown biotite schist. Foliation 70° to core axis. Trace very fine grained foliaform pyrrhotite. Trace disseminated pyrite.	
154	169	15/15	Box 4 Core intact & blocky 1"-6" pieces. Core broken @ 156-158. Soft noncalcareous dark grey/brown partly mottled biotite schist. Foliation 70° to core axis. White foliaform quartz vein @ 160-161 & 165-165.1. Trace very fine grained foliaform pyrrhotite.	
169	186	17/17	Box 5 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Trace disseminated very fine grained pyrrhotite.	
186	204	18/18	Box 6 Core intact 7 blocky 2"-8" pieces. Soft noncalcareous dark grey/brown partly mottled biotite schist. Foliation 75° to core axis. White quartz vein with very fine grained stringers of pyrite & pyrrhotite @ 192-193. Trace very fine grained disseminated pyrrhotite & pyrite throughout.	
204	221	17/17	Box 7 Core intact & blocky 6" pieces. Core broken & faulted @ 216.5-217. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Trace very fine grained disseminated pyrrhotite. White foliaform	

AUREX EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-4
AZIMUTH	DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE			GEOLOGICAL DESCRIPTION		ASSAYS
FROM	TO	RCY			
			quartz vein with trace pyrite @ 211-211.5. White & green calc silicate with trace pyrite veinlets & fracture fillings @ 214-214.2. Small fault zone with gouge @ 216.4-216.6. Core is slightly brecciated @ 216.6-221.		
221	239	18/18	Box 8 Core intact in 6" pieces. Core broken & brecciated @ 221-222 & 226-228. Soft noncalcareous dark grey/brown biotite schist- bleached light grey in the fault zones. Foliation 75° to core axis. Fault zones @ 221-222 & 227.5-228. Trace very fine grained disseminated pyrrhotite @ 233-235.		
239	259	20/20	Box 9 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Trace very fine grained disseminated pyrrhotite. White foliaform quartz vein with patches & blebs & stringers of very fine grained pyrrhotite @ 258.5-259.		
259	275	16/16	Box 10 Core intact & blocky 2"-6" pieces. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Trace disseminated pyrite. White & green quartz carbonate vein @ 259-260.5 with patches & blebs of very fine grained pyrrhotite. Minor narrow white quartz carbonate stringers @ 264-275 cause bleaching of schist to light grey/green.		
275	294	19/19	Box 11 core intact in 8" pieces. Core broken & fault gouged @ 292-294. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Schist becomes pale grey & mottled @ 280-294. Colour is leached by fault @ 292-294. Trace foliaform pyrrhotite @ 287-287.2. Sulphide vein fault @ 291-291.2 @ 20° to core axis & ± 0.25" wide.		
294	312	18/18	Box 12 Core intact & blocky 2"-6" pieces. Core is broken @ 305-308.5. Soft noncalcareous pale greenish/grey mostly mottled biotite schist. Foliation 75° to core axis. Trace pyrite fracture fillings @ 295-295.1. White foliaform quartz vein with trace pyrite & pyrrhotite @ 300.5-301.1. Small fault zone @ 305-308.5.		
312	328	16/16	Box 13 Core intact & blocky 1"-2" pieces. Core badly broken @ 312-314. Soft noncalcareous pale greenish/grey leached biotite schist to 315'.		

**AUREX EXPLORATION  
DIAMOND DRILL LOG**

LOCATION \_\_\_\_\_ LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ HOLE # 96-4

AZIMUTH \_\_\_\_\_ DIP \_\_\_\_\_ CASING \_\_\_\_\_ DEPTH O/B \_\_\_\_\_ DEPTH \_\_\_\_\_ CORE SIZE \_\_\_\_\_

MINING DISTRICT \_\_\_\_\_ LOGGED BY \_\_\_\_\_ DATE DRILLED \_\_\_\_\_

FOOTAGE \_\_\_\_\_ GEOLOGICAL DESCRIPTION \_\_\_\_\_ ASSAYS \_\_\_\_\_

FROM    TO    RCY

			From 315 soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Trace pyrite in quartz vein @ 323-323.5.
328	343	15/15	Box 14 Core is broken by faulting throughout. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Small fault zones @ 329-330, 331.5-333, 334.8-335.3 & 339-339.2.
343	357.5	14.5/ 14.5	Box 15 Core is broken & gouged throughout by strong faults. Soft non-calcareous dark grey/brown biotite schist with zones of light grey/brown slightly leached colour in faults. Foliation 75° to core axis. Fault zones @ 345-346, 348-351.5 (heavy gouge) & 356-357.5. White foliaform quartz vein @ 355-355.2.
357.5	376	18.5/ 18.5	Box 16 Core intact. Core broken @ 357.5-359. Soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis.
376	394	18/18	Box 17 Core intact. Soft noncalcareous dark grey/brown biotite schist (mostly mottled). Foliation 75° to core axis. Gradational contact @ 383 to medium green/brown moderately hard poorly foliated calc silicate. Brown patches occur throughout. Cut by narrow near vertical quartz carbonate veinlets $\pm 10^\circ$ to core axis with trace very fine grained pyrrhotite. Schist is bleached nearly white adjacent to these veinlets.
394	409	15/15	Box 18 Core intact. Core broken & fault gouged @ 402-406. Hard siliceous noncalcareous patchy light to medium green/brown poorly foliated calc silicate. Quartz carbonate stringer stockwork & breccia zone @ 400-402. Fault gouge @ 402.8-406. Trace very fine grained disseminated pyrrhotite throughout.
409	425	16/16	Box 19 Core intact. Gradational contact of calc silicate back to soft noncalcareous dark grey/brown biotite schist. Foliation 75° to core axis. Trace very fine grained pyrrhotite throughout.

AURE EXPLORATION  
DIAMOND DRILL LOG

<u>LOCATION</u>			<u>LAT.</u>	<u>LONG.</u>	<u>HOLE # 96-4</u>
<u>AZIMUTH</u>	<u>DIP</u>	<u>CASING</u>	<u>DEPTH O/B</u>	<u>DEPTH</u>	<u>CORE SIZE</u>
<u>MINING DISTRICT</u>			<u>LOGGED BY</u>	<u>DATE DRILLED</u>	
<u>FOOTAGE</u>			<u>GEOLOGICAL DESCRIPTION</u>		<u>ASSAYS</u>
<u>FROM</u>	<u>TO</u>	<u>RCY</u>			
425	443	18/18	Box 20 Core intact. Interbedded gradational moderately hard biotite schist and hard siliceous calc silicate. This grades into hard siliceous patchy green/brown calc silicate @ 436. Trace disseminated very fine grained pyrite throughout.		
443	460	17/17	Box 21 Core solid. Hard siliceous poorly to moderately foliated pale green to dark green/brown calc silicate. Occasional stringers of white quartz carbonate veins with trace pyrite. White foliaform quartz vein with trace pyrite @ 447-447.2.		
460	479	19/19	Box 22 Core intact. Hard siliceous poorly foliated pale green to dark green/brown calc silicate. Trace disseminated pyrite. Occasional narrow white quartz carbonate stringers with trace pyrite.		
479	497	18/18	Box 23 Core solid. Hard siliceous poorly foliated pale to dark green/brown calc silicate. Trace very fine grained disseminated pyrite. Quartz carbonate vein fault breccia @ 480-481 @ 15° to core axis.		
497	517	20/20	Box 24 Core solid. Hard siliceous poorly foliated dark green/brown calc silicate. Trace very fine grained foliaform pyrrhotite & pyrite throughout. May be more sulphide too fine grained to see by eye. Occasional pyrite stringers @ 10° to core axis. Small fault zone @ 513 @ 75° to core axis & + 0.5" thick. Very siliceous green zone with a strong stockwork of very narrow stringers of pyrrhotite and foliaform pyrrhotite & pyrite, + 5% sulphides.		
517	537	20/20	Box 25 Core intact. Hard siliceous poorly foliated light to dark green/brown calc silicate. Small bleached fault zone 518-520. White foliaform quartz veins @ 526-527.5, 528-528.2, 532-532.2 & 533-533.1 (with very fine grained black sulphides (?)).		

AURE EXPLORATION  
DIAMOND DRILL LOG

<u>LOCATION</u>	<u>LAT.</u>	<u>LONG.</u>	<u>HOLE # 96-4</u>
<u>AZIMUTH</u>	<u>DIF</u>	<u>CASING</u>	<u>DEPTH O/B</u>
<u>DEPTH</u>	<u>CORE SIZE</u>		
<u>MINING DISTRICT</u>	<u>LOGGED BY</u>		<u>DATE DRILLED</u>
<u>FOOTAGE</u>	<u>GEOLOGICAL DESCRIPTION</u>		<u>ASSAYS</u>
<u>FROM</u>	<u>TO</u>	<u>RCY</u>	

537	555	18/18	Core intact. Moderately hard siliceous poorly foliated pale to dark green/brown calc silicate. Well mineralized vein (?) zone with 5% very fine grained disseminated pyrrhotite & galena (?) @ 545-551. White quartz vein with very fine grained disseminated sulphides & some larger mossy looking patches of black sulphide (?) @ 554-555.
555	573	18/18	Box 27 Core intact & blocky @ 566-567 & 570-571. Moderately hard siliceous poorly foliated greenish grey calc silicate. Very fine grained bands of brown biotite or sulphides (?). White quartz vein with disseminated fine grained silver/blue sulphides (galena or antimony?) and brown (sphalerite?) @ 566-567.5.
573	591	18/18	Box 28 Core intact. Core rubbly @ 581-583. Moderately hard siliceous poorly foliated greenish grey calc silicate. White foliaform quartz vein with trace very fine grained disseminated pyrrhotite @ 585-586.
591	600	9/9	Box 29 Core intact. Moderately hard siliceous grey/green calc silicate. Poorly foliated & mottled. Bands to 0.25" of brown very fine grained biotite or sphalerite (?).

END OF HOLE

Recovery= 498'/498' = 100%

**AUREX EXPLORATION  
DIAMOND DRILL LOG**

**LOCATION** Swim Lakes 08 613950E 6895000N 105-K-2 **LAT.** 62°10.3' **LONG.** 132°48.7' **HOLE #** 96-5

**AZIMUTH** N/A **DIP** -90° **CASING** 60' **DEPTH O/B** 60' **DEPTH** 600' **CORE SIZE** NQ

**MINING DISTRICT** Whitehorse **LOGGED BY** J. McFaul1 **DATE DRILLED** Mar 18,1996  
Mar 21,1996

**FOOTAGE** **GEOLOGICAL DESCRIPTION** **ASSAYS**

FROM	TO	RCY	
0	60	0	Glacial overburden.
60	78.5	18.5/ 18.5	Box 1 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Minor hard siliceous bands of calc silicate with 1% very fine grained disseminated pyrite @ 60-62 & 64-65.
78.5	96.5	18/18	Box 2 Core intact & blocky 2" pieces. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. White quartz veins with trace disseminated pyrite @ 88-88.1 & 89-89.1.
96.5	115	18.5/ 18.5	Box 3 Core intact. Core broken @ 81-82 & 103.5-104. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis.
115	133	18/18	Box 4 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis.
133	150	16.5/17	Box 5 Core intact & blocky 2" pieces. Core rubbly @ 134-135 & 137-139. Core loss 0.5' @ 135-137. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Narrow quartz veins parallel to foliation with trace disseminated pyrite @ 140.9-142.
150	166	16/16	Box 6 Core intact & blocky 2" pieces. Core fault gouged @ 163.4-163.5. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Small faults @ 150.6-152 & 161-163.5. Trace very fine grained disseminated pyrrhotite in fault @ 151.1.
166	186	19.5/20	Core intact. Core broken @ 183-185 & 0.5' core loss. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Grey/white quartz vein with trace pyrite @ 175.5-177.8.

AUREX EXPLORATION  
DIAMOND DRILL LOG

<u>LOCATION</u>			<u>LAT.</u>	<u>LONG.</u>	<u>HOLE #</u> 96-5
<u>AZIMUTH</u>	<u>DIF</u>	<u>CASING</u>	<u>DEPTH O/B</u>	<u>DEPTH</u>	<u>CORE SIZE</u>
<u>MINING DISTRICT</u>			<u>LOGGED BY</u>	<u>DATE DRILLED</u>	
<u>FOOTAGE</u>			<u>GEOLOGICAL DESCRIPTION</u>		<u>ASSAYS</u>
<u>FROM</u>	<u>TO</u>	<u>RCY</u>			
186	203	16/17	Box 8 Core intact & blocky 2" pieces. Core broken @ 190-192.5 & 195-197 & 1' core loss @ 192-197. Soft noncalcareous dark grey/brown mottled biotite schist. Foliation 80° to core axis. Very narrow creamy white quartz carbonate stringers throughout.		
203	219	15.5/16	Box 9 Core intact. Core broken @ 203-207 & 0.5' core loss. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. White foliaform quartz veins @ 214.2-214.3 & 217.5-217.6. Dark green massive well fractured chlorite schist with trace very fine grained disseminated pyrrhotite @ 206-208.5.		
219	237	18/18	Box 10 Core intact. Core broken @ 234-235. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. White quartz veins with trace pyrite & pyrrhotite @ 226-227.5. White foliaform quartz veins @ 228-229 & 233.1-233.2. Sharp contact @ 235 with dark green massive poorly foliated chlorite schist with very fine grained pyrrhotite parallel to folia.		
237	254	17/17	Box 11 Core intact. Dark green massive poorly foliated chlorite schist with very fine grained pyrrhotite parallel to foliation. Contact @ 239 with soft noncalcareous dark grey/brown biotite schist cut by narrow creamy white quartz carbonate stringers.		
254	269	15/15	Box 12 Core intact & blocky 2"-4" pieces. Core fault gouged @ 255-256.5. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace very fine grained disseminated pyrrhotite on schist folia.		
269	284	15/15	Box 13 Core intact & blocky 2"-4". Fault gouged @ 283.5-283.6. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Small fault @ 283.5-284. Trace very fine grained disseminated pyrite throughout.		

AUREX EXPLORATION  
DIAMOND DRILL LOG

<u>LOCATION</u>			<u>LAT.</u>	<u>LONG.</u>	<u>HOLE #</u> 96-5
<u>AZIMUTH</u>	<u>DIP</u>	<u>CASING</u>	<u>DEPTH O/B</u>	<u>DEPTH</u>	<u>CORE SIZE</u>
<u>MINING DISTRICT</u>			<u>LOGGED BY</u>	<u>DATE DRILLED</u>	
<u>FOOTAGE</u>		<u>GEOLOGICAL DESCRIPTION</u>			<u>ASSAYS</u>
<u>FROM</u>	<u>TO</u>	<u>RCY</u>			
284	307	15/23	Box 14 Core intact. Core broken & fault gouged & 8' lost @ 287-297. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Strong fault zone @ 287-297 with broken pebbly & gouged core. Core is bleached to light greenish/grey 2' in hangingwall & footwall of fault. White foliaform quartz vein with trace disseminated pyrrhotite @ 304-304.5.		
307	324	17/17	Box 15 Core intact. Core broken 313-314 & 315-315.5. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace disseminated very fine grained pyrite on schist folia.		
324	340	16/16	Box 16 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace very fine grained disseminated foliaform pyrrhotite. Narrow bands of medium green poorly foliated chlorite phyllite @ 330-331 & 333-334.		
340	358	18/18	Box 17 Core intact. Core broken & fault gouged @ 346-348.5. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Fault zone @ 346-348.5. Quartz vein with disseminated pyrrhotite @ 353-353.1.		
358	375.5	17.5/17.5	Box 18 Core intact & blocky 2"-4" pieces. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Core is fractured by a number of narrow white quartz carbonate stringers throughout. Grey quartz vein @ 368-368.1.		
375.5	397	18/21.5	Box 19 Core broken & rubbly throughout. fault gouge @ 389.1-389.2 & 379-380. Core loss of 1.5' @ 375.5-380 & 1.0' @ 389-395 & 1.0' @ 395-397. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. white foliaform quartz veins 2 381-381.1 & 388-389.		

AUREX EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-5
AZIMUTH	DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE		GEOLOGICAL DESCRIPTION			ASSAYS
FROM	TO	RCY			
397	415	17/18	Box 20 Core intact. Core rubbly @ 397-401 & 413-416. Core loss of 1.0' @ 401-407. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Narrow pyrite stringer parallel to core axis @ 403-404. Narrow white quartz carbonate vein @ 5° to core axis @ 407.5-411. White quartz vein @ 411-411.2 & 412-412.2. Fault zone @ 413-415.		
415	430	15/15	Box 21 Core blocky to rubbly. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. White quartz vein @ 416.9-417.2 & 428.5-429. Narrow white quartz carbonate stringers 2 10° to core axis throughout. Trace pyrite on schist folia.		
430	447	17/17	Box 22 Core intact & blocky. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace pyrite on folia & in fracture fillings. White foliaform quartz vein @ 430.5-430.6. Quartz carbonate vein @ 10° to core axis @ 445-446. Quartz carbonate vein fault @ 446.5-446.7 with trace pyrite, this vein @ 45° to core axis.		
447	464	17/17	Box 23 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace pyrite on folia & in fracture fillings. White foliaform quartz vein @ 458-458.5 & 460.5-460.6.		
464	481.5	17.5/17.5	Box 24 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. No sulphides noted.		
481.5	499	17.5/17.5	Box 25 Core intact. Core rubbly & gouged @ 485-486. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace pyrite in fracture fillings parallel to core axis @ 483-485. White & green quartz carbonate vein fault with pyrite @ 10° to core axis @ 485-486. Vein fault with trace pyrite @ 489.8-490.2 & core is rubbly & gouged. Gradational contact to soft medium green poorly foliated phyllite @ 498.5-499.		

AUREX EXPLORATION  
DIAMOND DRILL LOG

<u>LOCATION</u>			<u>LAT.</u>	<u>LONG.</u>	<u>HOLE # 96-5</u>
<u>AZIMUTH</u>	<u>DIP</u>	<u>CASING</u>	<u>DEPTH O/B</u>	<u>DEPTH</u>	<u>CORE SIZE</u>
<u>MINING DISTRICT</u>			<u>LOGGED BY</u>	<u>DATE DRILLED</u>	
<u>FOOTAGE</u>		<u>GEOLOGICAL DESCRIPTION</u>			<u>ASSAYS</u>
<u>FROM</u>	<u>TO</u>	<u>RCY</u>			
499	517	18/18	Box 26 Core intact. Core broken & clay rich @ 516-517. Medium hard medium green poorly foliated phyllite. Cut by minor white quartz carbonate stringers @ 10° to core axis. Gradational contact to soft noncalcareous dark grey/brown biotite schist @ 510. Foliation 80° to core axis. Trace very fine grained disseminated pyrrhotite parallel to foliation. Possible fault zone @ 516-517.		
517	535	18/18	Box 27 Core intact. Core broken @ 517-521. Medium hard medium green phyllite with poor foliation. Sharp contact @ 521 to soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. Trace disseminated pyrite. Sharp contact @ 528 to green phyllite.		
535	553	18/18	Box 28 Core intact. Medium hard medium green noncalcareous poorly foliated phyllite with minor white quartz carbonate stringers. Phyllite has up to 1% blebs & patches of pyrrhotite as fracture fillings @ 542. Contact @ 550 to soft noncalcareous dark grey/brown biotite schist. Several white foliaform quartz veins @ 550-552.		
553	570	17/17	Box 29 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. white foliaform quartz vein @ 563-564.		
570	588.5	18.5/18.5	Box 30 Core intact. Core crushed & vein faulted @ 575-579. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. White quartz carbonate vein fault zone with several veins @ 10° to core axis @ 575-580. White foliform quartz vein @ 583.5-583.6 & 587.9-588.		
588.5	600	11.5/11.5	Box 31 Core intact. Soft noncalcareous dark grey/brown biotite schist. Foliation 80° to core axis. White foliaform quartz vein @ 597-597.4. Trace disseminated pyrite & pyrrhotite on schist folia throughout.		

Recovery=525/540= 97.2%

END OF HOLE

AUREX EXPLORATION  
DIAMOND DRILL LOG

LOCATION Swim Lakes 08 612000E 6895625N 105-K-2 LAT. 62°10.6' LONG. 132°50.9' HOLE # 96-6

AZIMUTH N/A DIP -90° CASING 297' DEPTH O/B 297' DEPTH 600' CORE SIZE NQ

MINING DISTRICT Whitehorse LOGGED BY J. McFaul1 DATE DRILLED Mar 23, 1996  
Mar 26, 1996

FOOTAGE GEOLOGICAL DESCRIPTION ASSAYS

<u>FROM</u>	<u>TO</u>	<u>RCY</u>	<u>GEOLOGICAL DESCRIPTION</u>	<u>ASSAYS</u>
0	297	0	Glacial overburden.	
297	302	3/5	Box 1 Core blocky & rubbly & 2' core loss 300-302. Soft noncalcareous dark grey biotite schist. Foliation 80° to core axis. White foliaform quartz veins @ 297.1-297.2, 297.3-297.4 & 298.5-298.6. Minor crushed bedding faults @ 297.7-297.8 & 301-302.	
302	318	15/16	Box 2 Core blocky & 1' core loss @ 311-317. Soft noncalcareous greenish/grey biotite schist. From 306-307 pebbles of granodiorite glacial till-bedrock from 297 must be broken up or boulders. White foliaform quartz vein with trace very fine grained disseminated pyrite & pyrrhotite @ 311-311.2. White foliaform quartz vein @ 315-315.2. Narrow stringers of pyrite @ 10° to core axis & very fine grained disseminated pyrrhotite on schist folia @ 307-318.	
318	339	14.5/ 21	Box 3 Core blocky & rubbly. Core loss of 5.5' @ 321.5-327 & 1' @ 327-333. Soft noncalcareous greenish/grey biotite schist. A strong fault zone @ 319.5 - 327 with crushed & pebbly core & large core loss. Gradational contact to light grey & black soft noncalcareous carbonaceous schist @ 328-329. Narrow bed of hard siliceous white & black carbonaceous quartzite with 0.25" band of massive fine grained pyrite parallel to foliation @ 337.5-338.5.	
339	356	17/17	Box 4 Core intact. Soft noncalcareous light grey/black carbonaceous schist. Foliation 80° to core axis. Gradational contact to soft non-calcareous dark grey/green biotite schist with minor carbon bands @ 343. Narrow bed of hard siliceous quartzite @ 348-349. Trace very fine grained disseminated pyrite on schist folia.	
356	371	15/15	Box 5 Core intact & blocky 2"-4" pieces. Soft noncalcareous dark grey biotite schist. Foliation 80° to core axis. Gradational contact from 370 with increasing bands of black carbonaceous schist. Trace very fine grained disseminated pyrite on schist folia throughout.	

AURE EXPLORATION  
DIAMOND DRILL LOG

LOCATION			LAT.	LONG.	HOLE # 96-6
AZIMUTH	DIP	CASING	DEPTH O/B	DEPTH	CORE SIZE
MINING DISTRICT			LOGGED BY	DATE DRILLED	
FOOTAGE			GEOLOGICAL DESCRIPTION		ASSAYS
FROM	TO	RCY			
371	388.5	17.5/ 17.5	Box 6 Core intact. Soft noncalcareous grey/black carbonaceous schist. Fcliation 80° to core axis. Trace very fine grained disseminated pyrite on schist folia throughout.		
388.5	404	15.5/ 15.5	Box 7 Core intact. Soft noncalcareous black/grey carbonaceous schist. Foliation 80° to core axis. Trace very fine grained disseminated pyrite throughout & narrow pyritic stringers throughout. Hard siliceous grey quartzite bed @ 391-392. Fault gouge @ 395-395.5.		
404	423	19/19	Box 8 Core intact. Soft noncalcareous black/grey carbonaceous schist. Fcliation 80° to core axis. Hard siliceous grey quartzite bed @ 419.8-420. Trace very fine grained disseminated pyrite on schist folia.		
423	441	18/18	Box 9 Core intact. Crushed fault gouge @ 423.5-423.6 & 429.5-430. Soft noncalcareous black/grey carbonaceous schist. Foliation 80° to core axis. Trace very fine grained disseminated pyrite on schist folia.		
441	460	19/19	Box 10 Core intact. Soft noncalcareous black/grey carbonaceous schist. Foliation 80° to core axis. Carbon layers grade out to less than 5% @ 445. Trace very fine grained disseminated pyrite on schist folia.		
460	479	19/19	Box 11 Core intact. Soft noncalcareous black/grey carbonaceous schist. Less than 10% graphite. Foliation 80° to core axis. Trace very fine grained disseminated pyrite on schist folia.		
479	499	20/20	Box 12 Core intact. Soft noncalcareous black/grey carbonaceous schist with less than 10% graphite. Foliation 80° to core axis. Trace very fine grained disseminated pyrite on schist folia.		
499	517	18/18	Box 13 Core intact. Core fault gouged 509.5-510. Soft noncalcareous black/grey carbonaceous schist with less than 10% graphite. Foliation 80° to core axis. Trace pyrite on schist folia.		

AUREX EXPLORATION  
DIAMOND DRILL LOG

LOCATION \_\_\_\_\_ LAT. \_\_\_\_\_ LONG. \_\_\_\_\_ HOLE # 96-6

AZIMUTH \_\_\_\_\_ DIP \_\_\_\_\_ CASING \_\_\_\_\_ DEPTH O/B \_\_\_\_\_ DEPTH \_\_\_\_\_ CORE SIZE \_\_\_\_\_

MINING DISTRICT \_\_\_\_\_ LOGGED BY \_\_\_\_\_ DATE DRILLED \_\_\_\_\_

FOOTAGE \_\_\_\_\_ GEOLOGICAL DESCRIPTION \_\_\_\_\_ ASSAYS \_\_\_\_\_

FROM    TO    RCY

517	536	19/19	Box 14 Core intact. Core fault gouged @ 519-521. Soft noncalcareous black/grey carbonaceous schist with less than 10% graphite. Foliation 80° to core axis. Trace pyrite on schist folia.
536	554	18/18	Box 15 Core intact. Soft noncalcareous black/grey carbonaceous schist with less than 10% graphite. Foliation 80° to core axis. Trace pyrite on schist folia.
554	572	18/18	Box 16 Core intact. Core is rubbly @ 568-572. Soft noncalcareous blk/grey carbonaceous schist with less than 10% graphite. Foliation 80° to core axis. Trace pyrite on schist folia. Contact @ 562 to medium hard siliceous dark greenish grey weakly foliated calc silicate. Trace pyrite stringers @ 569.5. White foliaform quartz vein with trace pyrite @ 566-567.
572	588	16/16	Box 17 Core intact. Core broken @ 585-587. Medium hard siliceous dark greenish grey weakly foliated calc silicate. Contact @ 573 to soft noncalcareous black/grey carbonaceous schist. Foliation 80° to core axis. Trace very fine grained disseminated pyrite on schist folia. Graphite content variable 1-10%.
588	600	12/12	Core intact. Fault gouge 589-591. Soft noncalcareous black/grey carbonaceous schist. Foliation 80° to core axis. Graphite content increasing to 80% @ 590. Trace very fine grained disseminated pyrite on schist folia.

END OF HOLE

Recovery= 293.5/303= 96.9%.

**LEGEND 093567 ANVIL RANGE MINING CORP.**

- CRETACEOUS**
- Anvil Dyke Suite = diorite, quartz-feldspar porphyry
  - Anvil Plutonic Suite = quartz monzonite, granodiorite
- DEVONIAN to PERMIAN**
- Anvil Range Group basalt
  - Earn and Anvil Range Groups = silt, chert, chert conglomerate
- Late HADRYNIAN to early ORDOVICIAN**
- Menzie Creek Formation = basalt, carbonaceous phyllite
  - 5 BCD = calcareous phyllite, metazelite, chloritic crystallite
  - 5 A = graphitic phyllite
  - 3 DC = calc-silicate, metabasite
  - 3 G = non-calcareous phyllite
  - 3 E = graphitic phyllite
  - 1 CD = non-calcareous biotite muscovite schist

- DRILL HOLE, part of the deep drilling program
- SULPHIDE DEPOSIT
- URN BARITES
- FOSSIL LOCATIONS

SCALE 1:50000

REVISED: 90-07-10

