	DEC 1 5 1997 Gold Commissioner's Office VANCOUVER, B.C.
	SEOPHYSICAL REPORT ON HIKA PROPERTY
<u>H - C</u>	LAIM BLOCK
H91	to H94 Claims
	er Area, British Columbia d Mining Division
	TS 94M/4E,5E ude, 127°32' W longitude
	for
	i Explorations Inc. wner & operator)
No	vember 21, 1997
E. Livgard Livgard Consultants	R. Chow Donegal Developments Ltd. GEULUGICAL SURVEY BR ASSESSMENT REPOR
	25,28

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SUMMARY

In 1996 an aerial magnetic survey over the northern Kechika Trough was carried out on behalf of Tizard Explorations Inc. Encouraged by the results of the survey, the company staked 1,837 claim units in eight blocks. Block H contains 4 claims with 70 claim units and is located about 70 km southeast of Watson Lake. Access is via helicopter from Watson Lake. The claims lie within the Liard Plains, where outcrop is scarce. Due to the difficult access and extensive overburden, very little exploration has been carried out in this area in the past.

The Kechika Trough is the southern extension of the Selwyn Basin and as such, is highly prospective for lead-zinc-silver sedex deposits. Numerous sedex deposits have been located in the Selwyn Basin in the Yukon and several deposits are known in the Trough. These deposits are generally found in Upper Devonian to Mississippian Earn Group carbonaceous argillites, cherty argillite and slate, and in Upper Ordovician to Middle Devonian Road River Group black shales, limestone and chert.

Other types of mineralization have also been located in the area, ex. lead, zinc, copper in quartz veins (Kitza Showing) and tungsten-copper skarns (Boya Showing). The interpretation of the 1996 aerial magnetic survey also suggests that volcanic associated mineralization may be present.

Tizard Exploration's work on the H-Block consisted of 6.0 km of grid establishment, 6.0 km of soil sampling with 122 samples, and 6.0 km of magnetometer/VLF-EM surveying.

Soil samples show a few scattered anomalies in elements including Mo, Cu, Zn, Pb, Ag, As, Sb, Hg. The geophysical survey outlined an anomalous low superimposed by small highs on the west side of the grid and a small high on line 3N,1550E. Several VLF-EM anomalies are also indicated.

DISCUSSION / CONCLUSIONS

The soil survey returned a few scattered anomalous samples with values in molybdenum, copper, zinc, lead, silver, arsenic, antimony, mercury in cadmium. The east half of the grid contains a larger number of the anomalous samples and with a greater degree of correlation among elements. The ground magnetic survey outlined a low superimposed by some small highs on the west and a small high on the east. Numerous conductors are indicated from the VLF-EM data, including two anomalies on either edge of the western magnetic high. There does not appear to be any direct association between the geophysical and geochemical anomalies. The anomalies may reflect mineralization related to the Boya West Hill skarn/porphyry showing, located just 600 m southeast of the grid. No further work is recommended on these claims at this time.

INTRODUCTION

During the period of July 6 - August 8th, 1997, a program of soil and lake sediment geochemistry, ground geophysics and minor prospecting was carried out on the Kechika Property in north central British Columbia. The property comprises 9 claim blocks, of which the H - claim block is discussed in this report. The work was conducted by Donegal Developments Ltd. on behalf of Tizard Explorations Inc.

The focus of the exploration program was to investigate anomalies delineated from an earlier reconnaissance airborne geophysical survey. The property is located within the Kechika Trough, a region which is prospective for sediment hosted zinc-lead-silver deposits.

Location and Access

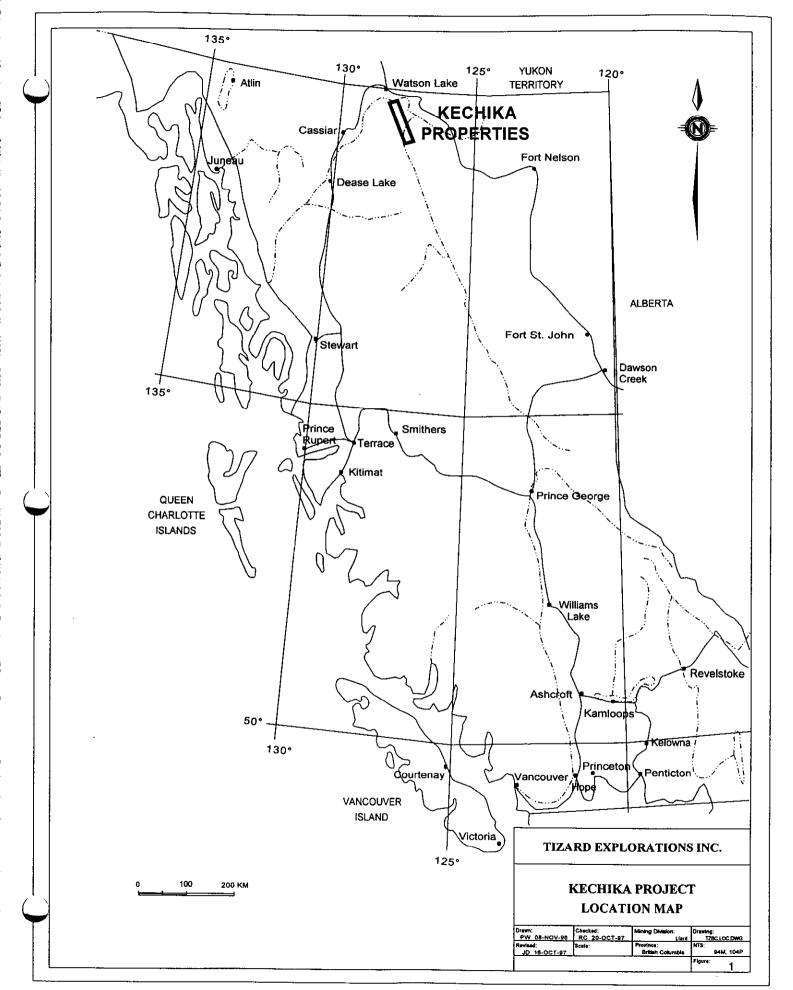
The Kechika H-Block is located adjacent to the east side of the Kechika River, 10 km north of the confluence of the Turnagain River and 110 km southeast of the town of Watson Lake, Yukon [Figure 1]. The centre of the property lies at 59°15' N. latitude, 127°32' W. longitude on NTS mapsheets 94M/4E,5E within the Liard Mining Division.

Access to the claims is available by helicopter out of Watson Lake. A series of trails provides good access within the claims. A fly camp was set up on the west side of Aeroplane Lake, 21 km to the northwest, during the course of the work on these claims.

Physiography and Climate

The claims are situated on the edge of the Liard Lowlands physiographic division (Liard Plains) and the adjacent Rabbit Plateau. The Liard Plains is characterized as a low lying, drift-covered region with subdued topography. The claims cover the west slope of a hill, informally referred to as Boya Hill, with elevations ranging from about 650 m (2,133 ft.) on the western edge of the claim block to 1,040 m (3,412 ft.) above sea level on the east near the peak of the hill. Glacial features on the claims indicate that ice movement was in a northeast direction.

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The climate is typical of northern continental regions, with temperatures ranging from about -25° C in January to 15° C in July. Much of the precipitation falls as snow, with annual snowfall averaging 219 cm. Field work can be carried out from about May to October.

<u>Claim Status</u>

The H - Claim Block consists of 4 individual claims totaling 70 claim units, covering an area of about 1,750 hectares (4,324 acres). The owner on record of these claims is Tizard Explorations Inc. The claims are listed in Table 1 below and illustrated in Figure 2.

Table 1:	H-Claim	List
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Claim Name	Tenure Number	Record Date	Units	Expiry Date	Claim Owner
H 91	350091	96 Aug 23	15	98 Aug 23	Tizard Explorations Inc.
H 92	350092	96 Aug 23	20	98 Aug 23	Tizard Explorations Inc.
H 93	350093	96 Aug 23	15	98 Aug 23	Tizard Explorations Inc.
H 94	350094	96 Aug 23	20	98 Aug 23	Tizard Explorations Inc.
		Total:	70		

Property History

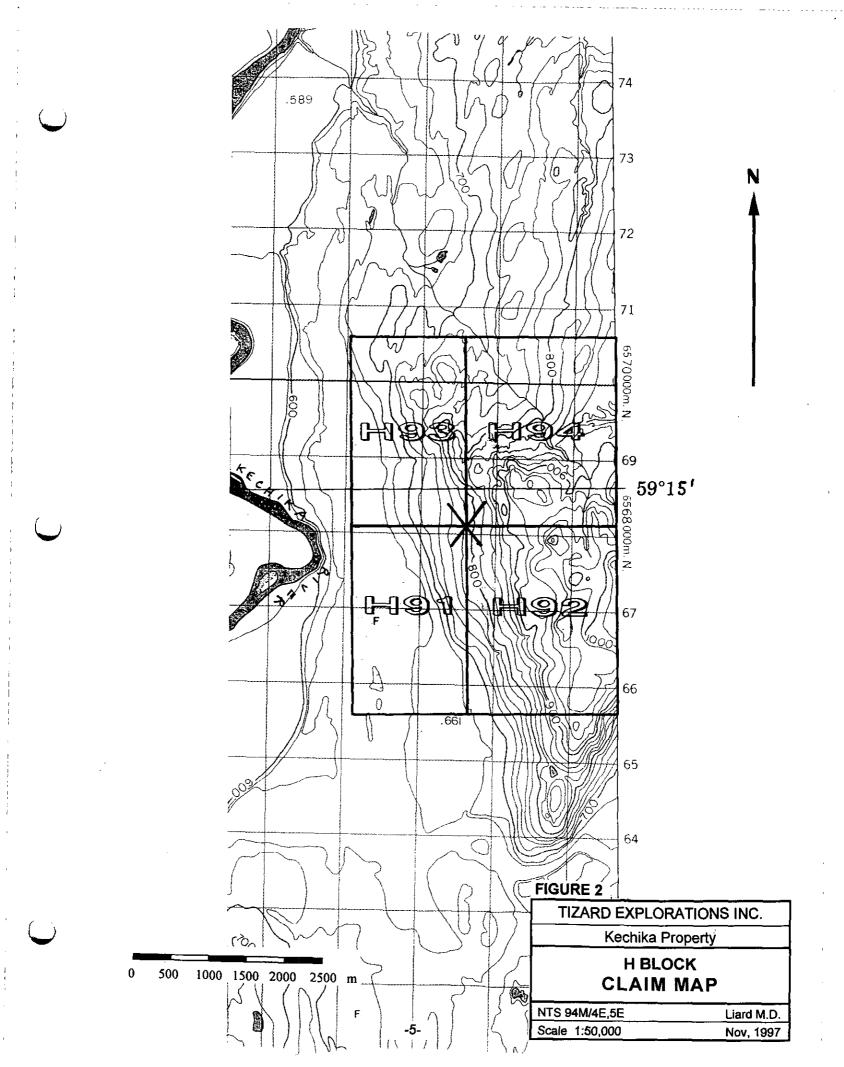
The H-Block claim area, previously staked as the Boya claims, was extensively explored by Texasgulf Inc. between 1977-81 on behalf of its wholly owned subsidiary, Texas Gulf Canada Ltd. A brief chronological history of this property is as follows:

- 1977: The Boya claims are located with 4 MGS claims totaling 60 units. The claims are acquired as a raw tungsten prospect, with further work contemplated.
- 1978a: A brief geological evaluation of the claims is conducted. Geochemical surveying consisting of 110 soil samples is completed on contour and down-slope traverses. A topographic map at a scale of 1:5,000 is prepared by McElhanney Surveying and Engineering Ltd. Additional staking is completed, with the property now comprising 8 MGS claims and one fractional claim totaling 94 units.
- 1978b: Geological mapping is performed at 1:5,000 scale over the entire property and at 1:2,500 in a specific area of interest. A total of 335 soil samples were collected and analyzed for Cu, Zn, Mo and W with 102 of the samples subsequently analyzed for Bi. A ground magnetic survey is completed totaling 930 readings on 19.9 km of line. Late in the field season, a limited program of line-cutting is completed with 2.5 km of line.

- 1979: Soil sampling (61 samples) is performed to substantiate a weak geochemical anomaly detected in an earlier survey. Geophysical surveys consisting of magnetics and wide-spaced I.P. is conducted over the entire property with more detailed investigations of the North Magnetic Anomaly. Three short lines of aerial photography are flown over the property and surrounding ground with a total of 33 photos at a scale of 1:24,000. Diamond drilling in 8 holes totaling 1,419 m is completed to test surface showings and geophysical anomalies.
- 1980: Further diamond drilling with 8 holes totaling 2,227 m is completed on the Boya 1 & 7 claims. The core is analyzed for Mo, W, and Cu. Grades are generally very low.
- 1981: Two diamond drill holes are completed (1,374 m) on the Boya 1 and 2 claims to test a large volume of altered, skarned rock lying between two previously drilled areas.
- 1996: An airborne magnetic survey, covering a 100 km by 20 km area is flown over the northern Kechika Trough area by Questor Surveys for Donegal Developments Ltd. Eight claim blocks, including the H-Block are staked for Tizard Explorations Inc. during the summer to cover the most favourable anomalies.

Summary of Work

Work performed on the Kechika H-Block in 1997 consists of grid establishment, soil sampling and ground geophysics on the H93 and H94 claims. A total of 6.0 line km of flagged gridlines, 6.0 line km of soil sampling (122 samples), and 6.0 line km of magnetometer/VLF-EM surveying was completed.



REGIONAL GEOLOGY

The area of interest lies within the Kechika Trough, a sedimentary basin developed off the western shelf of Ancestral North America during early Paleozoic time [Figure 3]. The trough is bound to the west by the Northern Rocky Mountain Trench and is considered to be the southern extension of the larger Selwyn Basin in the Yukon. Recent mapping of the Northern Kechika Trough by the B.C. Geological Survey has identified strata of predominantly Proterozoic to Mississippian age with lesser Permian to Quaternary units [Figure 4].

Stratigraphic units are summarized below from Ferri et. al. (1997):

Upper Proterozoic Hyland Group

Grey to brown weathering sandstone and slate with distinctive sequences of fine to coarse, gritty feldspathic quartz-rich sandstones and conglomerates.

(Upper Proterozoic and/or Lower Paleozoic ?) "Aeroplane Lake Panel"

Low grade metamorphic rocks in the Aeroplane Lake area, subdivided into 3 packages: a calcareous phyllite and schist, siliceous schist and quartz sandstone, and a limestone, phyllite, sandstone.

Upper Proterozoic and Cambrian

Undivided Hyland Group and Cambrian rocks.

Cambrian Siliciclastics

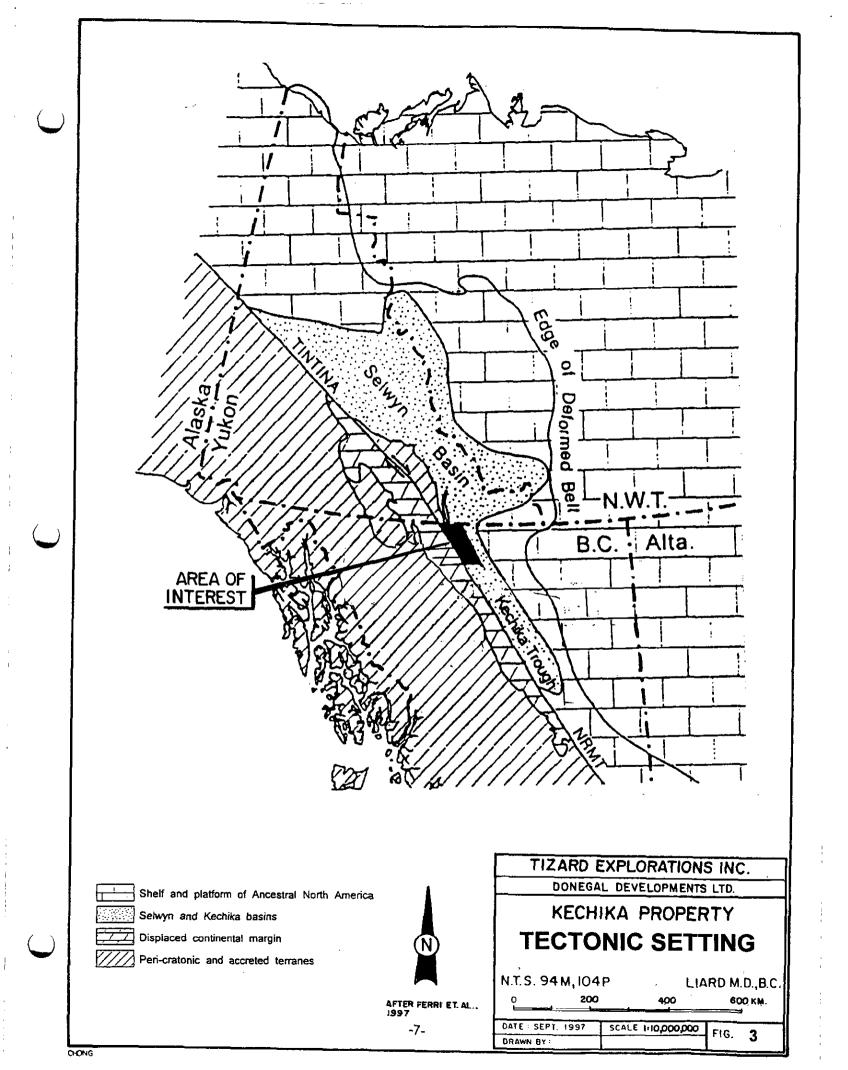
Slate, siltstone, quartz sandstone to quartzite, conglomerate and minor limestone are grouped into an unnamed sequence of probable Cambrian age.

U. Camb. - L. Ord. Kechika Group

Slate, calcareous slate, limestone, siltstone, and sandstone. This unit is extensive in the map area but poorly exposed and displays variations in thickness and lithology. In the Kechika River area, the unit is more siliceous and dolomitic.

U. Ord. - Mid. Devonian Road River Group

Divided into 2 informal subunits (although not recognizable in this map area). A lower sequence known as the Duo Lake Formation is composed of black shale, siliceous shale, chert and minor limestone. The overlying "Silurian Siltstone" is distinguished by distinctive buff-orange weathering, bioturbated dolomitic siltstone. Road River exposures are dominated by the Silurian Siltstone unit due to its relatively resistant nature.



Ordovician - Miss. "Kitza Creek Facies"

An informal unit in the Kitza Creek area consisting of calcareous dark grey to black, carbonaceous siltstone to silty argillite, shaly slate. May be older, younger than or equal to the Road River Group.

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Upper Devonian to Mississippian Earn Group

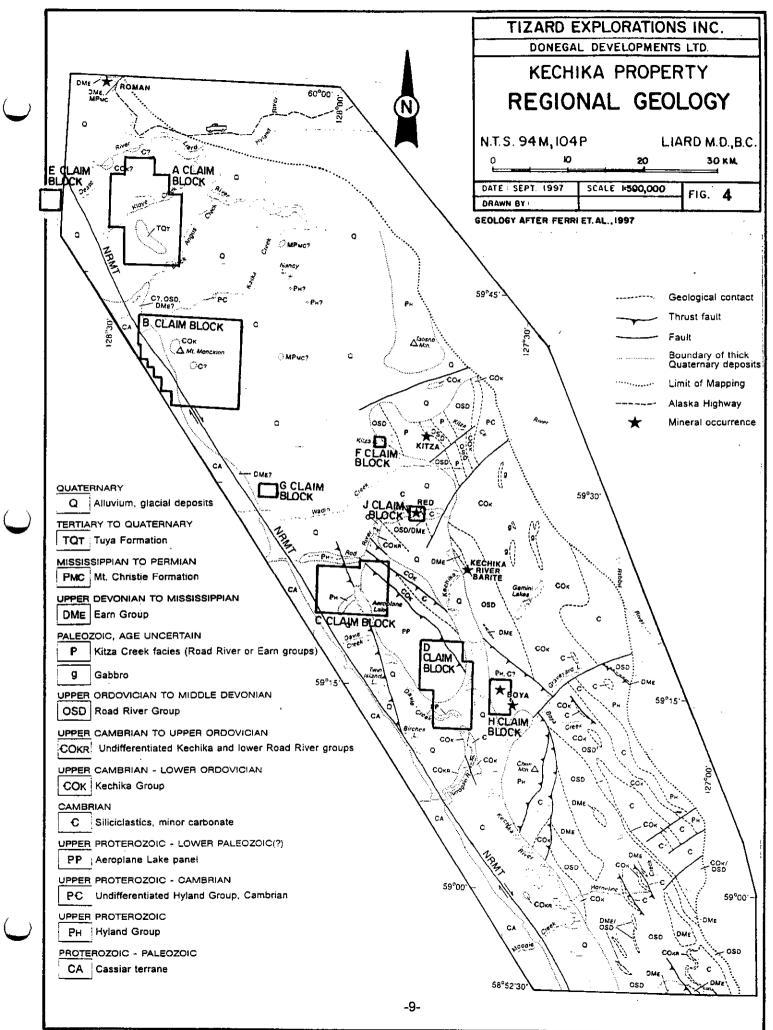
Thin to thickly bedded, carbonaceous blue-grey to dark grey or black argillite, cherty argillite, siltstone and slate. These rocks have a characteristic yellowish stain on weathered surfaces. Upper Devonian rocks of the Earn Group host many of the Cordillera's most important sedex deposits.

Miss. - Permian Mount Christie Formation (?)

Grey to buff-weathering, pale to dark grey chert. Locally pale salmon pink or green. Thinly to thickly bedded. Minor argillite. Locally found stratigraphically above Earn Group.

Tertiary - Quaternary Tuya Formation

Fresh, massive to fragmental basalt. Dark grey-brown to dark green, plagioclase-olivine-phyric. Locally vesicular or glassy. Minor basaltic tuff, with angular basalt fragments.



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<u>Structure</u>

The regional structural style in the Kechika Trough is dominated by northwest trending folds and thrusts. Folding is open to moderate and upright to northeast verging. The dominant cleavage is generally parallel or subparallel to bedding. A major thrust is located on the east side of Chee Mountain, where Cambrian quartzites and slates overlie Earn Group rocks. West of Chee Mountain, the Hyland Group is separated from the Cambrian rocks by another northeast-verging thrust fault. Another significant thrust carrying Proterozoic rock passes through Aeroplane Lake in the Rocky Mountain Trench. The Northern Rocky Mountain Trench on the western boundary of the trough is a broad, well defined valley along with right-lateral fault displacement in the range of 450 - 700 km. Several steep, northeast trending dip-slip or oblique slip faults are also present in the map area.

Intrusive Rocks

In the northern Kechika Trough map area, intrusive rocks consist of mainly gabbro and smaller stocks or dikes. Several elongate gabbro bodies are found in Kechika Group rocks northeast of Gemini Lakes of possible early Paleozoic age. At Boya Hill, 10 km southeast of Graveyard Lake, skarn mineralization is related to quartz-biotite-feldspar porphyry and quartz porphyry dikes, sills and small stocks of early Cretaceous age. Several feldspar and quartz-feldspar porphyry dikes also occur within the Aeroplane Lake panel. At Mount Monckton, strongly hornfelsed rocks indicate the proximity of a large intrusive body.

REGIONAL METALLOGENY

The most economically important mineral deposits in the Kechika Trough, and the primary exploration target of this program are zinc-lead-silver sedimentary exhalative (sedex) deposits. These deposits are characterized by thin laminations to massive beds of pyrite, pyrrhotite, sphalerite and galena within host rocks of shale, chert, and carbonates. Barite is also a major component of many sedex deposits.

Some of the world's largest sedex deposits are found within the Selwyn and Purcell basins of the Canadian Cordillera, including Howard's Pass in the Yukon (125 million tonnes of 5.4% Zn and 2.1% Pb) and the Sullivan deposit in southeastern B.C. (155 million tonnes of 5.7% Zn, 6.6% Pb, 68 g/t Ag). The Selwyn Basin is host to over 20 sedex deposits, and has been estimated to contain a total tonnage potential of 900 million tonnes (Carne & Cathro, 1981). The Kechika Trough, which is the southern extension of the Selwyn Basin, hosts 12 documented sedex occurrences. Among these are the Cirque (32.2 million tonnes of 10.0% combined Zn-Pb, 48g/T Ag) Driftpile, and Akie deposits. These deposits are found in Road River Group and Lower Earn Group strata.

A secondary exploration target is poly-metallic volcanogenic massive sulphide deposits (VMS). These are syngenetic stratiform deposits of copper, zinc, lead, silver and gold occurring in marine volcanic rocks or associated marine sedimentary rocks. VMS deposits share similarities to sedex deposits as they are both formed by discharge of hydrothermal fluids onto the seafloor. The VMS deposits often contain 5 to 20 million tonnes and can attain high grades (ex. Wolverine, \$270/tonne).

Mineral Occurrences in the Northern Kechika Trough Area

<u>Kitza Showing:</u> On Kitza Creek, about 3 km east of Kitza Lake, low grade sulphide vein mineralization occurs in "Kitza Creek facies" siltstone-limestone. Several dozen veins contain one or more of tetrahedrite, sphalerite, barite, and rare galena. An aerial electromagnetic survey consisting of over 600 line km was flown over the Kitza area in 1981. The 3 main anomalous areas were thought to be graphitic shears, but ground soil surveying and geological mapping located a large number of scattered low-grade showings. Small and patchy soil anomalies are associated with these mineral showings.

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<u>Red Showing</u>: This showing occurs on the banks of the Red River, 5 km upstream from the junction with the Kechika River. Low grade vein mineralization occurs at 3 localities within a kilometre. A quartz breccia zone and quartz veins carry sphalerite, galena, pyrite, smithsonite and minor chalcopyrite.

Roman: The Roman zinc-lead-silver showing is hosted in Earn Group rocks just south of the Yukon-B.C. border. Several concordant to discordant sphalerite and galena bands up to 20 cm thick are hosted by graphitic slate and silty limestone. These bands can be traced for 10 metres before they disappear under the Liard River. A silicified zone at the contact contains quartz veins with patches of sulphide mineralization. The mineralization has been suggested to be part of a sedex feeder system or related to regional folding. Assays from the mineralized lenses have returned values of 22.6% Zn, 46.3% Pb and 23 g/tonne Ag. The property has been extensively explored by geological mapping, geophysical surveys and some diamond drilling. The presence of bedded barite, pyrite and stratabound lenses of sphalerite and galena suggest that the right conditions have existed to form sedex deposits in the northern Kechika Trough.

Boya: The Boya porphyry/skarn prospect is located on Boya Hill, 10 km southwest of Graveyard Lake. Low grade tungsten and chalcopyrite and molybdenum occurs at the Main Face and West Hill showing areas. At the Main Face, quartz-biotite-feldspar porphyries intrude Proterozoic host rocks forming a calc-silicate rock locally mineralized with pyrrhotite, chalcopyrite and scheelite. The most significant mineralization occurs in quartz stockworks and fracture-filling veins in the intrusion and altered metasediments which contain molybdenite and minor scheelite. At the West Hill showing, 3.5 km to the northeast, skarn mineralization consists of massive pyrrhotite with minor chalcopyrite, arsenopyrite, sphalerite, galena, bismuthinite and variable molybdenite.

<u>Kechika River Barite</u>: This barite-pyrite stratiform deposit occurs along a creek valley 9 km NW of Gemini Lakes and 1 km upstream from the creek's junction with the Kechika River. The barite is at least 4 m thick with local finely disseminated pyrite and is overlain by a sequence of slate with pyrite concretions, barite nodules, and finely laminated pyrite. The occurrence is hosted in Earn Group rocks.

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PROPERTY GEOLOGY

The claim area has been previously mapped by Texasgulf Inc. and more recently by the B.C. Geological Survey (Ferri et al., 1997). The property is underlain by Upper Proterozoic Hyland Group sedimentary rocks, but may include rocks of Cambrian age. Northeastward along the main part of the hill, the rocks are described as variously hornfelsed, hydrothermally altered and mineralized (unit PH_H). Outcrops of limestone or sandy limestone form prominent exposures at the top of the ridge and may be thinly interlayered with slaty siltstone or chert on the southeast slope. At the southwest end of the hill, typical grey to orange-weathering coarse sandstone to granule conglomerate is associated with several ribs of limestone and slate. The northwest facing slopes contain exposures of interlayered quartz sandstone, siltstone, slaty siltstone; chert; interlayered chert and quartz sandstone or quartzite; and recrystallized limestone.

Volcanic rocks (unit PH_V) form a mappable unit several hundred metres thick and are exposed at several localities including the southeast corner of the claims. These volcanics are typically buff to orange-brown weathering, green to brown tuff and lapilli tuff. The rocks are intensely altered with calcite and quartz.

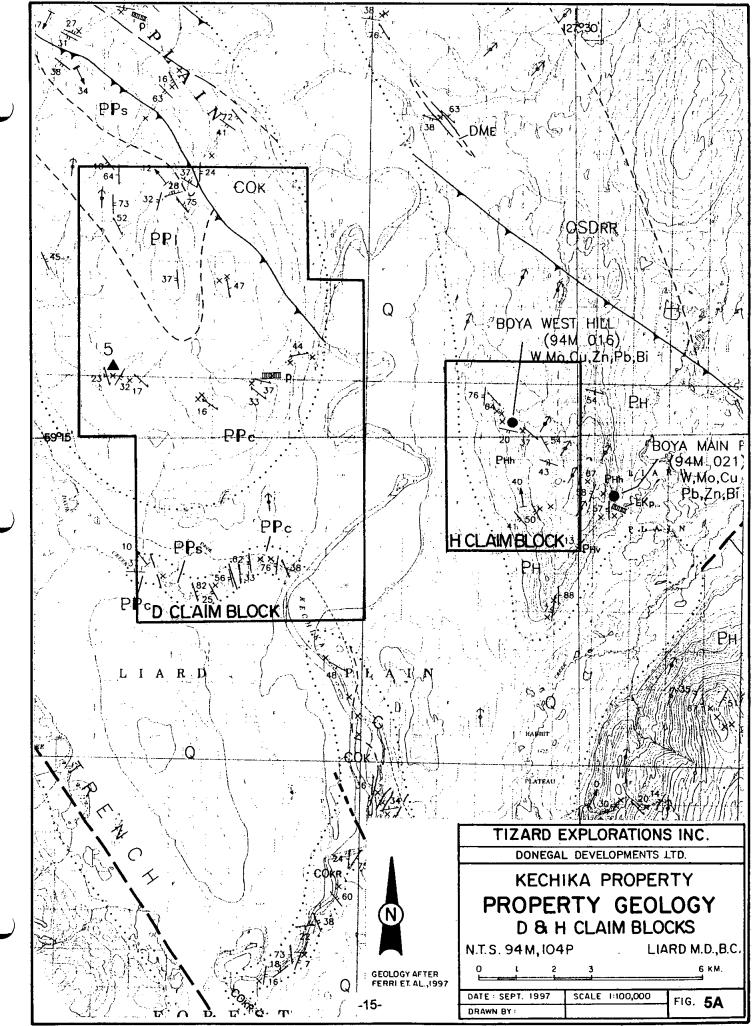
Intrusives on the property consist of Cretaceous dikes, sills and small stocks of medium grained quartz-biotite-feldspar porphyry and quartz porphyry. These intrusives are associated with tungsten-molybdenum skarn mineralization. The quartz-biotite-feldspar porphyry is of quartz monzonite or granodiorite in composition. Thin dikes of quartz-feldspar \pm biotite porphyry with a dark purplish groundmass are also present (Ferri et al., 1997).

The claims cover the Boya West Hill Showing, located on the northwest ridge of the hill. Skarn mineralization is associated with porphyritic bodies intruding limestone, slate, siltstone and quartz sandstone. The main mineralization at the West Hill and nearby Night Hawk Hill areas occurs in diopside-quartz skarn in marble or porcellanite which locally contains metre-scale lenses of massive pyrrhotite with minor chalcopyrite and traces of very fine scheelite. Quartz stockworks and veins are common in the porphyries and altered metasediments ranging from sparse to swarms of veins constituting 50% of the rock volume. Drilling by Texasgulf intersected erratic scheelite and molybdenite with assays ranging up to 0.64% MoS₂ and 0.38% WO₃. Minor amounts of arsenopyrite, sphalerite, galena and bismuthinite were also found in

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drill core. Widespread hydrothermal alteration is present with progressive chloritic and carbonate-sericite alteration (Minfile 94M 016).

About 1 km east of the property boundary, the Boya Main Face Showing contains similar skarn mineralization with pyrrhotite, chalcopyrite, scheelite and molybdenite. The most significant molybdenite mineralization is hosted by quartz stockworks and fracture-filling veins in the intrusions and altered metasediments. Drilling intersected low values with up to 0.2% MoS_2 and 0.55% WO_3 , but overall values are considerably lower (Minfile 94M 021).



	and the second				
CENOZOIC	ANCESTRAL NORTH AMERICA				
UATERNAR			INTRUSIV	E ROCKS	
٩	Glacial deposits and post-glacial alluvium.	LATE CRETACE	OUS TO EARLY TERTIARY(?)		
FERTIARY TO	D QUATERNARY		Speckled grey, medium-grained homblende (ranile, with small quartz phenocrysts.	
ΤΟΤ	TUYA FORMATION Fresh, massive and tragmental baselt. Dark grey-brown to dark green, plagiocless-oflwine-phyrki. Locally vegacuter or glassy. Minor baselic tull, with angular baselt fragments.	КТд	KTp: Pale yellow-green, altered, quartz-plag	oclase pomhyry (rhyodacite?) dike.	
		CRETACEOUS	?}		
PALEOZOI	C AN TO PERMIAN		Feldspar, feldspar-biolite, and quartz-feldspa feldspar and brown biolite phenocrysts in blu	r porphyny, in or near Aeroplane Lake panel. e-grey-pink, fine-grained, weakly calcareous	Pink to bull-yellow groundmess. Post-
	MOUNT CHRISTIE FORMATION Gray to buff-weathering, pale to dark gray chart. Locally pale salmon pink or graen. Thinly to thickly badded.		metamorphic; possibly Crelaceous.		
МРмс	Minor argilite. Locally found stratigraphically above Eam Group.	EARLY CRETA	CEOUS	<i>,</i>	
UPPER DEVO	DNIAN TO MISSISSIPPIAN	EKa	Dikes, sits and small stocks on Boye Hill. Sp fektspar porphyry and quartz porphyry. Gene aptitic.		
DME	EARN GROUP Pale gray to blue gray weathering, dark gray to black argitite, cherty ergitite, sitistone and state. Generally carbonacous. Thinky to thickly badded. Locally calcanous, ranging to black, field, platy to blocky argitileosous	EARLY PALEO			
UNIC	Brestone (possibly related to Vitze Creek facility, Rare bedded bartle: pake gray, Bre to medium grained, with thre pyrite laminations, and associated with gray state with bartle and pyrite nodules.	[]	Gabbro. Orange-brown weathering, speckled	i green and white, non-foliated, equigranular,	medium to coerse-
UPPER ORD	OVICIAN TO MIDDLE DEVONIAN ROAD RIVER GROUP	9	grained, with pyroxane, horriblende and bioth	-	
OSDAR	Upper part: "Siturian Sitistone": Buff-brown to orange-weathering, grey to greenish-grey sitistone, dolomitic sitistone. Commonly bioturbated, with wispy or motified laxture, or thinty leminated. Locally coarser greined,	•			
	becoming fire sandstone which may be cross-terminated. Generally well and thinky to Bickly bedded, with interbads of gray state or explisite, which predominate in some areas. Minor gray timestone; gray to gray-brown bended chert; sooly black state or explisite, gray, fine-grained sandstone to quartitile, locally calciareous.				
	Lower part: Recessive, gray to blue-gray weathering, carbonaceous, gray to black shale to state and argaine, party siliceous: sitistone, cherty sitistone and chert, gray to bluish-gray imesione. Thinly to moderately thickly				
	bedded.				
UPPER CAM					
COKR	Undifferentiated Kechika and lower Road River groups.				
UPPER CAM	- IRIIAN TO LOWER ORDOVICIAN				
СОк	KECHIKA GROUP Pake grey to cream-buff weathering, thinly and regularly interbeckled grey to dark grey laminsted state. cpt_areous_state and fixe-grained innestone, staty or platy innestone, sity limestone. On weathering, generally				
	sof, triable, with shirp kushe. Fine to medium-grained, thickly bedded gray timestone predominates locally. COKs (between Graveyard Lake and Kachika River). Silicous facies. Well and thinly interbedded, gray to				
	CURX (definitionalistics) physicility in the Line to machine gradient calculations attached to fine sandstore with good cost-particular ways intrinse and microscopic parkings, gray calcimous states of and ship withis parks to micro- gray any line stone or dolosione. Derit gray, play micritic Simpatone to anglecosous Simpatone north of Gerniel Lates.				
CAMBRIAN			SYME		
	Grey to rusiy-brown weathering, grey micsorous state, sity stele, sitstone; locally calcareous or dolomitic. Pale to mic-grey to marcon, thinly to thickly backled, leminated micsorous sandstone, quarts sandstone and		UT MU		
C	lesser greywecke; locally with calcareous matrix, cross-laminations, argitite clasts. Quartz-, quartzite- and chart-public condomerate, with calcareous matrix tending to sandy limestone (possibly Middle Cambrian).	÷	ontact (approximate, inferred)		
	Gray, fine to medium-grained, massive to platy limastone. Minor gray to red-brown chert, cherty argitite or sitistone.		verse fault (approximate, inferre ximate, inferred)		
UPPER PRO	TEROZOIC AND CAMBRIAN		(approximate, inferred)		
	1	Strike-slip	ault (approximate)		
PC	Undivided Hyland Group and Cambrian rocks.	Axial surfac	e trace (anticline, syncline)		<u>+</u> +
PROTERO			ht way up, overturned, lop unki		× × '
UPPER PRO	DTEROZOIC		ge or schistosity (inclined, verti		XX
	HYLAND GROUP Grey, oftwo-green-grey, red-brown to mercon, iomineted state, physite, ergisite, sitty state and sitistone. Generally essociated or interbeddad with buff to grey to white, linicity bodded to massive, micaceous		cleavage		
Рн	sandstone, quartizite and granule to pebble conglomerate, locally with blue quarts and ca. 10% feldsper clasta. and minor greywacks. Grey to brown-weathering, dark grey finely crystalline, massive to platy limestone		xis (first generation, second)		~ ¥
	(northern and western Chee Mountain). Grey, massive, medium-grained crystalline limestone and sandy limestone, and libiniv interbedded ilmestone and chert (Boya Hill). Pale grey to cream, fine-grained dolomtic		osure ion (dike, sill, stock)		*
	limestone (Red River). Coarse preywecke and quartz- and cheri-pobble conglomerale and braccie (Lierd Plain) Pht: Homleised rocks, on Boye Hill, Phv. Orange-brown weathering, green to brown luft and leptill fulf with	•	icator (direction known, unknown		-
	celcareous matrix, on Baya Hill.		boundary of significant Quoterr		
	ار میشند. این میشوند این میشند این و میشوند از این میشوند و این میشوند. این میشوند این این میشوند و میشوند و این میشون		nical sample location (number r		4
	INFORMAL UNITS OF UNCERTAIN AGE	-	lity (name, number, commoditie		● RE
ORDOVICIA	N TO MISSISSIPPIAN			· · · ·	(94M Ph.7
	KITZA CREEK FACIES Generally calcareous, dark grey to black, carbonaceous silistone to silly arginite, shally state. Associated with	Cross-section	on fine	^	^ ^
· P	buf to grey-weethering, thirty to thickly becked dark grey to black, play to blocky, ally to any testions field investore. Minor, blank bedded to messive, calcareous or non-calcareous quart, sandstone to sandy investore, play grey calcareous tild, black cheit. Thick sections on filts Creek and lower Red River of black	Limit of ma	pped area	•	• • •
	state and arpititie with thin bads of dolomitic sitistone.				
UPPER PRO	DTEROZOIC(?) TO LOWER PALEOZOIC AEROPLANE LAKE PANEL	· ·			
r	Low grade melamorphic tocks. Calcureous phyllife and achist. Grey, intely tentinated to thinky bedded calcureous and graphilic phyllife to				
PPc	Collective too party merils in a sense. Schild, loop and the cardinal sense of the		TIZARD E	EXPLORATIONS	INC.
	Success whist end quarts sampleme. Grey to dark only, creatiled state to physite to achist, up to biotite		DONEGA	DEVELOPMENTS	LTD.
PPs	grade, with layers of micaceous quarts sensitions, greywacke and sillstone. Minor dark gray, play to messive Investore. Senilar to Protenziato or Cambrian units.				
	Limestone, phyllite and sandstone. Grey, recrystalized imestone to marble with thin layers of crenulated muscowite-chlorife schist, phylite and greenish-grey calc-allicate. Minor dark blue-grey Metspethic sandstone t	ю.	I REUH	IKA PROPER	11
PPI	muscowle-chlorite achist, phylite and greenish-grey calc-silicata. Minor dark blue-grey relospathic sandstowe a granule conglomerate. Similar to Hyland Group carbonates on Chee Mountain.	-,		GEND FOR	2
· · · · · ·	-				
	CASSIAR TERRANE		I PROPE	RTY GEO	LUGY
יפס מפקענו	OTEROZOIC(?) TO PALEOZOIC		1	•••	RD M.D.
	. Come moderable in thickly herblard meets detriner sensitions, and phylitic: possibly insenice Group. Gray to		N.T.S. 94 M, 104		RU M.U.,
CA	Grey, incompany to anony ascourt, great with the same same service, and provide section of the same service of a same se	GEOLOGY AFTER			
L	calcarous querte sandature, siete.	FERRI ET. AL., 1997			
		40	DATE : SEPT. 1997	SCALE	FIG. 5E
· •	· · · · · · · · · · · · · · · · · · ·	-16-	DRAWN BY:	L I	

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1997 EXPLORATION PROGRAM

GRID SYSTEM

A single grid totaling 6.0 line km was established on the H Block [Figure 9] across anomalous aerial magnetic responses as advised by Mr. Ron Sheldrake, geophysicist with Questor Surveys. Minor adjustments to the position of the lines may subsequently have been made by the writers to avoid lakes, rivers or other serious obstacles. The grid were put in using compass and hip chain. Lines were spaced 200 m apart and stations marked at 50 m intervals along the lines with red flagging.

Grid HA consists of three lines extending 2,000 m at 047° across a narrow northwest trending aeromagnetic low anomaly.

GROUND GEOPHYSICAL SURVEY

Introduction

Very low frequency electromagnetic (VLF-EM) and magnetic geophysical surveys were carried over areas of the claim blocks selected on the basis of an aeromagnetic survey. The surveys were done simultaneously with two EDA OMNI PLUS instruments equipped for both VLF-EM and magnetic surveys. Diurnal variations in the geomagnetic field were recorded and removed from the magnetic results using a third EDA OMNI PLUS magnetometer operated in the base station mode. Two VLF-EM stations were utilized, namely, Seattle (Jim Creek), WA. (NLK) transmitting at 24.8 kHz and Hawaii (NPM) transmitting at 21.4 kHz. The Seattle station, located to the southeast of the project area, was the primary station providing ideal coupling with the anticipated northwest/southeast geological trends. Although not so favourably located, the Hawaii transmitter, acted as both a backup station, when the Seattle transmitter was off the air for repairs and/or scheduled maintenance, and an alternate station for more easterly trending features. Readings were taken at 25 m intervals.

Results and Discussion

The data has been plotted and interpreted by J.L. LeBel, Geophysicist. The results of the survey are posted and profiled separately on the accompanying maps [Figures 6A, 7A] at a scale of 1:5,000. For the VLF-EM survey, the in-phase and the quadrature components of the vertical magnetic field are in per cent (%) of the horizontal primary field (i.e. the tangent and ellipticity) are presented. The magnetic results show the total magnetic field in nano Teslas (nT). For VLF-EM survey the horizontal field strength is also profiled although the data is not posted due to space limitations.

As most of the grids consist of 3 lines or less, the three individual sets of results are stacked on one plan map. For the grids with more than 4 lines the results are presented on individual maps.

Valid VLF-EM anomalies, as marked on the maps, are indicated by positive to negative sense inflections or cross-overs in the in-phase component considered from west to east for east/west lines and south to north for north/south lines. Quadrature phase anomalies may have any sense. Field strength over anomalies always increases thereby provides a secondary confirmation that an anomaly is valid. Anomaly locations are not routinely provided for the Hawaii station because the results tend to be redundant.

Grid HA

The magnetic survey outlined a 100 to 150 nT low in the west on which some small highs appear to be superimposed. A small high also occurs on line 3N at 1550E. The VLF-EM survey outlines numerous anomalies as indicated on the Seattle results which are more or less replicated by the Hawaii results. Two VLF-EM anomalies near 700E on line 1N occur on either edge of a small magnetic high and the magnetic high at 3N, 1550E correlates with a poor VLF-EM anomaly.

-18-

SOIL GEOCHEMICAL SURVEY

A soil survey was conducted over the two grids, with a total of 122 samples collected. The soil horizon generally consisted of a 10-30 cm deep A-horizon and a mostly well developed B-horizon at about 5-15 cm depth. On north facing slopes, the soil horizons were less well developed. Samples were collected from the B-horizon in kraft paper bags and partially dried before shipping to Acme Analytical Labs in Vancouver. A 32-element ultratrace ICP and wet geochemical gold analysis was conducted on the samples. Barium values are not total. Refer to Figure 8A for element plots and profiles and Appendix A for complete analytical results.

			-		
ELEMENT	MIN	MAX	MEAN	MEDIAN	THRESHOLD*
Mo (ppm)	0.3	2.3	1.2	1.1	1.9
Cu (ppm)	4.7	67.6	11.6	9.3	27.9
Pb (ppm)	1.5	22.9	10.0	9.7	17.3
Zn (ppm)	8.5	190.6	59.3	54.5	111.6
Ag (ppb)	< 30	439	76	65	205
Ni (ppm)	1	40	20	20	33
Mn (ppm)	138	1750	453	323	1104
Fe (%)	0.21	4.74	2.49	2.57	3.92
As (ppm)	0.8	129.0	7.9	4.1	35.6
U (ppm)	< 5	11	3	3	5
Cd (ppm)	0.02	1.49	0.20	0.13	0.67
Sb (ppm)	0.2	1.7	0.5	0.4	1.0
Bi (ppm)	< 0.1	2.2	0.2	0.1	0.8
Ca (%)	0.12	12.66	1.32	0.28	6.25
Р(%)	0.015	0.185	0.057	0.054	0.118
Ba (ppm)	113	735	235	217	427
Hg (ppb)	< 10	82	26	22	57
Se (ppm)	< 0.3	21.4	1.1	0.2	6.9
Au (ppb)	< 1	18	1	1	5
n = 122				* = n	nean + 2(std dev)

Table 2: Soil Statistics Summary

Results

HA Grid:

Soil values from this grid show a few scattered anomalous values in molybdenum, copper and zinc on the west side with more continuous anomalies towards the east end of the grid. In total, 5 samples are anomalous in molybdenum, 4 in copper, 6 in zinc, 4 in lead, 5 in silver, 5 in

arsenic, 7 in antimony, 7 in mercury and 7 in cadmium. On line 1N, between 1300-1850E, multi-element anomalous samples are present with nine out of twelve samples anomalous in one or more of copper, molybdenum, zinc, lead, silver, antimony, bismuth, mercury and selenium. The east sides of lines 2 and 3 also contain similar anomalous elements (plus arsenic) but with a more sporadic distribution.

Respectfully submitted, E. Lugard, B.Sc.

Kenow

R. Chow, B.Sc.

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STATEMENT OF COSTS

<u>Wages</u>

Seamus Young, Supervision		
Aug. 3; 1 day @ \$330/day		330
Jim Donaldson, Supervision		075
Aug. 3; 1 day @ \$275/day		275
Dave O'Neil, Soil Sampler		220
Aug. 3; 1 day @ \$220/day Sam Skiber, Soil Sampler		220
Aug. 3; 1 day @ \$110/day		110
Graeme Zucko, Soil Sampler		
Aug. 3; 1 day @ \$110/day		110
Shawn Ryan, Mag/EM Surveying		
Aug. 5; 6.0 km @ \$38.5/km		231
Mary Charlie, Camp Cook		
Aug. 3; 1 day @ \$220/day		220
Food & Accommodation		
Meals - 7 mandays @ \$25/day		175
Camp Costs (apportioned)		635
Transportation		
Airfare - 4 round trips, Vancouver to Watson Lake (apportioned cost)		229
Vehicle rental - 2 4x4 trucks, 32 days @ \$40/day (apportioned cost)		98
Gas (apportioned cost)		38
Helicopter - 3.5 hours @ \$800/hr.		2,800
Analyses and Shipping		
122 soil samples @ \$16.75/sample (ultratrace ICP + geochem gold)		2,044
Equipment/Supplies		
Mag/EM rental - 1 day @ \$300/day		300
• • • •		
Base Maps (apportioned cost)		114
Report Preparation / Drafting / Reproduction		<u>800</u>
	Total:	\$ 8,729

CERTIFICATE

I, EGIL LIVGARD, of 1990 King Albert Avenue, Coquitlam, B.C., do hereby certify:

- 1. I am a Consulting Geological Engineer, practising from #436 470 Granville Street, Vancouver, B.C.
- 2. I am a graduate of the University of British Columbia, with a B.Sc., 1960 in Geological Sciences and have regularly updated and expanded my geological knowledge through numerous short courses given by MDRU, GAC, the Chamber of Mines, and B.C.G.S.
- 3. I am a registered member in good standing of the Association of Professional Engineers of the Province of British Columbia, Registration No. 7236.
- 4. I have practised my profession for over 30 years.
- 5. This report is based on the writer's property examinations during the period of July 17th 22nd, 1997 and on references as listed.
- 6. I confirm that I have not, directly or indirectly, received or expect to receive any interest, direct or indirect, in the properties of Tizard Explorations Inc. or any affiliate, or beneficially own, directly or indirectly, any securities of Tizard Explorations Inc. or any affiliate.

Dated at Vancouver, British Columbia this 21st day of November, 1997.

Egil Livgard<u>, B.S</u>c.

STATEMENT OF QUALIFICATIONS

I, Rita Chow of 5615 Dumfries Street, Vancouver, British Columbia, do hereby declare that:

- 1. I graduated from the University of British Columbia with a B.Sc. Degree (first class standing) in Geological Sciences in June, 1995.
- 2. I have been employed with Donegal Developments Ltd. since June of 1995.
- 3. This report is based on work done on the property during the period of July 6th to Aug. 8th, 1997 and on references as listed.
- 4. I have no interest, direct or indirect, in the Kechika Property or in the securities of Tizard Explorations Inc. nor do I expect to receive any.

1 00 e)

Rita Chow, B.Sc. November 21, 1997

STATEMENT OF QUALIFICATIONS

I, J. L. LeBel, of 2684 Violet Street, North Vancouver, British Columbia hereby certify:

- 1. I am a graduate of the Queens University and the University of Manitoba and I hold a BSc. degree in geological engineering and a MSc. degree in geophysics.
- 2. I am a Professional Engineer registered with the Association of Professional Engineers and Geoscientists of British Columbia.
- 3. I have been employed in mining exploration on a full time basis as geophysicist with various companies since graduation in 1972.

J.L. LeBel, P.Eng.

DATED at Vancouver, British Columbia, this 10th day of October, 1997.

APPENDIX A

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Certificates of Analyses

ACHE ANNE VIICOL	(Ti	zar	dł	Sxp	lor	ati	Lon	s I	nc.	P	ROJ	EC.		ETC	CHIN	(A	FI	LE	# 9	7-43	337					Paç	ge	28	C		
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb					As ppm						Bi ppm		Ca %		La ppm		-	Ba Ti pm 2			Na X		W Ppm		-			Ga / ppm (
A1N 1300E	1.6	12.5	19.1	120.6	149	29	10	604	3.25	12.9	<5	4	29	.29	.6	.4	48	.42	.081												.3	<.2	7.3	<1
IA1N 1350E				55.6						13.5								7.43				.62 2										<.2		1
A1N 1400E				190.6	137							3	39 1	.28	.6	.2		.59				.37 7										<.2		1
IA1N 1450E				70.0		28				5.7												.43 1												
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IA1N 1550E	1.2	9.6	2.3	51.2	56	5	3	515	1.06	1.5	<5	<2 2	287	.55	.2	<.1	6	8.00	.128	3	4	.43 1	35 .01	16	.23	.01	.05	<2 ·	<.2	53	14.1	<.2	1.4	1
1A1N 1600E	2.2	11.5	2.2	36.1	63	6												8.82				.40 1												<1
HA1N 165DE		13.4		50.1	,	13												5.88				.64 1			.67									1
IA1N 1700E		25.5																6.63				.67 2			.90									3
IA1N 1750E	.8	8.1	2.2	11.4	46	<1	2	924	.34	1.1	<5	<2 2	241	.65	.3	.1	4	8.64	.068	3	3	.31 2	49<.01	8	. 19	.01	.02	<2 ·	<.2	48	2.1	<.2	.9	<1
IA1N 1800E	1.7			32.8	123	11				8.1		2 2	266	.62	.9	.2	15	6.43	.076	7	9	.47 4	02 .01	5	.72	.01	.04	<2	<.2	61	4.9	<.2	2.3	1
A1N 1850E		8.9		20.0	65	2														3	3	.42 2	33<.01	28	.16	.01	.07	<2 ·	<.2	59	3.2	<.2	.7	<1
A1N 1900E			11.1		89	19				3.8								.38				.48 1												<1
A1N 1950E		8.5		46.2		21				3.4								.27				.43 1										<.2		1
IA1N 2000E	1.9	6.7	9.9	51.3	48	15	7	445	2.29	1.8	<5	- 3	25	. 13	.3	.1	46	.39	.040	18	25	.37 2	49.05	د> ر	1.36	.01	.07	<u> </u>	<.2	10	••	<.2	4.4	< I

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HA2N 1650E HA2N 1700E HA2N 1750E HA2N 1850E HA2N 1900E	1.0 .7 1.1	13.7 5.0 16.4	1.5	33.3 8.5 61.9	33 <30 110	12 <1 15	5 2 6	322 1045 1032	3.41 1.24 .21 2.85 2.70	6.9 <.5 42.2	<5 <5 <5	<2 <2	163 274 256	.31	.5 .2 .4	.1 <.1 .2	16 2 15	.22 5.62 5.37 5.92 1.88	.079 .065 .109	11 1 6	9 2 9	.71 .57 .51	118 219< 340	.01 .01 .01	<3 9 11	.39 . .13 . .52 .	.01 .01 .01	.04 .02 .05	<2 < <2 < <2 <	.2 .2 .2	26 47 57	.3 1.6 5.2	<.2 <.2	1.8 1.2 2.7	<1 2 1
HA2N 1950E HA2N 2000E HA1N 0E HA1N 50E HA1N 100E	1.2 .3 1.7	18.4	10.5 9.2 16.8	45.6	57 140 84	17	8 3 8	474 574 282	2.93 2.47 .69 2.41 2.32	6.4 .9 7.6	<5 <5	3 3 3	22 632 64	.15 .14 1.03 .13 .07	.5 .5 .7	.3 .1 .2	34 39 12 33 44	.26 .26 12.66 1.58 .23	.060 .073 .051	15 4 25	22 8 18	.74 .45	207 314 158	.05 .01	<3 1 10 3	-14 -48 -93	.01 .01 .01	.08 .05 .11	<2 <	<.2 <.2 <.2	29 27 2 47	<.3 1.4 3.4	<.2	4.6 2.5 3.3	<1 <1 3
HA1N 150E HA1N 200E HA1N 250E HA1N 300E HA1N 350E	1.3	10.6 20.4 8.8	15.5 10.0 16.7 9.1 7.9	44.1 46.1 34.0	<30 67 <30	26	8 9 6	226 315 235	2.42 2.52 2.78 1.75 2.53	4.4 11.8 3.7	<5 5 <5	5 4 3	17 33	. 13 . 04 . 09 . 04 . 05	.5 .8 .4	.1 .1 .1	36 28	.18 .71 .14	.032 .050 .028	16	25 21 16	.31 .38 .35 .22 .40	151 295 177	.07 .01 .02	⊲31 ⊲31 ⊲3	.11 .12 .76<	.01 .01 .01	.11 .13 .05	<2 < <2 <	<.2 <.2 <.2	28 52 25	.3 .9 .3	<.2 <.2 <.2 <.2 <.2 <.2	4.2 3.8 3.2	1 1 <1
HA1N 400E HA1N 450E HA1N 500E HA1N 550E HA1N 600E	.8 1.4 2.3	67.6		110.4	<30 96 107	19 25 40	8 9 18	461 631 460	2.28 2.36 3.11 4.07 3.17	1.9 4.3 9.9	<5 <5 <5	3 3	17 30 45	.05 .08 .27 .47 .46	.2 .5	.1 .1 .1 1.8 2.2	41 51 69	.20 .35 .78	.050 .056 .042	13 11	23 30 31	.28 .36 .40 1.72 1.08	236 287 181	.05 .12 .07	<31 <31 <32	.19 .56 .83	.01 .01 .02	.07 .15 .22	<2 < <2 < <2 <	<.2 <.2 <.2	13 25 11	<.3 .4 3.0	<.2 <.2 <.2	4.5 7.4 8.6	1 1 1 6 1
RE HA1N 600E HA1N 65DE HA1N 700E HA1N 750E HA1N 800E	1.0 .8 1.2	13.0 10.5 10.5		50.2 69.2 67.3	56 47 41	26	9 10 8	250 506 217	3.09 2.86 2.89 2.92 2.79	4.7 5.3 13.8	<5 <5 <5	_3 _4 <2	26 25 19	.36 .11 .11 .12 .12	.4 .4 .5	.1 .1 .3	48 52 51 48 41	.32 .31 .24	.030 .065 .049	10 13 14	35 29 25	1.05 .49 .47 .39 .34	149 262 113	.11 .08 .05	<31 <31 <31	.49 .51 .27	.01 .01 .01	-09 -08 -08	<2 < <2 < <2 <	<.2 <.2 <.2	10 22 10	1.0 .5 <.3	<.2 <.2 <.2	5.2 5.4 5.4	2 <1 1
HA1N 850E HA1N 900E HA1N 950E HA1N 1000E HA1N 1050E	1.4 .9 .9	12.4 12.7 6.5 10.7 9.5	10.8 7.6 7.6	46.7	43 64	20 18 12 18 18	9 6 8	267 245 270	2.66 2.57 1.90 2.29 2.41	14.7 3.9 3.2	<5 <5 <5	4	19	.07	.7 .3 .3	.2 .1 <.1	37	.23 .24 .27	.043	17 13	19 22	.43 .29 .30 .43 .40	161 159 118	.03	<3 3 <3 1	.98 .96 .05	.01 .01 .01	.07 .05 .05	<2 · <2 ·	<.2 <.2 <.2	<10 20 16	.6 3.> 3.	<.2	3.4 3.8 3.8	2 <1 1
HA1N 1100E HA1N 1150E HA1N 1200E HA1N 1250E STANDARD D2/	1.1 .9 1.5	7.0 7.4 10.2	12.6 6.1 7.7 13.2 105.6	37.1 54.9 85.3	<30 47 108	18 19	6 7 8	169 276 548	2.81 2.29 2.54 2.66 4.31	3.9 6.7 16.2	<5 <5 <5	2 3 3	18 16 19	.09 .04 .08 .29 2.14	.3 .4 .6	.1 .3	43 43 37	.21 .19	.021 .033 .041	13 15	23 24 21	.39 .34 .34 .36 1.10	146 201 261	.05 .06 .04	<3 <3 1 <3 1	.97 .19 .16	.01 .01 .01	.05 .05 .08	<2 · <2 · <2 ·	<.2 <.2 <.2	<10 <10 22	<.3 <.3 .3		3.8 4.6 5.3	1 <1 <1

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	-	Ni ppm				As ppm				Cd ppm p		Bi ppm		Ca X		La ppm p				ті % р		Al %			W ppm p						
HA2N 0E HA2N 50E HA2N 100E HA2N 150E HA2N 200E	1.2 1.0 1.1	11.9 5.9 4.9 5.8 7.6	13.2 9.7 13.0	69.4	86 85 83		8 8 9	489 641 911	2.74 2.61 3.02	6.7 3.2 2.2 2.2 4.2	<5 <5 <5	3 4 4	23 24 22	.08 1 .16 .17 .17 .07	.5 .4 .4	.2 .2 .1	44 44 49	.29 .30 .26	.062 .096 .080	15 15 15	24 26 29	.39 .37 .40	223 263 399	.05 .06 .07	3 1 4 1 <3 1	.32	.01 .01 .01	.09 .08 .11	<2 < <2 < <2 < <2 < <2 <	:.2 :.2	27 < 30 < 30 <	<.3 <.3 <.3	<.2 5 <.2 4 <.2 5	5.5 4.2 5.7	<1 <1 <1
HA2N 250E HA2N 300E HA2N 350E HA2N 400E HA2N 450E	1.2 1.4		11.7 10.7	36.4 63.0 78.9	<30 87 73	22 18 17 26 32	6 8 9	158 702 298	2.64 2.54 3.07	2.5 3.6 2.5 2.7 4.3	<5 <5 <5	4 <2 4	22	.12 .03 .26 .20 .21	.4 .4 .5	.1 .1 .2	50 42 55	.24 .47 .29	.025 .119 .029	11	28 24 35	.40 .33 .49	162 428 249	.06 .04 .10	ব্ট 1 ব্ট 1 ব্ট 1	1.28 1.27 1.63	.01 .01 .01	.06 .09 .08	\lambda \lambd	<.2 <.2 <.2	24 • 17 • 31 •	<.3 <.3 <.3	<.2 <.2 <.2	3.9 4.6 5.8	<1 1 <1
HA2N 500E HA2N 550E HA2N 600E HA2N 650E HA2N 700E	1.1 1.2	7.7 8.3 6.3 7.5 5.2	14.9 12.1 14.3	102.1 56.9	80 93 88	26	10 9	804 455 637	2.98 3.04	3.5 3.8 4.0 3.6 1.6	<5 <5	4 2 3	35 24	.14 .16	.6 .4	.6 .4 .2	45 60 51	.47 .38 .30	.098 .022 .072	15 12 13	26 29 29	.74 .63 .44	431 216 243	.07 .09 .09	3 ' 3 ' 3 '	1.74 1.72 1.60	.02 .01 .01	.17 .13 .09	<2 < <2 < <2 < <2 < <2 <	<.2 <.2 <.2	18 • 22 • 33 •	<.3 <.3 <.3	<.2 : <.2 (<.2 (5.0 6.2 6.4	2 1 <1 <1 2
HA2N 750E HA2N 800E HA2N 850E HA2N 900E HA2N 950E	.9 1.0 .9	10.3	11.1 11.3 10.6	89.5	42	22 24 20	11 9 8	980 273 683	2.91 2.74	4.6 3.8	<5 <5	3 5 4	21 19	.14 .19 .07 .16 .06	.3 .6	.1 .1	52 42 41	.29 .32 .33	.061 .085 .047	17 17	29 28 24	.50 .43 .45	320 195 244	.07 .05 .06	ব্য ' ব্য ' ব্য '	1.61	.01 .01 .01	.06 .09 .09	<2 < <2 < <2 < <2 < <2 <	<.2 <.2 <.2	26 · 14 · 21 ·	<.3 <.3 <.3	<.2 : <.2 : <.2 :	5.1 3.6 4.2	<1 1 1 1
RE HA2N 950E HA2N 1000E HA2N 1050E HA2N 1100E HA2N 1100E HA2N 1150E	1.1 1.5 1.3	7.9 8.0 19.8 6.4 6.3	9.5 13.8 8.8	47.4 48.2 54.2 42.5 54.7	<30	23 29	9 10 6	272 377 267	2.77 2.86 2.15	2.4 4.7 9.3 5.2 4.7	<5 <5 <5	3 7 4	21 23 21 16 20	.05 .07 .06 .07 .09	.5 1.0 .5	.1 .2	49 41 37	.39 .31 .19	.067 .097 .018	16 31 17	30 27 18	.45 .44 .31	183 167 172	.06 .03 .03	3 ' <3 ' <3 '	1.57 1.17 1.04	.01 .01 .01	.07 .14 .07	<2 < <2 < <2 < <2 < <2 <	<.2 <.2 <.2	20 · 30 22 ·	<.3 _4 <.3	<.2 <.2 <.2	4.7 3.2 3.5	<1 <1
HA2N 1200E HA2N 1250E HA2N 1300E HA2N 1350E HA2N 1400E	1.7 1.2 1.1	17.8 8.8 6.4	22.9 10.8 9.7		50 76 50		9 8 9	383 350 338	3.05 2.84 2.86	38.3 39.1 5.8 3.0 5.4	<5 <5 <5	6 4	21	. 12 . 14 . 11 . 13 . 33	1.2 .6 .4	.4 .2 .1	37 49 52	.22 .27 .22	.046 .067 .036	20 24 16 14 18	20 28 28	.41 .45	239 248 275	.02 .06 .07	3 <3 <3	1.23 1.57 1.56	.01 .01 .01	.11 .06 .07	<2 <2 <2 <2 <2 <2 <2	.2 <.2 <.2	36 29 - 29 -	.5 <.3 <.3	<.2 <.2 <.2	3.1 5.6 5.1	<1 1
HA2N 1450E HA2N 1500E HA2N 1550E HA2N 1550E STANDARD D2/	1.1 1.3	4.9	8.2 12.0 11.0	74.8 72.8 54.5 51.3 284.8	109 246 30	21 21	10 7 7	342 257 153	3.45 1.98 3.09	9.1 4.1 32.6 3.7 76.9	<5 <5 <5	4 4 3	29 121 17	.21 .08 .35 .09 2.15	.4 1.2 .4	.1 .4 .3	54 28 52	.39 5.00 .25	.072 .066 .044	17 15 13	35 16 28	.59 .68 .34	241 195 208	.13 .01 .07	<3 2 3 <3 2	2.11 .89 1.44	.02 .02 .01	.05 .09 .06	<2 < <2 < <2 < <2 < 20 2	<.2 <.2 <,2	35 65 42	.4 1.0 <.3	<.2 <.2 <.2	6.6 2.5 5.8	<1 2 <1

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ADE ANUITICA	С			Ti	zard	i Ex	mp1	.orat	io	ns	Inc	:.	PR	OJE	CT	KE:	ГСН	IKA	F	ILI	3 #	97	7-4	337	7				P	age	(2 :	5			k Dal
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni (ppm pp			Fe %	As ppm p	U opm p			Cd ppm			V ppm	Ca X		La ppm 1				Ti % ;					W ppm				Te ppm p		
HA3N 400E HA3N 450E HA3N 500E HA3N 550E HA3N 600E	1.1 .6 1.0 .8 .7	5.8 7.6 7.2 7.5 5.2	6.5 6.5 7.9	95.7 45.9 40.1 50.2 41.0	33 <30 62 51 37	18 18 20	8 7 8	447 2. 292 2. 279 2. 266 2. 250 2.	35 37 57	2.7	<5 <5	2	22 21 22	.17 .07 .03 .08 .05		<.1 .1	42 45 47	.28 .24 .27	.109 .033 .020 .026 .017	11 10 10	26 28 29	.45 .49 .45	141 150 182	.07 .07 .07 .09 .06	ব্ব 1 ব্ব 1 ব্ব 1	1.11 1.18 1.33	.01 .01 .01	.10 .06 .08	<2 <2 <2	.2 <.2 <.2	<10 14 25	<.3 <.3 <.3	<.2 2 <.2 4 <.2 4	3.8 4.0 4.6	<1 5
HA3N 650E HA3N 700E HA3N 750E HA3N 800E HA3N 850E	1.3	13.1 8.3		50.1 75.4	167 72 90	28 2 21 28	27 8 10	216 2. 555 4. 269 2. 452 3. 693 2.	08 47 04	3.2 2.4 8.5 3.5 2.8	<5 <5	4 4 3	27 16 22			1.9	46 34 50	.27 .22 .28	.019 .058 .039 .077 .082	16 22 10	26 19 30	.36 .30 .47	251 276 250	.03 .01 .09	ଏ ମ ସ ସ	1.55	.01 .01 .01	.08 .09 .09	<2 <2 <2	<.2 .2 <.2	15 22 10	<.3 .8 <.3	<.2 5 <.2 5 <.2 6	5.3 3.4 6.0	1 6
HA3N 900E HA3N 950E HA3N 1000E RE HA3N 1000E HA3N 1050E	.9 1.2 1.1 1.0 1.3	6.4 7.3 6.9 6.3 6.1	9.0 9.7 9.2	63.1 66.7 42.4 40.5 47.6	<30	19 12 11	8 6 6	297 2. 340 2. 194 1. 182 1. 208 2.	55 96 91	2.0 2.2 4.6 4.7 6.0	<5 <5 <5	<2 3 3	16 15 15		.3 .4	.1 .1 .1	47 32 31	.20 .18 .18	.029 .031 .035 .034 .026	12 17 16	24 18 16	.38 .26 .26	244 192 185	.01	ও ও ও ও	1.46 .86< .83<	.01 -01 -01	.05 .07 .07	<2 <2 <2	<.2 <.2 <.2	17 13 <10	<.3 <.3 <.3	<.2 ! <.2 :	5.6 3.0 2.9	<1
HA3N 1100E HA3N 1150E HA3N 1200E HA3N 1250E HA3N 1300E	.9 1.0 1.0 .8 1.0	4.7 8.1 4.9 8.8 11.2	9.1 9.1 10.5	30.2 46.7 26.5 119.1 45.4	<30 <30 52	20 11 23	8 5 8	138 1. 249 2. 153 1. 448 2. 180 2.	49 94 57	2.3 3.4 4.2 2.7 4.3	<5 <5 <5	4 3 4	17 12 21	.02 .04 .03 .23 .03	.3	.1 <.1 .1	43 30 38	.21 .14 .26	.023 .025 .029 .070 .042	14 17 14	25 15 23	.40 .24 .37	205 180 280	.01 .05	<3 <3 3	1.32 .73< 1.34	.01 -01 .01	.06 .05 .12	<2 <2 <2	<.2 <.2 <.2	<10 14 16	<.3 <.3 <.3	<.2 <.2 <.2 <.2 <.2 <.2	4.4 2.5 4.4	1 <1 1
HA3N 1350E HA3N 1400E HA3N 1450E HA3N 1500E HA3N 1550E			12.1 12.2 8.6		105 69	27	8 9 6	817 2. 449 2. 318 2. 407 2. 499 2.	69 78 07	1.7 7.6 12.0 1.2 3.8	<5 <5	3 5 2	29 18	.13 .12 .06 .10 .11	.7 .7	.1 .2 .1	35 36 42	.37 .54 .26	.044 .067 .071 .027 .059	22 26 10	22 24 21	.30	171 188 194	.04 .03 .04	<3 <3 <3	1.01 1.16 1.10	.01 .01 .01	.09 .11 .04	<2 <2 <2	<.2 <.2 <.2	40 30 14	.3 .3 <.3	<.2 <.2 <.2 <.2 <.2	3.5 3.5 4.8	18 1 2
HA3N 1600E HA3N 1650E HA3N 1700E HA3N 1750E HA3N 1800E	.6 .9 1.2	11.1 7.6 19.9 11.1 10.9	8.4 6.4 1.5	53.8 57.6 54.7 8.9 51.2	68 403 86	5	9 7 - 3 -	392 2. 314 2. 1052 1. 1750 . 154 2.	.61 .57 .46	4.5 3.6 3.3 .8 6.0	<5 6 5	3 <2 3	22 153 310	.13 1.49	.3 .4 .8	.1 <.1 <.1	45 21 : 5	.34 3.39 6.56	.035 .025 .085 .081 .019	13 9 1	26 15 3	.46 .89	257 613 410•	.07 .03 <.01	<3 12 21	1.40 .86 .15	.01 .01 .02	.06 .05 .02	<2 <2 <2	<.2 <.2	27 40 39	<.3 3.1 15.4	<.2 <.2 <.2 <.2 <.2	5.0 3.1 1.4	1
HA3N 1850E HA3N 1900E HA3N 1950E HA3N 2000E STANDARD D2/H	.6 1.1 7	8.4	5.7 8.3 8.6	72.1 62.4 40.7 48.4 277.0	93 <30 74	12 18 17	6 ' 6 7	1448 4. 1311 2. 154 2. 213 2. 1052 4.	.46 .44 .42	33.6 3.4 1.9	<5 <5 <5	3 <2 2	199 19 19	.38 .03 .07	.3 .3 .2	.2 <.1 .1	12 42 38	7.18 26. 28.	.032	6 10 11	9 26 24	.55 .41 .39	221 160 157	.07 .06	9 <3 <3	.51 1.42 1.26	.01 .01 .01	.07 .05 .08	<2 <2 <2	<.2 <.2 <.2	43 17 13	3.3 <.3 <.3	<.2 <.2 <.2 <.2 1.8	2.2 5.5 4.8	1 1 <1

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Tizard Explorations Inc. PROJECT KETCHIKA FILE # 97-4337														I	?ag	e 2	C 4	ACHE	AA LL DIE ANALYTICAL																
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	-	Ni ppm p		Mn ppm		As ppm j						Bi ppm		Ca %		La ppm				Ti % p							Hg ppb p				
B1E 100N B1E 50N B1E 0N B2E 500N B2E 450N	2.5 1.1 1.3 1.0 1.1	5.7 9.1 7.8 6.6 7.9	9.6 10.0 11.1	41.1 62.1 57.5 77.1 67.5	33 67 38	24 21 23	9 9 9	288 2 469 2 340 2 224 3 213 3	.66 .64 .21	2.8 2.8 3.0	<5 12 <5	23425	20 21 17 19 19	.16	.2 :4 .3	.1 .1 .1	46 44 57	.38 .21 .21	.06 .087 .083 .038 .041	11 11 12	27 28 32	.45 .40 .47	429 169 191	.08 .07 .10		1.51 1.24 1.82	.01 .01 .01	.08 .11 .05	<2 <2 <2	<.2 <.2 <.2	57 < 26 < 24 < 23 < 27 <		.25. .24. .26.	.2 .3 .6	3 2 1 1 2
B2E 400N B2E 350N B2E 300N B2E 250N B2E 200N		7.7 6.8	11.0 9.8 11.3	69.4 67.7 59.7 83.6 63.1	<30 37 39	27 24 22	9 9 10	274 3 282 3 243 2 344 2 187 2	.16 .97 .66	2.8 3.9 3.6	<5 6 9 <5 12	3 3 3	23 20	.20 .11 .21 .23 .11		.1 .1 .3	55 53 49	.26 .27 .18	088 044 042 082 082	12 13 14	32 31 30	-49 -46 -41	254 268 285	.11 .08 .07	<3 <3 <3	1.91 1.52 1.42	.01 .01 .01	.06 .08 .06	<2 <2 <2	<.2 <.2 .2	<10 <	3 < 3 < 3 <	.2 6. .2 5. .2 5.	.9 .0 < .4 <	<1
182E 150N 18 GB2E 150N 182E 100N 182E 50N 182E 50N			12.1 10.6 8.6	95.0 92.8 43.0 45.4 50.4	43 <30	28 19	9 5 7	249 3 247 3 118 2 158 2 186 2	.29 .10 .37	5.5 2.5 3.8	<5 <5 11 <5 5	22777	17 17	.25 .28 .03 .08 .10	.5 .5 .2 .4 .3	.1	55 38 43	.25 .74 .15	.058 .058 .062 .020 .017	11 13 12	29 25 26	.43 .46 .42	283 121 177	80. 20.	<3 ' <3 ' <3 '	1.78 1.16 1.21	.01 .01 .01	.06 .06 .04	<2 <2 <2	<.2 <.2 <.2	111 33 21 170 < 14 <	.3 < .3 < .3 <	.27. .24. .24.	.8 .2 .0	2 2 2 2 2 2 2
B3E 500N B3E 450N B3E 400N B3E 350N B3E 300N	1.2 2.1 .6	10.2	11.5 11.9 9.8	47.5 41.7 68.8 41.4 40.3		22 24 25	6 8 8	167 2 114 2 220 2 165 2 114 1	.45 .78 .64	4.2 4.5 3.7	<5 <5 11	3 3 5	18 18 22	.08 .11 .17 .06 .07		<.1 <.1 <.1 <.1 .1	44 48 47	20 21 .27	.023 .029 .040 .042 .031	14 12 20	24 26 30	.28 .29 .52	250 344 222	-03 06 106	<3 <3 <3	1.31 1.56 1.43	.01 .01 .01	.04 .04 .05	<2 2 <2	<.2 .2 <.2	239 < 36 < 20 <	.3 < .3 < .3 <	.23. .25.	.8 .6 .4	1 1 2 1
B3E 2501 B3E 200N B3E 150N B3E 100N B3E 100N B3E 50N	.9 1.0	8.6 11.9 18.0 8.2 6.8	9.9 9.6 7.5 7.4	48.5 45.4 53.0 62.5 53.3	41 <30 46 <30	25 34 20 18	9 10 8 7	210 2 240 2 264 2 292 2 193 2	.64 .71 .55 .36	5.0 4.9 2.3 2.2	<5 <5 11	5 4 4 <2	16 18	.07	.5 .5 .2 .2	.1 .1 .1 <.1	42 41 48 49	.32 .29 .17 .19	.030 .046 .052 .052 .023	14 17 11 9	29 35 28 24	.54 .59 .40 .43	203 241 207 217	.06 .06 .07 .06	<3 <3 <3 <3	1.27 1.27 1.56 1.43	.01 .01 .01 .01	.06 .06 .06 .04	<2 <2 <2 <2 <2	<.2 <.2 <.2 <.2	<10 < 58 < 14 < €10 <	.3 < .3 < .3 < .3 <	.2 3 .2 3 .2 5 .2 5	.6 .6 .9	1 4 3 1 1
R <u>3e</u> (M) 1A3N OE 1A3N 50E 1A3N 100E 1A3N 150E	2.0 1.0		9.2	87 k 61.4 54.3 120.5 63.3	33 84 213		6 7 10	332 2 332 2 190 2 871 3 353 2	.33 .19 .18	7.0 8.6 1.7	7 <5 <5 <5	3 3 2	19 16 24	.22 .08 .21	1.0 1.3 .3	<.1 .1	37 27 46	. 16 . 13 . 32	.070 .035 .033 .140 .093	14 15 14	14 12 29	.22 .18 .37	236 155 404	.01 .01 .07	<3 <3 <3	.80< .59< 1.56	<.01 <.01 .01	.07 .05 .13	<2 <2 <2	<.2 <.2 <.2	<10 < 22 19 <	.3 < .4 < .3 <	.2 3.	.0 < .9 .3	<1 1 1 2
143N 200E 143N 250E 143N 300E 143N 350E 15ANDARD D2/	.8 .9 1.3	14.1 5.4 8.6 17.7 131.7	9.3 6.6 11.5	47.9 71.4 45.2 49.2 282.3	117 48 94	24 19 24	9 7 9	336 1 850 2 284 2 272 2 064 4	.86 .48 .70	1.7 3.0 7.5	<5 11 <5	3 2 3	23 22 21	.16 .05 .04	.3 .5 .7	.1 <.1 <.1	41 45 37	.27 .27 .26	.080 .127 .054 .081 .109	12 10 18	27 24 24	.36 .45 .32	549 306 160	.06 .04 .03	<3 <3 3	1.41 1.21 1.01	.01 .01 .01	.11 .06 .10	<2 <2 <2	<.2 <.2 <.2	<10 < 19	:.3 < :.3 < .4 <	.25. .23. .23.	.1 .9 .3 <	

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852 E. Hastings SI, Vancouver, B.C. Calidad VoA 186 Phone: (604) 253-3158 Fax: (604) 253-1716 Toll Free: 1-800-990-ACME E-Mail: acme_labs@minklink.bc.ca

METHOD FOR WET GEOCHEM GOLD ANALYSIS

Sample Preparation

Soils and sediments are dried(60 deg. C) and sieve to -80 mesh.

Rocks and cores are crushed and pulverized to -100 mesh.

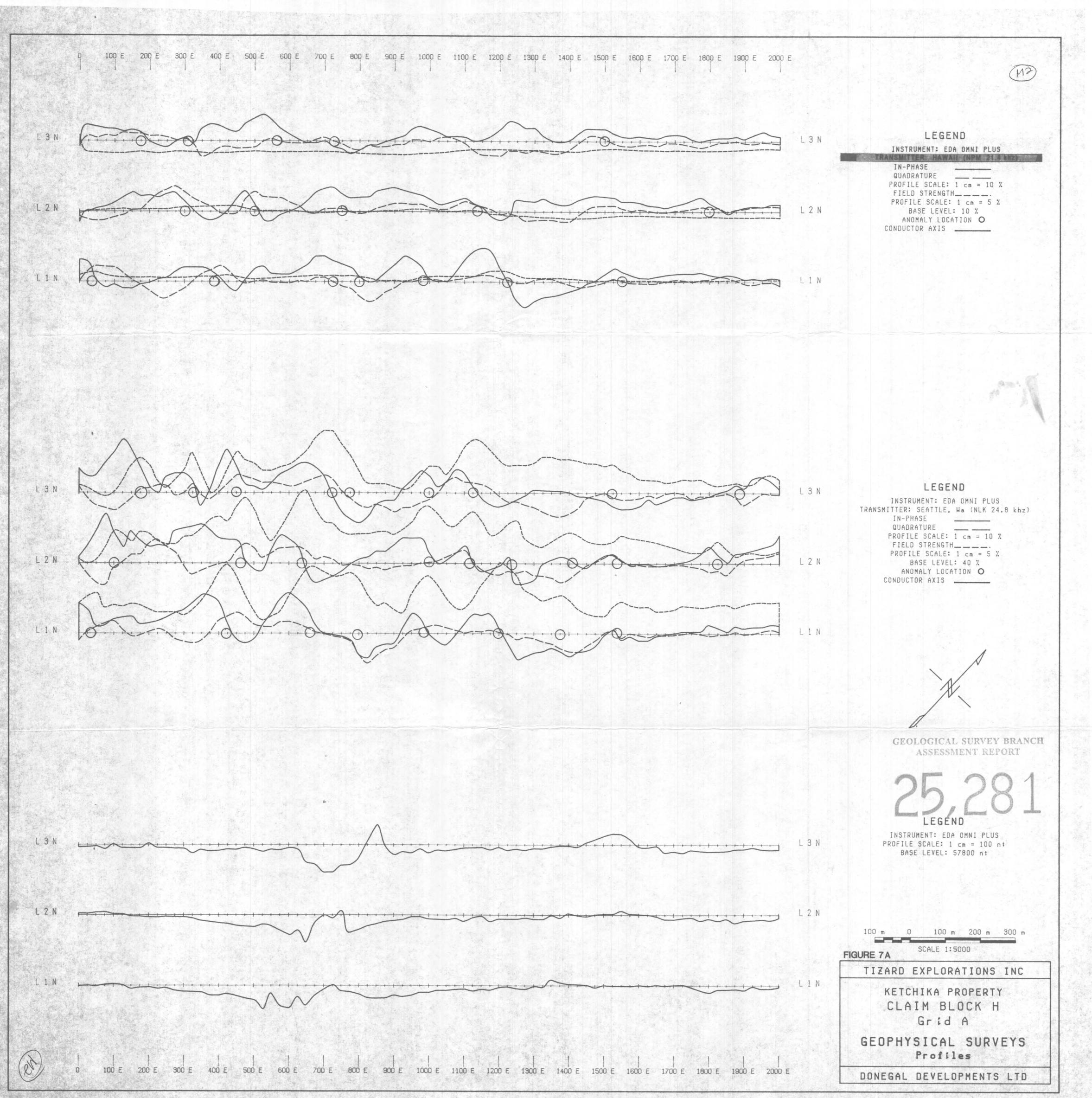
Sample digestion

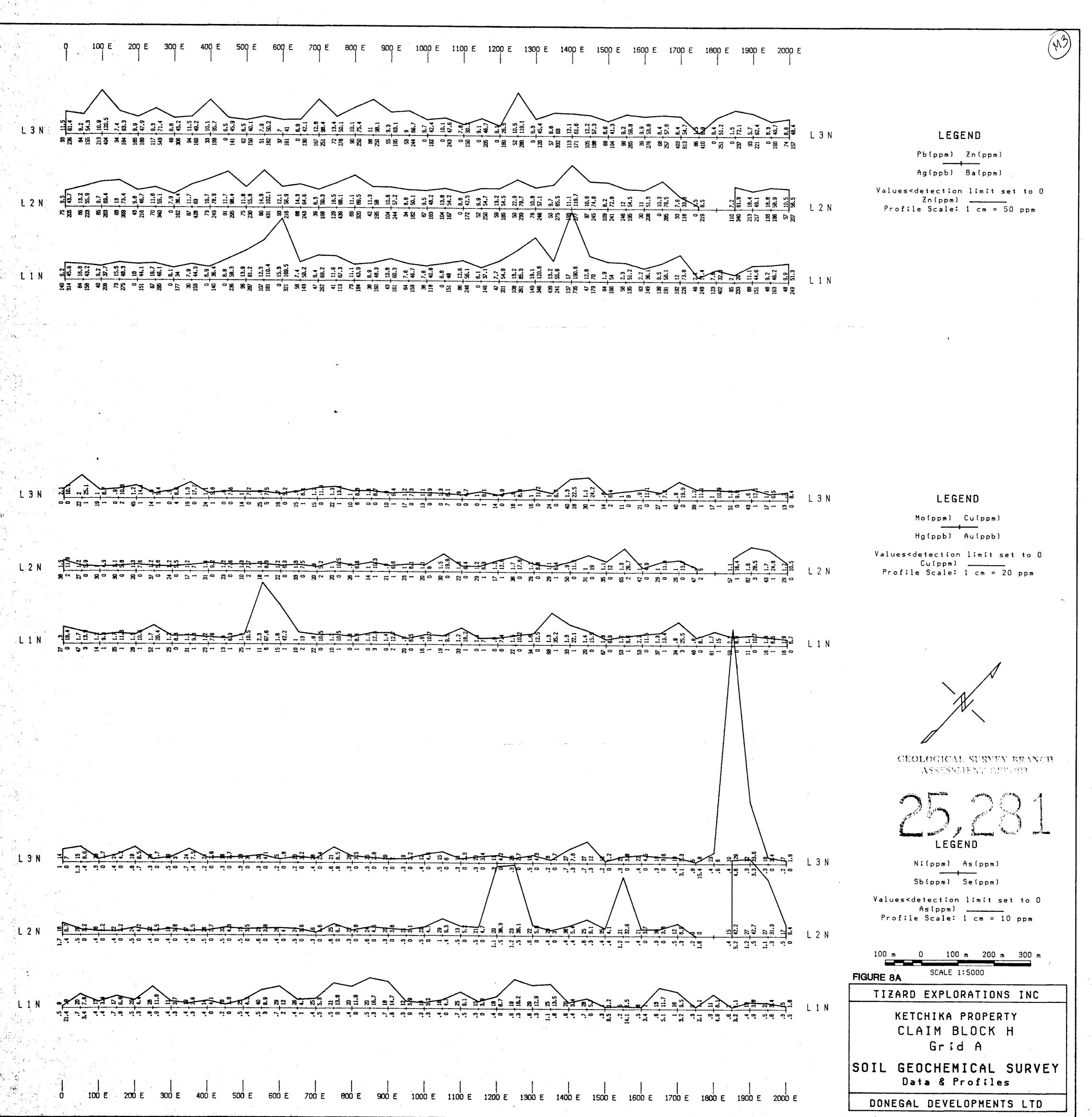
- 1. 10g samples in 250 ml beaker, ignite at 600 deg. C for four bours.
- 2. Add 40 ml of 3:1:2 mixture HCL:HNO3:H2O .
- 3. Cover beaker with lids.
- 4. Boil in hot water bath for one hour.
- 5. Swirl samples 2 to 3 times within the hour.
- 6. Cool, add 60 ml of distilled water and settle.
- 7. Pour 50 ml of leached solution using a graduated cylinder into 100ml volumetric flask.
- 8. Add 10 ml of MIBK and 25 ml of distilled water.
- 9. Shake 3 to 4 mins in shaker.
- 10. Add additional 25 ml of distilled water to stripe out excess iron.
- 11. Shake each flask 10 times.
- 12. Pour MIBK into container for graphite AA finished.

	0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E 1900 E 2000 E	(M)
L3N	$ \begin{array}{c} 1 \\ 2.8 \\ -1.4 \\ 3.6 \\ -5.4 \\$	LEGEND INSTRUMENT: EDA OMNI PLUS TRANSMITTER: HAWAII (APM 21.4 MZ) IN-PHASE (%)
LZN	L 2 N 4.2 -2.7 4.1 $+3$ 2.4 $+1.7$ 4.1 $+3$ 2.4 $+1.7$ 4.1 $+3$ 2.4 $+1.7$ 4.1 $+3$ 2.4 $+1.7$ 4.1 $+3$ 2.4 $+1.7$ 4.1 $+1.2$ 3.6 $+5.7$ 4.7 $+1.8$ 5.6 $+1.7$ 4.8 $+.9$ 5.7 $+.6$ 5.7 $+.6$ 5.8 $+1.7$ 6.6 $+1.7$ 6.6 $+1.7$ 6.7 $+2.8$ 5.8 $+1.7$ 6.5 $+2.7$ 6.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.5 $+2.7$ 7.6 $+2.7$ 7.7 $+2.7$	QUADRATURE (%)
LIN	L I N L	
		GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT
LЗN	3.8 13.9 -7.1 1.1.3 -7.1 1.1.3 -7.1 1.1.3 -8.6 -17 -8.6 -17 -8.6 -17 -8.6 -17 -8.6 -17 -8.6 -17 -8.6 -17 -8.2 -2.4.1 -1.1 -1.1.1 1.1 -1.1.1 1.1 -1.1.1 1.1 -1.1.2 -1.2 -6.2 -1.3 -6.1 -1.4 -6.1 -1.4 -6.1 -1.4 -6.2 -1.4 -6.2 -1.4 -6.2 -1.5 -6.2 -1.6 -1.1.1 -1.1 -1.1.2 -1.2 -1.2.3 -1.3 -6.2 -1.4 -6.2 -1.5 -1.1.1 -1.1 -1.1.1 -1.1 -1.1.1 -1.1 -1.1.2 -1.5 -1.1.3	LEGEND INSTRUMENT: EDA OMNI PLUS TRANSMITTER: SEATTLE, Wa (NLK 24.8 khz)

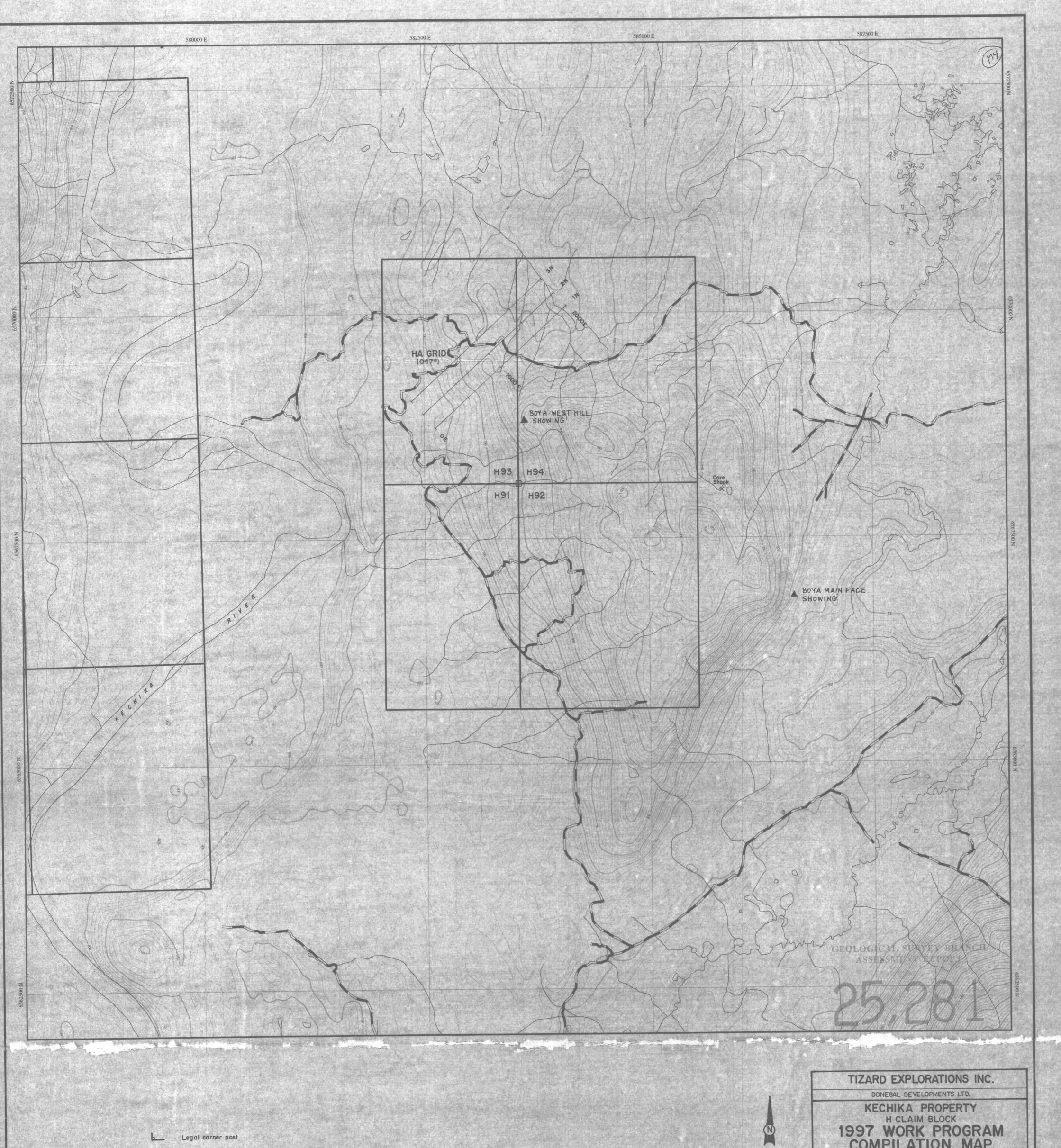
IN-PHASE (%)











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Star Barris

and the second second

1997 WORK PROGRAM COMPILATION MAP

