REPORT

- on the -

LYNX, CAM & FOX CLAIMS OSOYOOS & GREENWOOD M.D.

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ALLENDALE RESOURCES LTD. 224 West Esplanade St. North Vancouver, B.C. V7M 1A4

Prepared by:

KERR, DAWSON AND ASSOCIATES LTD. #206 - 310 Nicola Street, Kamloops, B.C. V2C 2P5

> John R. Kerr, P. Eng. November 5, 1982

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#### SUMMARY

(1). The Lynx, Cam, and Fox claims were staked to cover copper and silver mineralization in a syenite stock, 18km east of the town of Okanagan Falls, B.C. The property was worked on during the early 1970's in attempt to develop known showings. There has been no previous production.

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- (2). The principle rock type on the property is a coarse-grained porphyritic, mafic-rich Tertiary syenite stock. Later intrusive phases of the main syenite are weakly-moderately altered and carry disseminated pyrite chalcopyrite, bornite, chalcocite, malachite, azurite, and possible tetrahedrite.
- (3). The property offers potential for development of small high-grade copper-silver reserves. Two samples selected from mineralized rock average 4.1% Cu and 2.42 oz./T Ag, over widths of 0.6 - 1.2 meters. If large masses of the favourable altered and mineralized rock exist within the claim block, the potential of developing a large lowgrade copper-silver-gold porphyry deposit is considered excellent.
- (4). A two-phase exploration programme is recommended on the property. The initial phase, consisting of geological mapping, geochemistry, magnetics, and an I.P. survey is anticipated to cost \$60,000. The second phase, consisting

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## Summary ... Continued

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(5). of diamond drilling and bulldozer trenching, is anticipated to cost \$90,000.



#### INTRODUCTION

#### General Statement

The Allendale Lake property was staked to cover coppersilver-gold mineralization in a Tertiary coarse-grained syenite stock located on the divide between the Okanagan and Kettle Rivers. The mineral occurrences are located in a later fine-grained altered phase of the syenite, small pockets indicating economic contents of copper and silver, and anomalous contents of gold. During the summer of 1982, Allendale Resources Ltd. drilled five diamond drill holes in areas of obvious mineralized zones. Mr. M. Menzies, President of Allendale, requested that I log the core, review the sampling process and assay data, and examine the various showing area. This report summarizes the results of this examination and all pertinent data.

### Location and Access

The claims are located 18 km east of the community of Okanagan Falls, B.C. on the southern portion\_of\_the Okanagan Valley. Geographic coordinates of the center of the property are 49° 23' N, and 119° 21' W.

Access is possible via a well-maintained gravel road to Allendale Lake, a distance of 24 km east of Okanagan Falls, and thence 1.5 km west to the main showing areas along a  $4 \times 4$  dirt road.

### Topography and Vegetation

The claims are located on the divide between the Okanagan and Kettle River valleys. Relief is generally moderate, however, local rocky knolls, gives rise to precipitous, hummocky terraine. Elevations range from 1,500 m (a.s.1) to 1,850 m (a.s.1.).

The property is lightly forested, trees being mainly stands of jack pine. Land depressions are generally filled with deep overburden, swamps, and light to moderate underbrush. Rocky knolls are lightly covered with overburden, and are occasionally devoid of vegetation.

### Claims

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The property consists of eight contiguous mineral claims, four located by the two post (2-post) method of staking, and four located by the Modified Grid System (M.G.S.) of staking. The following provides information regarding the legal description of each claim:

<u>Claim Name</u>	<u>Type of Claim*</u>	Record No.	<u>No.</u>	Units/Mining Div.	Expiry Date**
Cam #1	2-Post	1482	1	Osoyoos	Dec. 2, 1982
Cam #2	2-Post	1483	1	Osoyoos	Dec. 2, 1982
Lynx #3	2-Post	1422	1	0soyoos	July 16, 1982
Lynx #4	2-Post	1423	1	Osoyoos	July 16, 1982
Fox #1	MGS	3103	20	Greenwood	June 21, 1983
Fox #2	MGS	3104	20	Greenwood	June 21, 1983



Claims ... Continued

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Fox	#3 •	MGS	3105	20	Greenwood	June 21,	1983
Fox	#4	MGS	3106	20	Greenwood	June21,	1983

\* The various types of claims are defined in the Mineral Act for the Province of British Columbia, and accompanying regulations.

\*\* The assessment work, the data compiled in this report, has been completed, and on approval of this data, the expiry dates will be changed.

A partial title search completed on October 7, 1982, indicated that the Fox claims were recorded in the name of Stephen B. Fox (professional claim staker), and the Cam and Lynx claims were recorded in the name of Florence E. Bechtel (formerly Niddery). It is my understanding that these claims have subsequently been transferred to Allendale Resources Ltd.

The attached map is based on an updated map obtained from the Mining Recorder's office in Penticton; my personal examination of some the claim posts. Irregularities as to the claim boundary exist due to claims held by other interests at the time the Fox claims were located.

### <u>History</u>

It is unknown as to when mineralization was discovered at Allendale Lake, however the property was recognized for its porphyry copper potential during the 1960's. The only

## History ... Continued

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evidence of work is considerable trenching in the areas of the known showings. Old sills and scattered drill core indicate the presence of at least two diamond drill holes. This work was evidently completed by Selco during the early 1970's. Documentation of this data or results of this work are unavailable. Allendales Resources acquired interest in the property in the spring of 1982, and completed a five hole drill programme during the summer months.

#### FIELD PROGRAMME - 1982

Five diamond drill holes were completed, totalling 610 meters (2002 ft.). The drilling was completed by Rosaire Beaupre of Princeton, B.C., utilizing a Longyear Super 38 drill rig. The core was placed in wooden trays, appropriately identified with box and hole number, and depth was marked with tags at each pull of drill core (in feet).

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The core was split and sampled by Mr. Robert Bechtel of Okanagan Falls, the samples shipped to Kamloops. Research and Assay Laboratories for copper, silver and gold assay. Samples were collected over ten foot intervals from all drill holes.

The writer travelled to the property in October, 1982 and geologically logged all the drill core. In addition a soil traverse was completed across a known mineralized zone to test the geochemical response of copper, silver, and gold in soil over known mineralization. Two selected samples of mineralized rock were collected to study the relationship of gold/silver/ copper.

The diamond drill logs are appended to this report (APPENDIX B), and assay and geochemical reports appear as APPENDIX C.

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### GEOLOGY

The general geology of the area is documented on the 1":4 mi. G.S.C. map sheet #15-1961. The geological mapping and compilation completed by H. W. Little in 1958 and 1959.

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The claim block centers around a small (8 km<sup>2</sup>) syenite stock, one of the several mid Tertiary Coryell intrusions. This stock intruded granodiorite and quartz-monzonite rocks of the Cretaceous Valhalla and Nelson plutonic events, and schists and gneisses of the Precambrian Monashee Group. Outliers of mid-late Tertiary sedimentary and volcanic rocks exist within the general area of the claims.

There is no evidence indicating that the property has been geologically mapped. All rock examined by the writer in the area of the showings belong to the Coryell syenite and related intrusive rocks. All drill holes encountered rocks of the Coryell syenite and related phases. The G.S.C. map indicates that the eastern contact of the syenite stock passes through the eastern portion of the claim block. The stock is bounded on the north and east by granodiorite of the Valhalla intrusions, on the northwest by granodiorite of the Nelson intrusions, and on the south and west by Precambrian gneisses and schists.

Four distinct phases of the Corycll syenite were recognized in surface out crop and the drill core:

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### Geology ... Continued

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- 1. Coarse-grained, porphyritic, dark grey hornblende/biotite rich syenite, distinguished by coarse phenocrysts of orthoclase. The rock is generally massive, fresh, relatively unfractured, and indicates minor to weak signs of secondary alternation. 'Alternation when present includes Kaoliniaztion of orthoclase, chloritization of the mafics, and chlorite/epidote along fractures. Occasional pyrite grains are disseminated in the rock and along fractures. A relatively high content of magnetite (1-3%) is throughout the rock.
- 2. Fine-medium grained, mafic-rich dark grey/black intrusive rock (syenite?). This appears to be an early crystal segregation of the rock magma at the time of emplacement of the batholith. Contacts of this rock with the main syenite mass are very gradational. Weak-moderate chlorite alteration is prevalent in this rock, occasionally containing appreciable (1-3%) pyrite, and traces of Chalcopyrite.
- 3. Light grey, fine-medium grained syenite or monzonite. The mafic content is appreciably lower than the main syenite mass, and is dominantly biotite. The rock is fresh, massive, dense, and shows very little sign of secondary alteration.

### Geology ... Continued

The contacts of this rock are sharp and well-defined, indicating a separate and later intrusive event.

4. Small pods, dykes and sills of fine-grained buff/white/ light grey granodiorite, granite or aplite. The rock appears quite variable in original composition and secondary alteration. The common feature of the rock is a moderate content of primary quartz as grains and masses within the rock. Alteration is extremely variable, ranging from weak to high secondary silicification, sericitization, K-feldspar, and kaolinization. Variable content of sulphides, consisting of pyrite, chalcopyrite, chalcocite, bornite, and possibly tetrahedrite exist within the rock. Although these pods and dykes of mineralized rock appear prevalent on the surface, only one 4-6 inch dyke was encountered in any drill hole. In bedrock exposures the rock has been highly oxidized with abundant malachite and azurite.

This rock appears to be intruding all other phases other phases of the syenite, and is probably the last geological event of the syenite intrusion.

Also logged in the drill core were irregular masses of rock believed to be highly thermally altered xenoliths. These rocks are in part very crystalline, and appear to be intrusive. Confusion, therefore, exists in identifying these rocks with the black altered mafic-rich phase of the 10.

Geology ... Continued

syenite.

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There are no major structural features present in the area.

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### ECONOMIC POTENTIAL

The property offers potential for two types of economic ore deposits:

- Two representative samples of well-mineralized granitic pod were collected, indicating an average content of 4.1% copper, 2.42 oz/T silver, and 130 p.p.b. (.004 oz/T) gold. This dyke or pod is exposed on surface over widths of 0.6 - 1.2 meters. If sufficient reserves of this material could be developed on the porperty, the potential of a small underground mining operation exists.
- 2. The primary rock type, alteration, and mineralization is typical of major porphyry deposits. If large masses of this rock do exist within the claim area, major porphyry sized reserves could be developed, which would be mined by open-pit methods.

Preliminary sampling of the mineralized rock, indicates a consistent copper/silver ratio of approximately 1.6%/1 oz/T. There does not appear to be a consistent relationship of gold to either silver or copper. This suggests that the silver and copper are associated with a similar suite of minerals, however, the gold may be erratically distributed throughout the property.

There is no evidence of a normal geochemical, geological or geophysical approach to exploring for mineral deposits 12.

## Economic Potential ... Continued

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ever having been completed on the property. Regular grid lines for sampling and mapping control do not exist. The work completed was oriented at developing the reserve potential of the obvious mineral showings. A systematic grid approach is strongly recommended as a logical initial exploration phase.

A preliminary soil traverse was completed over a showing area near DDH A 82-01. Soil samples were analyzed for Cu, Ag, and Au. The geochemical response of copper over the known mineralized zone is excellent. Therefore, geochemistry is considered a good exploration tool for locating unexposed mineral deposits. 13.

A two-phase exploration programme is recommended on the Allendale Lake property:

## PHASE I

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- Approximately 120 km of grid lines established at 100 and 200 meter intervals over the entire claim area, sample stations designated at 50 meter intervals.
- Geological mapping of the entire porperty, using grid coordinates as control.
- Soil sampling all grid lines at 50 meter intervals. Samples are to be analyzed for copper and silver.
- A magnetometer survey completed on all grid lines, readings taken at 50 meter intervals.
- Allow for approximately 14.km of an induced polarization survey over selected targets.
- 6. Compile all results in report form.

Costs of the initial phase are estimated to be \$60,000 (see Appendix A for details).

## Recommendations ... Continued

## PHASE II

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- 1. Bull dozer trenching and roadbuilding.
- Allow for 2,000 ft. of diamond drilling of selected targets delineated from Phase I.
- 3. Compile results in report form.

Costs of Phase II are estimated to be \$90,000 (see Appendix A for details). The total of Phase I and Phast II is \$150,000.

Respectfully Submitted by: KERAS DAWSON AND ASSOCIATES LTD., OHA R. FES N RACKerry P. Eng. John`

Kamloops, B.C. November 5, 1982. APPENDIX A

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COST ESTIMATE

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## COST ESTIMATE

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## PHASE I:

1.	Grid Establishment	
	120 km @ \$150/km	\$18,000
2.	Soil Sampling	6,000
3.	Magnetometer Survey	4,000
4.	I.P. Survey	12,000
5.	Laboratory Costs	8,000
6.	Miscellaneous travel, supplies, and	
	equipment rental	4,000
7.	Report Compilation	2,500
8.	10% Contingencies	5,500
	Total Phase I .	\$60,000

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## PHASE II:

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1.	Diamond Drilling	
	2,000 feet @ 30.00/ft. (all inclusive)	\$60,000
2.	Bulldozer Rental	8,000
3.	Supervision	7,000
4.	Laboratory Costs	2,000
5.	Miscellaneous travel, supplies	
	and rentals $\ldots$ $\ldots$ $\ldots$ $\ldots$	3,000
6.	Report Preparation	2,500
7.	— 10% Contingencies	7,500
	Total Phase II .	\$90,000
	Phase I .	\$60,000
	Total	\$150,000

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APPENDIX B

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DIAMOND DRILL LOGS

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		PROPERTY	Allendale Lake		HOL	E No	82–1			•
DIP ANI Footage	D AZIMUT Angle	H TEST Corrected Azimuth	Core Size	Tot %	tal Depth Recovery	426 ' 100 <b>%</b>	Sh	eet No1 gged by	of • R. Kei	4 
			Section	Ele Lat Der	v. Collar titude	•••••••••••••••••••••••••••••••••••••••	Da Da Co	te Begun te Finished re Stored A	+ Site	3
	CORE LOST		DESCRIPTION		SAMPLE No.				} }	
0-6'	·•	Overburden (	Casing)		<u>.                                    </u>	OTSAWFLE				
6-40'	0	Coarse-grain	ed, porphyritic, variably altered and			·				
		coloured dari	<pre>« grey orthoclase rich syenite. Notic quartz Mafics 10 - 30% biotite/born</pre>	:e-			<u> .</u>			
		blende (~ 50	D/50), locally altered to chlorite.					<u></u>		
		Orthoclase c:	rystals up to 1.5 cm diam. Minor		<u> </u>				<u> </u>	
		dominant_tre	$nd \sim 40^{\circ}$ to core axis.		· · · · · · · · · · · · · · · · · · ·					
		17-19 ) Dark	, fine grained highly thermally altere	ed					<u> </u>	-
		25-27 -Ligh	ter, higher altered phase of syenite,	or						
		_possibly lar	er dike_intrusion. Some secondary							
			· · · · · · · · · · · · · · · · · · ·							
40-101	0	Coarse grain Somewhat les	ed, very weakly altered, gray syenite. s content mafics than above. Mafics							
		show alignme	nt in zones.							
		61-64 - High	ly fractured, with some shearing on		1	1				
<u> </u>		69-70 - Pink	aplitic or permatite dike with				<u> </u>			+
		magnatita al	Ate				بر ا			

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## KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

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Suite 1 - 219 Victoria St. Kamioops, B.C. Phone 374-0544

ROPERTY		Allendale_Lake HOLE NoA82=	1		SHEET N	o. <u>2</u>	of	_4
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH	1	<u> </u>	T	Ţ
46-101	(cont)	76-79 - Xenolith or zone of secondary biotite		OT SAMPLE	<u> </u> _	<u> </u>	<u> </u>	<u> </u>
		alteration with considerable pyrite content.				ļ	+	
. <u></u> .		94' - 4" aplite dyke with magnetite clots (possibly		······			<u> </u>	
		some chalcocite).					<u> </u>	┼──
								+
)1-112	0	Fine - medium grained, light coloured, variably		·	<u>-</u> -	<u></u>		╂────
	·	altered syenite. Clearly a later intrusive phase				<u> </u>	<u> </u>	╉┉┈╼
	<u> </u>	of above. Some secondary sericite & chlorite.						┼──
12-130		Gray coores engined						<u></u> 
		Glay, Coarse-grained, unaltered syenite.		<u> </u>				
30-164	0	Variably altered, coarse-grained, grey/green syonite		<u> </u>		 	 	
		Alteration includes sericite, chlorite & some K-		····		· · · · · · · · · · · · · · · · · · ·		<b> </b>
		feldspar. Several dyke like intrusions, as noted						<b>[</b>
		below, with some shearing along contacts.						<u> </u>
	 	131-132 - Pegmatite dyke with magnetite clots.		<u> </u>				
<del></del>		142-144 - Pink/white pegmatitic dyke like intrusions.				- <u> </u>	<u> </u>	<b> </b>
		with magnetite & possibly chalcocite.			<u> </u>			
<del> </del>		152' - 6" shear or gouge zone.						
<u> </u>		157-161 - Zone of secondary alteration with several						
	·	dike-like intrusions. Noticeable quartz in dykes.						
		Some magnetite, pyrite & chalcocite?		—			<u> </u>	
4-172		Pinkish (shite - Ci						
		and sugary aplite						
	<u>-</u>	dyke, with large magnetite clots.						
	······							·

## KENN-DAWSON & ASSOCIATES LTD. - DIAMOND DRILE RECORD \_\_\_\_\_ SI\_\_\_\_ 21\_\_\_ toria

PROPERTY_	A ]	Llendale Lake A HOLE No.	.82–1	<u></u>	SHEET No	3	of	4
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
172-234	0	Variably (weak - moderate) altered, coarse grained						
		(somewhat porphyritic) biotite/hornblende syenite.		1				
		Some minor disseminated pyrite throughout. Several						
		dyke like intrusions, as noted below.						
		175-179 - Fine grained, dark grey altered xenolith.						
		186-189 - Light grey aphanitic, fine grained dike,	-				, , , , , , , , , , , , , , , , , , , ,	
		200-202 - Coarse pegmatitic dyke with coarse				<u> </u>		
		magnetite.					<u> </u>	
		221-222 - Aplite dyke, with magnetite & possibly						
		chalcocite.						
234-247	0	Dark grey, moderately altered, fine - medium grained						
		intrusive rock, dioritic or gabbro in appearance.		}				
		Occasional coarse phenocrysts of feldspar. Noticeably	,					
		higher content of sulphides (dominantly pyrite).						
247-281	0	Light grey, variably (weak - moderate) altered coarse						
		grained syenite, noticeable alignment of mafics	· · · · · · · · · · · · · · · · · · ·					
		(dominantly biotite). Alteration includes chlorite						
		& clay.	·					
281-376	0	Grey to dark grey, weakly altered, coarse-grained		ļ			 	
		(porphyritic) diorite or syenite?. Alteration is						
		mainly chlorite & confined to fractures @ 20° & 45°						
		to core axis. Section noticeably lacking dyke-like						
		intrusions.					1	
		320-321 - Dark, fine-grained, highly altered &		•			. <u> </u>	
A	L		<u> </u>		_i		1	

recemented shear zone.

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## KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

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Summed + 21\_\_\_\_\_toria\_\_\_\_\_ Kamloops, B.C. Phone 374-0544

PROPERTY		Allendale Lake HOLE No	A82-1		SHEET NO	4 D	4 of	<u> </u>
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
281-376	(cont)	327 - 6" gouge zone.						
		341-343 - Very highly fractured.				· · · · ·		
376-426	0	Variably altered dark grey/green, moderately - highly						
		fractured, diorite or syenite. Very coarse grained,	·		-			
		crystals up to 2 cm. diam. Alignment foliation,	<u> </u>	 ·				
		believed secondary, of contorted feldspar crystals				l		
<u> </u>		& mafics. High chlorite alteration on fractures @		·	-			
		10°, 50° & 70° to core axis.						
426'		END OF HOLE						
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				<u> </u>				 
			<u></u>		·			
	-	· · · · · · · · · · · · · · · · · · ·						 
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#### KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD Kamioons, B.C. Phone 374-0544 PROPERTY Allendale Lake HOLE No. A82-2 DIP AND AZIMUTH TEST Core Size \_\_\_\_\_BQ 4501 Corrected Anale Footage Azimuth Angle of Hole .....Vertical % Recovery ~ 99.0% Logged by J. R. Kerr Elev. Collar ..... Date Begun Section..... Latitude ..... Date Finished Bearing ..... Departure ..... Core Stored At .....Site CORE LOST SAMPLE No. OF SAMPLE DEPTH DESCRIPTION ..... 0-6 Overburden (Casing) 6-74 Variably altered & fractured, medium - coarse 0 grained, grey/green syenite, Alteration includes chlorite & weak sericite & clay, dominant along <u>fracture faces. Fractures dominant trend @ 100 &</u> 50° to core axis. Magnetite and pyrite common. associated with altered zones and with small intrucivoc 61 - Alteration zone $\sim 2"$ with considerable pyrite (May be boulder). 27 - 28- Strong clay alteration. 44-47.5 - White aplitic dyke. Disseminated magnetite & pyrite throughout. Contact zone. 47.5-48 - Very highly altered with magnetite, biotite, pyrite & chalcopyrite. 74-81 Fine - medium grained, grey/green, highly altered 0 intrusive dyke. Alteration includes micas, guartz, sericite & chlorite. Pyrite, magnetite & minor chalcopyrite throughout zone.

## XELTE CALVSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD Surver - 210 VICtoria St. Kamioops, B.C. Phone 374-0544 [\_\_\_

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PROPERTY_		Allendale_Lake HOLE No	<u> </u>		SHEET I	No. <u>2</u>	of	4
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		T	· · · · ·	1
81-103	1'	Coarse grained grey biotite-rich syenite (as from				+		
	<u>=</u>	6 - 74'). Chlorite alteration, dominant along						
		fractures. Magnetite & minor pyrite throughout.				+		
103-112	0	Dark grey/green, moderate - highly altered, medium-			<u>_</u> .			
		coarse grained sygnite. Alteration includes chlorite				1		
		& biotite with abundant pyrite (2-5%) magnetite &						+
		minor chalcopyrite.				1		+
		Rock highly fractured, trends 5° & 45° to core axis.						<u> </u>
112-119	0	Coarse grained weak - moderately altered syenite.				+		
		alteration chlorite & weak clay. Magnetite & minor		·				
		pyrite throughout.						
119-130	0	Dark grey/green, highly altered, fine-medium grained		<u> </u>				<u> </u>
		rock, possibly xenolith or later intrusion. Small						+
		zones of coarse syenite in finer-grained rock.		·			···	<u>+</u>
		Very abundant pyrite as clots, blebs & disseminations		,			•	<u>+</u>
		(2 - 5%), some magnetite & weak chalcopyrite.						
130-185	0	Moderate - highly altered, dark grey/green coarse			. <u> </u>	<u> </u>		<u> </u>
		grained (porphyritic) syenite. Large orthoclase					·	·
	····	phenocrysts ( $\sim 2$ cm) in part altered to clay.	······································					<u> </u>
		Chlorite common throughout, dominant on fractures.			<u> </u>		<u> </u>	+
		Magnetite & pyrite (minor) throughout zone.				<u>+</u> ──+	<b>└</b> ┈ <u></u>	+
		150-151 - Small pegmatite dyke with magnetite clots.				1		
		172' - 4" pegmatite dyke.				1		+

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# KERK-DAWSON & ASSOCIATES LID. - DIAMOND DRILL RECORD

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PROPERTY_		Allendale Lake HOLE No.	82-2		SHEET N	lo. <u>3</u>	of	4
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
185-281	1'	Weak - moderately altered, gray/green coarse-grained						
		syenice, with most of alteration confined to fracture faces, dominant @ $0 - 10^{\circ} & 45^{\circ}$ to core axis.						
		Magnetite & minor pyrite throughout zone.						
		205-209 - Highly fractured & silicified zone, with	· · · · · ·				}	
		silickenslides & chlorite on fractures. Silica occurs						<u> </u>
		as small seams and appears very chert-like (fine-						
		grained). Pyrite in minor content <1%.						<u> </u>
		228-230 - Chloritized fracture zone.				<u> </u>	<u> </u>	<u> </u>
		268.5' - 6" alteration zone, with large chlorite						ļ .
		clots,		1				
281-292	0	Dark grey/green highly altered & well fractured.						
ł		medium - coarse grained syenite. Alteration mainly						
		chlorite, however clay, K-feldspar & sericite present.						1
		Magnetite 7 pyrite (<1%) present						
		284-286 - Pink pegmatite dyke with clots of magnetite.						
292-345	1'	Gray/green, slightly foliated, coarse grained,						<u></u>
		variably altered (weak-moderate) syenite, character-						
		ized by abundant dyke-like intrusions, noted below.						
		Chlorite dominant along fractures with weak clay &	·					
		K-feldspar. Magnetite and minor pyrite in zone,						
		320' - 4" aplite dyke.		ļ				
		321' - 3" pegmatite dyke with magnetite clots.		<u> </u>			· ·	<u> </u>
		323' - 2" aplite dyke.			<u> </u>			<u> </u>
	· · · · · · · · · · · · · · · · · · ·	334' – 4" aplite dyke.						

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PROPERTY_	<u>.</u>	Allendale Lake HOLE No.	82-2		SHEET No	of4
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		
345-363	0	Conglomeration of several small aplitic like				
-		intrusions have cuased intense secondary albitization				
		flooding in rock. Zone & dykes appear to show				
		alignment @ 10 - 20° to core axis. Considerable		. <u>.</u>		
		number of magnetite clots in zone.				
	<u></u>					
633-397	0	Weakly - moderately altered, coarse grained syenite,				
		with chlorite on fractures & clay alteration of				
		feldspar. Some weak K-feldspar alteration. Magnetite				
		& minor pyrite throughout. Noticeable lack of				
		mafic minerals, giving rock a light colour.				
		381-383 - Pink aplite_dyke.	· · · ·			
397-418	<u>ل</u> را	Conglomeration of aplite-like intrusions caused				
		intense albitization flooding throughout rock.				
		Similar to section 345-363'. Magnetite & pyrite		1		
		throughout.				
418-450	1 '	Weakly - moderately altered coarse-grained				
	···· •	(porphyritic) svenite. Chlorite alteration dominant	· · · · ·			·····-
		on fractures, becoming quite intense towards end of				
		section. Magnetite & pyrite throughout zone, pyrite			1	
		commonly dominant with chlorite alteration.				
	•••	Rock moderately fractured, with trends dominant @		1	<u>                                      </u>	
		20 & 50° to core axis.	<u>_</u>			
450'		END OF HOLE				

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		PROPERTY	Allendale Lake		HOLI	∃ No4	82–3				
DIP AND AZIMU Footage Angl		Azimuth	Core Size <u>BQ</u> Angle of Hole Vertical Claim. <u>Fox 1</u> Section Bearing	To: % Ele La De	tal Depth Recovery v. Collar titude parture	+07 <b>'</b> 29., 5%	Sh Lo Da Da Co	Sheet No			
DEPTH	CORE		DESCRIPTION		SAMPLE No.	WIDTH of SAMPLE			}		
_4		Overburden (C	asing)								
4-75	1½'	Dark grey, bi (porphyritic) only weakly f throughout. 17.5' - 2" 55' - Pir Dark green, r	otite-rich, very coarse grained, relatively unaltered syenite. Rock Fractured, Magnetite disseminated Noticeable absence of pyrite. aplite dyke with bornite and malachin ok pegmatite dyke (4").					•			
		Fractures tro	end @ 20 <sup>°</sup> to core. Some minor pyrite	•						_	
79.5-170	0	Weakly alter syenite, alt @ 0 - 10 <sup>0</sup> to 122-123 - fi 135! - se 137-139 - Fi 1661 - se	ed, coarse-grained, biotite rich eration dominantly chlorite on fractu core axis. ne-grained phase of syenite. condary K-feldspar. ne-grained intrusive phase of syenite condary K-feldspar.	res							

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ROPERTY		Allendale Lake HOLE No	82-3		SHEET No	2	of	3
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
70-189	0	Light grey, bleached & weakly - moderately altered,					i	
		coarse-grained syenite, characterized by several			<u> </u>	· · · · · · ·		
		aplite & pegmatite dykes.						
		170-172 - Aplite dyke with magnetite clots, chalco-		r				
		pyrite & bornite.		· · · · ·			1	1
		175' - 2" pegmatite dyke.			<u> </u>		·	<u> </u>
		175:5' - 3" pegmatite dyke.		\ \ 				
89-279	0	Dark grey, relatively unaltered coarse-grained	· .				<u> </u>	-
	<u></u>	(porphyritic), biotite rich syenite. Coarse	ļ					
		phenocrysts of orthoclase up to 1.5 cm. Alteration				·····	· · · · ·	
		confined to smears of chlorite on occasional						
		fractures, trending @ 5° & 45° to core. Magnetite		· · ·				
		noted throughout.			· · · · · · · · · · · · · · · · · · ·			
	- <u>-</u> -	222 aplite dyke with magnetite, bornite &				<u> </u>		
		chalcocite.						
		231' - Two 1" pegmatite dykes,			_		_	
	_	270-279 - rock becoming slightly altered towards						
		end of section. K-feldspar & clay alteration of						<u> </u>
		orthoclase.						
								<u> </u>
279–293	0	Dark grey, fine-grained variation (phase) of syenite,						
		probably later dyke-like intrusion. Rock in general				<u> </u>	_	
_		quite massive and dense, with only minor alteration.						
		Mafic content (biotite) quite variable, occasionally						
		> 50% content. Magnetite disseminated throughout.						
			1					

# RERK-DAWSON & ASSUCIATES LID. - DIAMOND DRILL RECORD

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ROPERTY_	Y Allendale Lake HOLE No A82-3 SHEET No of		of	3				
DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
293-318	0	Coarse-grained, moderately altered, bleached, white/						
		grey (with pink tinge) syenite. Alteration includes						
		chlorite, most intense on fractures, clay and minor						
	· · · ·	K-feldspar. Magnetite and minor pyrite in zone.						1
	·	302.5 - 2" aplite dyke. Rock in general moderately					ł	
		fractured, trends dominant @ 20° & 50° to core axis.						
318-346	0	Fine-grained variety of syenite such as described						
		279-293. Appreciable content of pyrite $(\frac{1}{2} - 1\%)$ ,					 	
		in zones, with minor chalcopyrite.						
346-407	0	Moderately altered, slightly foliated, white/grey/						
		green, coarse-grained syenite. Alteration includes			1			
		chlorite (dominant on fractures), clay (causes						
		bleaching of orthoclase) and secondary K-feldspar.		1				
		Fracture trends @ 20°, 50° & 70° to core axis.						1
		Magnetite throughout rock.						
		376.5-381 - Fine-grained, dark green/grey, altered		l		[		
		either xenolith or later fine-grained intrusive.						1
		Pyrite throughout rock, with minor content of						
		chalcopyrite.						
407 I		END OF HOLE	<u> </u>					
	<u> </u>				-	 		
					·			
	\ 		<u> </u>	<u> </u>	<u> </u>			

<u>[</u> [		ERR-DAW	SON & ASSOCIATES LTD.	- DIAN	IOND DR		ORD	] Suite	1 219 \ Kam Phone	√ictoria St. iloops, B.C. ● 374-0544
		PROPERTY	Allendale Lake	•••••	HOL	E No	82-4	•••		
DIP ANI Footage	AZIMUTI Angle	H TEST forrected Azimuth	Core Size <u>BQ</u> Angle of Hole <u>Vertical</u> Claim <u>Fox 1</u> Section Bearing	To 	otal Depth Recovery ev. Collar titude eparture	312' <u>100%</u>	Sheet Loggo Date Date Core	No <u>1</u> ed by <u>J</u> Begun Finished Stored At .	of R. Kerr Site	.2
DEPTH	CORE LOST		DESCRIPTION		SAMPLE No.	WIDTH of SAMPLE			;	
0–2	ين. 	Overburden (	casing).		·					
2-137	0	Very coarse- massive, den phenocrysts Mafics all b rocks. Diss Very little 33' - <sup>1</sup> / <sub>2</sub> 61' - F grain size f 130-132 - F dyke intrusi	grained, porphyritic, totally un se, weakly fractured syenite. C of orthoclase up to 2 cm. diamet iotite in clots forming matrix o eminated magnetite throughout ro variation in rock, noted below. " pegmatite dyke @ 10° to core a racture zone possible dike with eldspar & biotite. ine - medium grained phase or se on.	altered, oarse er. f ck. xis. finer parate						
137–281	0	Basically si syenite as a rock in zone on fractures	milar coarse-grained, biotite-ri bove, however weak tinge of alte s moderately fractured, with alt . More abundant small dyke-like	ch ration, eration						
		intrusions i content. Al fractures, s	n section. Pyrite & magnetite i teration includes chlorite, domi light clay and secondary K-felds	n trace nant on par.						

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core axis.

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PROPERTY.		Allendale Lake HOLE No.	82-4	<u> </u>	SHEET No	2	of	
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
137-281	(cont)	176.5-178 - Pegmatite dyke-like intrusion, with						
		magnetite clots & pyrite.						
<u>.</u>		192-193 - Pegmatite dyke.						
		208-209 - Pegmatite dyke, with magnetite clots.						
		223-226 - Dominant fracture coated with chlorite at					ţ	
		$Q^{\circ}$ to core axis.						
_		Þ						,
281-285	0	Fine-medium grained, very mafic rich (mainly biotite)						
	<u> </u>	phase of syenite. Magnetite, pyrite & possibly						<u> </u>
		chalcopyrite throughout. This may be separate dyke.						<u> </u>
		Weak chlorite alteration throughout more dominant on						
		fractures.				-		
		Small pegmatite dyke at contact @ 285'.						
285-312	0	Very coarse grained, porphyritic, massive, dense,						
<u></u>		biotite-rich syenite as from 2-137'. Rock is totally				i		
		unaltered, very weakly fractured and contains no						
		dykes or other irregularities.						
· · · <b>-</b>	-			- <u></u>				
312'		END OF HOLE.					<u> </u>	
	ļ							
								1

	1	(ERR—DAWSON & ASSOCIATES LTD DIA	MOND DR	ILL REC	ORD	Suite 1 -	– 219 Victoria St. Kamloops, B.C. Phone 374-0544		
		PROPERTYAllendale_Lake	HOL	E No	32–5				
Footage	D AZIMUT Angle	H TEST     Core Size     BQ       Azimuth     Angle of Hole     Vertical       Claim	Total Depth % Recovery Elev. Collar Latitude Departure	407 <sup>1</sup> 99., 5%	Sheet Logged Date E Date F Core S	Sheet No			
DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		,			
0-10'		Overburden (casing).							
10-82	0	Grey to dark grey, coarse-grained (somewhat							
<u>.</u>		porphyritic), weakly altered symplet (appears very							
	dior	dioritic). Most feldspars appear orthoclase,							
		Noticeably lacking dyke intrusions. Weak chlorite							
		alteration on fractures. Occasional clots of			_				
		biotite (believed primary). Rock weak - moderate							
<u> </u>		fractures, trends @ 15° & 50° to core axis.							
82-113	0	White to light grey, medium grained syenite,							
		noticeably variable in mafic (biotite) content.		· <u>·</u> ·					
		84-89 - Very low biotite, white, with noted							
		content pyrite & chalcopyrite. Some weak sericite					_		
		& K-feldspar alteration.							
		108-111 - Highly fractured @ 0 - 20 <sup>0</sup> to core,							
		with minor rusting.							
						•			
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ROPERTY_		Allendale Lake HOLE No.	<u> 82–5</u>		SHEET No. 2	of	3
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			1
13-199	2'	Light grey/white/buffy, fine-medium grained				-	
		aphanitic syenite, noticeably lacking biotite.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			1
		Secondary alteration & rusting on fractures @ 0 - $10^{\circ}$					1
		& 50 <sup>°</sup> to core axis.					1
		Clots of magnetite and pyrite throughout section in				-	1
		low content, also as disseminations.					-
		147-152 - Dark grey/black, highly concentrated zone	<u></u>				
		of magnetite, hornblende, biotite, pyrite & chalco-					
		pyrite.				1	
		199' - Contact very gradational from 190 - 205'.					
99-218	0	Medium grained, weakly altered, variable content of		<u></u>	·		
	••••	mafics. Some rusting & altered along fractures.	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		-
10.00(							
10-290		weakly altered, coarse grained (porphyritic), massive,		<u> </u>			
		dense syenite, very dioritic in appearance. Minor		<u> </u>			
		chiorite alteration along fractures @ 0 - 10° to	···.		······		
		core axis. Section noticeably lacking dikes &					
		sulphides, however some magnetite disseminations.					
		251' - Highly fractured with some shearing.	··		l		
	<u></u>	Contact @ 296' very gradational.					
96-354	0	Variably altered, coarse-grained, syenite alteration	_ <b></b>	··			
		includes chlorite, K-feldspar and minor sericite.					1
		Noticeable increase in fracture density and pyrite		<u>-</u>	<u> </u>		+
		content. Magnetite, as above, present as clots and		· · · · ·	· ·	···   ····	1
		disseminations throughout.			<b> </b>		

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PROPERTY		Allendale Lake HOLE No.	A82-5		SHEET	No3	of	3
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
296-354	(cont)	Heavy chlorite alteration along fractures @ $0 - 5^{\circ}$						
		to core axis. Slickenslides on fracture faces.					1	· · · -
		352-354 - Dark green, highly chloritized and fractured	<b>-</b> -					
		zone, trends @ 20 <sup>0</sup> to core axis.						
							1	
354-407	0	Moderately altered, medium - coarse grained syenite,					<i>-</i>	
		noticeably lacking mafic minerals. Alteration			1		1	
· · · ·		includes chlorite, K-feldspar, sericite. Some pyrite					1	
	 	and magnetite as clots & disseminations throughout.						
	ļ	······································						
407'	<u>-</u>	END OF HOLE.						
							1	
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APPENDIX C

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ASSAY RESULTS

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Momber Canadian Testing Association		912 - 1 LAVA PHONE: (6 CERT	L CRESCENT — KAI V2C 5P5 504) 372-2784 — TELE FIFICATE OF A	MLOOPS, B.C. 5X: 048-8320 SSAY			META	LLURGIST	rs rs
<i>ΤΟ</i> <u>κε</u>	vite 206 Nicole Place	310 Nicola Avon				Cert	ificate No	K-5202	
						Date	Nover	ber 1, 1	1982
<u> </u>	amloops, B.C. V2C	2P5						;	
ارا لا	ereby certify that the	following are the result	s of assays made	by us upon the	e herein descr	ibed	Si	amples	
Kral No	Marked	Ag	Cu						
		ounces/ton	percent						
1 2	A-08 A-09	1.72 3.12	2.80 5.3						

Rejects retained three weeks, Pulps retained three months unless otherwise arranged.

Registered Assayer, Province of British Columbia

## Kamloops *Research & Assay* Laboratory Ltd.

**B.C. CERTIFIED ASSAYERS** 

912 LAVAL CRESCENT — KAMLOOPS, B.C. V2C 5P5 PHONE: (604) 372-2784 — TELEX: 048-8320

## GEOCHEMICAL LAB REPORT

Kerr-Dawson & Ass	sociates	Ltd.
206 Nicola Place		
310 Nicola Street	E	
Kamloops, B.C.		
V2C 2P5	ATTENTIC	1AL -

DATE \_\_\_\_ October 25, 1982

V2C 2P5

ATTENTION: MR. JOHN KERR

--

ANALYST\_

					 			_			
RAL NO.	IDENTIFICATION	ppb Au	ppm Ag	ppm Cu						7.64	ozh A
1	A – 01	10	.5	9							
<b>J</b> <sub>2</sub>	02	10	.5	12					1		
3	03	15	.5	62		<b></b>					
4	04	L5	.6	106							
5	05	5	.6	198							
6	06	5	.5	23	<u></u>						
· ] 7	07	45	.5	29					~	2.8	1.72
8	08	120	G20	G4000				~	>	5.3	3.1Z
9	A - 09	140	G20	G4000				~			
									1		
	L means "Less	than"							1		
	G means "Great	er than'							5		··· ·
<u> </u>	Au Method: -8	0 Mesh									
	Fire Assay Atomic Abs	 erption								· · · · · · · · ·	
	Ag, Cu Method:	-80 Me	sh								
1	Hot Acid E Atomic Abso	tractic prption	n								
				<u> </u>	- <u></u>	<u> </u>					
					<u>~</u>			· -		-	<u> '</u>
							<u>.</u>				

Momber Canadian Testi Association	ng	912 - 1 LAV PHONE: CER	/AL CRESCENT — K V2C 5P5 (604) 372-2784 — TE TIFICATE OF	AMLOOPS, B.( LEX: 048-8320 ASSAY	С.			META	LLURGIS	TS
то	Mr. Morris Menzies. B <del>ox 130,-</del> 4311 b-	Julqueam	· Lances		H. 1-	Hole # 788	/ Certifi Date	cate No.	<u>K 4936</u> July 7	, 1982.
I	Okanagan Falls, B.G. Inereby certify that the fe		. <u></u> k ilts of assays mad	VGN e by us upon	4B / the herein	described		5	} samples	
Kral No	• Marked	Ag	Cu							
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	45301 45302 45303 45304 45305 45306 45307 45308 45309 45310 45311 45312 45313 45314 45315 45316 45316 45317 45318 45319 45320	.06 .06 .03 .03 .03 .03 .03 .03 .03 .03 .03 .03	.04 .01 .01 .03 .02 .02 .02 .02 .02 .02 .02 .02 .02 .02	6 -10 10-20 20-30 30-30 50-50 50-70 70-80 80-90 10-100 120-100 120-100 120-100 150-160 150-180 150-180 150-180 150-180	Must	have Go	ld. Jey	, un po	taur.	

Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

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۲ 1 5 Registered Assayer, Province of Brilish Columbia

KR&RL Ru H C.	Line form	OPS RESEA 912-1 LAN PHONE: CER	ARCH & A /AL CRESCENT	SSAY LABORA KAMLOOPS, B.C. ELEX: 048-8320 ASSAY	TORY LT	<b>D</b> .	B.C. LICEI GEOCHEN METALLU	NSED ASSAYERS AICAL ANALYSTS RGISTS
	-Box 130, 4311 // Okanagan-Falls, B.C. Jereby certify that the follo	Voncan Voncan wing are the result	Land B. C.	$KRHL$ $G_{IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	r Renu	Certifica Date	2 <u>K</u> te No. <u>K</u> Ji sampl	27 'Chemie 4936 uly 7, 1982. }
Kral No	- Marked	Ag	Cu					
Hot 21 22 23 24 25 26 27 28 29 30 30 31 32 33 34 35 36 37 38 39 40 41 41	$\begin{array}{r} 45321\\ 45322\\ 45323\\ 45324\\ 45325\\ 45326\\ 45327\\ 45328\\ 45329\\ -45330\\ \hline \\ 45331\\ 45332\\ 45333\\ 45334\\ \hline \\ 0081F \ \#1\\ 0081F \ \#2\\ 0084\\ 0085\\ 0086\\ 0087\\ \hline \end{array}$	ozs/ton .03 .03 .03 L.01 L.01 .06 .06 .06 .06 .06 .06 .06 .06	per cent .01 .02 .02 L.01 L.01 L.01 L.01 L.01 .01 .01 .01 .01 .01 .02 .47 1.40 .03 .01 .01 .02 .35	200-210' 210-220' 230-230' 230-240 240-250 250-200 260-270 230-300 (Inla 7. Sun face First num and them	Hofe # Hofe # bohoula ban plus by Cher v. num	e #1 The run here by Kro	w. = ~	

Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

Redistered Assayer, Province of British Columbia

Member Canadian Testing Association		2095 WEST TR/ PHONE: CER	ANS CANADA HIGH V1S 1A7 (604) 372-2784 — TE TIFICATE OF	IWAY — KAM ELEX: 048-8320 ASSAY	11.00PS B.C.			GEOC META	CHEMICAL ALLURGIS	. ANALYS' TS
/U!	Mr. Morris Menzies						Certif	icate No.	K 4933	5
	Karraoan Falle B C	1	Litery,				Date		July 8	, 1982.
	prolin contifu	Vancaure	elb.C.	V6N 4	BI					
را ل <i>ه</i>	that the	following are the resu	lts of assays mad	e by us upo	n the herein	described	·	S	amnles	
arai No.	Marked	GOLD	SILVER	Cu		Ţ	T	()		<u> </u>
		Ounces Per Ton	Ounces Per Ton	Percent	Parcent	Percent	Percent	Percent	Percent	Percent
1	46151	.002	.29	.01	1000	200	2-0-3/0		HE I	
2 3	46152	•002	.09	.02	700	- 70	P. 0	HOG	F/	ſ
4	46153	L.001	.09	.02	320-	550	1			
5	40124	.001	.06	.02	330-3	<b>34</b> 0	1			
6	46155	.002	.06	.02	340-3	50				
7	46157	.002	•06	.01	350-3	'o'				
8	46159	.001	.06	.01	360-3	30				
9	46160	•001	.06	.01	380-3	80				
10	46162	.001	.06	.01	380-3	79 C				
		•001	•06	.01	390-4	00				
11	46163	.001	.06	01		110				
12	46164	.001	.06	.01	010-4	20				
1/	46165	L.001	.06	.01	420-	\$30			' j	
15	46166	.001	06	01	430	448		4	in w	/
16	4010/ ~ /16160	.001	.06	.02	11	11.1		<u> </u>		· /
17	16120	.001	•06	.02_		10		ftoc	eNo. 4	-
18	46170	.001	•06	.02				-	'	
19	46171	.001	.06	.02						
20	46172	1 004	4U.	•02			i i			

Pulps retained three months unless otherwise arranged.

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 $\propto$ Registered Assayer, Province of British Columbia

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Menti Canadian Associa	ber Testing Lilon	2095 WEST TRA PHONE: CER	ANS CANADA HIGH V1S 1A7 (604) 372-2784 — TE TIFICATE OF	SAY L IWAY — KAM ELEX: 048-8320 ASSAY	ABORA	TORY	LTD.	B.C. L GEOC META	LICENSED CHEMICAL ALLURGIS	ASSAYERS . ANALYSTS TS
TO _	Mr. Morris Menzies									
	Box 130, 4311 /	Jusquean	Daria				Certit	icate No.	K 4933	
_	<u> </u>	- Nanca	Bl	P 11. A	1 11 2 3		Date		July 8,	1982.
	I hereby certify that the	following are the room	to of account	ven	7-121				,	
Kral No	Marked	enorming are the resul	is of assays mad	e by us upor	n the herein	described		S	amples	
		Ounces	Ounces	Cu	<u> </u>					1
		Per Ton	Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	46173 46174 46175 46176 46177 46178 46180 46182 46183 46184 46185 46184 46185 46186 46187 46186 46187 46188 10451 10452 10453 10454 10455 10456	.002 L.001 .001 .001 .001 .001 .001 .001 .00	.06 .06 .06 .06 .06 .06 .06 .06 .06 .06	.02 .03 .02 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	Gelé Stat	76'	to 22	H-50	e No.	2
NOTE: Rejects retained three Pulps retained three unless otherwise arre	e weeks. months anged.			Renie		2.76	286	Hole	16.2	

egistered Assayer, Province of British Columbia

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Member Canadian Tes Association	sting n	2095 WEST TRAN PHONE: (6 CERT	IS CANADA HIGHI V1S 1A7 04) 372-2784 — TEI IFICATE OF	WAY — KAMLO LEX: 048-8320 ASSAY	OOPS B.C.			META	LLURGIST	S
TO	Mr. Morris Menzies.						Cortifi	cato No	K 4933	
·	Box 130; 4.3/1 /274	equeand.	Drine,				Date		Julv 8.	1982.
	-Okanagan Falls, B.C.	Vancaux	<u>и, ВС</u> .	YGN	4B I		Dale	<u> </u>	;	
J	hereby certify that the foll	owing are the result	s of assays mad	e by us upon	the herein	described	<u> </u>	Sä	amples	
Kral No.	Marked	GOLD	SILVER	Cu					· · · · · ·	
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
41	10457	L 001	03		2.86	-296	let			Herle
42	10458	L.001	.03	.02	296	-3d	Leit-			Hele
( PI										11002
43 M	К 4835	L.001	.70	.02	Re ,	case d	foute	op el	the get	eliff
My H-				_				(ab	pu ke	- tim
44	K 4838-1		1.05	.03	L.P	hun	A Sel	20		
γr) 45 γr) 46	K 4838-2 K 4838-3		• 2 <i>3 ,</i> • 28	L.01	( ne					
					$\mathcal{P}$					

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Registered Assayer, Province of British Columbia

Momber Canadian Testing Association		2095 WEST TRAI PHONE: (6 CER	NS CANADA HIGH V1S 1A7 104) 372-2784 — TE <b>CIFICATE, OF</b>	WAY — KAML LEX: 048-8320 ASSAY	OOPS B.C.			META	LLURGIST	ANALYS 'S
TO	Bechtel Explorations L	td.						مر	tole	110.2
1	Box 130						Certif	icate No	<u>K-4941</u>	
		<u> </u>					Date	July	14. 1982	
(	<u>Okanagan Falls, B.C.</u>		•				Date		3	
Ih	ereby certify that the fi	ollowing are the result	s of assave mad	a hy un unor	the horain	desethed				
Kral No.	Marked	GOLD				Tescribea	·	Sä	amples	i
		Ounces	SILVER		ļ		<u> </u>			
		Per Ton	Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	10459	002	07						<u>├`</u>	
2	10460	.002	•05 03		306	-316	Hole	No Z		
3	10461	.002	.0J 06						i i	
4	10462	.008	-03		1					
5	10463	.002	.03							
6	10464	.002	.03	.01		J				
7	10465	.003	.03	01						
8	10466	.002	.03	.01						
9	10467	.001	.06	.01						
10	10468	.002	.06	.01	1					
11	10469	001	07							
12	10470		دU.	L.01						1
13	10470	•UUZ	• U2	L.U1						
14	10472	+UUZ	•U3	L.01			111	10 -		
15	10473	<u>.002</u>		• 01	-436	-450	Hole	100.6		
16	10474		+UJ 45		-5-15	Ut.	- Hol	No 3	Hole	103
17	10475	002	• 12 04	•26 -	-75-21	SAF.	Hat	No 3	·	
	10476	.003	•04 .D6		•					
18			100	I III I		r 1				
18 19	10477	.002	<u>.</u> ЛА	0.0						

Rejects retained three weeks. Pulps retained three months unless otherwise arranged. Ali-

Registered Assayer, Province of British Columbia

Momber Canadian Testiny Association	2	2095 WEST TRA PHONE: CER	ANS CANADA HIGI V1S 1A7 (604) 372-2784 — TI TIFICATE OF	HWAY — KAM ELEX: 048-8320 <b>* ASSAY</b>	ILOOPS B.C			GEO( META	CHEMICAI	L ANALY
70 <u> </u>	echtel Explorations Lt	.d							Hole	#3
						-	Certi	ficate No.	K-494	1
··	1						Date	July	141983	
. II	ereby certify that the	ollowing are the resul	ts of assays mad	lo by up up -						<u> </u>
Kral No.	Marked	GOLD	SILVER		n the hereil	n described		sa	amples	<del></del>
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	
21 22 23 24 25 26 27 28 29 30	10479 10480 10481 10482 10483 10484 10485 10485 10486 10487	.001 .001 .002 .002 .002 .002 .002 .002	.06 .09 .06 .06 .09 .09 .09 .06 .06 .06 .06	.03 .03 .01 L.01 .01 L.01 .02 .07 .03 .05	454.	75			I GICEM	
31 32 33 34 35 36 37	10489 10490 10491 10492 10493 10493 10495	.001 .002 .002 .002 .001 .001 .002	.15 .06 .03 .03 .06 .09	.22 .03 .02 .02 .03 .15	215	175		2' 13 con	TE Min	_ H0
38 39 40	10495 10496 10497 10498	.002 .002 .002 .002 .001	.03 .06 .03	.02 .04 .03				<u> </u>		YCL_MC

unless otherwise arranged.

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negistered Assayer, Province of British Columbia

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Member Canadian Tesbng		2095 WEST TRAI	VS CANADA HIGH V1S 1A7 504) 372-2784 — TE	WAY - KAML	.00PS B.C.			METAI	LURGIST	S
Association		CERT	TIFICATE OF	ASSAY			-	Hole	#3	
1086	chtel Explorations Ltd.	<u> </u>					Certifi	cate No	K-4941	3
·		·					Date	July 1	4, 1982	
•	!								ļ	<u></u> ;;;
JI	pereby certify that the follo	wing are the result	s of assays máo	le by us upoi	n the herein	described	<u> </u>	St	amples	
(ral No	Marked	GOLD	SILVER	Cu						
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
41	10499	.006	.03	.01	265	275	#3		<u> </u>	
42	10500	.002	.06	.03	~~~	~ / *			<u> </u>	
45	10501	.002	.06	.01	285	295				
44	0084	.002	.03	.01	2010	-1	old Co	e.		Ì
45	0085	.003	.03	.01	5 Sele	· · · · · · · · · · · · · · · · · · ·	old Co	<u>u</u>		
	means "Less than"									
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NOTE: Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

Member Canadian Testing Association		2095 WEST TRAN PHONE: (6	IS CANADA HIGH V1S 1A7 04) 372-2784 TEI	NAY — KAML EX: 048-8320	.00PS B.C.		<u></u>	GEOC META	HEMICAL	ANALYSTS S
		CERI	IFICATE OF	ASSAY			/	Hole	#3	
70 <u>Bec</u>	htel Explorations Ltd.	<u> </u>					Certif	icate No	K-4946	
<u>Box</u>	: 130						Data	ב המודי המושיים. 1/1 ערות,	1982	
<u>_0ka</u>	nagan Falls, B.C.						Dale	<u></u>	<u>، ۲۶۵۲</u>	<u></u>
JI I	Prelip certify that the to	lowing oro the result		,					\$	
			s of assays mad	e by us upor	n the herein	described		Sá	amples	
Kral No.	Marked	GOLD	SILVER	Cu						
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	10502	.002	•06	.02	205	-301		4.2	<u> </u>	
2	10503	.003	.06	.02	- <u></u>			12-		
3	10504	.002	.06	.02						
4	10505	.002	.06	.01						
5	10506	.001	.06	.02	1					u da se
6	10507	.001	.06	.01						
7	10508	.001	.06	.02					-	
8	10509	.001	.06	,02	•					
9	1 <u>0510</u>	.001	.06	.02	Bl	ak D	L.			
10	10511	.002	.06	.03		1				-: 11,
11	· 10512	.001	.06	.03	345	405		#s	p.1	VISIE
12	10513	.001	.03	1,01	1.75	151			Cha 2 - 11	· jos io p
14	10514	.002	.06		- ~-	<u>/_'</u>	<u> </u>	140	CET.	<del>_{</del>
13		000	.03 '	1.01						
13	10515	F ∎UUZ I	• • • •							
13 14 15	10515 10516	.002	.03	1 1.01						
13 14 15 16	10515 10516 10517	.002	.03 .03	L.01						
13 14 15 16 17	10515 10516 10517 10518	.002 .002 .002 .002	.03 .03 .06	L.01 L.01						
13 14 15 16 17 18	10515 10516 10517 10518 10519	.002 .002 .002 .002 .002	.03 .03 .06 .06	L.01 L.01 .01 L.01						
13 14 15 16 17 18 19	10515 10516 10517 10518 10519 10520	.002 .002 .002 .002 .002 .002 .003	.03 .03 .06 .06 .06	L.01 L.01 .01 L.01 L.01						
13 14 15 16 17 18 19 20	10515 10516 10517 10518 10519 10520 10521	.002 .002 .002 .002 .002 .003 .003	.03 .03 .06 .06 .06	L.01 L.01 L.01 L.01 L.01						
13 14 15 16 17 18 19 20 21	10515 10516 10517 10518 10519 10520 10521 <u>10522</u>	.002 .002 .002 .002 .002 .003 .001 .005	.03 .03 .06 .06 .06 .06 .06	L.01 L.01 L.01 L.01 L.01 L.01 L.01	95'	105				

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Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

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Registered Assayer, Province of British Columbia

Memb Canadian 1 Associa	KAMLOO Tesbng tion	2095 WEST TRAN 2095 WEST TRAN PHONE: (60 CERT	<b>CH &amp; AS</b> S CANADA HIGH V1S 1A7 O4) 372-2784 — TEL <b>IFICATE OF</b>	SAY LA VAY — KAML .EX: 048-8320 ASSAY	BORAT	ORY L	.TD.	B.C. LI GEOC METAI	ICENSED A HEMICAL LLURGIST	ASSAYERS ANALYSTS 'S
TO	Mr. M. Menzies 4311 Musqueam Drive Vancouver, B.C. V6N 4B J hereby certify that the folio	1 wing are the results	of assays made	e by us upor	n the herein	described	Certif	icate No July	K-4952 23, 1982 }	
Kral No.	Marked	GOLD	SILVER	Cu				00		· · · · · · · · · · · · · · · · · · ·
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1 2 3 4 5 6 7 8 9 10 11	10523 10524 10525 10526 10527 10528 10529 10530 10531 10532 10532	.006   .003 .006   .004 ; .005 .003 .003 .003 .003 .004 ; .003	.03 .06 .06 .06 .06 .06 .03 .06 .06 .06	.01 .06 .05 .03 .03 .06 .03 .05 .01 .03	105	- 205-	#4 #4 #4			
12 13 14 15 16 17 18 19 20	10535 10534 10535 10536 10537 10538 10539 10540 10541 10542	.003 .003 .003 .003 .003 .002 .002 .001 .003 .003	.03 .06 .03 .06 .06 .06 .06 .06 .03 .03	.02 .03 .02 .06 .04 .04 .04 .03 .02 .02	205 <sup>-</sup> 3 00	- 2/5 - 312	- 4 # 4	Beste	m S	Hisle #2

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NOTE: Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

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Registered Assayer, Province of British Columbia

Member Canadian Testing Association	M. Menzies	2095 WEST TRAN PHONE: (6 CERT	IS CANADA HIGH V1S 1A7 04) 372-2784 — TEI <b>IFICATE OF</b>	WAY — KAML LEX: 048-8320 <b>ASSAY</b>	00PS B.C.	ole 2	£5 0	META	llurgist	r r
431	1 Musqueam Drive	<u> </u>					Certif	cate No	<u>K-4961</u>	<u> </u>
Van	COUVER, B.C. VAN 481						Date	July	22, 198	2
<u> </u>	EERIN CPTTIFN that the follow	owing are the requite		<b>.</b>					\$	
	Marked		s or assays mad	e by us upor	the herein	described	<u> </u>	Sa	amples	<del>.</del>
	Markeo	Ounces	SILVER	<u>Cu</u>			ļ	·	 	<b> </b>
		Pe( Ton	Per Ton	Percent	Percent '	Percent	Percent	Percent	Percent	Perceri
1 2 3 4 5 6 7 8 9 10 11 12 L	10543 10544 10545 10546 10547 10548 10549 10550 10551 10552 10553 10554 means "Less than"	.009 .005 .006 .005 .005 .005 .006 .006 .006	.01 L.01 L.01 .01 .01 .01 L.01 L.01 L.01	.04 .05 .04 .05 .07 .07 .07 .06 .04 .04 .04 .02 .11	10-7 25-40 80-90 110-12 140-	5# Chale 0 #5 150	5 + Bom # 5 W	ito.	Jyhe.	

Registered Assayer, Province of British Columbia

Member Canadian Tosi Association	Mr. M. Menzies	2095 WEST TRAN PHONE: (60 CERT	<b>CH &amp; AS</b> S CANADA HIGH V1S 1A7 04) 372-2784 — TEI IFICATE OF	<b>SAY LA</b> WAY — KAML LEX: 048-8320 ASSAY	BORA	FORY L		B.C. LI GEOC METAI	ICENSED HEMICAL LLURGIST	ASSAYERS ANALYSTS S
, o <u> </u>	4311 Musqueam Drive						Certifi	icate No	K-4968	
	Vancouver, B.C. V6N 4E		·				Date	July	<u>23, 1982</u>	
J	hereby certify that the follow	ing are the results	of assaus mad		a tha havai-	de e e elle e el			}	
Kral No.	Marked	GOLD	SILVER		i ine nerein	described	/ <u></u>	Sá	amples	<u> </u>
		Ounces Per Ton	Ounces	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1 2 3 4 5 6 7 8 9	10555 10556 10557 10558 10559 10560 10561 10562 10563	.003 .003 .003 .004 .004 .004 .004 .003 .003	.03 .01 .01 .01 .01 .03 .03 .03	.04 .02 .01 .02 .01 .01 .01 .02 .02	150 2 <b>30</b>	-160	#5- #5	-	Percent	Percent

NOTE; Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

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Registered Assayer, Province of British Columbia

Member Canadian Testa Association	ng	2095 WEST TRAN PHONE: (6 CER1	IS CANADA HIGHW V1S 1A7 04) 372-2784 — TELI IFICATE OF A	AY — KAML EX: 048-8320 <b>\SSAY</b>	OOPS B.C.			META	LLURGIST	ANALYS S
то	Mr. M. Menzies						Certifi	icate No	K-4970	
	4311 Musqueam Drive						Date	July	22, 198	2
	Vancouver, B.C. V6N 4	<u>B1 `</u>							}	
I	hereby certify that the fol	lowing are the result	s of assays made	by us upor	n the herein	described		e:	amoles	
Kral No	Marked	GOLD	SILVER			1	······	30		
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
		<b></b>			······				· · · · · · · · · · · · · · · · · · ·	
2	10564 10565	.005	.01	.02	17F	1.75			240-	250
3	10566		•U1 01	•UZ	hill-	2.10				
4	10567	.005	.01	.01		1.75				
5	10568	.005	.01	.02	5/11 7	1.75		1		
6	10569	.005	.01	.01		1.75				
7	10570	.006	<b>.</b> 01	.02	2.10	2.10				
8	10571	.006	.01	.01	2.10	2.10				
10	10572	.0067	.01	L.01	2.10	2.10		112.00		
	10275	• 000+1	•U1	• 04 🛩	2.10	7.013	• [2	# X 13		
11	10574	.005	. 01	L.01	:	210				
12	10575	.006	.01	.01						
13	10576	.005	.01	L.01						
14	10577	.0054	.01	L.01			d a			
15	10578	.005	.13	L.01	1.75	0.97	\$2.72			
16	10579	•005	.10	L.01 .	1.75	10.75	NOSI		]	380-
	means " ess than"	¥					# 2130			mil
										390-2

Rejects retained three weeks. Pulps retained three months unless otherwise arranged.

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Registered Assayer, Province of British Columbia

Π	KAMLOOPS RESEARCH & ASSAV					B.C. (	CERTIFIED	ASSAYERS				
	LABORATORY LTD.					912 LAVAL C PHONE: (604,	RESCENT	- KAMLOOP 5 - TELEX: 04	S, B.C. 8-8320			
	Kerr- Dawson & As	sociates	Ltd.	GEO	CHEMIC	CAL LAB	REP	ORT				
	206 Nicola Place 310 Nicola Street Kamloops, B.C. V2C 2P5 ATTENTION: MR FILE NO.			HN KERR		DATE ANAL FILE N	October 25, 1982 st oG-754					
KRAL NO.	IDENTIFICATION	ppb		/ <u> </u>		<u></u>		<u>~_</u>		<u></u>		
	10564	<u>42</u>	<u> </u>				<u> </u>	<u> </u>				
2	10565	48										
3	10566	48					·			<u> </u>		
_ <u></u> 4	. 10567	-48	<u></u>	<u> </u>			<b>_</b>			<u> </u>		
5	10568	48		<u>+</u>		<u> </u>						
<u> </u>	10569	54		<u> </u>								
- 7	10570	54		ł		<u></u>		·	<u> </u>	<u> </u>		
8	10571	66					·					
 9	10572	54	~			·			<u> </u>			
10	10573.	66	<u> </u>				<u>-</u>			<u> </u>		
n <sup>11</sup>	10574	60										
12	10575	60					<u> </u>	· · · · · · ·	<u>}</u>			
13	10576	60						- /		·		
14	10577	60							·			
15	10578	60		<u>+</u>			·					
<mark>ا 16 ا</mark>	10579	60				<u> </u>	<u>.</u>					
<u>j</u> ]	Au Method: -80	Mesh	-					1		<u>.</u> .		
د_ا 	Atomic Abso	rption					<del></del> .					
										<u> </u>		
<u></u>												
<u> </u>												

Member Canadian Testing Association		NS CANADA HIGH V1S 1A7 504) 372-2784 — TE FIFICATE OF	WAY — KAML LEX: 048-8320 <b>ASSAY</b>	OOPS B.C.	METALLURGISTS							
то	Mr. M. Menzies		· · · · · ·	Revun	n fro.	m to	Em C	hem e	× 4054			
4311 Musqueam Drive				Certificate No. $-\frac{K-4926}{1982}$								
	Vancouver, B.C. V6N 4	<u>B1</u>					Dale.		}			
± h	eteby certify that the follow	ving are the result	s of assays mad	e by us upor	the herein	described		Sá	amples			
Kral No.	Marked	GOLD	SILVER	Сц						<u> </u>		
	•	Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
1 2 3 4 5 6	1 (358–368) 1 (388–398) 2 (126–136) 2 (146–156) 46158B 46161B	.002 .002 .002 .002 .003 .003	.03 L.01 L.01 L.01 .03	.01 .01 .01 .01 .01	Suleo	holes Re-h	# 1# 1 = 7 CLMO	27				
7 8	46179B 46181B	.003	.03 .03	.01								

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## WRITER'S CERTIFICATE

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APPENDIX D

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## JOHN R. KERR, P. ENG.

**Geological Engineer** 

#1-219 VICTORIA STREET • KAMLOOPS, B.C. V2C 2A1 • TELEPHONE (604) 374-0544

#### CERTIFICATE

I, JOHN R. KERR, OF THE CITY OF KAMLOOPS, BRITISH COLUMBIA DO HEREBY CERTIFY THAT:

- I am a member of the Association of Professional Engineers of British Columbia and a fellow of the Geological Association of Canada.
- (2). I am employed by Kerr, Dawson and Associates Ltd., with my office at #206 310 Nicola Street, Kamloops, B.C.
- (3). I have practised continuously as a geologist since graduation from the University of British Columbia in 1964 with a B.A. Sc. in Geological Engineering.
- (4). I do not hold any interest directly or indirectly to title of the Cam, Fox or Lynx claims (as referred to in this report), or in the securities of Allendale Resources Ltd.
- (5). This report is based on an exhaustive study of all available data, published and unpublished reports and my examination of the claims and core logging during the period October 6 - 8, 1982.
- (6). Permission is hereby granted to Allendale Resources Ltd. to use this report for financing purposes, and to satisfy the requirements of the Securities Commission, the Stock Exchange, and the B.C. Ministry of Mines.

John R. Kerr, P. Eng. GEOLOGIST

November 5, 1982

Kamloops, B.C.

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APPENDIX E

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COST STATEMENT

I.

#### COST STATEMENT

 $\left[ \right]$ 

Diamond Drilling (NQ) Rosaire Beaupre, Prince 2002 ft.	eton,	В.(	 2.	•	•	•	•	•	•	•	\$41,577.46
Assays & Analytical Work.	•••	•	• •	•	•	•	•	•	•	•	3,950.00
Supervision - R. Bechtel 12 days @ \$150.00/day .	••		• •	•	•	-	•	•	•	•	1,800.00
Truck Rental 12 days @ \$40.00/day			•••	•	•	•	•	•	•	•	480.00
Core Logging & Report Pre J.R. Kerr, P. Eng. Related Expenses	\$2,	tior 625. 901.	1 .00 .75								3,526,75
											<u>5,320.75</u>
											477,J24.2T

These costs are based on invoices, reviewed by myself as submitted to me by the directors of Allendale Resources Ltd.

John R. Kerr John P. Kerr, P. Eng.

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