

80-#485-# 8261

DIAMOND DRILL PROGRAM ON THE
AL MINERAL CLAIMS, KWUN LAKE
AREA, BRITISH COLUMBIA

Cariboo M.D.
NTS 93A6
52°24'N, 121°21'W

by

P.E. Fox PhD. P.Eng.
Fox Geological Consultants Ltd.
410 - 675 W Hastings St.
Vancouver, B.C.

for

Orbex Minerals Limited
(Owner and Operator)

CLAIMS
AL 6, 8, 10, 15-19

August 12, 1980

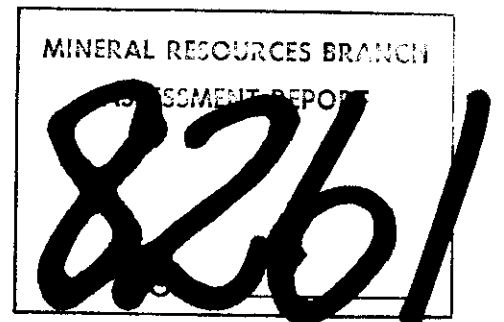


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INTRODUCTION:

The purpose of this report is to present results of diamond drilling work done on the AL mineral claims, Cariboo Mining Division, between April 29 and May 8, 1980. This report is submitted in support of the above work program.

LOCATION AND ACCESS:

The AL mineral claims are situated near Kwun Lake some 10 kms northeast of Horsefly, B.C. (figure 1). The claims are easily reached by public access routes east of Horsefly and a short 4-wheel drive road that leaves the main road at the Antypowich Ranch.

The claims cover gently rolling terrain north and east of the Horsefly River. Small lakes and swampy depressions that form small basins between rock and till-covered ridges are common. Local relief is about 50 metres. Bedrock exposures are abundant along rocky ridges north of the Little Horsefly River but are rare near Kwun Lake. Forest cover consists of birch, alder and fir. Drainage is generally poor, the only creek of significance is a small tributary of the Little Horsefly River that drains south from Kwun Lake.

121° 45'

52° 30'

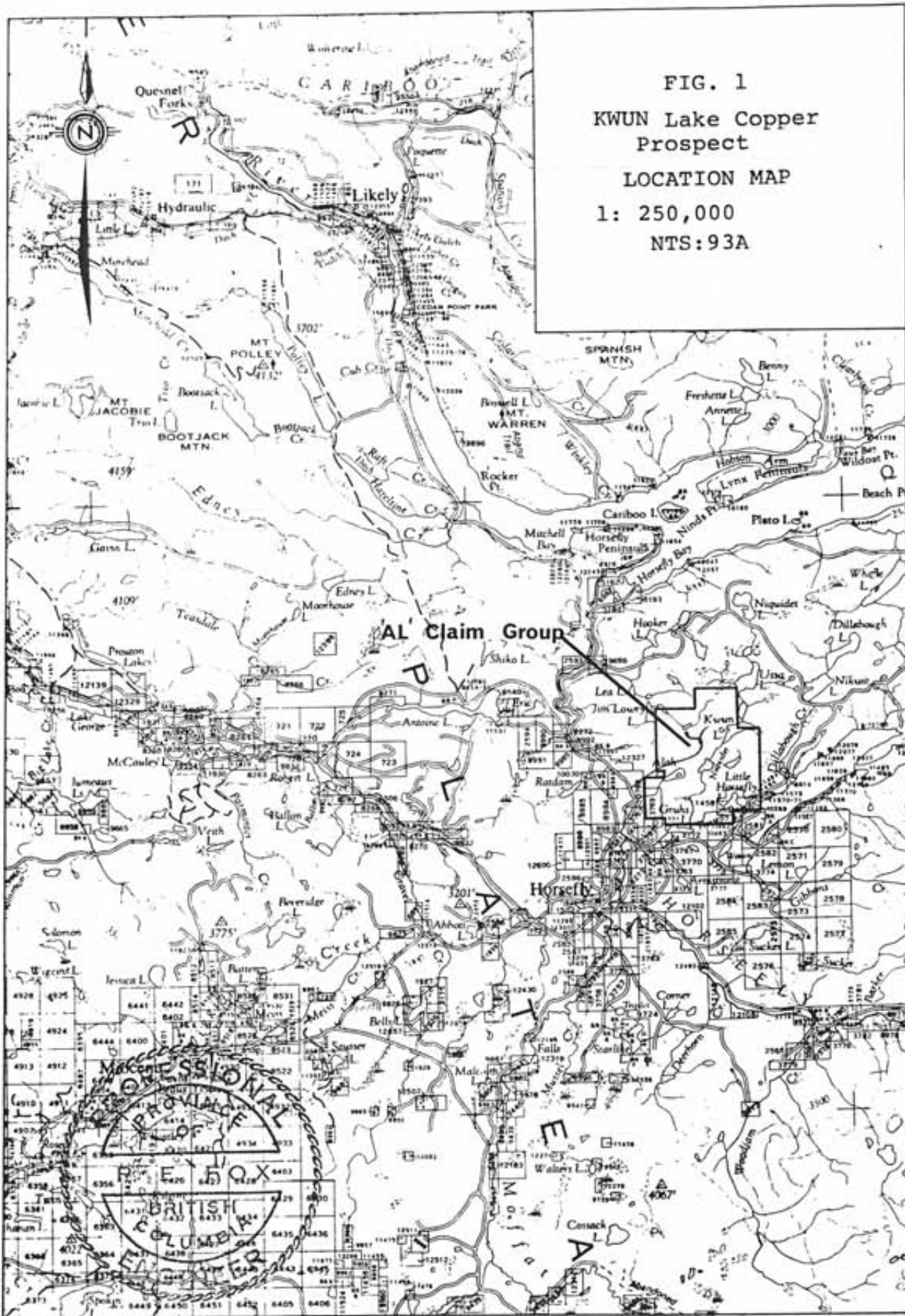


FIG. 1
 KWUN Lake Copper
 Prospect
 LOCATION MAP
 1: 250,000
 NTS:93A

CLAIMS:

There are currently 9 claims in goodstanding. These were staked as part of a large block in July and September 1973. The following list indicates record numbers and expiry dates. Work described herein will advance the expiry dates for all claims to 1990.

<u>Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
AL 6	69057	July 20, 1981
8	69059	July 20, 1981
10	69061	July 20, 1981
15	69066	July 20, 1982
16	69067	July 20, 1982
17	69068	July 20, 1982
18	69069	July 20, 1982
19	69070	July 20, 1982
115 Fr	71671	June 17, 1982

GEOLOGY:

The prospect is situated in the eastern part of the Quesnel trough structural-petrologic province not far from its east boundary with metamorphosed rocks of the Cariboo mountains. Rocks in the prospect region consist of a thick succession of submarine volcanics, pillow basalts, agglomerate, poly lithic volcanic breccias, discontinuous carbonate horizons, and several thousand metres of subareal volcanics consisting of leucite-bearing basalt and related flow top breccias, conglomerate, sandstone, tuff, laharc breccia and limestone pebble conglomerate.

GEOLOGY: continued

Several synvolcanic stocks of diorite, syenodiorite and syenite occur within the volcanic sequence and represent eroded conduit zones from which much of the flows and breccia materials were erupted.

One of these intrusive bodies is exposed on the AL claim block near Kwun Lake. The stock is poorly exposed and underlies much of the low-lying, poorly drained area west of Kwun Lake. The stock is oval in plan with a maximum dimension of 2500 metres. It consists of augite diorite and a central core of syenodiorite and monzonite. Coarse volcanic breccia and syenitic breccia enclose the stock and are flanked to the east and west by autobrecciated basalt.

Small amounts of pyrite and chalcopyrite occur in highly fractured, altered, and brecciated volcanic rocks west and south of the stock and within anhydrite-rich fault zones within the intrusion. Mineralized rocks are everywhere poorly exposed and to date have been tested by 22 percussion holes and two diamond drill holes.

WORK PROGRAM:

The 1980 work program consisted of 455 metres of core drilling (BQWL) comprising four holes. Work was done by H. Allen Drilling Company using a Longyear 38 drill. Drill core was logged, split and sampled on three-metre intervals. Core logs are given in Appendix I. Core assays are not available pending further evaluation of the prospect. Collar positions are shown in figure 2. Core is stored 50 m southwest of hole #1.

WORK PROGRAM: continued

Drill holes #1, #3 and #4 were designed to test a deep zone of anhydrite-pyrite breccia cored in hole ALP75-1 drilled in 1975. Drill hole #5, which was drilled northeast at -45°, was designed to test a broad zone of pyritic volcanics that occur in a broad propylitic zone south of the diorite-syenite stock. Hole #1, which deepened hole 75-1 to 212 m, and drill hole #3 cored discontinuous zones of anhydrite-rich breccia. Drill hole #4 cored barren diorite and drill hole #5 cored pyritic volcanics over most of its length. Assay results are not available at present hence no assessment of the exploration potential of the prospect can be made at this time.

DISBURSEMENTS:

Disbursements for the project are given below.

<u>Period Covered</u>	:	April 29 - May 8, 1980	
<u>Type of Work</u>	:	Diamond Drilling, 455 metres H. Allen Diamond Drilling Ltd.	
<u>Disbursements</u>	:		
(1) Diamond drilling, 455 m			\$30,689.00
(2) Supervision - R. Gregory BSc, 10 days @ \$75.00			750.00
(3) Labour - D. Hamilton, 10 days @ \$60.00			600.00
(4) Accommodation and board - 20 mandays @ \$25.00			500.00
<u>TOTAL DISBURSEMENTS</u>			<u>\$32,539.00</u>
Amount applied :			\$15,200.00

Prepared by

FOX GEOLOGICAL CONSULTANTS LTD.

A handwritten signature in black ink, appearing to read 'P. Fox', with a stylized flourish extending to the right.

P.E. Fox PhD., P.Eng.

August 12, 1980

APPENDIX I

DRILL CORE LOGS

(Assays not available)

DRILL HOLE RECORD

Inclination		Bearing	PROPERTY	Length 500-700'	HOLE No. ALD 1
Collar			Location Kinn Lake	Hor. Comp. /Vert Comp.	Sheet 1 of 4
			Elevation	Bearing Vertical	Logged by R. Gregory
			Coordinates	Begin May 1/80 /Completed May 2/80	Sampled by D. Hamilton
				Core size /Recovery %	

FOOTAGE From To	RECOVY Run Core	DESCRIPTION	LITHOLOGY	Veins / Metres	ALTERATION			MINERALIZATION			GRAPHIC	SAMPLES			ASSAYS				
					K	E	C	Cp	Py	Bo		No	From	To	Fe	Cu	Au	Ag	
500	510	10	10	Pink fine to medium grained Syenite, slightly mottled texture, highly fractured and altered, 1-2% access. minor, patchy areas of biot. xthls. chlorite calcite veins at 30° 60° and 90° ACA, dis. py and py in fractures and veins ~ 5% minor of.	Varies 2-3	2	1	2		3									
510	520	10	10	510'-514' - pink to white-pink mass mottled, highly fractured and veined 1-2% access. dis. and vein py. ch. calc. veins abundant in crushed section; 514'-515' dark grey more mafic material fault breccia; 515'-520' grey to slightly pink mass. minor py above 2 ch. calc. veins. veins vary 45°-90° ACA concentrated at 60° and 45° rock is more massive and less crushed	Varies 2-3	2	1	2		2									
520	530	10	10	Core of pink medium grained homogeneous mass access. mag. 1-2%, anhydrite chlorite veins 45°-90° ACA concentrated at 60° small amount of dis. py. access. in veins at 30° 1-2% minor of alteration associated with veining consists minor amounts of gyp.	4	2	1	2		1									
530	540	10	10	Light greyish pink medium grained homogeneous mass access mag. 2-3% veins comprised of mainly spp. of biot. which vary from 20° to 90° concn. at 30° ACA minor amounts of dis. and vein py. minor of. defining large biot. xls.	Varies 3-7	2	1	2		1									
540	550	10	10	Lithology similar to above mottled texture - gypsum anhydrite veins 1-2% access. mag. veins vary from 30°-90° concentrated at 30° and 70° 1-2% minor amounts of py. and with kt. veins.	5	2	1			1									

K = Kfeldspar
 E = Epidote
 C = chlorite + carbonate

1 = absent
 5 = Intense

DRILL HOLE RECORD

Inclination		Bearing		PROPERTY <u>Kinn Lake</u>	Length	HOLE No. <u>ALD-1</u>
Collar				Location	Hor. Comp. /Vert. Comp.	Sheet <u>3</u> of <u>4</u>
				Elevation	Bearing	Logged by <u>R. Gregory</u>
				Coordinates	N E	Sampled by <u>D. Hamilton</u>
					Begun /Completed	
					Core size /Recovery %	

FOOTAGE From To	RECOVY Run Core	DESCRIPTION	LITHOLY	Veins / Matr. %	ALTERATION K E C	MINERALIZATION Cp Py Bo	GRAPHIC	SAMPLES			ASSAYS			
								No	From To	Ft	Cu	Au	Ag	
		minor ep., chlorite calcite veins vary from 30°-80° concentrated at 30°-40° only minor amount of py acid												
610	620	10	10	fine to medium grained mottled microcline and muscovite calcite/chlorite veins range 30°-80° concentrated at 30°-40° with 20° ACA minor disc py and pyrite vein 3mm wide at 30° ACA	X	4	2 1 1	2						
620	630	10	10	lithology similar to above large biotite phenocrysts in microcline, 1% access mag, biotite and mott upto 30%, little to no mineralization minor py visible at 629.5' anhydrite kt veins // to CA also concentrated at 15° and 35° ACA		3	2 1 1							
630	640	10	10	Pink to grey medium grained mottled microcline <1% access mag, white slight alteration of biotite to chlorite calcite kt chlorite veins angles range from 20°-70° concentrated at 30° and 60° ACA py stringers assoc with staining.		very 4-9	2 1 1	2						
640	650	10	10	greyish pink fine to medium grained microcline <1% access mag, silty sider evidence of staining, chlorite quartz veins (minor kt) concentrated at 10°-30° and 60° minor disc py along entire section of core <<1% also minor epidote and stringers assoc with minor amounts of py.		very 4-7	2 2 2	1						
650	660	10	10	grey to pale mottled medium grained microcline 1-2% access mag, anhydrite calcite kt veins and		9	2 2 2	1						

DRILL HOLE RECORD

PROPERTY <i>Vermont Lake</i>		Length <i>500'</i>	HOLE No. <i>ALD 3</i>
Location		Hor. Comp. / Vert. Comp.	Sheet / of <i>3</i>
Elevation		Bearing <i>vertical</i>	Logged by <i>R. Gregory</i>
Coordinates		Begun <i>May 2/60</i> / Completed <i>May 4/60</i> N E Core size <i>2 1/2"</i> / Recovery <i>100%</i>	Sampled by <i>D. Hamilton</i>

FOOTAGE		RECOV'Y		DESCRIPTION	LITHOL'Y	Veins / Meters-ft	ALTERATION			MINERALIZATION			GRAPHIC	SAMPLES				ASSAYS		
From	To	Run	Core				K	E	C	Co	Py	Bo		No	From	To	Fr	Cu	Au	Ag
0	22			Casing																
22	34	12	11.2	Grey fine to medium grained monzonite, material in veins intruded by Kf veins 1/2 cm wide / A.C. and at 60' and 90' A.C. 1% alteration zones, minor epidote, also py in streaks and anastomosing around Kf veins minor sp.		6	2	2	2		1	1								
34	41			no outcrop free possibly 22-34 was not fine outcrop. No core																
41	50	9	8.5	Grey fine grained micro diorite with larger grains or phenocrysts of biotite intruded by Kf veins Kf alteration also around veins minor anorthite / diorite py also with alteration zones veins concentrated between 20' and 40' A.C.		5	3	1	2											
50	60	10	9.5	Pink to grey fine to medium grained monzonite, large but still 1/2% altered zones. Sillimanite and minor and zones chlorite calcite veins, only minor amounts of diorite py veins concentrated between 30' and 45' A.C.		5	3	1	3											
60	70			Similar lithology to above gabbro veins and minor amount of epidote also present disseminated pyrite in Kf alteration anastomosing around veins also streaks of py at 30' A.C.		Diabase	3	2	3		2									
70	80			Lithology similar to above monzonite in veins at 30' 5' A.C. Kf alterations and veins at 40' and 30' A.C. minor py in vein at 71'		5	3	1	2		1									

DRILL HOLE RECORD

Inclination		Bearing		PROPERTY <i>Kwan Lake</i>	Length <i>500'</i>	HOLE No. <i>Al D 3</i>	
Collar				Location	Hor. Comp	/Vert Comp	
				Elevation	Bearing		Sheet <i>2</i> of <i>11</i>
				Coordinates	Begun	/Completed	
					Core size	/Recovery %	
						Logged by <i>R. Gregory</i>	
						Sampled by <i>D. Hamilton</i>	

FOOTAGE From To	RECOVERY Run Core	DESCRIPTION	LITHOLY	Veins / Metres	ALTERATION K E C	MINERALIZATION Cp/Py/Bo	GRAPHIC	SAMPLES			ASSAYS			
								No	From To	Ft	Cu	Au	Ag	
80	90	10	9.7	80' - 82' greyish pink medium grained monzonite / 82' - 90' pinkish same rock but altered plagioclase and cordierite (dark pink syenite) streaking indicating local streaming at 82.5' and 84' zone altered to chlorite and epidote streaming at 60' and 20' A/C veins and fractures little or no visible alteration, highly altered section (82' - 90') is highly broken up	6	4 2 3								
90	100	10	10	Greyish pink medium grained monzonite, matrix fine grained dike at 92', highly altered rock at 93' to chlorite and epidote diasp. in slightly altered area at 94' veins concentrated at 70' and 30' A/C	9	2 3 3								
100	110	10	10	Grey pink medium grained monzonite with Kf veins and alteration zones epidote and py associated with Kf rich zones, < 1% accessory magnetite veins and fractures most commonly occur at 70' - 40' A/C	10	2 4 3 2	2							
110	120	10	10	light grey fine medium grained monzonite heavy py mineralization 113' - 115' in slightly Kf altered zone pyrite occurs in veins and disseminated areas around veins up to 15% over 5' x 2 - 3 1/2 x 2' stringers and veins at 20' - 30' A/C chlorite and epidote zoning associated with mineralization 117' - 112'	3	2 3 2	4							
120	130	10	10	Greyish pink medium grained monzonite evidence of thin streaks (chlorite) calcite and Kf veins Kf alteration to chlorite and epidote 1% accessory magnetite pyrite in Kf alteration zones and stringers disseminated stringers // A/C streaming at 90' A/C	1	2 2 2	1							

DRILL HOLE RECORD

Inclination		Bearing	PROPERTY <i>Kumukoke</i>	Length <i>500'</i>	HOLE No. <i>ALD 3</i>
Collar			Location	Hor. Comp. /Vert. Comp.	Sheet <i>3</i> of <i>80</i>
			Elevation	Bearing	Logged by <i>R. Gregory</i>
			Coordinates	Begun /Completed	Sampled by <i>D. Newham</i>
				Core size /Recovery %	

FOOTAGE From To	RECOVY Run Core	DESCRIPTION	LITHOLY	Veins / Metre ft	ALTERATION K I E C	MINERALIZATION Cp Py Bo	GRAPHIC	SAMPLES			ASSAYS			
								No	From To	Ft	Cu	Au	Ag	
130	140	10	10	Greyish pink medium grained monzonite 2 highly mineralized veins 133'- 134' and 139.5'-140' pyrite in veins at 30° A CA N 1cm width. Veins occur in Kf altered zone and consist of chlorite and py up to 30% of vein material some chalc py in pore anastoles	9	3 3 3	3							
140	150	10	10	Lithology same as above pyrite in calcite/chlorite veins at 30°-40° A CA Kf alteration around veins containing minor py minor epidote	5	3 2 2	2							
150	160	10	10	Lithology same as above minor py and minor ep in veins at ~20° A CA other calcite chlorite Kf veins out at 60° and 30° A CA	3	1 2 2	1							
160	170	10	10	Lithology similar to above but includes a few 'faded' areas of finer grained grey microcrystalline gneiss rather unsettled appearance, only minor amounts of py in 30° A CA veins and small Kf anastoles other calcite chlorite veins are at 25°/45° CA. Slickenside indicate shearing has taken place along a few 45° chlorite veins	7		1							
170	180			Greyish pink medium fine grained monzonite 172' - 173' & 3 chlorite veins in the region displaying slickensides 20°-40° minor vein type pyrite minor amounts of gypsum in veins	10	2 1 3	1							
180	190			Lithology same as above pyrite in calcite veins and chlorite in Kf Kf anastoles around veins calcite and chlorite veins at 30° and 60° A CA	5-10	2 1 3	1							

DRILL HOLE RECORD

COST	Inclination	Bearing	PROPERTY <u>Kamin Lake</u>	Length <u>500'</u>	HOLE No. <u>ALD 3</u>
			Location	Hor. Comp. <u>0</u> / Vert. Comp. <u>500'</u>	Sheet <u>9</u> of <u>11</u>
			Elevation	Bearing	Logged by
			Coordinates	N E	/Completed /Recovery %

FOOTAGE From To	RECOVY Run Core	DESCRIPTION	LITHOLY	Veins / Metres (l)	ALTERATION K E C	MINERALIZATION Cp Py Bo	GRAPHIC	SAMPLES			ASSAYS			
								No	From To	Ft	Cu	Au	Ag	
190	200	10	10	Greenish pink medium fine grained muscovite Kf alteration drill dark pink at 195' (2 cm wide) chlorite chlorite veins concentrated at 30° A.C.P. and contain minor amounts of vein-type pyrite as well as siliceous py in vein Kf alteration areas	G	2 1 1	1							
200	210	10	10	Lithology same as above slightly greyer in color py mineralization at 205' and 204'-205' py occurs in veins in Kf altered areas along with chlorite and epidote mineralized veins are at 20° A.C.P.	G	2 1 1	1							
210	220	10	10	Lithology same as above with patchy areas around calcite/chlorite veins comprised of greater % of Kf. chlorite calcite veins at 235' and 20° A.C.P. only minor amounts of stringer-type py in veins at 20° A.C.P.	G	3 1 2	1							
220	230	10	10	Coarse pink medium grained muscovite disseminated by vein py and stringer pyrite all occur in Kf alteration zones minor amounts of epidote and dias. op are also present veins concentrated at 20° and 60° A.C.P.	G	2 2 2	1 2							
230	240	10	10	Lithology same as above leucocratic dike fine grained at 235' (10 cm wide) Kf alteration considered either side extending 20-30" dike at 30° A.C.P. no visible mineralization other veins concentrated at 0° and 55° A.C.P.	G	3 2 2								
240	250	10	10	Lithology same as above py min- eralization in veins 243-245 associated with minor stringer-chlorite slides sulfate hydroxide veins concentrated 60° 30'	G	2 1 1	2							

DRILL HOLE RECORD

Inclination		Bearing		PROPERTY	Length	HOLE No.	
Collar				Koun Lake	50'	17D-3	
				Location	Hor Comp	/Vert Comp	
				Elevation	Bearing	Logged by	
				Coordinates	N	/Completed	
					E	/Recovery %	

FOOTAGE		RECOVY		DESCRIPTION	LITHOLY	Veins / Necessity	ALTERATION			MINERALIZATION			GRAPHIC	SAMPLES				ASSAYS		
From	To	Run	Core				K	E	C	Cp	Py	Bo		No	From	To	Ft	Cu	Au	Ag
310	320	10	10	dark pink kf rich syenite (probably altered monz) calcite/zeolite veins at 0° and 45° ACG. dia. py and vein py present associated with fractures at 20° ACG.		G	4	2	1		2									
320	330	10	10	dark pink medium grained syenite - monzonite chlorite calcite veins at 30°-50° ACG and 60° ACG veins are heavily pyritized minor veins py in alteration kf associated with veins ~ 3-5% py		G	3	2	3		4									
330	340	10	10	Pink medium grained monzonite - syenite 25% biotite (coarse grained) chlorite/calcite veins at 20° e-d 0°-15° ACG Section from 338-339' heavily mineralized with py in vein at 0° ACG other py in veins 30°-40° ACG.		S	2	2	2		2									
340	350	10	10	Pink medium grained syenite contains substantial calcite veins dia. py ~ 3% and vein type py/chl. veins at 60°-70° ACG minor chlorite / epidote alteration		G	2	1	2		3									
350	360	10	6.5	Greenish pink medium grained monzonite - 3' of mineralized core ~ 5-10% py ground up - only small fragments remain intact dia. py throughout section chlorite calcite veins from 0° 10° ACG alteration of biotite to chlorite and epidote.		G(?)	2	2	2		3S									
360	370	10	10	Greenish pink medium grained massive monzonite minor dia. py assoc. with gypsum veins 25° ACG - chl. calc. veins at 0° ACG minor kf alteration around veins		S	2	2	1		1									

DRILL HOLE RECORD

Inclination		Bearing	PROPERTY <u>Keweenaw Lake</u>	Length <u>500'</u>	HOLE No. <u>ALD 3</u>
Collar			Location	Hor. Comp. /Vert. Comp.	Sheet <u>8</u> of <u>15</u>
			Elevation	Bearing	Logged by <u>R. Gregory</u>
			Coordinates	Begun /Completed	Sampled by <u>D. Hamilton</u>
				Core size /Recovery %	

FOOTAGE From To	RECOVY Run Core	DESCRIPTION	LITHOLY	Veins / Measr	ALTERATION K E C	MINERALIZATION Cp Py So	GRAPHIC	SAMPLES			ASSAYS			
								No	From To	Ft	Cu	Au	Ag	
		highly veined areas by mineralization veins with altered areas and veins												
440-450	10	10	Greyish pink fine to medium grained monzonite gyp vein at 450' with py mineralization by also dias throughout areas of kt alteration calcite gypsum anhydrite veins at 0° 30' 40' A CA	10	2 1 2	35								
450-460	10	10	Lithology similar to above slightly pinker - syenite (alteration) heavily veined and crushed texture py mineralization in fractures and dias throughout crushed zone 3-5% areas with gyp calc anhyd. veins at 0° 40' A CA	15-20	3 1 2	3								
460-470	10	10	Lithology similar to above - veins somewhat // at 20° 30' A CA kfs alteration hosting py mineralization	10	3 1 2	2								
470-480	10	10	Lithology similar to above - 'crushed' texture - gypsum anhydrite alteration veins with kt coarsest rock in slightly finer grained py dias along length of section 2-2% py	15-20	3 1 2	2								
480-490	10	10	pink to greyish pink monzonite - syenite highly fractured and cut by gypsum veins 2-20cm in width - py mineralization at margins of veins in kt alteration coarsest - veins concentrated at 30° A CA	10-12	3 1 2	2								
490-500	10	10	Lithology similar to above fewer gypsum veins higher proportion of calcite veins somewhat // at 60-80° A CA minor py mineralization areas D: ch. veins	10	3 1 2	15								
EOL														

DRILL HOLE RECORD

CORRECT	Inclination	Bearing	PROPERTY <i>Kwan Lake</i>	Length <i>400'</i>	HOLE No. <i>ALD 4</i>
			Location	Hor. Comp. /Vert. Comp.	Sheet <i>2</i> of <i>5</i>
			Elevation	Bearing	Logged by <i>B. Gregory</i>
			Coordinates	Begun /Completed /Recovery %	Sampled by <i>D. Hamilton</i>

FOOTAGE From To	RECOVY Run Core	DESCRIPTION	LITHOLY	Veins / Metzels	ALTERATION			MINERALIZATION			GRAPHIC	SAMPLES			ASSAYS		
					K	E	C	Cp	Py	Bo		No	From	To	Ft	Cu	Au
		minor vein py associated with chlorite zeolite veins and related Kf associated veins concentrated at 30' and 60' A.C.A.			2	1	2		1								
110	120	10	10	Pink to grey medium grained monz- onite large caliche brit. slata in less altered (Kf) grey monzonite vein vein py associated with calcite chlorite veins 35' A.C.A. veins concen- trated around 30' and 20' A.C.A.	7		2	1	2		1						
120	130			Lithology same as above py in veins vein at 124' (py) 1cm wide at 35' A.C.A. Kf veins and related associated of Kf enrichment - mottled texture veins concentrated at 30' / 60' minor epidote assoc. in associated veins.	6		2	1	2		2						
130	140	10	10	Light pink medium grained monzonite vein and chert py in vein associated of Kf alteration chlorite calcite trachite veins at 40' and 20' A.C.A.	8		2	1	2		2						
140	150	10	10	Lithology similar to above large ragged brit. slata. Shear zone between 142' and 143' highly altered to biotite and chlorite slaking and highly cracked (fine) material no apparent sulphides minor epidote veins at 45' and 20'.	7		2	1	2								
150	160	10	10	Lithology same as above chlorite calcite zeolite veins mainly at between 60' and 80' A.C.A. minor py in core vein at 153'	10		3	1	2		.5						
160	170	10	10	Lithology similar to above chlorite calcite veins 11' A.C.A. end at 60' 20' only minor chert py in Kf alteration zone.	7		3	1	3		.5						
170	180	10	10	Greyish pink fine grained monzonite possible chert - many xenoliths.	4		2	3	3		1						

DRILL HOLE RECORD

Inclination		Bearing		PROPERTY <u>Kinn Lake</u>	Length	HOLE No. <u>ALD 4</u>	
Collar				Location	Hor. Comp.	/Vert. Comp.	
				Elevation	Bearing		
				Coordinates	Begun	/Completed	
					Core size	/Recovery %	

FOOTAGE		RECOVERY	DESCRIPTION	LITHOLY	Veins / Metres	ALTERATION	MINERALIZATION	GRAPHIC	SAMPLES				ASSAYS				
From	To	Run Core							No	From	To	Fe	Cu	Au	Ag		
			chlorite and epidote and some composed of met mafic material with associated ksp. evidence of shearing (slicken slides in chlorite veins) veins and shearing concentrated at 45° and 60° mag.				1										
180	190	10	10	Pink to greyish pink medium grained monzonite chlorite calcite calcite veins at 20°-30° and 60°-70° slickensides in chlorite veins at 60°-65° at 189' minor ksp in mafic xenolith, accessory mag.	6	2	1	2									
190	200	10	10	Grey fine-medium grained mafic diorite large ragged biot. xtals, calc. minor ksp alteration alteration around a few veins veins at ~60° A CA mag.	2	.5	1	2									
200	210	10	10	Pink to greyish pink medium grained monzonite) slightly mottled texture large ragged biot. xtals calcite chlorite veins at 30° and 60° A CA	6	2	1	2									
210	220	10	10	Same lithology as above chlorite calcite veins at 20° and 70° A CA minor disseminated py in veins and ksp alteration zones accessory mag.	7	2	1	2									
220	230			Greyish pink medium grained monz. 1-2% accessory magnetite chlorite calcite zeolite veins concentrated at 60° and 65° A CA weak dias py around a few veins	10	1	1	2			.5						
230	240			Lithology same as above chlorite calcite zeolite veins at 30° and 60° A CA minor py occurs in a few chlorite calcite veins	10	2	1	2			1						
240	250			Pink fine grained syenitic rock finely veined chlorite veins at 20° A CA are heavily filled with py (1 cm and) heavily oxidized areas have dias. py in ksp altered zones.	13	2	1	3			2						

DRILL HOLE RECORD

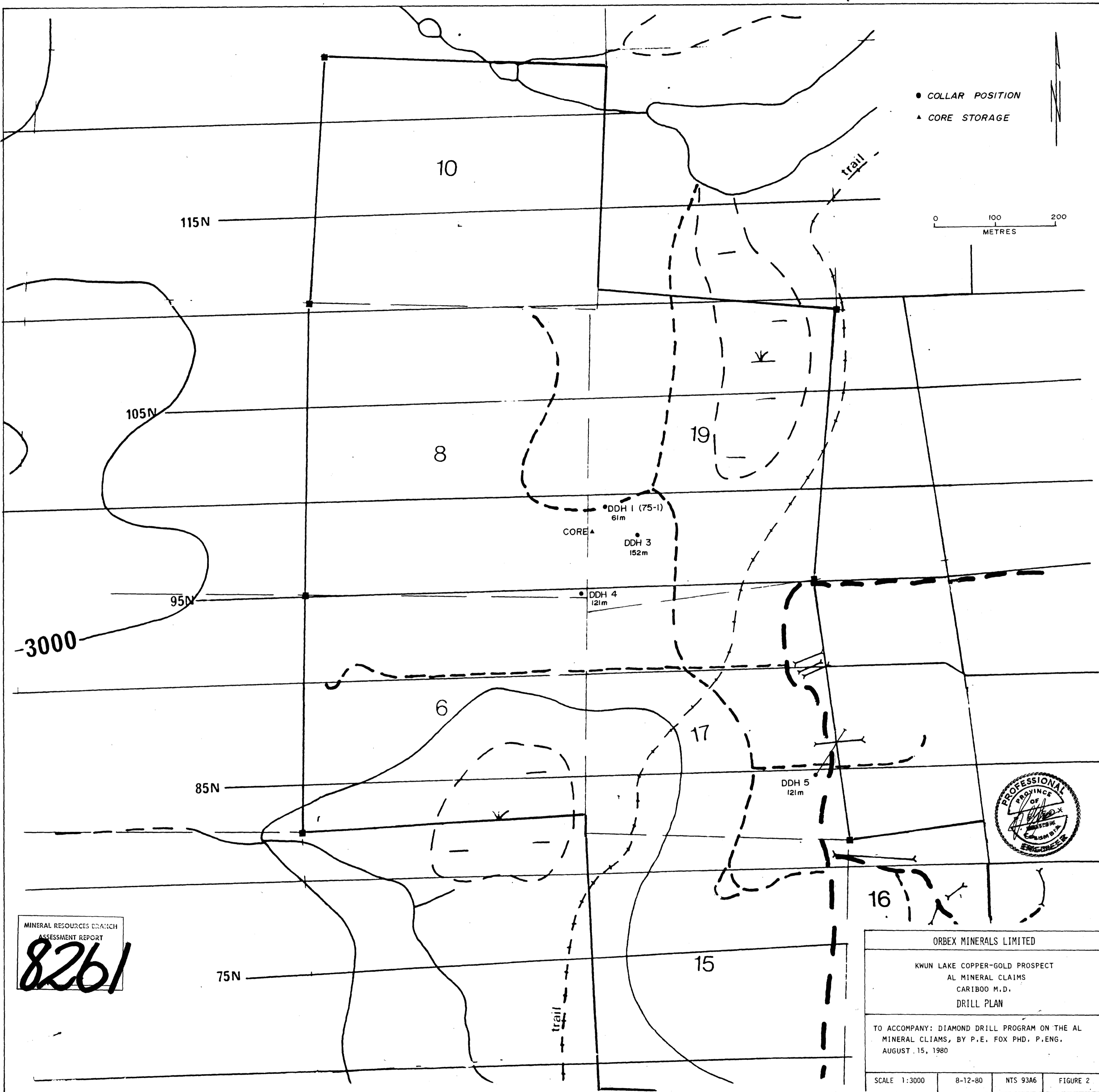
CORREL	Inclination	Bearing	PROPERTY <u>Keweenaw Lake</u>	Length	HOLE No. <u>ALD 4</u>
			Location	Hor. Comp. /Vert Comp.	Sheet <u>4</u> of <u>5</u>
			Elevation	Bearing	Logged by <u>R. Gregory</u>
			Coordinates	Core size	Sampled by <u>D. Hamilton</u>
			N E	/Completed /Recovery %	

FOOTAGE From To	RECOVERY Run Core	DESCRIPTION	LITHOLY	Veins / Metre ft	ALTERATION K E C	MINERALIZATION Cp Py Bo	GRAPHIC	SAMPLES			ASSAYS		
								No	From To	Ft	Cu	Au	Ag
250-260	10/10	Pink fine grained Syenite and first 2' dia and then by concn at 30'		7	2 1	3							
		252-260 Greyish pink medium grained monzonite highly fractured and sheared - fault breccia? dia by in shear zone		breccia	2 1 4	1							
260-270	10/10	260-263 Greyish pink medium grained monzonite highly fractured continuation of fault breccial chlorite and calcite alteration and second mass dia by through fault finely crushed zone			2 1 4	1							
		263-270 Light greyish pink medium grained more massive monzonite chlorite chlorite zeolite veins at 2-60' ACA		Co	2 1 1								
270-280	10/10	Grey medium grained monzonite with syenitic alteration aureoles around chlorite calcite zeolite veins Veins concentrated at 30' and 60'- 70' ACA		Co	1 1 2								
280-290	10/10	Greyish pink medium grained mono- calcite zeolite chlorite veins at 5' and between 40'-50' ACA minor epidote around chlorite shear zone at 286.5'		Co	2 1 2								
290-300	10/10	Greyish pink medium grained mono- calcite chlorite zeolite veins at about 40' ACA minor epidote pyrite in veins 30' ACA and by disseminated in Kf alteration aureoles around veins		4-9	2 2 2	15							
300-310	10/10	Lithology same as above veins concentrated between 40'-50' ACA pyrite disseminated in Kf alteration zone and by in veins minor epidote		4	2 2 2	1							
310-320		Lithology same as above veins concentrated at 20', 40' and 70' ACA pyrite in veins at 20' ACA (minor) biotite alteration to chlorite and epidote			2 2 2	2							

DRILL HOLE RECORD

Inclination		Bearing		PROPERTY <i>Kuma Lake</i>	Length <i>400</i>	HOLE No. <i>ALD 5</i>	
Collar				Location	Hor Comp	/Vert Comp	
				Elevation	Bearing <i>045°</i>		Sheet <i>2</i> of
				Coordinates	Begun		Logged by <i>Rick Gregory</i>
					/Completed		Sampled by <i>D. Hamilton</i>
					Core size		%
					/Recovery		

FOOTAGE From To	RECOVERY Run Core	DESCRIPTION	LITHOLY	Veins / Meters	ALTERATION			MINERALIZATION			GRAPHIC	SAMPLES			ASSAYS		
					K	E		Cp	Py	Bo		No	From	To	Fe	Cu	Au
		epidote anesole alteration halo from 2mm - 10mm minor py in fractures and veins															
90	100	10	10	grey to pink grey andesite slight potassic alteration similar epidote veins and anesoles as 80-90' at 30-40° ACA calcite veins at 60-70° ACA and are surrounded by kf alteration anesoles minor py in fractures at 60-70° ACA	8	2	3	1		1							
100	110	10	10	grey to pink mottled andesite calcite chlorite epidote veins at 25° and 70° kf veins/alteration at 90° associated py	6	2	2	2		2							
110	120	10	10	Same lithology as above kf alteration zones heavily cut by py veins 114- 117' 2-3% py mineralized veins cut out at 45°	8	3	2	1		3.5							
120	130	10	10	grey to pink mottled andesite pink color resulting from potassic alter- ation of original volcanic rock epidote kf calcite py veins at 45° ACA minor disseminated py in kf anesoles py from 1-2% from 121-124'	4	2	2	1		2							
130	140	10	10	grey andesite with kf chlorite epidote and pyrite veins evidence of minor steaming slickensides in chld veins at 45° ACA py veins up to 3cm width 45° ACA // to each other concentrated in kf alteration zones. 138-140' is medium grained diorite with kf alteration (Syenodiorite)	8	2	3	2		2.5							
140	150	10	10	grey pink syenodiorite calcite veins at 10° and 80-90° ACA py veins // at 40° AC from 140-142' veins 6/ft (py) kf veins about 60- 65° ACA	5	2	2	1		2							



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8261

ORBEX MINERALS LIMITED			
KWUN LAKE COPPER-GOLD PROSPECT AL MINERAL CLAIMS CARIBOO M.D. DRILL PLAN			
TO ACCOMPANY: DIAMOND DRILL PROGRAM ON THE AL MINERAL CLAIMS, BY P.E. FOX PH.D., P.ENG. AUGUST 15, 1980			
SCALE 1:3000	8-12-80	NTS 93A6	FIGURE 2