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

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

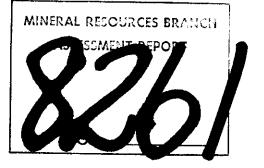
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P.E. Fox PhD, P.Eng, Fox Geological Consultants Ltd. 410 - 675 W Hastings St. Vancouver, B.C.

for

Orbex Minerals Limited (Owner and Operator)

<u>CLAIMS</u> AL 6, 8, 10, 15-19



August 12, 1980

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ILLUSTRATIONS

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Figure 1	-	location map	2
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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.

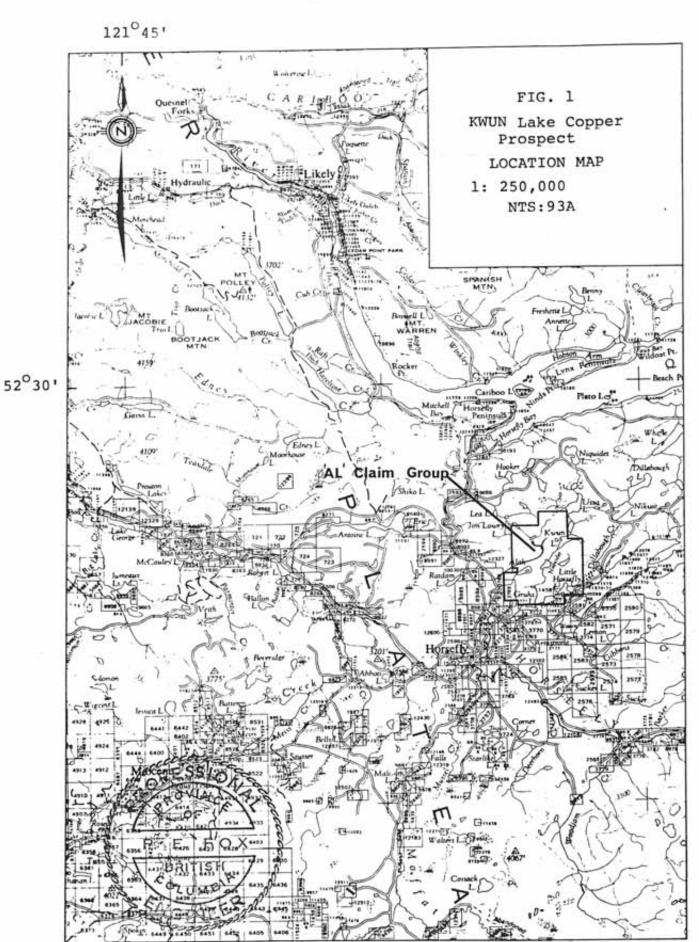
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LOCATION AND ACCESS:

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.

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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.

Name	Record No.	Expiry Date
AL 6 8 10 15 16 17 18 19 115 Fr	69057 69059 69061 69066 69067 69068 69069 69070 71671	July 20, 1981 July 20, 1981 July 20, 1981 July 20, 1982 July 20, 1982 July 20, 1982 July 20, 1982 July 20, 1982 July 20, 1982 June 17, 1982
113 11	71071	June 17, 1902

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, polylithic 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, laharic breccia and limestone pebble conglomerate.

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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 lowlying, 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.

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WORK PROGRAM: continued

Drill holes #1, #3 and #4 were designed to test a deep zone of anhydritepyrite 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.

Period Covered : April 29 - May 8, 1980	
<u>Type of Work</u> : Diamond Drilling, 455 metre H. Allen Diamond Drilling L	
<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
TOTAL DISBURSEMENTS	\$32,539.00
Amount applied :	\$15,200.00

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Prepared by

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FOX GEOLOGICAL CONSULTANTS LTD.

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

August 12, 1980

APPENDIX I

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DRILL CORE LOGS

(Assays not available)

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		TAGE	1 COSC			DESCRI	PTION		LITHOL'Y	Veins /	AL	TERA	TION	MINE	RALI	ZATI	ON	GRA	PHIC		SAM	PLES				ASS	AYS .		
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DRILL	Н	DLI	Ε	RE	ECORD Collor -95 Beering	PROP Locati	ERTY	Kur	in l	cle	-		Hor	Com	400 p. //	Vert Co	omp	_	Shee	E No. t	0	of	6	-
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10,000						Coord	inotes		_		-	N	Begu	n A	A17 18010 BR 18	omple	ted A	48/80	Samp	led by	D	Ha	mill	Fer
	1		-			7	L	1	28.614.15	5.216	1								-		101-525	(1.55)(r.4)		_
	FOO	TAGE	REC	ovy	DESCRIPTION	LITHOL'Y	Veins	ALI	FERA	TION	MINE ColP	y Bo	ZATIC	N	GRAPHIC	No	SAMP	LES	a lou	Au	ASS	SAYS	2.33	
	1 Com	27	1.2.7	Core	6	1	THERE		-	1	1 T	11	++	++		-			- 00	110	100	1-1		t
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	100	40	12		dare of petassic alleration, kt			11	1			11		TF										t
	-	-			alteration most pronounced in more									TF										T
	-		-		heavily verned areas py, - 2-32	2 .								TE								1		Г
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					to 2 cm wide 45 ACA 01-12%									E										L
		1			accessary massette, Chlorite	1	0							F					_	-				L
				1	and chidale fich veins at 10° and	1								++			_		_	-	-			Ļ
22					45" A CA			1			\square			11					_	_				Ļ
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	-20	60	10	10	lithelegy same as above chlants		- /-	+4	6.6.	-	14	++	++	Ηŧ			-	-		+			-	t
	-	-	-	-	veins at 0"- 10" A CA mover epidate			++			++	tt	++	tt				-	-	+			-	t
	-	-			Uting at 0°, 45° and 80° A CA by in			++	-	-	+	H	++-	Ħ					-	+				F
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t .:	-				around Veina	-		++		-		tt		Ħ						1				Г
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					20° and 60° to core, 64 - 70 has nottled apergance due to klance	ec								1F		-	_	-	-	1		\vdash	_	1
					around veina (distant)			11		_		\square		LF.			_	_	-	-		$ \rightarrow $		L
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	-		-		and epidote veins at 45.50-ACA	- 34			+	+		+		HE			-	-	-	+		\vdash		F
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	-		-		colote confite verse at 0:20			++	+	+	+	+	+	ΗE				-	-	+		+	-	
	-		-	-	and 45° minor chlorite	-		++	+			+	++	ΗE			-	-	-	1	$ \rightarrow $		-	F
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DRILL	_ HC)LE	Ξ.	RE	CORD Collor Inclination Bearing	Locati	ERTY	South	0	6-1 66. Y.J				ngth or Co		/V	ert Ca	omp		S	heet	2-	0	0 5		1
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1							inates					N	and the second division of the second divisio	gun	a Kaladan		omple	hat		5	ampl	ed by	C.C.	Ham	1	1
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		TAGE			DESCRIPTION	LITHOLY	Veins .							TION	GRAI	PHIC		SAM	PLES	100	2.3	22.0	ASS	AYS		
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		-		-	60" - 70" ACA and are surrounded by kf alleration anecles. minor			++	-	++	++	++	-					-	-	1	-	-				1
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	++	-	-	+	py vering 11 at 40 AC from 140-142' where 6/Ft (py) It vering also at 60"			+	-	-	++	++	++	+			-	-		$ \rightarrow $	-	-	-	-+		1
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DRILL	H	DL	Ε	RI	ECORD	Coller	Inclination	Bearing	PROP		-	_	-		_	ength for Co		~	ert C	omp			LE A		of	5	_
									Elevol	lion		_		1	B	earing			111	2010/018		Log	ged t	y	- 20		
14									Coord	notes				N		legun		/C	omple	ted			npled				
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	From	TAGE	Rus	Core	2010/09/02/19/03	12/2/2/2/2	IPTION		LITHOL'Y	Veins /	ALT.	ERATI	ON N	INERA	LIZ/	ATION	6	RAPHIC	No	SAM	Te	-	Cu IA		SSAT	s I	
	150	160	1/6	10	pint grey diorite e	medius	reamed	Syftio -		Matrell	2	3 2		3			E.										
					diorife e	Pidate	1 Poems	with									F										1
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				1	and dissert	uncted	Py in Que	ucoles.									E.										
					40 to 3%	Sulp	ides Der	noll at									E										
					up to 3% 45*-60*	ACA 1.	2 % acc.	MA BOG									E									0	
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	160	170	10	10	160-162	Grew	Pist Sue	ndiante		10	23	2		2			E										
	-				hichly 0	cinich	(15/61)	epidate									F										
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1.1					Uting 30%	CA M	ines Pu	associates							T		F										
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				1	texture py	rile St	TINC IAA' G	Aboristek									F						_			-	
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		-		1	in veins	and the second of				-							F										
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	and a division	itali Mari	1	1	Calate H	neins	mainte at	45° ACA			TT						F	11 1									
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			—		calcite let angenetite	Wound (land are	20.									F	11 1									П
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S. 1					andesite	206-2	ar hick	1, attered									E										
P 8					Fine graves autosite to epidote	3.5%	Pr es	in Jeins		4							-										
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DRILL	- HC)LE	Ξ	RE	ECORD Coller Inclination Bearing	PROPE	n		_	_	_	_	Length Hor· Comp· /Vert·Comp· Bearing							HOLE No. ALD 5 Sheet 4 of Logged by										
<i>.</i>						Coordi	Contraction of the second s	_	_	_	_	NE	Be	gun re siz			mplet		_			rd by			_					
(FOOT	AGE To	RECO	OV'Y Core	DESCRIPTION	LITHOLY	Veins-/	ALT K 1					IZAT		GRA			SAM	PLES		Cu	Au	ASS	AYS						
			_		Kt is alteration auseale around calcite dama, miss epidate veining				-				-					_				_			_					
	220	2.30	10	10	grey fine grained andesite pridate	5		1	5 2	H	H	5					_	_			_	_		_						
	E	-	_		chlorite uning with minor Slickonsider at 60° and 20° A CA minor Py appor- with epidote alteration			Ħ	+				+					_						_	_					
	230	240	10	10	dark grey andisite with some greas	7		2	52			2																		
			_	_	motified texture, epidore calcile chlorite vens at 35, 60 and 80'101 epidore chlorite vend (30') and related				+				-	-			_			_										
	\models	_	_	10	auseoles autain up to 52 pr over 2 .5' lengths.				+				_				_	2						_	-					
	240	2.50	10		Same lithology as above, epidote catcite and minor chlorite weins with related to alteration cureales, semi	.5		2 7	2 /			5					_							_	_					
	E	_	_	-	at 20"-30" and 50" ACA disseminate by in alleration 2003 N 2. %			H										1	_	_			_		-					
7.	2.50	260	10	- 1	lithology some as above, children calcite "venia with be alteration auseoles at 30" - 50" minor py	5		23	1		2						_				_	_	_	_	_					
		_	_	_	associated with epidete events and Related queedes					-							_	_				_	_		_					
	260-2	2.7e	10	_	grey audesite, epidote veno at 30° calcile vens at 60° 4 Ch Husse kt atteration around a ter	8		1 2	21	-			-				-		_		_			_	_					
		_	_	_	epidote veins magnetite calcite					_							_				_		_		_					
5	2.70 2	280	10	-	Lithology same as above, calcite and minor epidote verning, with weat ket alleration around a fit dama,	le ⁻	4	1	L					-				_		_	_									
				-	Dens large flow 0° 40° and et 30° ACA monor diss py -	-				-									_	_	_	-	_	4	_					
	280 2	2.90	10	10	lithology same as about, calcule lef & minor epidete comis at 10°, 30°- 40° and at 60° 1 CA	7	_			-	-						-	_		-	-	-		-	_					

L F	HOL	.E	F	RE	CORD Collor Inclination Bearing	PROP Locati Eleva	on			_			Length Hor C Bearin	Comp	•	/٧	ert C	omp		S	heet	5	0			
売						Coord	inates				N		Begun				mple			S	ample					Ξ
	1.1	-	_			-		-		-	E	_	Core s	_			ecove			6		00.00	_		_	_
FI	TooTAG	0 1	ive f	ore	DESCRIPTION	LITHOL'Y	Veins / Metrefi	K IE	C	ON	PPy B	ALIZ		0	RAPH	110	No	SAM	To	10	Cu	Au	ASS	AYS	1	1
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