

REPORT ON PHASES I AND II
GEOLOGY AND GEOCHEMISTRY
HOLT PROPERTY (HOLT 1 TO 15)

NTS 92 B/12 and 92 B/13
48°43'N LATITUDE 123°51'W LONGITUDE
VICTORIA MINING DIVISION

FOR

NEXUS RESOURCE CORPORATION
GOLDENROD RESOURCES & TECHNOLOGY INC.

MAY 15, 1987

DALE A. SKETCHLEY, M.Sc MIKE H. GUNNING, B.Sc

PART 1 OF 4
GEOLOGICAL BRANCH
ASSESSMENT REPORT

VANCOUVER, B.C.

16,059

FILMED



Province of British Columbia Ministry of Energy, Mines and Petroleum Resources MINERAL RESOURCES DIVISION — TITLES BRANCH

MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

STATE THAT 1. I have done Record No. Situate at	s, or caused to be done, wo (s) 1626 to 16 NTS 92812 ne	687-7938 (Response Number) 296277 Which on the Holl 530(2) Ear Lois Lk., in the	# 1002 - 4 Vancouver (Postal Code) Valid subsisting F.M.C. No. t 1-5: "Lois Gr Total Units:	81 Victoria Mining Division,	50% 50% -8567 LRET XREC
2. The following		months in which such work is re	•	- · · • · · · · · · · · · · · · · · · ·	
	-	E APPROPRIATE SECTI		wing)	
A. PHYSICAL	(Trenches, open	cuts, adits, pits, shafts, reclama	ition, and construction of roads	and Irails.)	Į.
	(Give details as re	equired by section 13 of regulation	ons.)	COST	
					•

	· · · · · ·		TOTAL PHYSICAL		
		of physical work to the cla		y name and record number.)	
B. PROSPEC		t submitted as per section 9 of roost statement must be part of the		COST	
	•				
• • •		of this prospecting work to		r name and record number.}	
		(For C and O sections, o	ease turn fred t		

C.	DRILLING				ubmitted as p)		cost
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			(The itemi:	zed cost	ubmitted as po statement mu in space belo	ıst be part			ulations.)		
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					(Golde	nrod	Res	ources & Te	chno!	logy Inc. and
	was the oper financing)?	rator (prov	ided								
					Address				Howe St. B.C. V6C		
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orta	abie Asse	ssment	Credits	(PAC)	Withdrawal	Request	ŧ			1	AMOUNT
of v	be no more value of the mitted as as	approved ssessmen	work	1 2	Na	me of Own	ner/Opera	lor			
In C	and (or) D.	1		3							
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н		1626			units	_	ears		dentify each claim by na \$100/unit	=	\$ 4,000.00
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******	olt 3			18		2		e @		=	3,600.00
	olt 4	1629		20		2		<u> </u>	t1		4,000.00
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V					sessment cre				alaima t		\$16,200.00
	(way one	/ De Credit	eo irom in	e approv	red value of C	Na:		9 0 10 1	ciantis.		AMOUNT
ame	of.										
	or operator		1								
			2							· ·······	

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

JSIJ Signature of Applicant



Province of British Columbia Ministry of Energy, Mines and Petroleum Resources MINERAL RESOURCES DIVISION — TITLES BRANCH

MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

J.S.	Getsinger	Goldenro and Nexus Re Agent for *Guy Roye	source Cor	s & Technology poration /Inc
#301	- 409 Granville St.		75 Howe St	
Vanco	ouver, B.C.	Vancouve		
V6C	1T2 687-7938	V6C 1T2	6	82-8567
(Postal Code)	(*************************************	(Postel Code) Valid subsisting F.M.C. No.	Goldenrod Nexus Royer	296728 NEXRE
STATE THAT				
t. I have done, or cau	used to be done, work on the Holt 6 (Goldenrod 50%: Nexu	- 5091	er) "Holt	
Record No(s).	1631(2), 1632(2), 1633(2)			
	t Creek, NTS 92B/12 in the			
to the value of at le	\$ 16,200.00	dollars. Work was do	ne from the	15th day
	July 19 86 to the 2			
2. The following work	was done in the 12 months in which such work is re	quired to be done:		
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	(Give details as required by section 13 of regulation	ons.)	co	est
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		TOTAL PHYSICAL		
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PROSPECTING	(Details in report submitted as per section 9 of re			
	(The itemized cost statement must be part of the	в героп.)		ST
I wish to apply \$	of this prospecting work to	the claims listed below.		
(State number	of years to be applied to each claim, its month of re	cord, and identify each claim b	y name and record n	umber.)
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	and and the state of the state			

C. DRILLING					8 of regulati			COST
	(The Itemiz	red cost st	alement mus	i be pa	rt of the repor	rt.)		
			2500151					
D. GEOLOGI	CAL, GEOPHY				n 5, 6, or 7 of	requietion	•)	
	(The itemiz	ed cost st		t be par	rt of the repor		5.)	
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						TOTAL	OF C AND D	16,200.00
shafi		es of the A	SSESSMEN	TREPO	ORT TITLE P	AGE AND	neral Act Regulations, the SUMMARY form and in	iclude the completed
<u></u>				Gold	denrod	Resou	rces & Tech	nology Inc.
Who was the opera the financing)?	ator (provided						Corporation	
-					2 - 475			
				vane	couver	, B.C.	V6C 2B3	
								
Portable Asses	isment Credits (PAC) Wi	thdrawal F	leque:	5 <i>t</i>			AMOUNT
Amount to be without	irawn from owner(s)	or operate	or(s) account	(3):			}	
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May be no more the of value of the	•	1,			***************************************			
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in C and (or) D.]		3						
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			TOTAL OF 0	: AND	OR) D PLUS	PAC WIT	HDRAWAI	
								
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(State nun	nber of years to be	applied to	each claim, il	s monti	n of record, a	nd identify	each claim by name ar	nd record number.)
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Holt 7	1632(2)	20		2		@	11	4,000.00
Holt 8								. ,000.00
	1633(2)	20		2		@	11	4,000.00
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J. J. Signature of Applicant



Province of British Columbia Ministry of Energy, Mines and Petroleum Resources MINERAL RESOURCES DIVISION — TITLES BRANCH

MINERAL ACT

STATEMENT OF EXPLORATION	AND DEV	/ELOPMEI	VT Inc.
	Goldenrod	Resources &	Technology

#301 - 409 Granville St. 1002 - 475 Howe St. Vancouver, B.C. Vancouver, B.C.	J.S. Gets	inger	and Agent for .	*C D.	esource Con	
Vancouver, B.C. Coldenrod 295727 GOLR Rever 295092 TATE THAT 1. I have done, or caused to be done, work on the Bolt 10–13, 14*: "Holt West Group" Goldenrod 50%: Nexus 50% (*Royet) Claims Record Nots). 1635(2), 1636(2), 1637(2), 1638(2), 1832(2): Total Units 92 Situate at NTS 92b/12 & 92b/13 in the Victoria Making Division. to the value of at least 1840 doisters. Work was done from the 15th day of July 19 86, to the 20th day of February 19 87. 2. The following work was done in the 12 months in which such work is required to be done: (COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING) PHYSICAL (Tenches, open cuts, adits, pits, shalfs, reclamation, and construction of roads and traits) (Give details as required by section 13 of regulations.) (Give details as required by section 13 of regulations.) (COST PROSPECTING (Details in report submitted as per section 9 of regulations.) (The itermized cost statement must be part of the report.) COST I wish to apply \$		(Name)			475 Howe St	
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The following work was done in the 12 months in which such work is required to be done: (COMPLETE RAPPROPRIATE SECTION(S) A, B, C, D, FOLLOWING) PHYSICAL (Give details as required by section 13 of regulations.) (Give details as required by section 13 of regulations.) (Give details as required by section 13 of regulations.) (Sitain number of years to be applied to each claim, its month of record, and Identify sech claim by name and record number.) (COST PROSPECTING (Chetails in report submitted as per section 9 of regulations.) (COST I wish to apply \$		_				2-8567
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Goldenrod 50%: Nexus 50% (*Royet) Record Note: 1635(2), 1636(2), 1637(2), 1638(2), 1832(2): Total Units 92 Situate at NTS 928/12 & 928/13 in the Victoria Mining Division. To the value of at least \$18,400 dollars. Work was done from the 15th day of July 19.86, to the 20th day of February 19.87. 2. The following work was done in the 12 months in which such work is required to be done: [COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING] PHYSICAL (Tenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails) (Give datails as required by section 13 of regulations) (Give datails as required by section 13 of regulations) TOTAL PHYSICAL I wish to apply \$	TATE THAT				KOYEL	290093
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I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

JSS - CARROLLING

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SUMMARY

Exploration Phases I and II of the Holt property were conducted from September 23, 1986 to February 28, 1987. The Holt property consists of three groups: Lois Group (Holt 1 to 5 claims); Holt East Group (Holt 6 to 9 and 15 claims); Holt West Group (Holt 10 to 14 claims). Work consisted of prospecting, rock, stream sediment and soil sampling, and geological mapping (1:10,000 and 1:2,500).

The property is underlain predominantly by volcanic and sedimentary rocks of the Sicker Group exposed in a northwest-southeast trending syncline. Lesser amounts of Triassic Karmutsen Formation and Jurassic Bonanza Group volcanic rocks, Jurassic Island Intrusions and Cretaceous Nanaimo Group sedimentary rocks are present also.

The prospecting, rock sampling and regional geological mapping delineated three areas (A, B and C) that required additional work. Grid A was established over a stratigraphic interval of the Sicker Group that is favourable for volcanogenic massive sulphide type mineralization. Numerous float boulders and several outcrops of jasper associated with epidotized mafic volcanic rock were discovered in an area with pyritic black shale. In addition, an angular float boulder containing abundant pyrite in a siliceous matrix returned 15.09 g/tonne (0.440 oz/ton) Au and 11.2 ppm Ag.

Sampling of the "B" soil horizon on Grid A returned elevated Au, Ag, As and Ba values. Up to 300 ppb Au, 1.0 ppm Ag and 50 ppm As occur in localized zones related to pyritic black shales. Well-defined Ba anomalies of up to 1160 ppm are related to a green chert horizon that can be traced the full length of Grid A.



Grid B was established over an area of the Karmutsen Formation that contains several quartz-ankerite veins surrounded by well-developed carbonate alteration envelopes. One of these veins contains freibergite, malachite and azurite; it returned 3600.0 g/tonne (105.00 oz/ton) Ag and 150 ppb Au. The veins are several hundred metres from a small body of feldspar porphyry that is surrounded by carbonate altered rock, which returned 9.2 ppm Ag. On Grid B, "B" horizon soil sampling returned values of up to 88 ppm Ag and 490 ppm Cu that are related to the Ag-bearing vein.

Grid C was established over an area of the Sicker Group that contains a chalcopyrite-bearing shear zone which returned 3.16% Cu, 490 ppb Au and 10.4 ppm Ag. Sampling of the "B" soil horizon on Grid C did not return any significant values.





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1. Holt Property Claim Information



INTRODUCTION

This report documents exploration Phases I and II conducted on the Holt property by MPH Consulting Limited at the request of Nexus Resource Corporation and Goldenrod Resources & Technology Inc. The Holt property consists of the Lois Group (Holt 1 to 5 claims), the Holt East Group (Holt 6 to 9 and 15 claims) and the Holt West Group (Holt 10 to 14 claims). The work was conducted from September 23, 1986 to February 28, 1987 under the supervision of Dale A. Sketchley, M.Sc. and M.H. Gunning, B.Sc. Work consisted of prospecting, rock, stream sediment and soil sampling and geological mapping.

The prospecting, rock and stream sediment sampling and geological mapping covered the Holt 1-15 claims (63.5 km^2) . Data is presented on two 1:10,000 scale topographic survey maps which cover 110 km². A total of 425 rock samples and 134 stream sediment samples was taken and analyzed for Au by AAS and an additional 30 elements by ICPS. Twenty of the rock samples were submitted for whole rock analysis; eleven for thin section interpretation.

Three flagged grids were established on areas requiring more work. Grid A, on the western half of the property, has an 8.6 km baseline and 45.5 km of grid lines. Grid B, on the eastern half of the property, comprises 8.05 km of grid lines and a 0.9 km baseline. Grid C, on the central portion of the property, has a 0.3 km baseline and 1 km of grid lines.

Geological mapping at a scale 1:2,500 was conducted on Grid A (45 $\,$ km 2) and Grid B (0.5 $\,$ km 2). Sampling of the "B" soil horizon was conducted on all grids. A total of 2692 samples was taken on Grid A; 321 on Grid B; 55 on Grid C.





Two trenches, 500 and 250 m in length, were excavated on Grid A. Both were geologically mapped at a scale of 1:500. A total of 39 rock samples was taken and analyzed for Au by AAS and an additional 30 elements by ICPS.



2.0 PROPERTY LOCATION, ACCESS AND TITLE

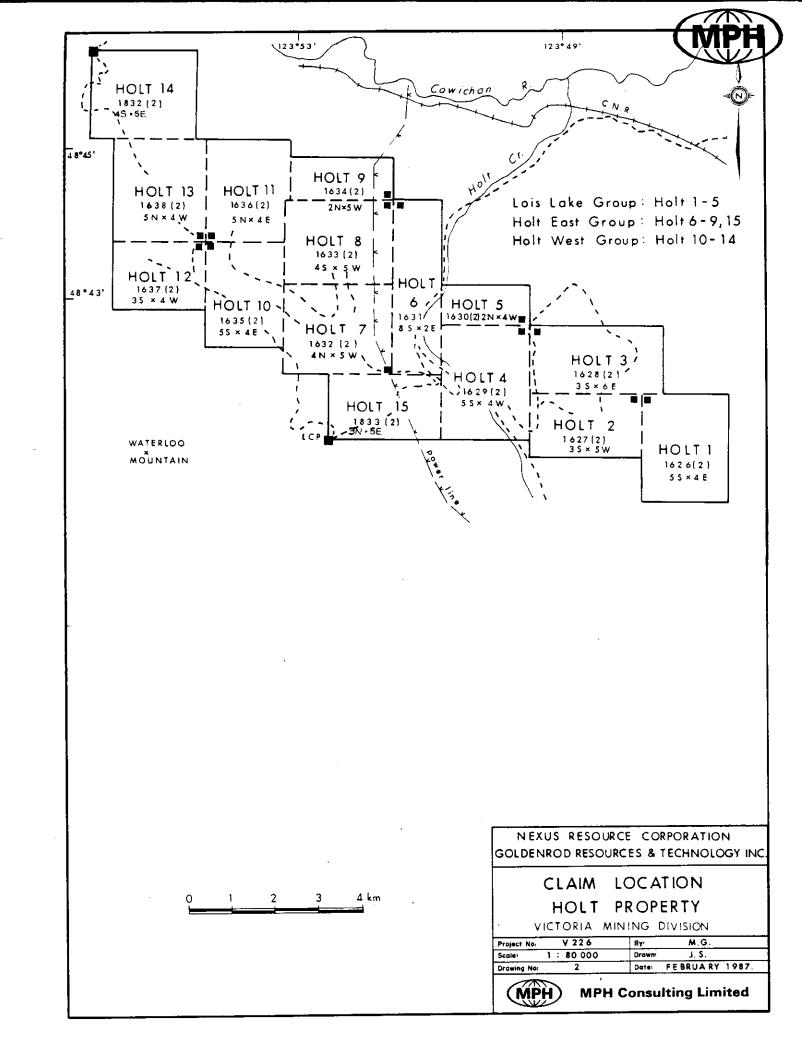
The Holt property is on Koksilah Ridge, 10 km southwest of Duncan, B.C. and is centered at approximately 48043' north latitude and 123°51' west longitude on NTS map sheets 92B/12 and 92B/13. property is in the Victoria Mining Division, in southeastern Vancouver Island, British Columbia (Fig. 1).

Topographic relief on the Holt property is about 600 m (200 to over 800 m above sea level). Approximately two thirds of the claims have been logged. The property is entirely within MacMillan Bloedel's Shawnigan Lake Division, which is within the area of the Esquimalt and Nanaimo Railway Land Grant.

Access to the Holt property is via MacMillan Bloedel's Shawnigan Lake Division main haul road from Duncan or numerous all-weather gravel roads from Duncan and Shawnigan Lake. Old logging roads suitable for 4WD vehicles provide access to all areas of the property.

The Holt property consists of Holt 1 to 15 claims, totalling 254 units, (Fig. 2). It was divided into three groups on February 20, 1987 by Notice to Group. Pertinent information is summarized in Table 1.





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Table 1. Holt Property Claim Information

Claim	Record	d No.	Units	Anniversa	ary l	Date	Year Registered
			LOIS GR	OUP			
Holt 1	1626	(2)	20	February	20,	1989	1986
Holt 2	1627	(2)	15	February	20,	1989	1986
Holt 3	1628	(2)	18	February	20,	1989	1986
Holt 4	1629	(2)	20	February	20,	1989	1986
Holt 5	1630	(2)	8	February	20,	1989	1986
			HOLT EAST	GROUP			
Holt 6	1631	(2)	16	February	20,	1989	1986
Holt 7	1632	(2)	20	February	20,	1989	1986
Holt 8	1633	(2)	20	February	20,	1989	1986
Holt 9	1634	(2)	10	February	20,	1989	1986
Holt 1	5 1833	(2)	15	February	12,	1990	1987
			HOLT WEST	GROUP			
Holt 1	0 1635	(2)	20	February	20,	1989	1986
Holt 1	1 1636	(2)	20	February	20,	1989	1986
Holt 1	2 1637	(2)	12	February	20,	1989	1986
Holt 1	3 1638	(2)	20	February	20,	1989	1986
Holt 1	4 1832	(2)	20	February	4.	1990	1987

All claims are owned by Nexus Resource Corporation (50%) and Goldenrod Resources & Technology Inc. (50%).



3.0 PREVIOUS WORK

Government geological work in the area has been performed by Clapp (1912 and 1917) and Muller (1977 and 1980a).

There is no previously known exploration work on the Holt property. However, it is adjacent to, and extends northwest along strike from, the King Solomon property, which has been extensively explored and produced from 1904 to 1916 (Neale and Hawkins, 1986).



4.0 REGIONAL GEOLOGY

The Duncan - Cowichan Lake area is underlain by a west-northwest trending belt of Paleozoic Sicker Group volcanic and sedimentary rocks with minor Triassic Karmutsen Formation mafic volcanic rocks; Jurassic Island Intrusions are locally common. Cretaceous Nanaimo Group sedimentary rocks are exposed east of Cowichan Lake. South of Cowichan Lake, extensive exposures of Early Jurassic Bonanza group mafic volcanic rocks occur, along with rocks of Karmutsen Formation, Upper Triassic Quatsino Formation and Island Intrusions (Fig. 3).

4.1 ROCK UNITS

Wark-Colquitz Gneiss Complex

Wark Gneiss (Unit 1) consists of irregularly foliated to massive biotite-hornblende diorite and quartz diorite, whereas Colquitz Gneiss (Unit 2) consists of well-foliated biotite-hornblende quartz diorite to granodiorite. The gneisses are interlayered locally. K-Ar dating indicates recrystallization of the gneisses is related to early Jurassic plutonism that produced the Island Intrusions. U-Pb dating of zircons suggests early Paleozoic or Precambrian rocks are the protoliths of the Wark and Colquitz Gneisses (Muller 1981).

The Wark-Colquitz Gneiss Complex is exposed in the vicinity of Victoria, where it appears to form the basement of the Insular Belt.

Sicker Group

Muller (1980a) proposed the following subdivision of Sicker Group rocks: Nitinat Formation, Myra Formation, Sediment-Sill Unit and





Buttle Lake Formation.

The Nitinat Formation (Unit 3) consists of mafic volcanic rocks, dominantly flow-breccias, with minor massive flows, and rare pillow basalt and agglomerate. Medium-grained, massive basaltic tuff is locally interbedded with the flows. Flow-breccia clasts contain uralite phenocrysts and black or white amygdules. Petrographic studies show that the uralite is replacing clinopyroxene. Uralitized gabbroic to dioritic rocks underlie and intrude the volcanic rocks; they are believed to represent coeval intrusions. The Nitinat Formation is distinguished from the Karmutsen Formation by a lack of pillow basalt, an abundance of uralite phenocrysts and a higher metamorphic grade.

The Myra Formation (Unit 4) overlies the Nitinat Formation, possibly with minor unconformity. The type locality of the Myra Formation is Myra Creek, at the south end of Buttle Lake, 160 km northwest of Duncan. The formation consists of volcaniclastic rocks composed of rhyodacitic or rhyolitic tuff, lapilli tuff and breccia, with minor quartz porphyry, mafic flows and argillite. Westmin Resources Ltd.'s Buttle Lake massive sulphide (Cu-Zn-Pb-Au-Ag) deposits (Myra, Lynx, Price and H-W) are hosted by the Myra Formation.

In the Nitinat-Cameron River area the Myra Formation comprises a lower massive to widely banded basaltic tuff and breccia unit, a middle thinly banded pelitic albite-trachyte tuff and argillite unit, and an upper thick-bedded, medium-grained albite-trachyte tuff and breccia unit.

North of Cowichan Lake, Fyles (1955) located a thick sequence of massive green volcanic rocks (Nitinat Formation), overlain by several metres of coarse breccia containing fragments of amygdaloidal volcanic rock and a "marker" unit composed of thin-



bedded, cherty tuffs. Overlying (?) the marker unit are grey to black feldspathic tuffs, argillaceous sedimentary rocks and minor breccias. Muller (1980a) correlates the marker unit with the lower unit of the Myra Formation, and the overlying tuffs and sedimentary rocks with the middle unit and probably the upper unit.

In the Mount Sicker area, the Myra Formation consists of well-bedded, felsic tuff and breccia interbedded with black argillite and minor greywacke. Breccia fragments are often epidotized. The rocks have been transformed to quartz-chlorite-sericite schist in steep isoclinal folds.

Muller (1980a) estimated the thickness of the Nitinat Formation at about 2000 m and that of the Myra Formation at 750 to 1000 m. Fyles' (1955) work indicates a thickness of at least 1500 m for the Nitinat Formation, and at least 1000 m for the Myra Formation in the Cowichan Lake area. Both the Nitinat and Myra Formations were dated as Devonian and/or older by Muller (1980a).

The Saltspring Intrusions (Unit 5) are fine- to medium-grained, light coloured meta-granite or granodiorite. Indistinct gneissic bands and agmatitic textures occur throughout. The Saltspring Intrusions are exposed mainly on Saltspring Island. They have gradational contacts with the Tyee Quartz Porphyry and are considered to be comagmatic with it. The Tyee Quartz Porphyry is a rhyolite, which occurs as crosscutting sills and flows (?) within the Myra Formation. Dating of the Saltspring Intrusions indicates a minimum age of late Silurian (Brandon et al 1986).

The Sediment-Sill Unit (Unit 6) encompasses sedimentary rocks, transitional from Myra Formation to Buttle Lake Formation, that contain abundant diabase and gabbro sills. The upper and lower contacts are poorly defined. Sedimentary rocks are bedded to



massive silicified or cherty argillite and siltstone. The sills are composed of a fine-grained greenish black rock that may contain feldspar phenocrysts up to 1 cm, commonly clustered in rosettes. The sedimentary rocks are Mississippian in age while the sills may represent feeders to Triassic Karmutsen Formation volcanic rocks.

The Buttle Lake Formation (Unit 7) consists of a basal green and maroon tuff and/or breccia overlain by coarse-grained crinoidal and calcarenitic limestone, fine-grained limestone with chert nodules and minor dolomitic limestone. Lesser amounts of argillite, siltstone, greywacke or chert may be present also.

Southeast of Lake Cowichan, the Buttle Lake Formation consists of laminated, calcareous grey siltstone, black argillite with lenses of coarse-grained calcarenite, minor bedded crinoidal limestone and lenses and nodules of chert.

The Buttle Lake Formation is up to 466 m thick. Its age, on the basis of fossil dating, appears to be Middle Pennsylvanian, but could possibly be as young as Early Permian (Muller 1980a; Brandon et al 1986).

Vancouver Group

Karmutsen Formation volcanic rocks (Unit 8) paraconformably overlie Buttle Lake Formation, forming the base of the Vancouver Group. They are the thickest and most widespread rocks on Vancouver Island. The formation consists of dark grey to black pillow basalt, massive basalt and pillow breccia. Flows are commonly aphanitic and amygdaloidal. Pillow basalt generally occurs near the base of the formation.



Karmutsen Formation rocks are generally relatively undeformed compared to Sicker Group rocks. They are dated as Upper Triassic and older.

Massive to bedded limestone of the Quatsino Formation (Unit 9) is widespread in the area south of Cowichan Lake. The limestone is black to dark grey and fine-grained to micro-cyrstalline. In the vicinity of intrusive rocks, coarse-grained marble is recognized. Most of the economic skarn deposits on Vancouver Island are hosted by Quatsino limestone. Fossils indicate an Upper Triassic age (Muller and Carson 1969).

The Parsons Bay Formation overlies Quatsino limestone, or locally, Karmutsen volcanic rocks. The Quatsino limestone is composed of interbedded calcareous black argillite and greywacke and sandy to shaly limestone. It is included within the Quatsino formation within the report map-area. The Quatsino and Parsons Bay Formations are considered to represent near and offshore basin facies, respectively, in the quiescent Karmutsen rift archipelago (Muller 1981).

Westcoast Complex

The Westcoast Complex (Unit 10) comprises a variety of plutonic and metamorphic mafic crystalline rocks, including amphibolite, diorite and quartz diorite with homogeneous, agmatitic or gneissic textures. Metamorphosed Karmutsen Formation and/or Sicker Group rocks grade locally into the complex and are probably its protolith. The mobilized granitoid portion of the complex is believed to be the source of the Island Intrusions and, indirectly, Bonanza Group volcanic rocks. (Muller 1981, 1982). Small bodies of recrystallized limestone (Unit 10a) found within the complex are probably derived from the Quatsino Formation and less so from the Buttle Lake Formation.



Bonanza Group

Bonanza Group (Unit 11) stratigraphy varies considerably as it represents several different eruptive centres of a volcanic arc. Dominant lithologies are basalt and rhyolite with minor andesite, dacite tuff and breccia intercalated with marine argillite and greywacke. South of Cowichan Lake, the Bonanza Group is comprised of dark brown, maroon and grey massive tuff, volcanic breccia, and massive or plagiophyric flows (Muller 1982). Bonanza Group volcanic rocks are considered to be extrusive equivalents of the Early Jurassic Island Intrusions.

Island Intrusions

Exposures of Island Intrusions (Unit 12) consisting mainly of quartz diorite and lesser biotite-hornblende granodiorite occur throughout the area, they are Middle to Upper Jurassic in age. Contacts with Sicker and Bonanza Group volcanic rocks are characterized by transitional zones of gneissic rocks and migmatite; contacts with Karmutsen Formation volcanic rocks are sharp and well-defined. Skarn zones are reported at the contact of Island Intrusion rocks with Quatsino Formation limestone and less so with Buttle Lake Formation limestone.

Nanaimo Group

Upper Cretaceous Nanaimo Group sedimentary rocks are scattered throughout the area. Extensive exposures occur in the Chemainus and Cowichan River valleys. The formations present comprise the basal portions of the group.

The **Comox Formation** (Unit 13) consists mainly of quartzofeld-spathic sandstone and lesser conglomerate. Numerous intercalations of carbonaceous and fossiliferous shale and coal



are characteristic.

The Haslam Formation (Unit 14) is characterized by massive to bedded fossiliferous sandy shale, siltstone and shaly sandstone.

The Extension-Protection Formation (Unit 15) consists of interbedded coarse clastic conglomerate, pebbly sandstone and arkosic sandstone. Minor shale and coal are reported.

4.2 STRUCTURE

Sicker Group volcanic and sedimentary rocks are exposed in the Buttle Lake Arch, Cowichan-Horne Lake Arch and Nanoose Uplift. These are north-northwesterly trending uplifts that are probably the oldest structural elements in southern Vancouver Island. Uplift occurred prior to the late Cretaceous and possibly the Mesozoic (Muller and Carson 1969).

Asymmetric southwest-verging anticlinal structures characterized by subvertical southwest limbs and moderately dipping northeast limbs are reported at Buttle Lake, the Cameron-Nitinat River area and north of Cowichan Lake. Intense shearing and metamorphism to chlorite-actinolite and chlorite-sericite schist occurs in steep, overturned folds. K-Ar dating indicates folding occurred in the Jurassic although circumstantial evidence for an earlier orogeny also exists. Overlying Buttle Lake Formation limestones are relatively undeformed except where they are thin.

Karmutsen Formation volcanic rocks locally conform to the attitude of underlying Myra and Buttle Lake Formations (Muller 1980a). Vancouver Group rocks are not as intensely folded; only gentle monoclinal and domal structures have been mapped.



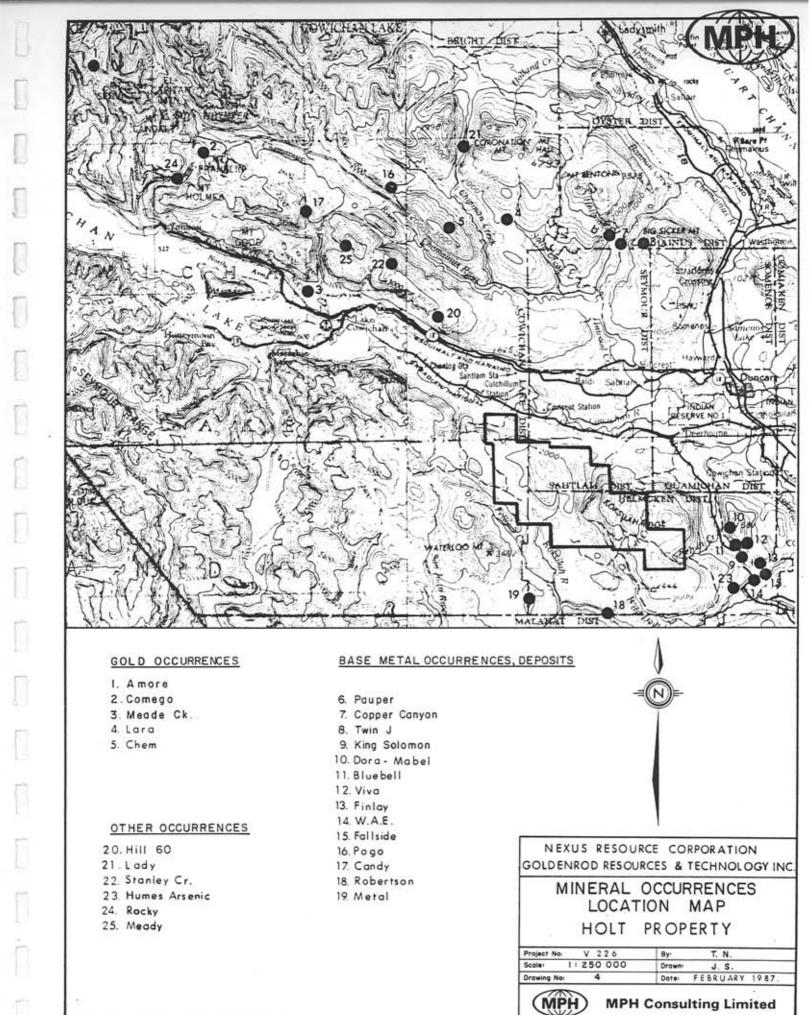
Early Mesozoic faulting occurred in the area prior to emplacement of Island Intrusions. Extensive west-northwest trending faulting occurred during the Tertiary; it is best illustrated by large displacements of Nanaimo Group sediments. Late northeasterly trending tear-faults offset the Tertiary faults in the Cowichan Valley and Saltspring Island area.

4.3 ECONOMIC SETTING

The Holt property is adjacent to, and extends northwest along strike from, the King Solomon property (Fig. 4). Production from the King Solomon, Viva and Bluebell Mines during the period 1904-1916 yielded about 900 tonnes of ore with recovery of at least 46,815 kg Cu and 12,069 g Ag (5.2% Cu, 13.4 g/tonne Ag). The deposits contain skarn type mineralization.

The Holt property is partly underlain by rocks of the Upper Paleozoic Sicker Group, which is host to the Buttle Lake, Thistle, Lara and Twin J volcanogenic massive sulphide deposits. Westmin Resources Ltd.'s Buttle Lake deposits contain total reserves of 14.74 million tonnes grading 5.43% Zn, 2.12% Cu, 2.40 g/tonne Au, 41.1 g/tonne Ag and 0.34% Pb (Walker 1983). The deposits, 160 km northwest of the Holt property, consist of massive sulphide mineralization hosted by pyritic rhyolitic to rhyodacitic volcanic and pyroclastic rocks of the Myra Formation of the Sicker Group.

Nexus Resources Corporation's Thistle Mine produced 6278 tonnes of ore yielding 85,844 g Au, 65,938 g Ag and 309,088 kg Cu from 1938 to 1942 (Neale 1984). The deposit, 70 km northwest of the Holt property, consists of disseminated and massive sulphide mineralization hosted by mafic volcanic rocks correlative with the Sediment-Sill Unit and/or Myra Formation of the Sicker Group.



Corporation Falconbridge Copper's Twin J Mine is 25 km north-northwest of the Holt Property (Fig. 4). The Twin J Mine produced 277,395 tonnes grading 7.5% Zn, 3.4% Cu, 5.14 g/tonne Au, 105 g/tonne Ag and minor Pb between 1898 and 1964. Present reserves are reported as 317,520 tonnes grading 6.6% Zn, 1.5% Cu, 4.11 g/tonne Au, 140.6 g/tonne Ag and 0.65% Pb (Neale 1984). Massive sulphide mineralization occurs in quartz-sericite schists correlative with the Myra Formation.

Nine kilometres northwest along strike from the Twin J Mine is Abermin Corporation's recently discovered Lara deposit (Fig. 4). A zone averaging 4.54% Zn, 0.79% Cu, 4.11 g/tonne Au, 92.6 g/tonne Ag and 0.83% Pb has been traced for 1500 m along depths averaging 150 m and over widths averaging 6.2 m. The mineralization is stratiform and is hosted by a rhyolite porphyry of the Sicker Group.

Mn-rich deposits, believed to be submarine exhalites associated with massive sulphide type mineralization, are locally common within Sicker Group rocks north and east of the Holt property.

Sicker Group rocks also contain high-grade gold-quartz veins and structurally controlled gold-bearing quartz-carbonate alteration zones. Recent work by Reward Resources Ltd. on the Yellow property and by Westmin Resources Ltd. on the Debbie property, 80 km northwest of the Holt property, have returned results of up to 48 g/tonne over 13.4 m. Grades of up to 105 g/tonne over 1 m have been returned from recent work by Corporation Falconbridge Copper on the Heather property, 50 km northwest of the Holt property.

Rocks underlying the Holt property may contain mineralization of the types found in other areas of the Sicker Group. The location of known mineral occurrences within the Sicker Group in the area that surrounds the Holt property is given in Figure 4.



5.0 1986/1987 PHASES I AND II EXPLORATION PROGRAM

Exploration phases I and II of the Holt property were conducted from September 23, 1986 to February 28, 1987. The purpose of this work was to evaluate the economic potential of an area underlain by Sicker Group rocks. Phases I and II consisted of prospecting, rock, stream sediment and soil sampling, and geological mapping. Prior to this work, only preliminary prospecting and rock sampling was done in conjunction with staking.

The prospecting, rock sampling and regional geological mapping delineated three areas (A, B and C) that required additional work. Area A contains volcanic stratigraphy favourable for stratiform polymetallic massive sulphide mineralization, where a Au-bearing (15.09 g/tonne = 0.440 oz/ton) float boulder was found; area B a Ag-bearing vein (3600.0 g/tonne = 105.00 oz/ton); area C a Cubearing shearing zone (3.16% Cu, 490 ppb Au).

Flagged grids were established in all areas prior to follow-up work, which was concentrated on area A (Figs. 5 and 6). On Grid A detailed geological mapping, soil sampling and trenching were completed. On Grid B, detailed geological mapping and soil sampling were completed; on Grid C only soil sampling was done.



5.1 PROPERTY GEOLOGY

The following description of property geology is based on geological mapping performed by MPH Consulting Limited personnel between September 1986 and February 1987. Property geology (1:10,000) is presented in Figures 7 and 8. Detailed mapping (1:2,500) on Grids A and B is presented in Figures 9 to 13.

The Holt property is underlain mostly by rocks of the Paleozoic Sicker Group exposed in a northwest-southeast trending syncline. Muller (1980a) mapped the Sicker Group rocks as the Sediment-Sill Unit. Rocks of the Triassic Karmutsen Formation (Vancouver Group) and Jurassic Bonanza Group underlie the southern portion of the claims where they are in fault contact with Sicker Group rocks. On the north side of the claims the Koksilah stock (Jurassic Island Intrusions) intrudes Sicker Group rocks. Cretaceous Nanaimo Group rocks also crop out on the north side of the claims where they unconformably overlie Sicker Group and Koksilah stock rocks.

Although glacial deposits cover most of the property, glaciated bedrock is close to surface and outcrop is locally abundant, especially on logging roads.

5.1.1. Rock Units

Sicker Group (Map Units 1 to 5)

Sicker Group rocks exposed on the Holt property are volcanic, volcaniclastic and sedimentary rocks that are subdivided into units correlated with: 1) Nitinat Formation, 2) Nitinat Formation to Myra Formation and/or Sediment-Sill Unit 3) Myra Formation, 4) Buttle Lake Formation and 5) diabase sills of the Sediment-Sill Unit (Muller 1980a). The diabase sills represent



feeders to Karmutsen Formation volcanic rocks.

Unit 1

Rocks correlated with Nitinat Formation (Unit 1) form a sequence of volcanic, volcaniclastic and minor sedimentary rocks. The unit crops out on the northeastern, north-central, and western portions of the claim group on the northeastern and southwestern limbs of the syncline. Best exposures are on logging road cuts or in logged areas.

Unit 1 is subdivided into six varieties that represent a transition from flows to volcaniclastic rocks, which generally fine upwards. The lowest part of the unit (la) is characterized by massive pyroxene porphyritic basalt. Dark green-black uralitized clinopyroxene phenocrysts (Muller 1980a), up to 1 cm in diameter in a medium green aphanitic to very fine-grained matrix, comprise 5 to 20% of the rock. A petrographic analysis was conducted on sample 4728 (Appendix III); whole rock analyses on samples 4727, 4728 and 4729 (Appendix V). Subunit la crops out in the northeastern and north-central parts of the claim group.

Thermal metamorphism of the pyroxene porphyry, adjacent to the Koksilah stock (Unit 8), has resulted in an amphibolite gneiss (1b). Within several hundred metres of the contact, mafic phenocrysts have been transformed into dark green-black lenses up to 1 cm thick by several centimetres in diameter that are set in a light green matrix. A sample of the amphibolite gneiss was submitted for petrographic analysis (4412; Appendix III). Up to 500 metres from the contact a weak foliation is present locally. Epidote veins and patches of pervasive epidotization are locally abundant. Subunit 1b is best observed in logging road cuts in the eastern portion of the claim group.



Massive lithic, crystal mafic lapilli tuff (lc) overlies the pyroxene porphyry. This subunit, which is locally agglomeratic, is composed of fragments of pyroxene crystals, and clasts of pyroxene porphyry and amygdaloidal mafic volcanic. Green chert lapilli and fragments of feldspar crystals are rarely observed. In the northeastern and north-central portion of the claim group, pyroxene crystals and pyroxene porphyritic clasts are more abundant, whereas in the western portion clasts of amygdaloidal mafic volcanic predominate. A petrographic analysis was conducted on samples 3409 and 4406 (Appendix III); whole rock analyses on samples 4724, 4725 and 4726 (Appendix V).

Feldspar porphyritic basalt (1d) was observed only in a road cut in northeast Holt 12 where it is associated with irregular masses of green chert, and bedded green chert, tuffaceous chert and mafic tuff. The rock is composed of five to ten percent white feldspar laths, up to 3 mm long, in a medium green aphanitic to very finegrained matrix. Feldspar porphyritic basalt is tentatively included in Unit 1 as it occurs in an area with outcrops of lapilli tuff. It probably represents a flow or coeval intrusion.

Massive, very fine- to fine-grained, medium to dark green mafic tuff (le) overlies the lapilli tuff. The nature of this unit is generally difficult to discern because of its massive and fine-grained character; however, occasional coarser lithic grains, poor bedding and chert beds are useful identifiers. Blocks of tuff of similar composition may be present locally. Samples 4719 and 4720 were submitted for whole rock analyses (Appendix III). Subunit le is best observed in the western portion of the claim group.

Bedded green chert, tuffaceous chert and mafic tuff (lf) are locally common within volcaniclastic rocks of Unit l. The chert generally weathers whitish whereas the tuff weathers dark green-brown. Beds are generally up to several centimetres thick but may



be locally thicker. The tuffaceous rocks are generally finegrained. Bedded cherts and tuffs were observed in the northwestern part of the claim group.

It is possible that some bedded rocks may belong to younger rock units that have been juxtaposed adjacent to Unit 1 rocks by faulting or folding.

Although contacts between subunits were not observed they are probably gradational for volcaniclastic rocks and sharp for volcanic rocks and intrusions. The thickness of the unit can only be crudely estimated. The base is unknown, there are probably many faults present and in addition no marker units. Bearing these uncertainties in mind, the thickness of exposed rocks is estimated to be about 500 to 1000 m. The thickest exposure is on the west-central portion of the claim.

Unit 2

Rocks correlated with the Nitinat to Myra Formation and/or Sediment-Sill Unit transition (Unit 2) are a sequence of volcanic, sedimentary and minor volcaniclastic rocks. The unit crops out in the west-central and southeast portions of the claims on the northeast and southwest limbs of the syncline. Best exposures are on logging roads, stream cuts and less so in logged areas.

Unit 2 is subdivided into nine varieties that represent textural and colour variations of a transition from volcanic to sedimentary rocks. The lower part of the unit is characterized by porphyritic (2a), amygdaloidal (2b), pillowed (2c) and massive (2d) basalt. More than one textural variety is generally present in any given locality.



Exposures are medium to dark green and weather medium to dark green-brown. Porphyritic varieties are characterized by pyroxene and/or feldspar phenocrysts, up to 3 mm in diameter in an aphanitic to fine-grained matrix, that comprises up to ten percent of the rock. Amygdaloidal varieties contain 5-20% dark green-black amygdules up to 1 cm in diameter. Weathered amygdaloidal rocks are conspicuously pockmarked.

Pillowed basalt is characterized by pillows about 0.5 to 0.75 m in diameter, with classical shapes; however, it is not uncommon to see larger lobate forms. Occasionally large pillow-like forms up to several metres in diameter are observed. Amygdules are generally common within pillows. In one locality, western Holt II claim, a zone of variolites occurs adjacent to pillow selvages. A sample of this rock was submitted for petrographic analysis (4717; Appendix III).

Epidotization and hematization are locally abundant in volcanic rocks of Unit 2, particularly where jasper is present. Epidotization occurs around fractures and as irregular pervasive patches. In pillowed basalt epidotization occurs in a wide zone adjacent to pillow selvages. In one locality, Holt 7 claim, epidotization is accompanied by malachite staining on fractures. Hematization is most abundant on and adjacent to fractures; less commonly it occurs pervasively throughout pillowed basalt.

Bedded to massive, fine-grained mafic tuff to massive lithic mafic lapilli tuff (2c) is also observed in Unit 2. This variety is uncommon and appears to be interbedded with the lower basalt and upper chert package.

The upper part of Unit 2 is characterized by bedded jasper (2f), green chert (2g), black argillite to chert (2h), rare chert breccia (2i) and limestone (2j). These rocks are interbedded with



and lie above the lower basalt package.

Jasper (2f) varies from a dull maroon to a bright red colour. The maroon varieties are generally homogenous, whereas the bright red varieties vary from homogeneous to heterogeneous. Heterogeneous varieties contain irregular blebs (1-5 mm) of bright red jasper in a duller red quartz-rich matrix (60% of rock) with up to ten percent specular hematite and minor magnetite. Jasper is commonly crosscut by randomly oriented quartz-veinlets that rarely contain pyrite, chalcopyrite and magnetite. Locally, pyrite and rarely chalcopyrite also occur in fractures. Jasper generally occurs as lenses up to 0.2 m by 1.0 m, irregular blobs tens of centimetres in diameter and uncommonly as beds up to several metres thick.

White to light green chert (2g) is transitional to and interbedded with jasper where it is commonly laminated. It also occurs as beds intercalated with basalt or interbedded with black argillite to chert.

Bedded to massive black argillite to chert (2h) are common in the upper part of Unit 2, forming a conspicuous marker horizon that helps to define the unit. These rocks weather white to rusty brown. Up to 15% pyrite is locally abundant as disseminations and less so as fracture fillings. Quartz veinlets, which may contain pyrite, are also locally common. A sample of pyritic black chert was submitted for petrographic analysis (9301; Appendix III).

Black argillite and green chert breccia (2i) are rarely observed in Unit 2. These rocks are generally highly weathered and crumbly making their original nature hard to discern. They are mottled with varying shades of brown-green to grey-black. Argillite and chert clasts up to 3 cm in diameter, comprising ten to fifty percent of the rock, are set in a matrix which appears to be rich in feldspar crystals(?).



Light grey, massive, fine-grained limestone (2j) occurs in the upper portion of Unit 2. It was observed in only one locality, adjacent to pervasively silicified tuffs, within Holt 7 claim.

Unit 2 is best exposed along a narrow belt trending northwest-southeast across the western part of the claim group where it forms part of the southwest limb of the syncline. Black argillite and chert also outcrop on the southeastern part of the claim group where they are part of the southern limb of the syncline.

Contacts between varieties are gradationally interbedded. The lower contact is not exposed but is probably fairly abrupt considering the change in rock types from Unit 1 to Unit 2 (volcaniclastic rocks to flows). The upper contact is probably gradationally interbedded considering the similar nature of Unit 3 and the upper part of Unit 2. The unit is estimated to be about 200 m thick.

Unit 3

Rocks correlated with Myra Formation are a sequence of well-bedded volcaniclastic rocks. The unit crops out on the east-central portion of the claim group where it forms the core of the syncline. Best exposures are in logged areas and road cuts.

Unit 3 is subdivided into three varieties that represent textural variations. The unit is characterized by light green weathering, well-bedded medium green chert, cherty tuff, and tuffaceous chert (3a) interbedded with massive to bedded, fine to coarse-grained medium green mafic tuff (3b). A petrographic analysis was conducted on sample 4415; (Appendix III); whole rock analysis on sample 4418 (Appendix V) of Unit 3b. Although these rock types are commonly interbedded either one may predominate in a given area. Beds of agglomeratic lapilli tuff, up to several metres



thick, characterized by blocks of pyroxene porphyry up to 75 cm in diameter, are rarely observed in Unit 3.

Thermal metamorphism of Unit 3, adjacent to the Koksilah stock, has resulted in an amphibolite gneiss (1c). Within several hundred metres of the contact, mafic tuffaceous layers are recrystallized, although bedding is preserved. Skarnification of individual layers is also locally common adjacent to the contact. Individual beds up to several centimetres thick and tens of centimetres long are altered to pink garnet surrounded by diopside. Narrow quartz veins (<3 mm) commonly occur in the core of these altered zones. A sample of this rock was submitted for petrographic analysis (3452; Appendix III).

Unit 3 is best exposed on the east central part of the claim group. The lower contact of Unit 3 is gradational with either Units 1 or 2. The upper part of the unit is not exposed. Thickness is estimated to be at least 500 metres.

Unit 4

Sedimentary rocks (Unit 4), correlated with Buttle Lake Formation, crop out in the southwest part of the claim group. Exposures are sparse, and restricted to logging road cuts.

Unit 4 is subdivided into grey limestone (4a) and black argillite to chert (4b). Grey limestone is rarely observed on the claim group but is very common to the northwest. It is massive to well-bedded and generally recrystallized. Crinoid columnals are generally abundant. Limestone occurs as thin beds within black argillite and chert or as massive outcrops. Black argillite to chert is generally well-bedded and commonly calcareous.



Unit 4 occurs as a fault-bounded wedge of rocks that trends northwest-southeast across the south western part of the claim group. Further to the northwest Unit 4 appears to be in conformable contact with underlying rock units of the Sicker Group. If this is so then the unit forms the southwestern limb of a northwest-southeast trending anticline that crosses Holt 13 claim.

Unit 5

Intrusive rocks (Unit 5) correlated with the Sediment-Sill Unit are composed of diabase (5b) and minor diorite (5a). The unit crops out extensively in the west-central portion of the claim group where it is interlayered with units 1 and 2. Outcrops are low and rounded and best exposed in logged areas and road cuts.

Diorite (5a) is generally massive, light green-grey and medium grained (1-3 mm). It is composed of approximately 70% plagioclase, commonly saussuritized, and 30% pyroxene, generally chloritized. Local areas are well-foliated, particularly adjacent to diabase. Whole rock analyses were conducted on samples 4713 and 4714 (Appendix V).

Irregular and unoriented syenite(?) dykes, mostly <1 cm but occasionally to 20 cm, are locally abundant. They are medium grained (1-3 mm) and composed of 50-90%, white to pink potassium(?) feldspar and 10-50% chloritized mafic minerals (hornblende?). Epidote veins, up to 1 cm, with narrow envelopes of epidotized diorite are locally abundant also.

Diorite forms irregular areas, less than ten metres in diameter, that are surrounded by diabase. Contacts are sharp and locally are crosscut by narrow irregular dykes of chilled diabase. The best exposures of diorite are in southeastern Holt 11 and western



Holt 6 claims.

Diabase (5a) weathers dark green to brown and is generally massive and fine-grained (<1 mm). Plagioclase phenocrysts, up to 2 mm long, are rarely observed. Contacts with enclosing rocks are generally marked by a narrow zone of foliated or chilled diabase. A petrographic analysis was conducted on sample 3456 (Appendix III); whole rock analyses on samples 4721, 4722 and 4723 (Appendix V).

Epidote veins up to 1 cm wide with narrow envelopes of epidotized rock are locally abundant. Epidotization also occurs as irregular patches up to 1 m in diameter. In some cases chalcopyrite, pyrite and quartz veining accompany the epidotization. It is not unusual to note malachite in and adjacent to quartz veins containing sulphides where there is no visible alteration.

Diabase occurs as a sequence of sills interlayered with sedimentary and volcanic rocks of Units 2 and 3. The sills are generally less than a few tens of metres thick; however, an extremely thick sill or several closely spaced sills, totalling at least several hundreds of metres thick, occupies the core of the major syncline that crosses the property.

Unit 6

Rocks correlated with the Karmutsen Formation (Unit 6) are a sequence of mafic volcanic rocks that crop out along the entire southern edge of the claim group. Outcrops are low, rounded and best exposed in logged areas and on road cuts.

Unit 6 is subdivided into three varieties, based on textural variations. The unit is characterized by massive (6a) and pillowed (6b) basalt with minor basaltic lapilli tuff (6c).



Pillowed basalt is probably more common than indicated as pillows are generally difficult to recognize in most outcrops. Samples 4715, 4716 and 4717 were submitted for whole rock analyses (Appendix V).

Fresh exposures are dark green-black and characteristically weather medium to dark orange brown. Rocks are generally aphanitic to fine-grained with locally abundant pyroxene phenocrysts up to several millimetres in diameter. In lapilli tuffs clasts dominate the rock, are generally irregular and less than 1 cm in diameter.

Pillowed basalt is characterized by irregular to well-formed pillows up to 1 m in diameter. Selvages are less than 1 cm thick. Interstices are lined with chlorite and filled with masses of quartz + chlorite, up to 30 cm in diameter.

Most outcrops are crosscut by calcite <u>+</u> quartz <u>+</u> hematite veins and irregular, discontinuous chlorite-filled fractures. Hematite coated fractures are also locally abundant. Epidote veins with associated alteration are rare.

On the southeast side of the claim group, Unit 6 is in fault contact with Units 1, 2, and 3. The contact between Unit 6 and Unit 4, on the southwest side of the claims, is not exposed.

Unit 7

Volcanic rocks correlated with the Bonanza Group (Unit 7) underlie a small area of the south-central part of the claim group (southeast Holt 4 claim). Exposures occur along road and stream cuts.



The unit is subdivided into two varieties; massive maroon feldspar porphyry (7a) and massive maroon to medium green agglomeratic lapilli tuff (7b). The feldspar porphyry contains 5-20% feldspar phenocrysts, up to 2 mm long, in an aphanitic to very fine-grained matrix. The agglomeratic lapilli tuff contains locally abundant blocks of feldspar porphyry, up to 30 cm in diameter, in a lapilli tuff matrix of similar composition. Hematization is variable yielding a mottled maroon and green colour. The contact with Unit 6 is not exposed; it may be a fault.

Unit 8

Unit 8 contains rocks belonging to the Island Intrusions that are represented by the Koksilah stock and related intrusions. The Koksilah stock crops out along a narrow belt on the northeastern edge of the claims. Outcrops are low, rounded and sometimes cliff forming, with best exposures in logged areas and on road cuts. Smaller intrusive bodies, tens of metres in diameter and associated with Koksilah stock, crop out throughout the claim group, but are most common closer to the stock.

Unit 8 is subdivided into three varieties that represent a transition from equigranular to porphyritic rocks. Most of the unit comprises quartz diorite (8a) that forms the Koksilah stock. Uncommon feldspar hornblende porphyritic quartz diorite (8b) is found within and adjacent to the stock. Feldspar hornblende porphyry (8c) occurs as irregular bodies away from the stock. Rare pink to white aplite dykes (8d) and narrow pegmatite veins crosscut the quartz diorite.

Quartz diorite (8a) is generally massive, light to medium grey, equigranular and medium-grained (1-5 mm). It is composed of 65-80% feldspar (dominantly plagioclase), 10-20% mafic minerals (chloritized hornblende \pm biotite \pm pyroxene), 10-15% quartz with



trace to 1% magnetite and accessory minerals. It is possible that potassic feldspar is locally more abundant implying some rocks are granodiorite. Sample 4710 was submitted for whole rock analysis (Appendix V).

Xenoliths, up to 30 cm in diameter are locally abundant near contacts. They are fine-grained (<1 mm) and composed mostly (80%) of mafic minerals with lesser feldspar.

Feldspar-hornblende porphyritic quartz diorite (8b) is generally massive and medium grey with medium-grained phenocrysts occurring in a fine-grained matrix. Rare xenoliths of quartz diorite are present. Feldspar phenocrysts are up to 4 mm in diameter and comprise 15-25% of the rock. Hornblende phenocrysts are of a similar size but comprise only 5%. Traces of magnetite and accessory minerals are present also.

Feldspar-hornblende porphyry (8c) is generally massive and medium grey to pink with medium-grained phenocrysts occurring in an aphanitic to very fine-grained matrix. Rare xenoliths of country rock are noted. Feldspar phenocrysts are up to 4 mm in diameter and comprise 15-25% of the rock. Hornblende phenocrysts are less abundant (<5%) and smaller (<2 mm). Quartz phenocrysts are rarely observed. Petrographic analyses were conducted on samples 4711 and 4712 (Appendix III).

Subunit 8c can be distinguished from subunit 8b by a finer-grained ground mass. Subunit 8b occurs within the Koksilah stock, near its margins, whereas subunit 8c is enclosed by Sicker Group, Karmutsen Formation and Bonanza Formation rocks.

Chlorite and epidote-filled fractures with envelopes up to 10 cm wide of saussuritized and/or argillic altered rock are locally abundant in quartz diorite. Potassic alteration occurring as



pervasive patches and envelopes around fractures is locally abundant in feldspar-hornblende porphyry and less so in quartz diorite. Disseminated pyrite is also locally abundant in feldspar-hornblende porphyry.

Contacts between varieties of Unit 8 and country rocks are sharp. Feldspar-hornblende porphyritic quartz diorite crosscuts quartz diorite. The relationship between feldspar-hornblende porphyry and quartz diorite / porphyritic quartz diorite is uncertain. The feldspar porphyry may be later or earlier.

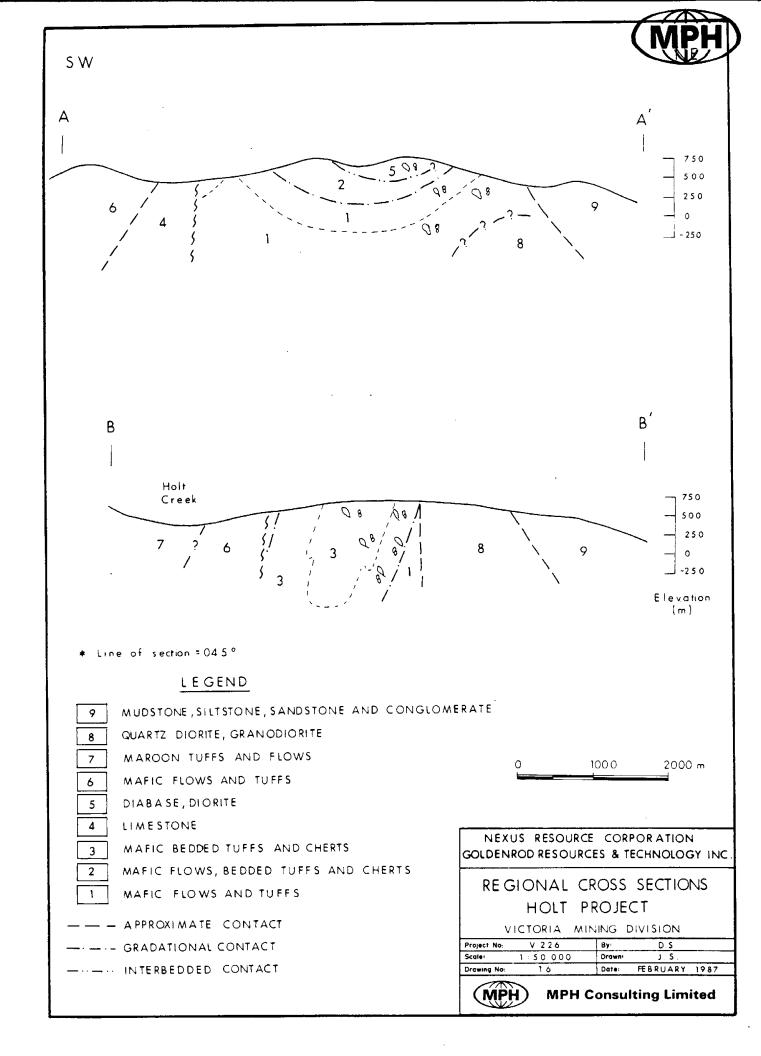
Unit 9

Unit 9 consists of sedimentary rocks correlated with the Cretaceous Nanaimo Group which unconformably overlies Unit 1 of the Sicker Group and Unit 8 (Koksilah stock). Unit 9 underlies a small area in the north-central portion of the claim group (northern Holt 6 and northeastern Holt 9 claims) where it is exposed on logging roads. The unit consists of an interbedded succession of mudstone, sandstone and conglomerate. Fossils are present locally.

5.1.2 Structure

At least two phases of folding are noted on the Holt property: Phase I folds are northwest-southeast trending with moderately northwest plunging fold axes whereas Phase 2 folds trend north-south with moderately north-plunging fold axes.

Phase 1 folding is dominated by a major syncline that crosses the property from northwest to southeast (Figs. 7 and 8). On the west half of the property the syncline is open (Fig. 16), and well-defined by bedding attitudes. However, on the east half of the property the syncline is poorly defined; it appears to be





overturned with a steeply southwest-dipping axial plane (Fig. 16). The syncline is inferred from the trace of Unit 2 black argillite and chert along the southeast edge of the property and bedding attitudes. A near vertical cleavage that parallels bedding is common. This suggests small scale isoclinal folding on the northeast limb of the syncline.

Phase I folding is also marked by a major anticline that is inferred to cross the western portion of the property parallel to the syncline. The structure is poorly defined, being inferred from bedding attitudes and the appearance of Unit 6 (younger rocks) to the west.

A major northwest-southeast trending fault is exposed along the southern portion of the property. It is inferred from discontinuous stratigraphy, topographic lows and on the east half of the property, a zone up to 500 m wide where shearing is commonly noted. On the southwest side of the property the fault juxtaposes Unit 5 against Units 1 and 2, whereas Unit 6 is juxtaposed against Unit 2 and 3 on the southeast side of the property (Fig. 16). Movement is dominantly dip slip with the southern block displaced down relative to the block underlying the Holt property.

A prominent airphoto linear trends southwest-northeast across the property, west of Holt Creek. No offset is noted along this linear; however, Trench l is in close proximity to it.



5.2 Geochemistry

5.2.1 Procedures

Samples collected for geochemical analyses are composed of rock, stream sediment or soil. Most rock samples are grabs obtained from outcrop; a few are from float. Stream sediment samples were obtained from material in active or dry stream beds. This material is generally a mixture of clay, silt and sand with minor organics. Soil samples are of "B" horizon material dug from a depth of 10 to 40 cm. This material is generally a reddish brown mixture of clay and silt with minor sand.

All samples were submitted to Rossbacher Laboratory Ltd., Burnaby, B.C. They were analyzed for Au by atomic absorption spectrometry (AAS), and a 30 element suite by Inductively Coupled Plasma Spectrometry (ICPS), after digestion with aqua regia. The ICPS analyses were done by Chemex Labs Ltd. prior to January 26, 1987 and by Acme Analytical Laboratories Ltd. after January 26, 1987. For samples analyzed by Chemex the 30 elements are: Al, Ag, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Mg, Mn, Mo, Na, Ni, P, Sb, Sr, Ti, Tl, U, V, W and Zn. Elements analyzed for by Acme included Au, Th and B, but exclude Be, Ga and Tl. Check analyses, using standard assaying procedures, were done on some samples with elevated Au, Ag and/or Pb values. Laboratory methods are given in Appendix IV; analyses in Appendix V.

5.2.2 Mineralization and Rock Geochemistry

Holt West Half

A total of 300 rock samples was taken on the west half of the Holt property (Fig. 17). Two hundred and two of these were in the Holt East Group; 98 in the Holt West Group. Thirty-nine of the rock



samples taken on the Holt East Group were obtained from Trenches #1 and #2. Mineralization accompanied by elevated analytical values is noted on Figure 7.

The most significant mineralization on the west half of the property is on Grid A near 10N/0E. This area is underlain by mafic volcanic rocks of Unit 2. Initial interest was caused by two angular, pyritic float boulders with elevated Au concentrations. Sample 4471 returned 15.09 g/tonne (0.440 oz/ton) Au, 11.2 ppm Ag, 256 ppm Pb and 182 ppm Zn; sample 8563 1140 ppb Au and 3.4 ppm Ag. Sample 4471 is intensely silicified and has a well-developed boxwork texture. Sample 8563 is a mafic volcanic rock with pyrite occurring as disseminations and in a band up to 3 cm wide. Trench #1 was dug in the area underlying the float boulders.

Another significant zone of mineralization occurs on Grid A near 3S/1E where rusty, black argillaceous chert crops out. The argillaceous chert contains 5-10% fine-grained pyrite along narrow fractures. Sample 14671 returned 7.2 ppm Ag; sample 14672 5.8 ppm Ag; sample 14673 4.8 ppm Ag. The argillaceous chert can be traced for 6 km along Grid A. It appears to lie within or near the top of bedded green chert found at top of Unit 2. Sample 4701 was taken from cherty argillite near 20N/0E; it returned 260 ppb Au, 1.0 ppm Ag, 132 ppm Cu, 44 ppm Pb and 125 ppm As.

Lenses of jasper occur sporadically throughout a well-defined horizon of dark green, commonly pillowed, basaltic flows of Unit 2. The jasper-bearing rocks can be followed for 8 km along Grid A. The jasper may contain fine-grained pyrite and rarely chalcopyrite. A chalcopyrite-bearing jasper lens in a road cut at 8N/6W returned 1.36% Cu and 170 ppb Au. It occurs in epidotized mafic volcanic rocks where malachite is locally common along fractures.



Disseminated to blebby chalcopyrite occurs in patches for 3 m along a 30 cm wide shear zone near 2+50N/0E on Grid C. The shear zone trends northwest-southeast and dips steeply west. It is exposed along a stream cut in massive mafic volcanic rocks of Unit 2. Sample 4454 returned 3.16% Cu, 490 ppb Au, 10.4 ppm Ag and 218 ppm Zn.

Several mineralized zones occur near or in diabase sills (Unit 5) within mafic volcanic rocks of Unit 2. The most significant of these occurs in a road cut on Holt II claim where a localized area of epidotized diabase contains disseminated to massive pyrite and chalcopyrite with traces of azurite. Sample 2736 returned 2.36% Cu, 110 ppb Au and 8.6 ppm Ag.

Other mineralized zones occurring near the diabase sills that returned elevated based and/or precious metal values commonly contain quartz-veins and/or silicified zones. On the Holt 11 claim five showings of this type were found. Sample 14941 from a quartz vein returned 4969 ppm Cu, 90 ppb Au and 5.6 ppm Cu. Sample 2805 from a silicified mafic tuff with quartz veins returned 900 ppb Au. Sample 14954 from a silicified zone with pyrite, malachite and azurite returned 3128 ppm Cu and 0.6 ppm Ag. Sample 4730 from a quartz-vein returned 188 ppm Cu. An epidotized zone nearby returned 260 ppb Au from sample 4732.

On the Holt 8 claim a quartz-vein returned 426 ppm Cu from sample 2722, 2265 ppm Cu and 1.2 ppm Ag from sample 2723 and 326 ppm Cu from sample 2724.

Localized gossans occur in several localities on the west half of the Holt property (northwestern Holt 9 and northern Holt 6 claims). They are related to zones of carbonate alteration in mafic volcanic rocks of Unit 1; however, they contain minor sulphide mineralization and did not return elevated base or



precious metal values.

Holt East Half

A total of 125 rock samples was taken on the east half of the Holt property in the Lois Group (Fig. 18). Mineralization accompanied by elevated analytical values is noted on Figure 8.

The most significant zone of mineralization on the east half of the property is associated with quartz/ankerite veins in mafic volcanic rocks of Unit 6 exposed in a road cut on Grid B at 2N/OE. Four vuggy quartz-ankerite veins, 10-30 cm wide and surrounded by carbonate alteration envelopes up to 0.5 m wide, trend north to northeast and dip moderately to steeply southeast. The southern most vein occurs in a 1 m wide clay gouge zone and contains disseminated to blebby freibergite with minor malachite and azurite. Sample 4477 returned 3600 g/tonne (105 oz/ton) Ag, 150 ppb Au, >9999 ppm Cu, 9530 ppm Sb, 2992 ppm Zn and 795 ppm As. Sample 4478 returned 20.4 ppm Ag, 264 ppm Cu, 182 ppm Zn, 32 ppm Pb, 25 ppm As and 20 ppb Sb. Several smaller quartz-ankerite veins occur near 2N/1+25E; however, they did not return any elevated base or precious metal values.

The veins are several hundred metres southeast of a small body of feldspar porphyry that is surrounded by carbonate altered rock. Sample 9302 was obtained from this zone; it returned 9.2 ppm Ag, 20 ppb Au and 196 ppm Cu.

Several quartz veins with pyrite and pyrrhotite were discovered in a road cut in southwestern Holt 5. Sample 4321 returned 250 ppm Cu.

A localized gossan was found in southern Holt 1. It is related to carbonate alteration; however, sulphide content is minimal.



Sample 3461 returned 18 ppm Pb and 152 ppm Zn.

Trenching

Two trenches were dug in the central portion of Grid A. Trench #1 is along line 10N and is about 500 m long, whereas Trench #2 is near 8N/0E and is about 250 m long (Figs. 7, 9, 10, 14 and 15).

Trench #1 was intended to follow-up the Au-bearing pyritic float boulders (samples 4471 and 8563) found near 10N/0E. A total of 35 rock samples was taken. Nine of these returned elevated Au values. These samples are: 14688 = 40 ppb Au; 14697 = 30 ppb Au; 14698 = 150 ppb Au; 14919 = 110 ppb Au; 14920 = 220 ppb Au; 14700 = 20 ppb Au. All of these samples are from a zone 40 m wide characterized by intensely silicified mafic volcanic rock with very fine-grained pyrite occurring as disseminations to 2 cm wide bands. Chalcopyrite was not observed.

A second 25 m wide zone of intensely silicified mafic volcanic rock was also found in the trench, but returned only a few slightly elevated Au values. These samples are: 14924 = 50 ppb Au; 14925 = 20 ppb Au; 14926 = 30 ppb Au.

Sulphide mineralization is generally confined to the two zones discussed. The host rock is dark grey to green amygdaloidal basaltic flows.

Trench #2 was intended to look for extensions to the mineralization in Trench #1. A total of four rock samples was taken; all returned elevated Au values. These samples are: 14942 = 60 ppb Au; 14943 = 50 ppb Au; 14947 = 1400 ppb Au; 14948 = 30 ppb Au. The samples are from a narrow zone of well-mineralized green to black chert and silicified basalt flows with 5-10% fine-grained, disseminated to blebby pyrite. The host rock is dark



grey to green amygdaloidal basalt flows with minor interbedded sections of basaltic tuff.

5.2.3 Stream Sediment Geochemistry

A total of 134 stream sediment samples was taken on the Holt property. Thirty-two of these are on the Holt West Group; 48 on the Holt East Group; 54 on the Lois Group. Three samples returned greater than 40 ppb Au. Sample 14731 was taken from a small stream in a well-forested area on Holt 1; it returned 110 ppb Au. Follow up work in this area is warranted. Sample 4343 was taken from a large stream draining a swampy area on Holt 4 claim. It returned 50 ppb Au. Sample 4312 was taken from a small stream on Holt 4 claim. The sample returned 50 ppb gold; rock sampling in the area did not produce any significant results.

5.2.4 Soil Geochemistry

Grid A

Grid A baseline is 8.6 km long with a bearing of 315°. A total of 86 flagged lines, 100 m apart, crosscut the baseline at 90°, extending up to 400 m northeast and 700 m southwest (Fig. 5). A total of 2692 "B" horizon soil samples was taken at 25 m intervals on 45.5 km of line. A total of 1568 samples are in the Holt East Group; 1124 in the Holt West Group. All samples were analyzed for Au by AAS and a 30 element suite by ICPS. Au/Ag data is presented in Figures 19, 21, 23 and 25; As/Ba data in Figures 20, 22, 24 and 26.

Threshold values and highlighted intervals for anomalous Au, Ag and As data have been visually estimated as most of the data is at detection limits. These values are:

Au: Threshold = 10 ppb First interval = 10-50 ppb Second interval = >50 ppb

Ag : Threshold = 0.4 ppm First interval = 0.4 ppm Second interval = >1.0 ppm

As: Threshold = 15 ppm First interval = >15 ppm

A statistical analysis of the Ba data is given in Appendix VI; this analysis was used to determine threshold values and contour intervals for plotting purposes. The threshold for anomalous Ba content in soils was chosen at the break between background and anomalous populations on a histogram with extremely anomalous samples removed. Contour intervals are defined as threshold plus one, two and three standard deviations of the truncated data set. These values are:

Ba: Threshold = 125 ppm
First contour = 195 ppm
Second contour = 265 ppm
Third contour = 335 ppm

Elevated Au concentration in the soils on Grid A is not significant. There are no well-defined zones; only isolated values of up to 300 ppb occur. Several slightly elevated Au values occur around lines 18 to 20N from 0 to 2W.

Elevated Ag and As concentrations in the soils on Grid A are also not appreciable. However, there are several zones where the soil contains up to 1.0 ppm Ag and 50 ppm As. These zones occur around lines 5 to 6S from 0 to 1W, lines 18 to 20N from 0 to 3W, lines 26



to 30N from 0 to 3W and on line 73N from 0 to 3E.

Geological mapping indicates the zones of elevated Au, Ag and As concentrations in soils are related to a pyritic black, argillite horizon in Unit 2.

Ba concentrations in the soils on Grid A typically range from 50 to 120 ppm. However, there is a linear zone on the southwest side of the grid, which extends along its entire length, where Ba concentrations range from 125 ppm to 1160 ppm. Areas where this trend is most pronounced are lines 9S to 11S, 1S to 3N, 16N to 20N, 26N to 29N, 49N to 51N and 56N to 57N. Geological mapping indicates elevated Ba concentrations in soils are related to a horizon of well-bedded green chert that occurs in the upper portion of Unit 2. Although the Ba anomalies are not economically significant they provide a useful geochemical signature where there is no outcrop.

Grid B

Grid B baseline is 0.9 km long with a bearing of 0° . A total of 19 flagged lines, 30 m apart, cross the baseline at 45° , extending up to 300 m southwest and 200 m northeast (Fig. 6). A total of 327 "B" horizon soil samples was taken at 20 m intervals on 8.05 km of line. All samples were analyzed for Au by AAS and a 30 element suite by ICPS. Au/Ag data is presented in Figure 29; Cu/Zn data in Figure 30.

Threshold values and highlighted intervals for anomalous Au and Ag data have been visually estimated as most of the data is at detection limits. These values are:



Au: Threshold = 10 ppm

Ag: Threshold = 0.4 ppm First interval = 0.4 ppm Second interval = >2.0 ppm

A statistical analysis of the Cu and Zn data is given in Appendix VI. This analysis has been used to determine threshold values and contour intervals for plotting purposes. Thresholds for Cu and Zn content in soils have been chosen at the break between background and anomalous populations on histograms with extremely anomalous samples removed. Contour intervals are defined as threshold plus one, two and three standard deviations of the truncated data set. These values are:

Cu: Threshold = 75 ppmFirst contour = 115 ppmSecond contour = 160 ppmThird contour = 200 ppm

Zn : Threshold = 85 ppm
First contour = 135 ppm
Second contour = 185 ppm

Au concentration in soils is not significant; only one sample returned an elevated value of 30 ppb (1N/0E).

Ag, Cu and Zn concentrations in the soils on Grid B are sporadically elevated on line 1N to 4N from 1W to 1E in the vicinity of the Ag-bearing vein. Elsewhere only isolated values occur. The highest Ag value is 88 ppm and occurs at 2N/0+00E where the Ag-bearing vein outcrops. The highest Cu value of 410 ppm also occurs here. All remaining Ag values are less than 2.4 ppm. The highest Zn value of 614 ppm occurs at 4N/1+25W.



Grid C

Grid C baseline is 0.3 km long with a bearing of 315°. A total of 7 lines, 50 m apart, cross the baseline at 90°, extending 80 m southwest and 80 m northeast (Fig. 6). A total of 55 "B" horizon soil samples was taken at 15 m intervals on 1 km of line. All samples were analyzed for Au by AAS and a 30 element suite by ICPS. Au, Ag, Cu and Zn data is presented in Figure 31. Only one elevated value was returned (176 ppm Cu). It is unrelated to the shear zone.



6.0 CONCLUSIONS

The Holt property is underlain predominantly by volcanic and sedimentary rocks of the Paleozoic Sicker Group exposed in a northwest-southeast trending syncline. Lesser amounts of Triassic Karmutsen Formation and Jurassic Island Intrusions and Cretaceous Nanaimo Group sedimentary rocks are present also.

The Sicker Group comprises a basal unit of pyroxene porphyritic flows and volcaniclastic rocks, an intermediate unit of mafic flows and cherty sedimentary rocks characterized by jasper pods and beds, an overlying unit of cherty volcaniclastic and sedimentary rocks, and an uppermost unit of argillite, chert and limestone. The intermediate and overlying units are intruded by numerous diabase sills. The basal unit correlates with the Nitinat Formation; the intermediate and overlying units to the Myra Formation and Sediment-Sill Unit; the uppermost unit to the Buttle Lake Formation (Muller 1980a).

Grid A was established over a stratigraphic interval of the Sicker Group that contains jasper associated with epidotized mafic volcanic rock and pyritic black cherty argillite. The argillite contains elevated concentrations of Au, Ag and As. Soils overlying the argillite have sporadic highs of Au and zones of elevated Ag and As. A green chert horizon, interbedded with the argillite, contains elevated Ba concentrations, which are related to well-defined Ba soil anomalies. A pyritic siliceous float boulder on the southern portion of the grid returned 15.09 g/tonne (0.440 oz/ton) Au and 11.2 ppm Ag. The boulder was derived from an underlying zone of altered mafic volcanic rocks with disseminated to massive pyrite.



Grid B was established over an area of the Karmutsen Formation that contains several quartz-ankerite veins with well-developed carbonate alteration envelopes. One of these veins contains over 3600.0 g/tonne (105.00 oz/ton) Ag. A zone of elevated Ag and Cu occurs in soils surrounding the vein. A small body of feldspar porphyry that is surrounded by carbonate altered volcanic rock outcrops. The quartz-ankerite veins may be related to this intrusive body.

Grid C was established over an area of the Sicker Group that contains a narrow-shear zone with chalcopyrite. Soils overlying the zone are not elevated in Cu or Au implying it is localized.

Several localized zones with pyrite, chalcopyrite and/or malachite occur near or within diabase sills within the Sicker Group. They are probably related to contact metasomatism along the sill contacts.

Numerous localized skarn zones occur near the Koksilah stock. They are related to contact metasomatism along the stock contact; however, they do not contain economic mineralization.



CERTIFICATE

- I, Dale A. Sketchley, do hereby certify:
- That I am a graduate of the University of British Columbia in Honours Geology-Geophysics (B.Sc. 1975) and Geology (M.Sc. 1986).
- 2. That I have practised within the geological profession for the past fourteen years.
- 3. That I am a member of the Geological Association of Canada and the Canadian Institute of Mining and Metallurgy.
- 4. That the opinions, conclusions and recommendations contained herein are based on field work conducted on the property from September 23 to December 15, 1986 and supervised by me.
- 5. That I do not own direct, indirect, or contingent interests in the subject property or shares or securities of Nexus Resource Corporation, Goldenrod Resources and Technology Inc. or associated companies.

Dale A. Sketchley, M.Sc.

Vancouver, B.C. May 15, 1987



CERTIFICATE

- I, Mike H. Gunning, do hereby certify:
- 1. That I am a graduate of the University of British Columbia in the Honours Geology Program (B.Sc., 1986).
- 2. That I have practised within the geological profession for the past five years.
- 3. That the opinions, conclusions and recommendations contained herein are based on field work conducted on the property from January 5 to February 28, 1987 and supervised by me.
- 4. That I do not own direct, indirect, or contingent interests in the subject property or shares or securities of Nexus Resource Corporation, Goldenrod Resources & Technology Inc. or associated companies.

Mike H. Gunning, B.Sc.

Vancouver, B.C. May 15, 1987



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Appendix I

LIST OF PERSONNEL

and

STATEMENT OF EXPENDITURES



List of Personnel and Statement of Expenditures: Lois Group; Phases I & II

Work was conducted on the Lois Group consisting of the Holt 1 through 5 claims from September 23 to December 19, 1987.

Personnel	No. Days	Per <u>Day</u>		
T.G. Hawkins, P.Geol. D.A. Sketchley, M.Sc. J.S. Getsinger, Ph.D. T. Hayes, Field Supervisor M. Gunning, B.Sc. R. Kelly, Field Tech. H. MacIsaac, Field Tech. T. Naciuk, B.Sc. T. Wilkinson, Field Asst. D. McBeth, B.Sc. G. Royer, Field Asst.	1 20 1 2 5 2 13.5 15 4 1	\$475 350 350 250 200 150 150 150 150	\$ 475 7,000 350 500 1,000 300 2,025 2,250 600 150 450	\$15,100
Food and Accommodation	66	45		2,970
Equipment Rental				
4WD Truck Rock Saw	30 3	90 15	2,700 <u>45</u>	2,745
Disbursements				
Analysis-rocks, silts, soil Personnel expenses Misc. Expenses Custom Topographic Map	s, assa	ys	5,667.90 594.16 897.56 3,168.00	10,327.62
Administration @ 15% (on \$10,	327.62)			1,549.43
			Total	\$32,692.05



List of Personnel and Statement of Expenditures: Holt East Group; Phases I & II

Work was conducted on the Holt East Group consisting of the Holt 6 through 9, and Holt 15 claims from September 23rd to February 20, 1987. Reconnaissance geological work was carried out on the Holt 15 claim from February 12th to 20th, 1987.

Personnel	No. Days	Per <u>Day</u>		
T.G. Hawkins, P.Geol. D.A. Sketchley, M.Sc. J.S. Getsinger, Ph.D. T. Hayes, Field Supervisor B. Thomae, B.Sc. G. Cope, B.Sc. M. Gunning, B.Sc. J. Elliott, Field Tech. S. Hawkins, Field Tech. H. MacIsaac, Field Tech. T. Naciuk, Geol. Asst. D. McBeth, Geol. Asst. E. Ackerly, Field Tech. G. Royer, Geol. Asst. S. Whitefield, Field Tech.	2 20 2.07 3 .5 .5 10 5 7 10 10 2 2 10 7	350	\$ 950 7,000 725 750 125 175 2,000 750 1,050 1,500 300 300 300 1,500 1,500	\$19,675.00
Food and Accommodation	87	45		3,915.00
Equipment Rental				
4WD Truck Rock Saw Gas Plugger	40 5 1	90 15 30	3,600 75 30	3,705.00
Disbursements				
Analysis-rocks, silts, soil Personnel expenses Misc. expenses	s, assa	ys	20,278.80 594.16 877.59	
				21,750.59
Administration @ 15% (on \$21,	750.59)			3,262.59
				\$52,308.18



List of Personnel and Statement of Expenditures: Holt West Group; Phases I & II

Work was conducted on the Holt West Group consisting of the Holt 10 through 14 claims from September 23rd to February 20, 1987. Reconnaissance geological work was carried out on the Holt 14 claim from January 18 to February 20, 1987.

Personnel	No. Days	Per <u>Day</u>		
T.G. Hawkins, P.Geol. D.A. Sketchley, M.Sc. J.S. Getsinger, Ph.D. T. Hayes, Field Supervisor M. Gunning, B.Sc. J. Elliott, Field Tech. S. Hawkins, Field Tech. H. MacIsaac, Field Tech. T. Naciuk, Geol. Asst. D. McBeth, Geol. Asst. G. Royer, Geol. Asst. S. Whitefield, Field Tech.	2 16 1 2.08 8 3 7 10 13 2 6 7	\$475 350 350 250 200 150 150 150 150 150	\$ 950 5,600 350 520 1,600 450 1,050 1,500 1,950 300 900 1,050	\$16,220.00
Food and Accommodation	64	45		2,880.00
Equipment Rental				
4WD Truck Rock Saw	37 3	90 15	3,330 <u>45</u>	3,375.00
Disbursements				
Analysis-rocks, silts, soils Personnel expenses Misc. expenses Custom Topographic Map	s, assa	ys	13,513.40 594.16 887.64 3,168.00	18,163.28
Administration @ 15% (on \$18,1	63.28)			2,724.49
				\$43,362.77

Appendix II

ROCK SAMPLE DESCRIPTIONS

ROCK SAMPLE DESCRIPTIONS AND LITHOGEOCHEMICAL RESULTS

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
732	Location: SE Holt 5 Rock Type: Cherty Tuff.	5	0.2	153	82	10Pb
	From outcrop, light to dark grey banded very fine grained cherty tuff. Too fine to distinguish minerals. Light and dark banding suggest differences in amount of silicfication (chertiness). Lighter bands are slightly more cherty. Less than 3% disseminated and fracture fill pyrite.					
733	Location: Extreme, S, E Holt 5 Rock Type: Cherty Tuff.	5	<0.2	114	44	6Pb
	From outcrop, light to dark grey banded very fine grained cherty tuff. Too fine to distinguish minerals. Light and dark bedding suggest differences in amount of silicification (chertiness). Lighter bands are slightly more cherty. Less than 3% dissemination and fracture fill pyrite. Minor crosscutting veinlets of quartz-epidote less than 1mm wide.					
734	Location: NW Holt 4 Rock Type: Lapilli Tuff.	5	<0.2	176	32	
	From outcrop, mottled, medium green- grey, slightly altered, with continuous subparallel quartz veinlets and sub- angular to subrounded clasts, cherty lapilli tuff. 2 to 4% fine grained disseminated and fracture fill pyrite. Veins are 0.3 to lmm wide and clasts are 1 to 5mm long.					

Sampl No.		Au ppb	Ag ppm	рр ш	Zn ppm	Other ppm
735	Location: Slightly S, Extremely E Holt 2, ~1.5km of Lois Lake	5	0.2	217	34	
	Rock Type: Coarse Grained Tuff.					
	From outcrop, dark green-grey crudely banded mafic coarse grained tuff. Fracture fill and disseminated pyrite averaging 2 to 4%. Trace pyrrhotite. Occurs in area proximal to coarse lapilli and agglomeritic lapilli tuffs. Banding apparent in outcrop only. Subangular to angular mafic fragments are oriented. Pyrite mineralization may be epigenetic. Minor crosscutting quartz veinlets are less than lmm wide.					
736	Location: Near NW Corner, Holt 4 Rock Type: Silt.	5	<0.2	87	60	10Pb
	Flowing, relatively straight stream (possible fault). Sample taken below road.					
737	Location: Slightly S, E Holt 2, S of Lois Lake	5	<0.2	165	152	18Pb
•	Rock Type: Silt.					
	Flowing stream parallel to road.					
738	Location: Slightly S, E Holt 2 S of Lois Lake Rock Type: Silt.	5	0.2	29	112	12Pb
	· ·					
	Flowing stream parallel to road.					
739	Location: NE Holt 8, ~100m E of powerline	5	0.4	72	60	18Pb
	Rock Type: Massive Sulphide.					
	From outcrop, dark green, mafic, porphyritic, sheared, strongly mineralized volcanic? 50% mafic matrix, 5 to 15% hornblende, 5 to 15% quartz, 10 to 20% pyrite, ~5% magnetite and trace chalcopyrite. Outcrop strongly weathered rusty earthy colour. Mineralization probably secondary. Sample is from shear zone.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
740	Location: NE Holt 8, ~100m E of power line Rock Type: Sericitized, Chloritized, Altered Feldspar, Horn-blende, Porphyry.	5	0.6	12	34	360Ba
	From outcrop, white, pink and green, bleached, weathered, altered, sheared FHP. 95% feldspar, 4-6% chlorite, trace of talc, sericite and disseminated pyrite.					
741	Location: Slightly N, Extremely E Holt 8 Rock Type: Altered Feldspar Hornblende Porphyry.	5	0.4	8	40	320Ba
	From outcrop 5 to 10cm x 15m, pale mottled green, altered, weathered, porphyritic (now chlorite, goethite), feldspar hornblende porphyry. The groundmass is strongly altered to clay, sericite, goethite unidentified. Trace disseminated pyrite. Rusty weathered surface is probably due to the alteration of mafics and oxidation of pyrite.					
742	Location: Central E, Holt 6 Rock Type: Diabase.	5	0.2	78	14	6Pb
	Float near extensive outcrop. Medium grey-green fine grained (<3mm) crystal-line intrusive diabase with mafics >70% and quartz <5%. Often associated with coarser grained diorite. Pyrite 4-6% disseminated and filling fractures. Pyrite mainly associated with epidote-quartz vein (2.5cm wide) and may be epigenetic.					
743	Location: S, Extremely W, Holt 6 LIS - 1+75E, Grid A Rock Type: Diabase.	5	0.2	150	62	
	Outcrop 2 x 2m of dark grey-green, very fine grained, silicified, intrusive diabase with mafics >90% and quartz <5%. Epidote veinlets parallel to Fe weathering bands. Possibly hematitic alteration. Slightly magnetic.					

Sampl No.		Au ppb	Ag ppm	D D TO	Zn ppm	Other ppm
744	Location: N, Extremely W (on claim line) Rock Type: Mafic Porphyry.	5	0.2	84	26	
	From small outcrop, dark green-grey altered hornblende feldspar. Rock is crosscut by quartz-epidote veinlets 1 to 3mm wide. Mineralization is probably primary, trace pyrrhotite and pyrite disseminated and in 0.5 x 5mm veinlets. Rock is adjacent to FHP dyke.					
745	Location: Slightly N, Extremely W Rock Type: Cherty Tuff.	5	0.4	16	60	12Pb
	Float black very fine grained cherty tuff. Trace of pyrite in veinlets and fractures. Minor Mn-Fe staining. Rock fractures along bedding planes.					
746	Location: SW Holt 8, L27N-1+30W Grid A Rock Type: Argillite.	5	0.2	19	24	
	From 2m outcrop, of black quartz veined argillite. Trace disseminated pyrite. Strong Fe-Mn staining on weathered rock.					
747	Location: SW Holt 8, L26N, 0+75E Grid A Rock Type: Argillite.	5	0.8	43	96	75As
	Float from road construction, although it is assumed to be local. Black argillaceous matrix ~95% and ~5 to 10% oxidized material. Sparse fine grained disseminated pyrite. Rock shows heavy oxidation and some possible schistosity.					
748	Location: Extreme S, W Holt 8, L23 - 0+50W, Grid A Rock Type: Argillite.	5	0.2	41	96	35As
	From roadbed outcrop. ~95% argillaceous matrix ~5% quartz veins. 2 to 4% pyrite in very fine grained disseminations and fracture fillings. Crosscutting quartz veins less than lmm wide.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
749	Location: Extremely N, W, Holt 7 L21N, 1+25W.	5	0.4	18	396	80As
	Rock Type: Argillite. From outcrop. ~95% argillaceous matrix ~5% quartz veins. 2 to 4% pyrite in very fine grained disseminations and fracture filling. Crosscutting quartz veins less than lmm wide.					
750	Location: NW Holt 7, L19N-3+75W Rock Type: Maroon Banded Jasper Inter- bedded with Grey Chert.	5	0.2	36	26	
	From outcrop 2 x 5m, banded maroon and dark grey, cherty, jasperiodal rock. Trace pyrite and pyrrhotite occur in a very fine grained disseminated state. Bedding 1 to 5cm wide.					
851	Location: S, Central Holt 1 Rock Type: Silt.	5	0.2	43	76	200Ba
852	Location: S, Central Holt l Rock Type: Argillite.	5	2.0	42	156	652Pb
	Small outcrop less than lm square of black argillite. Trace disseminated pyrite.					
853	Location: Slightly N, Extremely W Holt 4, Holt Creek 70m N of bridge Rock Type: Quartz Sheared Chert.	5	0.2	39	36	48Pb
	5m outcrop of white and green aphanitic chert. Very slightly chlorite. Trace fine grain disseminated and fracture fill pyrite. Fe stains on weathered surface.					
854	Location: SW, Holt 4 Rock Type: Mafic Flow Material.	5	0.2	10	62	
	Outcrop 20m diameter and locally extensive. Altered and sheared dark green mafic flow material. Trace disseminated pyrite. Sampled for background values associated with positive Bonanza values.					

Sampl No.		Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
855	Location: Rock Type:	SW, Holt 4 Silt.	5	0.2	39	56	120Ba
856		NE Holt 7, Ll1N+25N - 1+25E Grid A	1140	3.4	427	168	
		cm x 30cm x 40cm of angular to 25% massive pyrite. Prob-					
857		NE Holt 7, LllN+25N - 0+75E, Grid A Maroon Chert in Argillite.	5	0.4	35	36	430Ba
	Small out pyrite.	crop less than 30cm; minor					
858		NE Holt 7, LllN-0+50E Grid A Fine Grain Tuff.	20	0.2	1	28	6Pb
	Outcrop l	x lm of medium grey-green tuff. Pyrite 4 to 8% occurs rains in vein 1.5 to 2cm					
859		Slightly NE, Holt 7 Baseline at 10+36N, Grid A Quartz Shear in Fine Grain Tuff.	30	0.6	139	36	290Ba
	approxima than 20cm,	hite quartz vein or shear is tely 3cm wide in a zone less hosted in a green fine grain o 3% pyrite in quartz vein.					
860	Location: Rock Type:	Slightly NE, Holt 7 Baseline at 10+50N, Grid A Fine Grain Tuff.	10	0.4	112	54	
	green fine	raceable over 10m. Medium grained tuff with stringers inated pyrite averaging 3 to					
861	Location: Rock Type:	Slightly NE, Holt 7, S of Baseline 10+36N, Grid A Quartz.	5	1.6	490	6	20РЬ
	-	oat common; probably local.					

Samp1 No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
862	Location: Very NW, Holt 11 Rock Type: Diabase.	5	0.2	58	96	
	Outcrop (2.4m) of dark green-black fine grained (<3mm) intrusive diabase with mafics >70% and quartz <5%. Relatively large feldspar intergrowths for a diabase. Slightly magnetic. Trace, fine grained, disseminated pyrite and pyrrhotite.					
863	Location: Very NW, Holt ll Rock Type: Altered Feldspar Porphyry.	5	0.2	11	24	240Ba
	Outcrop traceable over 50m. Light grey silicified, slightly chloritized feld-spar porphyry with a trace of fine grained disseminated pyrite. Weathered surface appears gossanous.					
864	Location: Very NW, Holt ll Rock Type: Altered Feldspar Porphyry.	5	0.2	2	40	200Ba
	Outcrop traceable over 50m. Light grey silicified, slightly chloritized feld-spar porphyry with a trace of fine grained disseminated pyrite. Weathered surface appears gossanous.					
865	Location: Very NW, Holt 11 Rock Type: Chlorite Schist.	5	0.2	<1	88	
	Large outcrop traceable over 80m, of medium to dark green feldspar, quartz, chlorite, hornblende schist. Trace fine grained disseminated pyrite. Sample from shear zone. Shear lacks much quartz veining and sulphides.					
1311	Location: Slightly S, Extreme W Holt 3 Rock Type: Andesite.	5	0.6	105	56	
	From outcrop, light green quartz veined volcanic rock. Pyrite up to 1% finely disseminated in narrow quartz veins.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
1312	Location: NW Holt 2 Rock Type: Black Altered Rock.	5	0.4	46	136	
	From outcrop, black and orange gossan zone with 2% disseminated pyrite. Weathered surface rusty. (goethite).					
1313	Location: NW Holt 2 Rock Type: Andesite.	5	0.4	14	26	
	From outcrop, light green fine grained volcanic. Up to 3% disseminated pyrite seen on broken fresh surface.					
1314	Location: Extreme S, Slightly E Holt 1	5	0.2	33	38	
	Rock Type: Silt.					
	Dry drainage strikes NE and dips 40%.					
1315	Location: S, Extremely E, Holt l Rock Type: Silt.	5	0.2	32	50	150Ba
	Main drainage is only lm wide. Flow is due East.					
1316	Location: SE Holt 1 Rock Type: Argillite.	5	0.6	30	1349	35As 210Pb
	From outcrop, black quartz veined argillite. Disseminated pyrite up to 1%.					
1317	Location: SE Holt l Rock Type: Argillite.	5	0.4	61	72	20As 10Pb
	From outcrop, black quartz veined argilite. Disseminated pyrite up to 1%. Gossan zone.					
1318	Location: SE Holt l Rock Type: Argillite.	5	0.2	45	84	50As 14Pb
	From outcrop, black quartz veined argilite. Disseminated pyrite up to 1%. Black argillite in contact with grey volcanic. 3m wide fracture gossan zone.					

Sampl		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
1319	Location: SE Holt l Rock Type: Argillite.	5	0.4	37	48	250Ba 18Pb
	From outcrop, black quartz veined argilite. Disseminated pyrite up to 1%. Grossan zone along road. Pyrite pods in black argillite.					
1320	Location: SE Holt 7, L2N-0+75W Grid A Rock Type: Tuff.	5	<0.2	100	104	
	From outcrop, light to medium green, fine grained, brecciated tuff. Fractured rock seems brecciated with clast sizes from 1 to 15mm.					
1321	Location: SE Holt 7, L3N-0+75W Grid A Rock Type: Lithic Tuff.	5	<0.2	91	110	14Pb
	From outcrop, medium green slightly chloritized and epidotized lithic tuff. Large and small (lmm to 15mm) lithic fragments making up tuff agglomerate. Epidote and chlorite replacement. Trace pyrite found in a lithic fragment.					
1322	Location: SE Holt 7, L3N-1+25W Grid A Rock Type: Cherty Tuff.	5	<0.2	49	64	
	From outcrop, green aphanitic laminated cherty tuff. Chert ~50%. Microfractures offset 2-6mm.					
1323	Location: SE Holt 7, L4N-2W, Grid A Rock Type: Andesite.	5	<0.2	24	44	
	From outcrop, medium green, altered, amygdaloidal andesite flow rock. Carbonate-quartz veining. Epidote amygdules and slightly epidotized and chloritized throughout.					
1324	Location: SE Holt 7, L3N-1+50W Grid A Rock Type: Cherty Tuff.	5	<0.2	21	110	10Pb
	From outcrop, laminated aphanitic cherty tuff with approximately 50% chert. Weathered surface is rusty with manganese and iron oxide stains.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
1325	Location: Near Central Holt 7, L6N- 1+50W, Grid A Rock Type: Diabase.	5	<0.2	106	90	6Pb
	From outcrop, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized diabase with mafics >70% and quartz <5%. Slightly magnetic.					
1326	Location: Near Central Holt 7, L7N- 1+50W, Grid A	5	<0.2	77	104	14Pb
	Rock Type: Diabase. From outcrop, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Slightly magnetic.					
1327	Location: Near Central Holt 7, L7N- 1+75W, Grid A	5	<0.2	20	44	6Pb
	Rock Type: Mafic Lithic Tuff.					
	Green slightly epidotized and chlori- tized, quartz veined lithic mafic tuff. A large 4cm quartz vein sampled.					
1328	Location: Near Central Holt 7, L8N-2W, Grid A Rock Type: Diabase.	5	<0.2	28	128	12Pb
	From outcrop, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. The rock is very magnetic and contains about 1% sulphides as chalcopyrite and pyrite dissemination.					
1329	Location: Near Central Holt 7, R8N-2+25W, Grid A Rock Type: Silt.	5	<0.2	62	160	110Pb 36Pb
1330	Location: Near Central Holt 7 Rock Type: Diabase.	5	<0.2	105	128	10 Pb
	From outcrop, dark green, fine grained (<3mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Moderately magnetic. Up to 1% pyrite disseminated throughout.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
1331	Location: Near Central Holt 7, L9N 1+75W	5	<0.2	64	104	
	Rock Type: Diabase.					
	From outcrop, dark green, fine grained (<3mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Moderately magnetic. Up to 1% pyrite disseminated throughout. Slightly hematized. Slickenslides present.					
1332	Location: Near Central Holt 7, L9N 1+75W Rock Type: Diabase.	5	<0.2	6	94	14Pb
	From outcrop, dark green, fine grained (<3mm), intrusive, diabase with mafics >70% and quartz <5%. Moderately magnetic. Up to 1% pyrite disseminated throughout. Quartz veins present.					
1333	Location: Near Central Holt 7, L6N l+50W, Grid A Rock Type: Diabase.	5	<0.2	58	90	8Pb
	From outcrop, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Slightly magnetic. Slightly hematized.					
1334	Location: NW Holt 7, Ll6N-5W Grid A Rock Type: Diabase.	5 ·	<0.2	71	62	
	Float, green, very coarse, grained dio-rite.					
1335	Location: NW Holt 7, L19N - 5+25W	5	<0.2	85	62	
	Grid A Rock Type: Diabase.					
	Float, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Slightly magnetic.					
1336	Location: Central, Very E, Holt 10 Rock Type: Silt.					
1337	Location: Central, E Holt 10 Rock Type: Silt.	5	<0.2	80	78	220Ba

Samp1		Au ppb	Ag ppm	Cu p pm	Zn ppm	Other ppm
1338	Location: Central E Rock Type: Diabase.	5	<0.2	174	94	
	From outcrop, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Slightly magnetic.					
1339	Location: Central, Slightly E Holt 10 Rock Type: Diabase.	5	<0.2	60	74	
	From outcrop, dark green, fine grained (<2mm), intrusive, slightly epidotized and chloritized, diabase with mafics >70% and quartz <5%. Slightly magnetic.					
1340	Location: Central, Slightly E, Holt 10	5	<0.2	51	70	16Pb
	Rock Type: Fine Grain Tuff.					
	From outcrop, medium green, moderately altered, slightly sheared, quartz veined tuff. Epidotized and chloritized.					
1341	Location: S Holt 5 / N Holt 4 Rock Type: Lapilli Tuff.	5	<0.2	118	104	
	From outcrop, medium green rusty and dark altered, "gossanous" lapilli tuff. Trace chalcopyrite.					
1342	Location: S Holt 5 / N Holt 4 Rock Type: Diabase.	5	<0.2	144	68	
	Float, dark grey-black fine grained (<3mm) intrusive diabase with mafics >70% and quartz <5% disseminated throughout.					
1343	Location: S Holt 5 / N Holt 4 Rock Type: Diabase.	5	<0.2	197	90	
	Float, dark grey-black fine grained (<3mm) intrusive diabase with mafics >70% and quartz <5% disseminated throughout.					

Sample No.	Description	Au ppb	Ag ppm	Cu ppm	Zn pp n	Other ppm
1344	Location: S Holt 5 / N Holt 4 Rock Type: Diabase.	5	<0.2	175	98	
	Outcrop, dark grey-black fine grained (<3mm) intrusive diabase with mafics >70% and quartz <5% disseminated throughout. slightly brecciated.					
1345	Location: S Holt 5 / N Holt 4 Rock Type: Basalt.	5	<0.2	211	84	
	From outcrop, rusty and dark, quartz veined basalt. Outcrop is iron stained i.e. rusty.					
1346	Location: S Holt 5 / N Holt 4 Rock Type: Feldspar Hornblende Porphyry.	5	<0.2	24	76	
	From outcrop, brown, mainly feldspar, hornblende porphyry. Phenocrysts are 1 to 3mm long. Rusted cyrstals within the rock. (goethite 2%).					
1347	Location: S Holt 5 / N Holt 4 Rock Type: Quartz Chlorite Schist.	5	<0.2	167	100	
	From outcrop, dark and rusty to green intensely altered to chlorite, epidote and quartz, quartz veined schist.					
1348	Location: Grid A - L19N at Mainline. Rock Type: Basalt.	5	<0.2	71	70	12Pb
	Float, dark grey-black fine grained basalt. Sample is rusty and has slickenslides. Pyrite as disseminated globs and stringers up to 1%.					
1349	Location: Holt 4; NE of Holt Creek Rock Type: Diabase.	5	<0.2	141	68	
	From outcrop, dark green-grey fine grained (<2mm) intrusive diabase with mafics >70% and quartz <5%. Weathered surface has a granular appearance. No visible sulphides but the rock is iron stained.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
1350	Location: Holt 4; NE of Holt Creek Rock Type: Quartz Vein in Brecciated Tuff.	5	<0.2	23	50	
	From outcrop, white quartz in green silicified brecciated tuff. Vein 2cm wide. Rusty rock but no mineralization seen.					
2701	Location: Holt 4; NE of Holt Creek Rock Type: Diabase.	5	<0.2	54	64	
	From outcrop, dark green-grey fine grained (<2mm) intrusive diabase with mafics >70% and quartz <5%. Weathered surface has a granular appearance. No visible sulphides but the rock is iron stained. Slightly magnetic.					
2702	Location: Holt 4; NE of Holt Creek Rock Type: Coarse Grain Diabase.	·5	<0.2	26	102	120РЬ
	From outcrop, dark grey-green up to 4mm grained intrusive diabase with mafics >70% and quartz <5%. Moderately magnetic, about 5% magnetite.					
2703	Location: Holt 4; NE of Holt Creek Rock Type: Diabase.	5	<0.2	80_	68	10РЪ
	From outcrop, dark grey-green fine grained (<3mm) intrusive with mafics >70% and quartz <5%. Slightly epidotized. 1% magnetite.					
2704	Location: Holt 4; NE of Holt Creek Rock Type: Quartz Vein in Diabase.	5	<0.2	5	62	
	From outcrop, good quartz and epidote vein stockwork up to $0.5\mathrm{m}$ wide. Pyrite <1% disseminated in veins.					
2705	Location: Holt 4; NE of Holt Creek Rock Type: Fine Grain Tuff.	5	<0.2	70	34	64Pb
	From outcrop 2m x 4m, grey, strongly silicified, cherty, tuffaceous rock. Pyrite stringers.					

Sampl	e Description	Au ppb	Ag ppm	Cu Ppm	Zn ppm	Other ppm
2706	Location: Holt 4; NE of Holt Creek Rock Type: Cherty Tuff.	5	<0.2	37	62	6Pb
	Outcrop of grey-green strongly silicif- ied, slightly sheared, aphanitic cherty tuff. Pyrite stringers and disseminated in quartz veins, up to 1%.					
2707	Location: Holt 4; NE of Holt Creek Rock Type: Chlorite Schist.	5	<0.2	65	76	
	Float, green chloritized, slightly epi- dotized, slightly rusty (goethite), calcite veined, schist. Angular float likely rolled from hill above.					
2708	Location: Holt 4; NE of Holt Creek Rock Type: Silt.	5	0.4	65	96	22Pb
2709	Location: Holt 4; NE of Holt Creek Rock Type: Silt.	5	<0.2	76	70	140Ba 12Pb
2711	Location: Central Holt 7 Rock Type: Altered Maroon Basalt.	5	0.6	55	68	10Pb
	Float, strongly "hematized" and slight- ly epidotized, quartz-carbonate veined very fine grained basalt. Angular float boulder.					
2712	Location: Central Holt 7 Rock Type: Feldspar Hornblende Porphyry.	5	0.2	<1	64	110РЬ
	From outcrop, pink and green felsic porphyry. In contact with a tuff. Pyrite disseminated <1%. Pink feldspars.					
2713	Location: Central Holt 7 Rock Type: Chert.	5	0.2	25	70	10 P b
	Float, green aphanitic chert. Massive pyrite stringers and disseminated globs up to 1%. Rusty weathered surface of rock in river. Geothite 1%.					

Sampl	e Description	Au ppb	Ag ppm	Cu ppm	Za ppm	Other ppm
2714	Location: Central Holt 7 Rock Type: Altered Maroon Basalt.	5	<0.2	14	74	12Pb
	From outcrop, maroon and black hematized calcite-carbonate veined basalt. Outcrop 2 to 3m wide which goes from very red-maroon N end to quartz-carbonate veined and black-red S end.					
2715	Location: Central Holt 7 Rock Type: Hematized and Calcified Basalt.	5	<0.2	98	32	
	From float, maroon, green and white, epidotized, slightly chloritized quartz carbonate veined fine grained basalt.					
2716	Location: Central Holt 7 Rock Type: Feldspar Porphyry.	5	<0.2	18	70	
	From outcrop, dark grey mafic ground-mass with feldspar phenocrysts (30%).					
2717	Location: Central Slightly N Holt 7 Rock Type: Silt.	5	<0.2	65	78	120Ba 10Pb
2718	Location: Central Slightly N Holt 7 Rock Type: Jasper.	5	0.6	21	18	
	Float in creek, very red definitely a jasper.					
2719	Location: Central, Slightly N Holt 8 Rock Type: Altered Feldspar Hornblende Porphyry.	5	0.4	8	40	320Ba
	From outcrop 5 to 10cm x 15m, pale mottled green, altered, weathered, relict porphyritic (now chlorite, goethite), feldspar hornblende porphyry. The groundmass is strongly altered to clay, sericite, goethite identified. Trace disseminated pyrite. Rusty weathered surface is probably due to the alteration of mafics and oxidation of pyrite.					
2720	Location: Central, Slightly E, Holt 8 Rock Type: Lapilli Tuff.	5	<0.2	137	32	
	Outcrop, Medium green moderately epid- otized quartz veined lapilli tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
2721	Location: Central, Holt 8 Rock Type: Stained Lapilli Tuff.	5	<0.2	108	48	330Ba
	Outcrop. Altered, Fe-Mn stained, red and green coloured, chloritized, lapilli tuff. Stockwork quartz-carbonate veining. Possible spring here. Very rusty outcrop.					
2722	Location: Central, Slightly E, Holt 8 Rock Type: Diabase.	5	<0.2	426	34	
	2 x 4m outcrop of dark green fine grained (<3mm) intrusive diabase with >70% mafics and <5% quartz. Small vein sample of trace chalcopyrite and pyrite in diabase host. Vein is 4mm wide with 2mm sulphide grains.					
2723	Location: Central, Slightly E Holt Rock Type: Diabase.	5	1.2	2265	66	
	Outcrop of green fine-rained (<3mm) intrusive diabase with >70% mafics and <5% quartz. 2% malachite and chalcopy-rite in quartz vein, 2cm x 0.45cm vein.					
2724	Location: Central, Slightly E Holt 8 Rock Type: Diabase.	5	<0.2	326	48	
	From outcrop dark grey fine grained <3mm, slightly chloritized, intrusive diabase with mafic >70% and quartz <5%. Strongly weathered red and Fe and Mn stained Py disseminated in fractures up 1%. Slightly to moderately magnetic, 2% magnetite.					
2725	Location: Central, Slightly E Holt 8 Rock Type: Feldspar Hornblende Porphyry.	5	<0.2	2	50	
	From outcrop, felsic brown, white and pink, coarse grained up to 4mm, feld-spar, hornblende, quartz porphyritic stock intrusion with associated contact aureole. Pink feldspar.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
2726	Location: Central, Slightly E Holt 8 Rock Type: Diabase.	50	2.0	2745	66	
	From outcrop dark grey fine grained <3mm, slightly chloritized, intrusive diabase with mafic >70% and quartz <5%. Strongly weathered red and Fe and Mn stained Py disseminated in fractures up 1%. Slightly to moderately magnetic, 2% magnetite.					
2727	Location: Slightly NE, Holt 7 Rock Type: Silt.	5	0.2	79	100	24Pb
2728	Location: W, Holt 7/8 Rock Type: Black Chert.	5	<0.2	44	170	
2729	Location: Central Holt 8 Rock Type: Jasper.	5	0.2	110	12	
	Float. Black and red aphanitic sili- ceous chert and jasper. Trace to 1% magnetite and hematite.					
2730	Location: W, Holt 7/18 Rock Type: Banded Chert.	5	<0.2	12	- 10	
	From outcrop, red and white aphanitic chert and jasper. Looks layered. Contacts green lapilli tuff.					
2731	Location: N, Central Holt 11 Rock Type: Diabase.	5	<0.2	24	98	140Ba
	Subcrop boulders. Dark green-black fine grained (<3mm) intrusive diabase with mafics >70% and quartz <5%. Chlorite veins with <1% pyrite and sphalerite, as disseminated fine grained sulphides.					
2732	Location: N, Central Holt 11 Rock Type: Diabase.	5	<0.2	104	80	260Ba
	From outcrop dark green-black slightly chloritized fine grained ($<3\text{mm}$) intrusive diabase with mafics >70% and quartz $<5\%$. Iron stained on weathered surface.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
2733	Location: N, Central Holt 11 Rock Type: Silt.	5	0.2	91	122	
	From small stream.					
2734	Location: N, Central Holt 11 Rock Type: Diorite.	5	<0.2	16	22	
	From outcrop green and white coarse grained dyke? of diorite through diabase.					
2736	Location: Slightly NW Holt 11 Rock Type: Altered Mineralized Diabase.	110	8.6	>9999	56	
	Outcrop lm x lm metallic and olive green altered massive sulphide. 20% chalcopyrite, 20% pyrite and epidote is the principal remaining rock component. Near diorite and may be a mineralized contact aureole.					
2737	Location: NW, Holt 11 Rock Type: Silt.	5	0.2	5 0	80	12Pb
2738	Location: NW Holt ll Rock Type: Quartz-Epidote Vein in Diabase.	5	<0.2	309	22	
	From outcrop with vein 6cm wide, white and olive green quartz and epidote in vein hosted by a diabase.					
2739	Location: NW Holt 11 Rock Type: Diabase.	5	<0.2	258	112	
	Subcrop boulders 0.8 meters square, dark green-grey fine-grained (<3mm) intrusive diabase with mafics <70%, quartz <5% and disseminated pyrite 1%.					
2740	Location: NW Holt 11 Rock Type: Quartz Vein.	5	<0.2	92	20	
	White quartz vein 6cm wide in a $4m \times 7m$ outcrop of diabase.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
2741	Location: N, Extremely E, Holt 11 Rock Type: Silicified Diabase.	5	<0.2	560	178	
	Float 20cm long. Silicified almost cherty light to medium grey-green rock. Massive stringers and stringers of pyrite throughout, up to 5%. Slightly chloritized.					
2742	Location: N, Extremely W Holt 11 Rock Type: Chloritized Rock.	5	0.2	335	210	
	From outcrop 2m wide, green extremely chloritized shear?, slightly pyritized up to 1%, schist. The protolith may have been diabase. Weathered rock is green, red and rusty. (goethite).					
2743	Location: N, Extremely E Holt 13 Rock Type: Chert.	5	<0.2	34	26	
	Float. Silvery and white-grey, slightly chloritized, quartz-cherty boulders, with up to 20% pyrite stringers. and disseminated.					
2744	Location: N, Extremely E Holt 13 Rock Type: Jasper-maroon Cherty Volcanic.	5	<0.2	34	26	
	Float. Red and maroon intensely sili- cified aphanitic chert and fine grained volcanic.					
2745	Location: N, Very E, Holt 13 Rock Type: Altered Volcanic.	5	<0.2	28	46	
	From 2mm square outcrop, dark green, altered-slightly epidotized, fine grain (<3mm) intrusive diabase with mafics >70% and quartz <5%. Trace pyrite and chalcopyrite with trace malachite evident on rock surface.					
2746	Location: N, Very E, Holt 13 Rock Type: Altered Volcanic.	5	<0.2	122	124	
	From 2m square outcrop maroon and green very chloritized, schisty fine grained volcanic. 1% disseminated, fine grain pyrite.					

Sampl		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
2747	Location: NW Holt 13 Rock Type: Silt.	5	0.2	26	50	130Ba
	Silt from river to road junction. Sample may be contaminated by road sediment.					
2748	Location: N, Central Holt 6 Rock Type: Quartz Vein from Diabase.	5	0.2	139	10	
	Outcrop lm square. White massive quartz.					
2749	Location: NW Holt 6 Rock Type: Skarn.	5	0.2	<1	52	260Ba
	From outcrop, pastel grey-green fine grained calc-silicate minor to 1% fine grain disseminated pyrite. Weathered surface bright orange.					
2750	Location: NW Holt 6 Rock Type: Skarn-Like Altered Rock.	5	0.2	<1	46	
	From outcrop 2 x 3m, medium to dark green 90% calc-silicates and 10% horn-blende? Up to 1% fine grained disseminated pyrite. Rusty weathered surface.					
2801	Location: Very NE, Holt 10 Rock Type: Andesite Flow.	5	0.2	47	117	
	From 5m square outcrop, good exposure of a medium to dark grey-green andesite with a faint porphyritic to amygdaloidal texture. Matrix is partially silicified. Green cherts are interbedded and outcrops of quartz diorite are common. 2 to 5% fine grain, evenly disseminated pyrite. Stratigraphically above chert.					
2802	Location: Very NE, Holt 10 Rock Type: Cherty Argillite.	5	0.2	54	63	
	30m outcrop along road. Good quarry-type exposure of very black, cherty argillite interbedded with green volcanic flows and green bedded chert. Folding is common. Beds dip 55 NE and strike 130 . 5 to 10% layer parallel fracture filled pyrited.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
2803	Location: NW, Holt 7 Rock Type: Cherty Argillite.	20	0.2	48	57	
	30m outcrop along road. Good quarry- type exposure of very black, cherty argillite interbedded with green vol- canic flows and green bedded chert. Folding is common. Beds dip 55 NE and strike 130 . 5 to 10% layer parallel fracture filled pyrite.					
2804	Location: Slightly SE, Holt 11 Rock Type: Cherty Argillite.	10	0.2	48	57	
	Outcrop. Good quarry-type exposure of very black, cherty argillite interbedded with green volcanic flows and green bedded chert. Folding is common. Beds dip 55 NE and strike 130 . 5 to 10% layer parallel fracture filled pyrite.					
2805	Location: Slightly SE, Holt ll Rock Type: Andesite with Quartz Veining.	900	0.2	28	45	
	From outcrop. Good quarry exposure of aphanitic to slightly hornblende porphritic andesite which is partially silicified and crosscut by quartz veins. 2 to 5% disseminated blebs and grains of pyrite.					
2806	Location: Slightly SE, Holt ll Rock Type: Cherty Argillite.	5	0.1	12	37	31As
	From outcrop, poor exposure in quarry of dark grey-green, black aphanitic, cherty argillite. Bedding is indistinct. 5 to 10% parallel to bedding, fracture filling pyrite.					
2807	Location: Central, Very W, Holt 11 Rock Type: Quartz Vein.	5	0.1	82	21	
	From well exposed 5m square outcrop in road, white, lcm to 10cm wide quartz vein hosted in black, aphanitic to amygdaloidal basaltic flow rocks. Vein is vertical and strikes NE. Trace fine grain pyrite.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppma	Zn ppm	Other ppm
2808	Location: Slightly NW, Holt 11 Rock Type: Andesite Flow Rock.	5	0.2	38	76	57As
	Abundant float on road of partially silicified (brecciated and epidotized in places) dark grey, aphanitic andesite flow rock. Original textures are obscured. 5 to 10% syngenetic pryite as disseminated stringers and grains.					
2809	Location: E of powerline Rock Type: Silicified Andesite.	5	0.1	7	26	
	Silicified andesite. Well exposed, 5m square outcrop after blasting. Locally pervasively silicified andesite flow rock. Textures are "blurred" with greater than 90% silica replacement. Trace pyrite grains and blebs.					
3451	Location: Rock Type: Granodiorite (Koksilah Stock).	30	0.2	8	74	
	From outcrop, grey, massive, grain size averages 3mm, hornblende granodiorite. Minor saussauritized feldspars. Minor chlorite. Trace fine grain disseminated pyrite and magnetite.					
3452	Location: Extremely NW, Holt 5 Rock Type: Mafic Tuff.	5	0.2	96	28	
	From outcrop, dark green fine grained massive to laminated moderately chloritized and epidotized mafic tuff. Trace disseminated and small stringers of pyrite. Small "skarn" zones up to 2cm wide along bedding (may be some other alteration type), with diopside and andradite? Ocurrance size forms approximately 10 to 20% of rock, otherwise small and restricted.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3453	Location: N, Extremely E, Holt 10 Rock Type: Quartz Vein.	5	0.2	29	24	
	20m wide vein exposed for several meters in outcrop. White bullish, slightly calcic with inclusions of chert/argillite fragments quartz vein. Trace disseminated pyrite. Boxwork from calcite weathering is common.					
3454	Location: N, Extremely E, Holt 10 Rock Type: Chert.	5	<0.2	50		
	Several pieces of float presumably from adjacent outcrop. Black with brown very fine grained, thinly bedded localized ash component chert. 1% disseminated, locally common pyrite. Weathered surface covered with Fe-Mn oxides.					
3455	Location: N, Extremely E, Holt 10 Rock Type: Argillite.	5	<0.2	26	102	40Pb
	Local concentration of float maybe sub- crop. Black-brown stained very fine grain, local slickenslide surfaces with graphite, argillite. Trace disseminated pyrite. Fe-Mn oxide stained.					
3456	Location: N, Extremely E, Holt 10 Rock Type: Diabase.	20	0.2	68	118	
	From outcrop, dark grey-black fine grained (<3mm), mafics ~5% and felsics ~94%, intrusive diabase. 1% Ti oxides. Trace fine grained disseminated pyrite.					
3457	Location: NE, Holt l Rock Type: Silt.	5	<0.2	33	106	30РЬ
	Poorly flowing stream. Drains granodio- rite near contact with mafic tuffs.					
3458	Location: Central, Holt l Rock Type: Silt.	5	<0.2	29	154	32Pb
	Stream gully, with swampy spots, drain- ing contact area. Large percentage of organics.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3459	Location: Central, Slightly W, Holt l Rock Type: Silt.	5	<0.2	32	66	
	Stream gully, with swampy spots, draining contact area. Sample high in sand.					
3460	Location: Central, Far W, Holt l Rock Type: Tuff.	5	0.2	34	52	
	Mafic monolithic fine grain agglomeritic tuff. Outcrop 25m across of dark green strongly chloritized, slightly epidotized, quartz-carbonate veined mostly fine grained mafic agglomeritic tuff. Veins up to 2cm form an irregular stockwork.					
3461	Location: Slightly SW, Holt l Rock Type: Altered Feldspar Porphyry or Crystal Tuff.	5	<0.2	7	152	
	Outcrop in ditch is 2 x 8m. Light transulcent green strongly chloritized and sericitized, sheared, porphyritic rock. Relict feldspar phenocrysts up to 2mm in a fine grained groundmass. Soft white non-calcite veinlets with occasional pink purple "staining" are locally common. 1% disseminated fine grain <0.5mm pyrite.					
3462	Location: Slightly SW, Holt l Rock Type: Silt.	5	0.2	75	102	
	Good flowing stream but sparse silty sediment. Mostly basalt till in stream cut.					
3463	Location: S, Central, Holt l Rock Type: Silt.	20	<0.2	30	76	
	Good flowing stream in gully but sparse silt.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3464	Location: Slightly N, Central, Holt 3 Rock Type: Laminated Mafic Tuff.	5	0.2	113	18	
	From 3m x 3m outcrop, dark green, generally fine grained, well bedded (laminated), strongly chloritized, slightly epidotized, moderately silicified. Skarn zones up to 3cm wide occur along bedding. They commonly have a clear quartz vein (~2mm wide) in core and are composed dominantly of a very hard pink material andradite? and hard light green mineral diopsite? Rock may be slightly metamorphosed. Trace fine grain disseminated pyrite.					
3465	Location: NW, Holt 2 Rock Type: Feldspar Porphyry.	5	0.4	15	18	
	From 1 x 3cm outcrop in ditch. Whitish light grey coarse grained (<4mm) feld-spar porphyry, in a fine grained matrix. Finely disseminated pyrite up to 1%. Small hornblende phenocrysts may have been present but sample has weathered leaving Fe-Mn oxides.					
3466	Location: Central, Slightly W, Holt 2 Rock Type: Silt.	5	<0.2	73	94	22Pb
	Well defined stream cut with flowing water and little silt. Look under moss at side of stream.					
3467	Location: Central, Slightly W, Holt 2 Rock Type: Sheared Mafic Tuff.	5	0.2	33	20	
	From outcrop exposed in ditch for ~2m (10 to 20cm wide). Very rusty weathered sample mostly goethite, relict plagoiclase and chlorite, sheared mafic tuff.					
3468	Location: Central, Slightly W, Holt 2 Rock Type: Sheared Mafic Tuff.	5	0.2	29	14	
	From outcrop exposed in ditch for ~2m (10 to 20cm wide). Very rusty weathered sample mostly goethite, relict plagoiclase and chlorite, sheared mafic tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3469	Location: Very SE, Holt ll Rock Type: Chloritic Mafic Tuff.	5	0.4	1440	86	
	From outcrop, dark green moderately chloritized and epidotized, hematite coated fracture surfaces, fine grained and massive, mafic tuff. 1% pyrite and trace malachite.					
3470	Location: Extreme NW, Holt 9 Rock Type: Altered Mafic Tuff.	5	0.2	25	74	35As
	From outcrop <1 x lm in road cut. Light green moderately chloritized, sericitized and carbonatized (ankerite), goethitic weathered mafic tuff. Abundant diabase sills nearby. The weathered rock is rusty brown coloured.					
3471	Location: Extreme NW, Holt Rock Type: Altered Mafic Tuff.	5	0.2	33	60	80As 10Sb
	From outcrop <l (ankerite),="" abundant="" and="" brown="" carbonatized="" chloritized,="" coloured.<="" cut.="" diabase="" goethitic="" green="" in="" is="" light="" lm="" mafic="" moderately="" nearby.="" road="" rock="" rusty="" sericitized="" sills="" td="" the="" tuff.="" weathered="" x=""><td></td><td></td><td></td><td>,</td><td></td></l>				,	
3472	Location: Central Holt 7 Rock Type: Jasper Pod in Mafic Volcanic.	5	0.8	2027	14	
	Float sample with localized pod (~20cm diameter) from 15 x 10m quarry. Mottled green and red, banded chert. 1% chalcopyrite occurs as disseminations and fracture fillings in bright red jasper. Trace fine grain disseminated pyrite in green chert. Sample cut by calcite veinlets.					
3473	Location: Central, Slightly S, Holt 7 Rock Type: Chert Pod.	5	0.2	82	32	
	Outcrop sample from localized pod (<20cm diameters) in road quarry (15 x 10m). Mottled green and white moderately chloritized and epidotized chert pod in a host of epidotized mafic volcanic.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3474	Location: Central, Slightly S, Holt 7 Rock Type: Mafic Volcanic.	5	0.2	97	74	120As
	From 15 x 10m outcrop in quarry. Dark green, massive, fine to medium grained slightly epidotized and chloritized quartz-carbonate veined mafic volcanic (flow?).					
3475	Location: Central, Slightly S, Holt 7 Rock Type: Jasper Pod in Mafic Volcanic.	170	1.0	>9999	36	
	Float 15 x 10m from quarry. Mottled red, green and white, slightly chloritized pod of bright red jasper with pale green banded chert. Sample cut by calcite veins. 3% chalcopyrite occurs as fracture fillings and veinlets and disseminations in bright red jasper and less so within the host - mafic volcanic.					
3476	Location: Central, Slightly S, Holt 7 Rock Type: Maroon Jasper.	5	0.2	86	4	
	Outcrop sample of 30cm pod from road quarry. Pod of maroon chert, with occasional blebs (<lcm) bright="" calcite="" common.<="" epidotized="" fine="" grained="" in="" jasper,="" mafic="" medium="" of="" red="" rock.="" td="" to="" veinlets="" volcanic=""><td></td><td></td><td></td><td></td><td></td></lcm)>					
3477	Location: Central, Slightly S, Holt 7 Rock Type: Jasper and Light Green Chert.	5	0.4	384	26	30As
	Outcrop 15 x 10m quarry with localized chert pods. Extremely silicified blebs of red jasper and light green chert, hosted in moderately epidotized, fine to medium grained mafic volcanic. Trace malachite associated with light green chert.					

Sampl		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3478	Location: Central, Slightly W, Holt 7 Rock Type: Epidotized Mafic Volcanic Rock.	5	0.2	142	30	
	Outcrop from 15 x 10m quarry. Localized area sampled, <1m. Olive to medium green strongly epidotized, moderately chloritized, calcite veined mafic volcanic rock. Epidotization associated with jasper and surrounding malachite.					
3479	Location: Central, Slightly S, Holt 7 Rock Type: Epidotized Mafic Volcanic Rock.	5	0.2	171	12	
	Outcrop from 15 x 10m quarry. Localized area sampled, <lm. and="" associated="" calcite="" chloritized,="" epidotization="" epidotized,="" green="" jasper="" mafic="" malachite.<="" medium="" moderately="" olive="" rock.="" strongly="" surrounding="" td="" to="" veined="" volcanic="" with=""><td></td><td></td><td></td><td></td><td></td></lm.>					
3480	Location: Central, Slightly S, Holt 7 Rock Type: Jasper in Epidotized Mafic Volcanic Rock.	5	0.2	61	4	
	Float from 15 x 10m road quarry with localized pod (<20cm) of mottled maroon jasper and olive green epidotized mafic volcanic rock. There are irregular bands of maroon jasper within the epidotized mafic volcanic rock. Trace chalcopyrite occurs as disseminations and fracture fillings associated with calcite veinlets.					
3481	Location: Central, Slightly S, Holt 7 Rock Type: Epidotized Mafic Volcanic.	5	0.2	75	36	
	From outcrop in 15 x 10m road quarry. Olive green, strongly epidotized, slightly chloritized, calcite veined mafic volcanic. Areas of epidotization are irregular but commonly occur as bands approximately 10cm across, that cut massive fine to medium-grained mafic volcanic rock. Epidotization is commonly associated with calcite veins.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3482	Location: Slightly S, Extremely W Holt 11	5	0.2	14	8	
	Rock Type: Red Japser.					
	Outcrop. Lense 20cm x 50cm of red jasper hosted by epidotized mafic volcanic rock.					
3483	Location: Central, Holt 4 Rock Type: Argillite.	5	0.2	77	70	30As
	Outcrop 5m x 0.5m in ditch of black fine grained argillite interbedded with tuffs. Weathered surface is rusty brown. Trace disseminated pyrite.					
3484	Location: Central, Holt 4 Rock Type: Silt.	5	0.2	14	8	
	From flowing stream that drains the Karmutsen-Sicker contact. Abundant out-crop probably Karmutsen-mafic volcanics with pillows? Sample has organics and silt.					
3485	Location: Slightly SE, Holt 4 Rock Type: Mafic Volcanic.	5	0.2	111	90	
	From 50m x 5m outcrop along road cut of rusty, very weathered, carbonatized (ankerite), Fe-Mn oxide coated, mafic volcanic.					
3486	Location: SE, Holt 4 Rock Type: Mafic Volcanic.	5	0.4	114	134	
	From 50 x 5m outcrop along road cut of rusty, very weathered carbonatized (ankerite), Fe-Mn oxide coated, mafic volcanic.					
3487	Location: Slightly SE, Holt 4 Rock Type: Cherty "Phyllitic" Tuff.	5	0.2	36	22	
	From outcrop quarry section 5 x 5m. Good exposure of rusty brown weathered and medium green unweathered, thinly bedded, strongly chloritized cherty tuff. Bedding planes of protolith have a noticeable "phylitic sheen". Mn-Fe oxide coated outcrop.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3488	Location: Slightly SE, Holt 4 Rock Type: Silt.	5	0.2	38	38	30As
	Dry stream bed with lots of sand but minor silt.					
3489	Location: Central, Holt 4 Rock Type: Silt.	5	0.2	37	30	
	Dry stream bed with lots of sand but minor silt.					
3490	Location: Overly Extreme SW, Holt 2 Rock Type: Silt.	5	0.2	46	68	265As 120Ba
	Flowing stream with very little silt.					
3491	Location: SE of Holt 4 Rock Type: Silt.	5	0.2	37	36	
3492	Location: Central, Extreme W Holt 11 Rock Type: Amygdaloidal Volcanic.	5	0.2	87	56	
	From outcrop of green-grey, slightly to moderately altered, quartz-feldspar-hornblende bearing docite.					
3493	Location: Extreme NW, Holt 9 Rock Type: Schistose Tuff.	5	<0.2	73	46	30As
	Outcrop. Yellow and white, moderately altered, calcareous, chloritic, quartz - feldspar muscovite tuff.					
3494	Location: Extremely S, Slightly W Holt 11	5	<0.2	47	64	60As
	Rock Type: Tuff.					
	Blue-grey, slightly altered, quartz and feldspar felsic bearing tuff.					
3495	Location: NE, Holt ll Rock Type: Tuffaceous Chert.	5	<0.2	32	58	
	From outcrop of green-grey, slightly chloritic, extremely siliceous, bedded chert.					

Sampl No.	-	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
3496	Location: SE Holt 11 Rock Type: Diabase.	5	<0.2	42	32	
	From outcrop of medium grey, slightly altered, hornblende and pyroxene bearing fine grained gabbro.					
3497	Location: Central, Slightly E, Holt ll Rock Type: Diabase Intruding Diorite.	5	<0.2	287	18	220As
	From outcrop of mottled white and grey medium grained quartz bearing diorite with an injected dark grey mafic finegrained dyke. Trace of fine grained pyrite in dyke.					
3498	Location: Extremely SE, Holt 12 Rock Type: Pillow Basalt.	5	<0.2	126	62	
	From outcrop of medium grey, aphanitic, very mafic volcanic.					
3499	Location: S, Extreme W, Holt 10 Rock Type: Pillow Basalt.	5	<0.2	342	52	
	From outcrop of medium green-grey, slightly chloritized and calcareous, very silicified and heavily veined strongly altered basalt.					
3500	Location: Slightly S, Extremely E Holt 12	5	<0.2	83	98	
	Rock Type: Lapilli Tuff.					
	From outcrop of medium to dark grey, slightly altered, mafic fragmented tuff, in a cherty groundmass.					
4301	Location: NW, Holt 6 Rock Type: Silt.	5	0.8	56	94	240Ba
4302	Location: Central, Slightly W, Holt 4 Rock Type: Green Chert.	5	0.2	31	26	
	From outcrop of pure green quartz 1% pyrite.					
4303	Location: Slightly N, Far W, Holt 4 Rock Type: Silt.	5	0.2	44	68	140Ba

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4304	Location: Slightly SW, Holt 3 Rock Type: From Outcrop of Fine-Grained Tuff.	5	0.2	134	58	
	Green, strongly altered, chloritized, sericitized, ferruginous, feldspathic tuff.					
4305	Location: Slightly SW, Holt 3 Rock Type: From Outcrop of Feldspar Hornblende Porphyry.	5	0.2	82	30	
	From outcrop of brown and white, ferrugenous quartz-amphibole-feldspar bearing porphyry. Trace of pyrite.					
4306	Location: Central, Slightly W, Holt 3 Rock Type: From Outcrop of Tuffaceous Chlorite-Schist.	5	0.2	70	22	
	Green, very chloritic, slightly sili- ceous schist. 4% pyrite.					
4307	Location: Central, Slightly W, Holt 3 Rock Type: From Outcrop of Tuff.	5	0.2	52	12	
	Green fine grained tuff.					
4308	Location: N, Slightly W, Holt 3 Rock Type: From Outcrop of Chlorite Schist.	5	0.2	101	30	
	Green tuffaceous very chloritic schist.					
4309	Location: N, Slightly W, Holt 3 Rock Type: From Outcrop of Chlorite Schist.	5	0.2	96	20	
	Green, very chloritic rock.					
4310	Location: Holt 7 Rock Type: From Float Boulder of Green Chert.	5	0.2	13	22	400Ba
	Pure white quartz vein enclosed by chert. 1-2% pyrite.					
4311	Location: Holt 4 Rock Type: Silt.	5	0.2	43	48	
4312	Location: Holt 4 Rock Type: Silt.	50	0.2	36	46	

Sample No.	e Description	Au ppb	Ag ppm	ppm Cu	Zn ppm	Other ppm
4313	Location: Holt 4 Rock Type: From Outcrop of Chlorite Schist.	5	0.2	69	42	
	Green, very chloritic, slightly sili- ceous schist. Less than 1% pyrite.					
4314	Location: Holt 4 Rock Type: From Outcrop of Chlorite Schist.	5	0.2	<1	66	
	Green, chloritic, siliceous, slightly epidotized schist with 1% pyrite.					
4315	Location: Central Holt 4 Rock Type: From Boulder of Quartz- Chlorite Schist.	5	0.2	124	30	
	Light green, very siliceous, slightly chloritic schist.					
4316	Location: Central Holt 4 Rock Type: From Boulder of Chlorite Schist.	5	0.2	95	66	
	Green, calcareous, chlorite-rich schist with 1-2% pyrite as disseminations and in stockwork stringers.					
4317	Location: Central, Slightly E Holt 4 Rock Type: From Boulder of Diabase.	5	0.2	127	52	270Ba
	Green and white altered, chloritized, epidotized, hornblende-feldspar-pyro-xene bearing, fine-grained gabbro with 1% chalcopyrite and 1% magnetite.					
4318	Location: Central, Slightly E Holt 4 Rock Type: Tuff.	5	0.2	61	36	
	From outcrop of green, fine-grained, strongly altered, epidotized, chloritized, feldspar tuff.					
4319	Location: Central Holt 4 Rock Type: Sheared Tuff.	5	0.2	121	74	
	From outcrop of green and rusty, chloritized ferruginous feldspathic tuff. Rusty pyrite (?).					

Sampl No.	_	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4320	Location: Central, Slightly E, Holt 4 Rock Type: Tuff.	5	0.2	101	14	
	From boulder of moderately altered, strongly chloritized greenish felsic tuff. 1% for both pyrite and pyrrhotite.					
4321	Location: Central, Slightly E Holt 4 Rock Type: Quartz Vein.	5	0.2	250	22	
	From boulder of fine-grained tuff which contains a chloritic quartz vein with 2% pyrite.					
4322	Location: Central, Slightly E Holt 4 Rock Type: Tuff.	5	0.2	112	52	290Ba
	From boulder of green, moderately altered, chloritized, calcareous, hornblende-feldspar, fine grained tuff.					
4323	Location: Slightly NE, Holt 4 Rock Type: Tuff.	5	0.2	58	62	
	From outcrop of quartz and epidote veined, green, moderately altered quartz-hornblende-feldspar tuff with <1% pyrite.					
4324	Location: NE, Holt 4 Rock Type: Tuff.	5	0.2	95	34	
	From outcrop of green, slightly, altered, feldspar-hornblende tuff with <1% pyrite.					
4325	Location: Moderately N, W Holt 9 Rock Type: Altered Diabase.	5	0.2	8	30	
	From float boulder of strongly altered, epidotized, chloritized, fine grained quartz gabbro. Pyrite <1%.					
4326	Location: Central, Holt 9 Rock Type: Silt.	5	0.4	104	74	

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4327	Location: Central, Holt 9 Rock Type: Chlorite Schist.	5	0.2	107	28	
	Green, calcareous, chloritic, amphibolitic, felsic schist with 1% pyrite.					
4328	Location: Central, Holt 9 Rock Type: Silt.	5	0.2	124	60	
4329	Location: Central, Holt 9 Rock Type: Silt.	5	0.4	62	58	130Ba
4331	Location: Central, Holt 9 Rock Type: Silt.	5	0.2	37	46	
4332	Location: Central, Holt 9 Rock Type: Quartz Vein.	5	0.2	<1	20	
	From float of green and white pure quartz.					
4333	Location: NE, Holt 9 Rock Type: Diabase.	5	0.2	24	126	
	From float of green, moderately altered, epidotized and chloritized, finegrained feldspar-hornblende-quartz gabbro. Pyrite is 2% as is magnetite.					
4334	Location: N, Slightly E, Holt 8 Rock Type: Silt.	5	<0.2	86	48	
4335	Location: N, Slightly E, Holt 8 Rock Type: Silt.	5	<0.2	66	108	
4336	Location: Central, Holt 6 Rock Type: Silt.	5	<0.2	68	74	
4337	Location: Central, Slightly W, Rock Type: Mafic Rock Boulder.	5	<0.2	35	54	
4338	Location: Very S, Central, Holt 8 Rock Type: Silt.	5	<0.2	96	70	
4339	Location: N, Slightly E, Holt 7 Rock Type: Silt.	5	<0.2	55	56	
4340	Location: N, Central, Holt 7 Rock Type: Silt.	5	<0.2	81	50	3792Mn
4341	Location: Central, Holt 8 Rock Type: Silt.	5	<0.2	100	68	

Sample No.	e	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4342	Location: Rock Type:	SW, Holt 11 Silt.	5	<0.2	68	46	
4343	Location: Rock Type:	NW, Holt 10 Silt	60	<0.2	68	50	
4344	Location: Rock Type:	Slight SW, Holt 11 Silt.	5	<0.2	79	68	
4345	Location: Rock Type:		5	<0.2	107	64	
4346	Location: Rock Type:	NE, Holt 11 Silt.	5	<0.2	110	130	1739Mn
4347	Location: Rock Type:	NE, Holt 11 Silt.	5	<0.2	74	60	
4348	Location: Rock Type:	Very N, Slightly E Holt 10	5	<0.2	62	42	
4349		N, Central, Holt 10	5	<0.2	90	52	
4350	Location: Rock Type:	Central, Holt 10 Silt.	5	<0.2	43	124	>9999Mn 1430P
4401	Location: Rock Type:		5	<0.2	39	78	
	ed, quartz-	medium grey,slightly alter-feldspar-hornblende bear-grained gabbro. Trace py-					
4402	Location: Rock Type:	Holt 6 Diabase.	5	<0.2	155	92	
	green, mode chloritize	op of mottled black and pale erately altered, epidotized, d, hornblende-feldspar bear-grained gabbro.					
4403	Location: Rock Type:	Holt 6 Brecciated Chert.	5	<0.2	75	38	As 25
	fragmented	cop of mottled green-black, chert in a mafic, slightly ine-grained matrix.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4404	Location: Holt 4 Rock Type: Argillite.	5	<0.2	26	50	140As 320Ba
	From outcrop of black, quartz veined, slightly graphitic, finely bedded sed-iment.					
4405	Location: Holt 4 Rock Type: Argillaceous Tuff.	5	<0.2	37	46	
	Calcareous, slightly graphitic, dark green-grey, argillaceous chert with a few mafic grains.					
4406	Location: Holt 2 Rock Type: Lapilli Tuff.	5	<0.2	104	88	
	From outcrop of green-grey, slightly altered, calcareous and chloritic, fragmental chert in a fine-grained groundmass.					
4407	Location: Holt 4 Rock Type: Altered Diorite.	5	<0.2	120	72	100As
	From outcrop of mottled black and green, strongly altered, calcareous and chloritic, quartz-veined, intermediate igneous rock.					
4408	Location: Holt 4 Rock Type: Argillaceous Cherty Tuff.	5	<0.2	10	62	35As 100Ba
	From outcrop of light green-grey, slightly altered, chloritic, cherty, amphibole-feldspar bearing tuff.					
4409	Location: Holt 6 Rock Type: Granite.	5	<0.2	7	48	100Ba
	From boulder of medium-grained, equi- granular, very felsic salmon pink, quartz bearing plutonic rock.					
4410	Location: Extreme N, Slightly E, Holt 1 Rock Type: Diabase.	5	<0.2	6	22	
	From outcrop of black, unaltered, feldspathic, fine-grained diorite with 4% pyrrhotite and trace magnetite.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4411	Location: Slightly NE, Holt l Rock Type: Granite.	5	<0.2	4	6	
	From outcrop of virtually identical rock as #4409.					
4412	Location: Slightly NE, Holt l Rock Type: Amphibolitic Gneiss.	5	<0.2	76	22	
	From outcrop of medium-grained, green-grey, very mafic, well foliated rock of amphibolitic composition with faint alteration and few felsics.					
4413	Location: Slightly S, Far E, Holt 2 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	5	42	
	From outcrop of slightly altered, chloritic, mottled pink and green, quartz-feldspar hornblende porphyry.					
4414	Location: Holt l Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	15	54	
	From outcrop of slightly altered, dull green-grey, feldspar-hornblende-quartz porphyry. Trace hematite.					
4415	Location: Central Holt 4 Rock Type: Tuff.	5	<0.2	117	34	
	From outcrop of green-grey, slightly altered, chloritized feldspar - horn-blende, cherty tuff.					
4416	Location: Central Holt 3 Rock Type: Bedded Tuff.	5	<0.2	88	10	
	From outcrop of black, slightly graphitic, argillaceous, very cherty tuff.	·				
4417	Location: S, Holt 3 Rock Type: Medium-Grained Tuff.	5	<0.2	78	20	160Ba
	From outcrop of dark grey, quartz-feldspar-hornblende tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4418	Location: Central, Slightly W Holt 2	5	<0.2	27	32	70As
	Rock Type: Bedded Chert.					
	From outcrop of banded, grey, slightly graphitic, quartz-veined chert. Trace of disseminated pyrite.					
4419	Location: NW Holt 2 Rock Type: Lapilli Tuff.	5	<0.2	65	40	60As
	From outcrop of green, slightly altered, mafic and cherty, fragmental tuff.					
4420	Location: Central, Slightly W Holt 2	5	<0.2	48	90	35As
	Rock Type: Cherty Argillite.					
	From outcrop of black, argillaceous, graphitic, quartz veined, siliceous argillite. Trace of fine grained pyrite.					
4421	Location: Holt 2 Rock Type: Talc Schist.	5	<0.2	36	8	35Zn
	From outcrop of blue-grey calcareous, chloritic, mafic, talcose schist.					
4422	Location: Extreme S, Central Holt 2 Rock Type: Pillow Basalt.	5	<0.2	175	80	40As
	Outcrop. Dark grey to black, slightly calcareous, very mafic, pyroxene-amphibole bearing basalt. Trace of disseminated pyrrhotite.					
4423	Location: Very SE, Holt ll Rock Type: Diorite.	5	<0.2	27	58	
	From outcrop of mesocratic medium- grained, quartz veined, hornblende- augite bearing diorite.					
4424	Location: Central, Extreme W, Holt 11 Rock Type: Altered Tuff.	5	<0.2	66	42	
	From outcrop of melanocratic, moderately altered, chloritizied, epidotized, feldspar-quartz-hornblende bearing tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4425	Location: Central, Extreme W, Holt 11 L56N-2+50W, Grid A Rock Type: Fine Grained Tuff.	5	<0.2	39	5 0	
	From outcrop of dark green-grey, moderately altered, slightly cherty with jasper, fine-grained tuff.					
4426	Location: Slightly N,W, Holt 11 Rock Type: Feldspar Porphyry.	5	<0.2	4	48	
	From outcrop, dark green to grey, un- altered feldspar - hornblende - quartz porphyry.					
4427	Location: Holt 11 Rock Type: Fine-Grained Tuff.	5	<0.2	63	36	
	From outcrop of dark grey to black, slightly altered, very cherty tuff.					
4428	Location: Holt 12 Rock Type: Cherty Argillite.	5	<0.2	50	82	
	From outcrop of black unaltered siliceous argillite.					
4429	Location: Slightly S, Very W, Holt 8 Rock Type: Banded Chert.	5	<0.2	25	32	
	From outcrop of pale white to dark grey chert.					
4430	Location: Far S, Slightly E Holt 3 Rock Type: Diabase.	5	<0.2	122	26	
	Outcrop of dark grey, unaltered, horn-blende-feldspar-quartz-pyroxene bearing, fine-grained gabbro. Trace pyrite and magnetite.					
4431	Location: Central, Far W, Holt 6 Rock Type: Diorite.	5	<0.2	38	34	
	From outcrop of mottled white, green, grey, unaltered to slightly altered, medium grained, intermediate plutonic.					

Sampl No.	e Description	Au ppb	Ag ppm	Çu ppm	Zn ppm	Other ppm
4432	Location: Extreme S, Slightly E Holt 3 Rock Type: Diabase.	5	<0.2	147	32	
	From outcrop of dark grey, unaltered, hornblende-quartz-feldspar bearing, fine grained gabbro.					
4433	Location: Central, Far W, Holt 6 Rock Type: Diabase.	5	<0.2	116	98	
	From outcrop of medium green-grey, moderately altered, hornblende-feld-spar-greenstone bearing, fine-grained gabbro.					
4434	Location: Central, Far W, Holt 6 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	10	60	
	From outcrop of dark green, mottled, unaltered rock composed of 40% phenocrysts of a sub-equal mafic and felsic composition, in a matrix with a colour index of 35.					
4435	Location: Central, Far W, Holt 6 Rock Type: Altered Chlorite Schist.	5	<0.2	29	60	
	From outcrop of medium green, moderately altered, calcareous, chloritic, hornblende-quartz schist.				•	
4436	Location: Far S, Slightly E, Holt 3 Rock Type: Cherty Tuff.	5	<0.2	77	36	
	From outcrop of black, unaltered, hornblende - feldspar - quartz veined cherty tuff. Trace pyrite.					
4437	Location: NW, Holt 7 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	56	30	
	From outcrop of light green, mottled, unaltered rock, composed of 20% phenocrysts of a sub-equal mafic and felsic composition in a matrix with a colour index of 20. Quartz veins are common. Nodules of disseminated pyrite = 2%.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4438	Location: N, Slightly E, Holt 8 Rock Type: Amygdaloidal Basalt.	5	<0.2	83	50	
	From outcrop of black rock, with amygdules infilled by epidote and calcite, in a matrix with a colour index of 50. About 10% of rock composed of amygdules.					
4439	Location: Slightly SE, Holt 3 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	14	56	
	From outcrop of mottled light pink and light green, slightly altered rock, composed of 30%(?) phenocrysts of a dominantly felsic composition in a matrix with a colour index of 25.					
4440	Location: S, Slightly E, Holt 9 Rock Type: Diabase.	5	<0.2	93	24	
	From outcrop of slightly altered, black, amphibole-feldspar-quartz bearing fine grained gabbro.					
4441	Location: NE, Holt 8 Rock Type: Altered Feldspar- Hornblende Porphyry.	5	<0.2	3	50	
	From outcrop of mottled, pink and green, strongly altered, kaolinitized, chloritized, rock with only 40% original composition of a sub-equal mafic and felsic component. Rock is from a shear zone.					
4442	Location: SW, Holt 8 Rock Type: Porphyritic Mafic Gneiss	5	<0.2	35	62	
	From outcrop of green grey to black, altered, chloritized, epidotized, pyroxene-amphibole-feldspar bearing mafic porphyry.					

Sampl		Au ppb	Ag ppm	Cu ppm	Zn. ppm.	Other ppm
4443	Location: Slightly SE, Holt 2 Rock Type: Porphyritic Mafic Gneiss	5	<0.2	70	50	
	From outcrop of green grey to black, altered, chloritized, epidotized, pyroxene-amphibole-feldspar bearing mafic porphyry. Trace of pyrite and pyrrhotite.					
4444	Location: NE, Holt 8 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	11	44	
	From outcrop of light pink to green to black, unaltered rock, composed of phenocrysts and a matrix of a subequal mafic and felsic composition.					
4445	Location: N, Slightly E, Holt 8 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	5	56	-
	From outcrop of light grey, slightly altered rock composed of 35% phenocrysts of a predominantly felsic composition in a matrix with a colour index of 20.					
4446-	Location: N, Slightly E, Holt 8 Rock Type: Mafic Lapilli Tuff.	5	<0.2	9	28	
	From outcrop of mottled, grey to black, moderately altered, chloritized, amphibole - pyroxene-feldspar tuff.					
4447	Location: W, Holt 8 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	12	18	
	From outcrop of mottled, white to pink to maroon, hematite altered rock, composed of approx. 60% felsic and 25% mafic minerals.					
4448	Location: Central Holt 5 Rock Type: Tuffaceous Chert.	5	<0.2	136	40	
	From outcrop of mainly felsic tuffaceous layers composing 15% of rock, embedded in a pure cherty matrix. Trace of fine-grained pyrite.					

Sampl No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4449	Location: Central, Slightly W, Holt l Rock Type: Silicified Feldspar- Hornblende Porphyry.	5	<0.2	27	92	
	From outcrop of mottled, white and green, strongly silicified, chloritized, altered, bleached, porphyritic rock; no mafics remain. Trace of fine grained pyrite.					
4450	Location: Central, Holt l Rock Type: Argillite.	5	<0.2	134	702	
	From outcrop of black, quartz veined graphitic argillite. Pyrite in fractures and quartz veins, is 3-5% of rock.					
4451	Location: Slightly NW, Holt l Rock Type: Foliated Tuff.	5	<0.2	53	30	
	From outcrop of dark green, metamor- phosed tuff, containing garnet, epi- dote, chlorite, quartz and feldspar. Trace of fine grained pyrite.					
4452	Location: Extreme NW, Holt l Rock Type: Bedded Tuff.	5	<0.2	158	30	
	From outcrop of banded, light to dark green-grey, moderately altered, chloritic, epidotized, hornblende-quartz-feldspar tuff. Pyrite is <3% as disseminated cubes.		•			
4453	Location: SE, Holt 6 Rock Type: Chert and Cherty Tuff.	10	<0.2	26	12	
	From float - quartz almost wholly. Approx. 2-4% disseminated and nodular pyrite.					
4454	Location: SE, Holt 6 Rock Type: Chlorite Schist.	490	10.4	>9999	218	
	From outcrop of green rock of a mainly chlorite and quartz composition. Trace chalcopyrite and 3-5% pyrite. Rock is from a shear zone 10cms wide.					

Sampl No.	-	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4455	Location: Slightly SE, Holt 6 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	77	36	
	From outcrop of mottled grey, slightly altered, very feldpathic rock with a colour index of 70. Approx ~2% pyrite in fracture fillings.					
4456	Location: Slightly S, Central Holt 6 Rock Type: Bull Quartz	5	<0.2	16	24	
	From outcrop of white quartz vein with a bit of chlorite. Trace malachite.					
4457	Location: Slightly S, Central Holt 6 Rock Type: Argillite.	5	<0.2	77	104	
	From outcrop of grey to black, graph- itic quartz veined argillite. Trace pyrite in fracture fillings.					
4458	Location: Slightly SE, Holt 6 Rock Type: Diabase.	5	<0.2	37	82	
	From outcrop of dark grey, moderately altered, epidotized and chloritized, pyroxene-hornblende-feldspar-magnetite bearing, fine-grained gabbro. Pyrite approx. 2% in cubes up to 2mms long.					
4459	Location: Slight S, Central Holt 6 Rock Type: Cherty Tuff.	5	<0.2	441	458	
	From outcrop of milky grey, sili- ceous, chloritized, feldspar tuff. 2% pyrite in veins with trace of chalco- pyrite.					
4460	Location: Central, Holt 6 Rock Type: Diabase Skarn.	5	<0.2	100	458	
	From outcrop. Pink green to dark green, metamorphosed, fine-grained gabbro with garnet and epidote in addition to pyroxene, amphibole and feldspar; colour index of 60. Trace chalcopyrite.		·			

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4461	Location: Slightly NW, Holt 4 Rock Type: Quartz Vein.	5	<0.2	28	36	
	From outcrop, pure white quartz.					
4462	Location: Central, Holt 4 Rock Type: Quartz Vein.	5	<0.2	6	36	
	From outcrop, white iron-stained quartz.					
4463	Location: Central, Moderately E Holt 13	5	<0.2	84	64	
	Rock Type: Chlorite Schist.					
•	From outcrop, dark green, hornblende- quartz-feldspar bearing, green schist. Trace pyrite disseminated and in frac- ture fillings.					
4464	Location: Central, Moderately E Holt 13	5	<0.2	29	34	
	Rock Type: Quartz Epidote Vein.					
	From outcrop, greenish white, quartz-chert-epidote vein. Trace pyrite fine grained and disseminated.					
4465	Location: Slightly NE, Holt 12 Rock Type: Silt Sample.	5	<0.2	80	120	120Ba
4466	Location: Slightly NW, Holt 12 Rock Type: Argillite.	5	1.2	32	62	
	From outcrop of black, cherty, slightly graphitic argillite. Pyrite composed 3-5% of rock.					
4467	Location: Slightly NW, Holt 12 Rock Type: Argillite.	5	1.0	82	58	
	From outcrop of grey, slightly graphitic, sheared, argillite. Pyrite composes 2-5% of rock.					
4468	Location: NW Holt 12 Rock Type: Silt.	5	<0.2	63	80	

Samp1		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4469	Location: Rock Type: Quartz Vein.	5	<0.2	29	60	130Ba
	From outcrop of lapilli tuff which is grey and composed 4/5 of quartz with chlorite, hornblende, epidote and feldspar. Trace malachite.					
4470	Location: Central, Very N, Holt 13 Rock Type: Jasper.	5	<0.2	65	88	
	From float, i.e. boulder of hematized jasper which is very red.					
4471	Location: Moderately N, Central Holt 7 Rock Type: Quartz Vein.	13,200	11.2	35	182	256РЪ
	From float boulder which is rusty, mottled white, and of an oxidized silica composition. Pyrite and various oxides compose 5% of rock.					
4472	Location: Central, Slightly W, Holt 8 Rock Type: Tuffaceous Chert.	40	<0.2	18	38	
	From outcrop of cherty tuff which is green-grey and 2/3 quartz with a little chlorite and feldspar. Trace pyrite which is in tiny cubes.					
4473	Location: Central, Slightly W, Holt 8 Rock Type: Laminated Chert.	20	<0.2	74	118	250Ba
	From outcrop of dark green to black, graphitic, chloritic chert. Up to 5% pyrite; it occurs in laminae parallel to bedding.					
4474	Location: Central, Slightly W, Holt 8 Rock Type: Jasper	10	<0.2	20	14	
	From float, boulder of red hematized jasper. Pyrite composes 3-5% of rock.					
4475	Location: Central, Slightly W, Holt 8 Rock Type: Jasperoid Chert.	5	<0.2	37	38	
	From outcrop of mottled red and black, graphitic chert. Trace of pyrite.					

Sampl No.		Au ppb	Ag ppm	Cu.	Zn ppm	Other ppm
4476	Location: S, Central Holt 4 Rock Type: Altered Andesite.	5	<0.2	120	232	
	From boulder of dark green, moderately altered, epidotized and chloritized, intermediate volcanic with a colour index of 40. Trace pyrite and sphalerite.					
4477	Location: Extreme S, very E, Holt 4 Rock Type: Quartz Vein.	150	>200	>9999	2992	9530Sb
	From small outcrop of calcareous, iron-stained quartz. Malachite = 4%; Azurite = 1%.					
4478	Location: Extreme S, Far E, Holt 4 Rock Type: Altered Andesite.	5	20.5	264	182	20Sb
	From outcrop of strongly altered (ie. epidotized and chloritized), light to medium greenish/blue, intermediate volcanic. Almost no unaltered mafics remain. Trace of pyrite.					
4479	Location: Extreme S, Far E, Holt 4 Rock Type: Skarn.	5	1.8	85	82	70Ba
	From outcrop of banded white pink, green, metamorphic rock. Much chlorite, epidote and and garnet in addition to quartz and feldspar. Trace pyrite.					
4480	Location: NW Holt 5 Rock Type: Skarn Vein in Interbedded Cherts and Tuffs.	5	<0.2	78	36	
	From outcrop of pink, light to dark green intercalated skarn, cherts and tuffs. Skarn is composed of garnet, epidote and quartz. Chert is slightly chloritic whilst tuffs contain mainly felsic minerals. Trace disseminated pyrite.					
4481	Location: NW Holt 5 Rock Type: Chloritic Chert.	5	<0.2	109	50	
	From outcrop of dark green, chlori- tized quartz rich rock. Trace of fine- grained nodular pyrite.					

Samp] No.		Au ppb	Ag ppm	Cu pp m	Zn ppm	Other ppm
4482	Location: NW Holt 5 Rock Type: Quartz Vein.	5	<0.2	25	28	
	From outcrop of milky white, slightly chloritic bull quartz. Traces of finegrained disseminated pyrite.					
4483	Location: NW Holt 5 Rock Type: Fine Grained Tuff.	5	<0.2	24	42	
	From outcrop of dark grey to black siliceous tuff with only a small mafic component. Trace pyrite.					
4484	Location: NW Holt 5 Rock Type: Bedded Tuff.	5	<0.2	137	46	
	From outcrop of dark grey to black, moderately altered (chloritized), mainly felsic tuffs. Pyrite 2-4%, as fracture fillings and dissemination.					
4485	Location: N, Central Holt 5 Rock Type: Quartz Vein.	5	<0.2	166	40	
	From outcrop of mottled white, pink and green chloritic and manganiferous quartz with rhodonite (?). 4% pyrite with trace chalcopyrite.					
4486	Location: NW, Holt 6 Rock Type: Skarn Veinlet.	5	0.2	232	26	
	Mottled pink, white, green, garnet, quartz and epidote bearing skarn. 3% pyrite.					
4487	Location: Extreme NW, Holt 5 Rock Type: Skarn Vein in Bedded Tuffs.	5	0.2	232	26	
	From outcrop of pink, light to dark green, epidote, chlorite, garnet, hornblende, feldspar-quartz bearing skarn. 2% pyrite in fracture fillings and disseminations.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4488	Location: Extreme NW, Holt 5 Rock Type: Quartz-Epidote Vein in Tuff.	5	0.2	114	88	
	From outcrop of fine-grained tuff hosting a quartz-epidote vein. Tuff is dark grey and slightly altered and is composed of chlorite, hornblende and feldspar. Pyrite is present in fracture fillings and is 2-4% of rock.					
4489	Location: NW, Holt 5 Rock Type: Skarn Vein in Tuffs.	5	<0.2	113	32	
	From outcrop of greenish-grey, moder- ately altered, feldspar-hornblende chlorite tuffs hosting a skarn of quartz, garnet and epidote. Trace pyrite and chalcopyrite.					
4490	Location: NW, Holt 7 L20N-2+75W	5	<0.2	25	42	170Ba
	Rock Type: Bedded Cherts.					
	From outcrop of graphitic, chloritic, olive green to dark grey chert.					
4491	Location: Extreme N, Slightly W Holt 7, L20N-50W, Grid A Rock Type: Black Chert.	5	<0.2	105	160	62РЪ
	From outcrop of mottled white, dark grey to black, graphitic chert. Traces of manganese and iron oxides.					
4492	Location: NW Holt 13 Rock Type: Silt.	5	0.2	67	118	
4493	Location: NW Holt 13 Rock Type: Jasper.	10	<0.2	<1	12	
	From float boulder of mottled, red maroon magnetic jasper. 3% pyrite cubes.					
4494	Location: NW Holt 13 Rock Type: Feldspar Porphyry.	5	<0.2	75	24	
	From outcrop of mottled light green, moderately altered (epidotized and iron stained), quartz-feldspar porphyry. Trace of fine-grained pyrite.					

Sample No.	e Description	Au ppb	Ag	Cu ppm	Zn ppm	Other ppm
4495	Location: NW Holt 13 Rock Type: Jasper Vein in Chlorite Schist.	5	<0.2	227	66	
,	Red jasper vein in medium green quartz-chlorite, hematite-hornblende schist. 3-5% pyrite, trace chalcopyrite. Jasper veins can be traced 3 metres across creek.					
4496	Location: NW Holt 13 Rock Type: Chlorite Schist.	10	0.2	556	140	
	From float boulder of dark green, strongly silicified feldspar-chlorite schist. 4-7% pyrite disseminated in cubes up to lmm long and in sparse aggregates.					
4497	Location: Extreme NW, Holt 14 Rock Type: Silt.	5	0.2	118	118	
4498	Location: SE Holt 6 Rock Type: Chlorite Schist.	5	<0.2	168	100	170Ba
	From outcrop of medium green quartz-feldspar - chlorite schist. 2-4% pyrite.					
4499	Location: Extreme NW, Holt 14 Rock Type: Silt.	5	0.2	51	58	
4500	Location: S, Extreme E, Holt 6 Rock Type: Argillite.	5	<0.2	58	124	390Ba
	From outcrop of black, graphitic, sili-ceous, argillite. 2% pyrite disseminated and in fracture fillings.					
4702	Location: Slightly NW, Holt 7 Rock Type: Jasperoid Chert.	5	0.2	68	8	
	Maroon and milky grey, graphitic interbedded jasper and chert.					
4703	Location: Slightly NW, Holt 7 Rock Type: Jasper	5	<0.2	12	8	
	From outcrop of jasper which occurs as a pod in chert.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4704	Location: N, Slightly W, Holt 7 Rock Type: Argillite.	5	0.4	26	30	140As
	From outcrop of black, siliceous, slightly graphitic, oxidized argillite. 5% pyrite; it is most abundant in oxidized zones as stringers.					
4705	Location: SW, Holt 8 Rock Type: Silt.	5	0.2	43	66	Bal60
4706	Location: Slightly SE, HOlt 7 Rock Type: Jasperoidal Chert.	5	0.2	10	6	595As
	Float boulder of red, iron-stained and argillaceous jasperoidal chert. Trace-5% pyrite which is disseminated and in fracture fillings. Trace chalcopy-rite.					
4707	Location: Slightly Se, Holt 7 Rock Type: Jasperoidal Chert.	5	0.2	6	4	
	Outcrop of red, iron-stained and argi- llaceous jasperoidal chert. Trace- 5% pyrite which is disseminated and in fracture fillings. Trace chalcopy- rite.					
4708	Location: Slightly SE, Holt 7 Rock Type: Jasperoidal Chert.	5	0.2	51	4	
	Outcrop of red, iron-stained and argi- llaceous jasperoidal chert. Trace- 5% pyrite which is disseminated and in fracture fillings. Trace chalcopy- rite. More weathered.					
4709	Location: Central, Slightly E Holt 7 Rock Type: Quartz Vein.	5	0.2	12	2	
	From outcrop of calcareous quartz material which is milky white. Trace disseminated pyrite.					
4710	Location: N, Central Holt 3 Rock Type: Granodiorite.	5	0.2	3	20	
	From outcrop of white and black medium grained granitoid rock with a colour index of 20.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4711	Location: Slightly SW, Holt 6 Rock Type: Diorite.	5	0.2	19	60	
	From outcrop of white and black, medium grained, intermediate plutonic rock with a colour index of 40.					
4712	Location: Very S, Slightly W, Holt II Rock Type: Feldspar-Hornblende Porphyry.	5	0.2	21	42	
	From outcrop of dark green, mottled rock composed of phenocrysts and a matrix of sub-equal mafic and felsic composition.					
4713	Location: Slightly NE, Holt 11 Rock Type: Epidote Veins in Diabase/ Diorite.	5	0.2	10	20	
	From outcrop of fine to medium-grained intermediate plutonic rock.					
4714	Location: W, Central Holt 6 Rock Type: Rock	5	0.2	158	18	
	Outcrop.					
4715	Location: Central Holt 2 Rock Type: Pillow Basalt.	5	0.2	142	6	
	Outcrop of Karmutsen mafic volcanics.					
4716	Location: Central, Far W, Holt 2 Rock Type: Rock	5	0.2	149	70	
	Outcrop.					
4717	Location: Extreme S, Central	5	0.2	146	58	
	Holt 7 Rock Type: Basalt.					
	Outcrop of pillow basalt.					
4718	Location: Central Holt 4 Rock Type: Tuff.	5	0.2	99	26	
	Outcrop of bedded tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4719	Location: Central Holt 13 Rock Type: Bedded Tuff.	5	0.4	106	70	
	Outcrop of bedded tuff.					
4720	Location: Rock Type: Mafic Tuff.	5	0.2	40	68	
	Outcrop of mafic tuff.					
4721	Location: Central, Far W, Holt 6 Rock Type: Rock.	5	0.2	352	50	
	Outcrop of dark, manganiferous rock with epidote veins.					
4722	Location: Extreme NW, Holt 9 Rock Type: Diabase.	5	0.2	77	68	
	Outcrop of very fine-grained diabase.					
4723	Location: NW, Holt 7 Rock Type: Mafic Porphyry.	5	0.2	79	74	
	Outcrop of mafic porphyry.					
4724	Location: N, Slightly E, Holt 8 Rock Type: Lapilli Tuff.	5	<0.2	73	40	
	Outcrop of foliated, fine-grained la- pilli tuff.					
4725	Location: Extreme NW, Holt 10 Rock Type: Lapilli Tuff.	5	0.2	-0.4	147	
	Outcrop of lapilli mafic tuff.					
4726	Location: Central W, Holt 10 Rock Type: Lapilli Tuff.	5	0.2	134	70	
	Outcrop of medium green lapilli tuff.					
4727	Location: Far S, Slightly E Holt 9	5	0.2	62	38	
	Rock Type: Crystal Tuff.					
	Outcrop of hornblende crystal tuff.					
4728	Location: N, Holt l Rock Type: Lapilli Tuff.	5	0.2	138	60	
	Outcrop of lapilli Tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4729	Location: S, Extreme E, Holt 11 Rock Type: Mafic Porphyry.	5	0.2	84	30	
	Outcrop of mafic porphyry.					
4730	Location: Moderately S, Extreme E Holt 11 Rock Type: Quartz Vein.	10	<0.2	188	16	
	From outcrop of white quartz vein in diabase.					
4731	Location: Central W, Holt 8 Rock Type: Lapilli Tuff.	5	<0.2	94	44	
	From outcrop of mottled green tuff with lapilli fragments mainly of mafic composition; as is the matrix.					
4732	Location: Central W, Holt 8 Rock Type: Diabase.		<0.2	20	14	
	From outcrop of green grey, moderately epidote altered, mainly mafic diabase. Mafics (pyroxene and amphiboles) compose 3/4 of rock.					
4733	Location: W, Holt 6 Rock Type: Diabase.	5	<0.2	135	64	
	From outcrop of black and green epidote veined diabase; it has a very mafic composition. A bit of magnetite.					
4734	Location: Slightly SE, Holt 2 Rock Type: Coarse Grained Tuff.	5	<0.2	56	78	
	From outcrop of dark grey, slightly altered, quartz, calcite, hornblende, feldspar tuff. Trace pyrite.					
4735	Location: Slightly NW, Holt 4 Rock Type: Diabase (?).	5	<0.2	13	60	
	From outcrop of slightly altered, cal- careous, quartz - feldspar - horn- blende diabase. Trace of fine grained tuff.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4736	Location: Slightly S, Far W, Holt 6 Rock Type: Diorite.	5	<0.2	162	32	
	Outcrop of mottled white green-grey, feldspar and hornblende bearing, (with a little quartz and pyroxene) Diorite.					
4737	Location: Very S, Slightly W, Holt 8 Rock Type: Interbedded Chert-Tuff.	5	<0.2	42	66	
	From outcrop of medium grey, slightly altered and graphitic chert with intercalated feldspar-hornblende rich tuff. Trace of fine grained pyrite.					
4738	Location: Central, Far E, Holt 2 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	61	60	
	From outcrop of mottled white and green-grey, slightly altered, quartz - hornblende-feldspar porphyry.					
4739	Location: Central, Far E, Holt 2 Rock Type: Coarse Lapilli Tuff.	5	<0.2	83	46	
	From outcrop of mottled green-grey to black, slightly altered, chloritic and calcareous, quartz - feldspar - horn-blende lapilli tuff.					
4740	Location: S, Holt 3 Rock Type: Feldspar-Hornblende Porphyry.	5	<0.2	12	80	
	From mottled green-grey-white outcrop of slightly altered quartz-feldspar - hornblende porphyry.					
4741	Location: Far S, Moderately E Holt 3 Rock Type: Coarse Grained Lapilli Tuff.	5	<0.2	82	32	
	From outcrop of dark green-grey, moderately altered, quartz, hornblende, feldspar lapilli tuff.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn pp m	Other ppm
4742	Location: Extreme S, Slightly E Holt 3. Moderately S, Holt 11.	5	<0.2	33	324	
	Rock Type: Granodiorite.					
	From outcrop of mottled black and pink, felsic, hornblende bearing medium grained granitoid rock.					
4743	Location: Slightly N, Far W, Holt 4 Rock Type: Fine Grained Tuff.	5	<0.2	111	42	
	Outcrop of slightly altered feldsparquartz-hornblende, dark grey tuff.					
4744	Location: Slightly N, Far W, Holt 4 Rock Type: Fine Grained Tuff.	5	<0.2	87	30	
	From outcrop of dark grey, moderately altered, calcareous, feldspar-quartz-hornblende tuff. Trace of pyrrhotite.					
4745	Location: NW Holt 4 Rock Type: Mafic Porphyritic Agglomerate.	5	<0.2	77	50	
	From outcrop of dark grey, strongly altered, chloritic and calcareous hornblende pyroxene - feldspar-quartz agglomerate.					
4746	Location: Extremely NW, Holt 12 Rock Type: Coarse Lapilli Tuff.	5	<0.2	122	62	
	From outcrop of light medium grey, slightly altered, cherty, hornblende-feldspar bearing lapilli with much fine-grained tuff.					
4747	Location: SE Holt 13 Rock Type: Feldspar Hornblende Porphyry.	5	<0.2	101	82	
	From outcrop of dark grey porphyry with fragments of feldspar, hornblende and quartz in a matrix with a colour index of approx. 50.					

Sampl		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
4748	Location: Central Holt 13 Rock Type: Bedded Tuff.	5	<0.2	80	56	
	From outcrop of green-grey to brown, slightly altered, very cherty tuff.					
4749	Location: Overly Extreme N, Central Holt 13 Rock Type: Argillite.	51	<0.2	45	94	160Ba
	From outcrop of black, slightly graphitic argillite with 3% sulphides; pyrite.					
4750	Location: N, Holt 13 Rock Type: Cherty Tuff.	5	<0.2	31	66	40Pb
	From outcrop of black, graphitic, quartz veined siliceous tuff. Trace of disseminated pyrite.					
9301	Location: Extreme SW, Holt 8 Rock Type: Rock.	10 20	1.6 0.4	30 17	130 30	52Pb 34Pb
	Outcrop.					
9302	Location: SW Corner, Holt 12 Rock Type: Pyritic Chert.	10	1.6	64	190	36Pb
	From outcrop of pure black siliceous chert. Pyrite 75% - disseminated.					
9303	Location: SE Corner, Holt 4 Rock Type: Rock.	20	9.2	196	70	
	Outcrop.					
9304	Location: SE Corner, Holt 6 Rock Type: Black Shale.	10	0.2	25	60	
	From black, aphanitic, well-bedded outcrop with 5% pyrite.					
9305	Location: NE Corner, Holt 8 Rock Type: Rock.	10	0.2	33	100	
	Outcrop.					
9306	Location: W Side, Holt 4 Rock Type: Rock.	10	0.2	113	30	
	Outcrop.					

Sampl No.		Description	Au ppl	Ag ppm	Cu ppm	Zn ppm	Other ppm
9307	Location: Rock Type:		10	0.2	97	80	
9308	Location: Rock Type:	Extremely SW, Holt 12 Silt.	10	0.2	130	100	
9309	Location: Rock Type:	N, Extreme E, Holt 8 Silt.	10	0.2	45	60	
9310	Location: Rock Type:	Extreme NW, Holt 6	10	0.2	47	60	
9311	Location: Rock Type:	Extremely SW, Holt 12 Silt.	10	0.2	162	100	
9312		Slightly N, Extreme E Holt 1	10	0.2	17	15	
9313	Rock Type: Location:	Extreme S, Slightly W Holt 7	10	0.2	34	70	
	Rock Type:						
9314	Location: Rock Type:	Extreme S, Far W, Holt 7 Silt.	10	0.2	43	60	
9315	Location: Rock Type:	N, Central Holt 5 Silt.	10	0.2	55	60	
9316	Location: Rock Type:	Overly Extreme NW, Holt 5 Silt.	10	0.2	49	50	
9317	Location: Rock Type:	N, Slightly W, Holt 5 Silt.	10	0.2	59	60	
9318	Location: Rock Type:	N, Holt 4, E Holt 6 Silt.	10	0.2	29	50	
9319	Location: Rock Type:	Overly Extreme NE, Holt 6 Silt.	10	0.2	26	50	
9320	Location: Rock Type:	W, Central Holt 4 Silt.	10	0.2	51	60	
9321	Location:	Extreme N, Central Holt 9	10	0.2	49	80	
	Rock Type:	Silt.					
9322	Location: Rock Type:		10	0.2	42	60	

Sampl No.	e	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
9323	Location: Rock Type:	N, Extreme E, Holt 6 Silt.	10	0.2	26	50	
9324	Location: Rock Type:	Overly Extreme SW, Holt 2 Silt.	10	0.2	59	90	
9325	Location: Rock Type:	Extremely N, Central Holt 2	10	0.2	51	100	
9326	Location:	Extremely N, Central Holt 6	10	0.2	27	70	
0227	Rock Type:		10	0.2	22	60	
9327	Rock Type:	N, Extreme E, Holt Silt.	10	0.2	32	60	
9328	Location: Rock Type:	Holt 7 Silt.	10	0.2	53	70	
9329	Location:	Central, Extremely E Holt 12	10	0.2	46	80	
	Rock Type:	Silt.					
9330	Location: Rock Type:	Extreme N, Central Holt 9 Silt.	10	0.2	63	80	40Pb
14652	Location:	Holt 7, SE Corner, inter- section of powerline and mainline road.	5	<0.2	23	20	
	Rock Type:	Chlorite Epidote Schist.					
		een schist with stock work chonate veins. Trace of 1% ed pyrite.					
14653	Location:	Holt 7, SE Corner, on main- line at intersection with powerline.	5	0.4	102	70	
		Chlorite Schist.					
	fine grain	cop, dark green and maroon, ned altered volcanic. Iron e. slight rusty appearance.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14654	Location: Holt 7, SE Corner, on A grid at approx. 15-0+25W Rock Type: Quartz-Carbonate Vein in Tuff.	70	1.2	170	108	175As
	Float. White veins within a dark black mafic tuff. Small rounded rock up to 4% disseminated pyrite.					
14655	Location: Holt 7, SE Corner on A Grid at approx. 15-0+25W Rock Type: Schisty Tuff.					
	Float. Dark black, chloritized tuff. Trace disseminated pyrite.					
14656	Location: Holt 7, Extreme SE Corner beside Holt 7 LCP at road intersection. Rock Type: Mafic Tuff.	5	0.2	222	56	
	Float. Black fine-grained tuff. Up to 3% disseminated pyrite. Large angular float, may be subcrop.					
14657	Location: Holt Grid A, L5N-3+50W, Rock Type: Banded (Compositionally Layered Chert).	5	0.2	34	36	
	From outcrop. Medium to dark grey thinly banded chert. A distinct white weathering surface is common. No visible sulphides. A very continuous horizon of <800m). Horizon strikes ~120° and dips ~70°N. Unit is interbedded with green andesitic flows and sometimes is overlain by black shale and bedded tuffs.					
14658	Location: ~L4N-lW Rock Type: Banded (Compositionally Layered Chert).	5	0.2	104	22	
	From outcrop. Medium to dark grey thinly banded chert. A distinct white weathering surface is common. No visible sulphides. A very continuous horizon of <800m). Horizon strikes ~120° and dips ~70°N. Unit is interbedded with green andesitic flows and sometimes is overlain by black shale and bedded tuffs.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14659	Location: Holt Grid A ~L4N-1W Rock Type: Rock	5	0.2	16	50	
14660	Location: Holt Grid A ~L4N-2W Rock Type: Rock	5	0.2	53	76	
14661	Location: Holt Grid A ~LON-1+75W Rock Type: Rock	5	0.2	4	56	
14662	Location: ~L7N-4W Rock Type: Banded (Compositionally Layered Chert).	5	0.2	12	34	
	From outcrop. Medium to dark grey thinly banded chert. A distinct white weathering surface is common. No visible sulphides. A very continuous horizon of <800m). Horizon strikes ~120° and dips ~70°N. Unit is interbedded with green andesitic flows and sometimes is overlain by black shale and bedded tuffs.					
14663	Location: Holt Grid A, L5N-0+25W Rock Type: Black Shale.	5	0.2	36	72	
	From outcrop. Black, aphanitic, well fractured shale, with a very distinct white weathered surface. It is interbedded with light grey, laminated siltstones. The unit strikes "110" and dips north. It appears to overlie the chert horizon? Trace pyrite mineralized as disseminated blebs and grains is seen throughout. May be a "marker horizon" overlying chert beds.					
14664	Location: Holt Grid A, L10+50N - 0+30W Rock Type: Silicified Pyroxene Porphyritic Volcanic.	5	0.2	40	60	
	From outcrop. Light grey-green, fine grained to faintly pyroxene porphyritic, slightly silicified, andesitic to basaltic flow rock. Regionally this rock overlies the chert and pillow horizons. Approx. 3-5% disseminated to blebby pyrite. Continuous outcrop on road for +20m.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14665	Location: Holt 7, Grid A ~L10N-0+50W Rock Type: Banded Grey-Green Chert.	5	0.2	8	50	
	Outcrop. Medium grey-green bedded (1-3cm) to thinly laminated chert. Weathers to white. Unit continuous on a kilometer scale. Unit overlies pillows and in places is interbedded with thin volcanic flows/tuffs.					
14666	Location: Holt 7, Grid A, ~L9N-1+75E Rock Type: Quartz Vein Stockwork.	5	0.2	75	6	
	Outcrop. White to light grey, quartz vein stockwork zone (~20cm wide) hosted in green volcanic flows or tuffs. No visible Sulphides, vein attitude is $080^{\circ}/70^{\circ}$. The ~20cm wide zone is continuous across outcrop for ~10m.					
14667	Location: Holt 8, Grid A, ~L20N-0+50E Rock Type: Black Chert.	5	0.2	44	78	
	Outcrop. Good exposure along road of a black amorphous chert with indistinct bedding. This chert appears to be interbedded with the well layered, grey-green chert horizon. Approx. 3 to 5% pyrite as disseminated grains and blebs. Likely syngenetic. Horizon may be ~20m thick. This horizon likely correlative with black chert found near line 5S-1E.					
14668	Location: NW Holt 7, Grid A ~L17N-2+25W Rock Type: Grey-Green Banded Chert.	5	0.2	62	28	
	Outcrop. Good exposure on road of the well bedded, medium grey-green chert horizon. White weathering surfaces are common, and here the chert is folded producing variable bed attitudes. No visible sulphides. Continuous outcrop on road for ~10m.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14669	Location: S, Holt 6 Grid A, L5S-lE Rock Type: Black Chert.	10	0.8	24	40	130As
	Outcrop. Good exposure of a well bedded (1 to 5cm) black chert sequence. The beds strike 110° and dip "30°N. Folding deforms bed attitudes. The horizon overlies pillows and is interbedded within a grey-green chert horizon. There is 10 to 20% massive bands, stringers and blebs of fine grained pyrite; some appear to be syngenetic mineralization rather than the epigenetic vein filling zones present. Outcrop is approx. 10m long and horizon is "2m thick as exposed. This outcrop may be correlative with the black cherty (pyritiferous) unit found on road near L19N.					
14670	Location: S, Holt 6 Grid A, L5S-1E Rock Type: Black Chert.	5	4.2	106	14	225As
	Outcrop. Good exposure of a well bedded (1 to 5cm) black chert					

bedded (1 to 5cm) black chert sequence. The beds strike 110° and dip "30°N. Folding deforms bed attitudes. The horizon overlies pillows and is interbedded within a grey-green chert horizon. There is 10 to 20% massive bands, stringers and blebs of fine grained pyrite; some appear to be syngenetic mineralization rather than the epigenetic vein filling zones present. Outcrop is approx. 10m long and horizon is "2m thick as exposed. This outcrop may be correlative with the black cherty (pyritiferous) unit found on road near L19N.

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14671	Location: S, Holt 6 Grid A,~L5S-1E Rock Type: Black Chert.	5	7.2	288	28	405As
	Outcrop. Good exposure of a well bedded (1 to 5cm) black chert sequence. The beds strike 110° and dip ~30°N. Folding deforms bed attitudes. The horizon overlies pillows and is interbedded within a grey-green chert horizon. There is 10 to 20% massive bands, stringers and blebs of fine grained pyrite, some appear to be syngenetic mineralization rather than the epigenetic vein filling zones present. Outcrop is approx. 10m long and horizon is ~2m thick as exposed. This outcrop may be correlative with the black cherty (pyritiferous) unit found on road near L19N.					
14672	Location: Central W, Holt 11, Grid A ~L57N - 1+75W Rock Type: Grey-Green Bedded Chert.	5	0.2	64	54	
	Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly					

Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly laminated, medium grey-green, amorphous chert that often weathers to a distinct white colour. Folding is common but regionally bed attitudes are consistently 110-130°/40-60°N. The horizon is ~100m thick and is overlain by bedded tuffs and underlain by pillowed, epidotized basalts with jasper. Interbedded flows are common at the base of the chert horizon. No visible sulphides. The horizon is continuous for at least 7km, (i.e. L12S to L57N).

Sample No.	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14673	Location: Central W, Holt 11, Grid A "L56N - 1+50W Rock Type: Grey-Green Bedded Chert. Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly laminated, medium grey-green, amorphous chert that often weathers to a distinct white colour. Folding is common but regionally bed attitudes are consistently 110-130°/40-60°N. The horizon is "100m thick and is overlain by bedded tuffs and underlain by pillowed, epidotized basalts with jasper. Interbedded flows are common at the	5	0.2	29	10	
	base of the chert horizon. No visible sulphides. The horizon is continuous for at least 7km, (i.e. LI2S to L57N).					
14674	Location: Central W, Holt 11, Grid A ~L54N - 1+25W Rock Type: Grey-Green Bedded Chert.	5	0.2	107	66	
	Outcrop. Very continuous horizon of					

Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly laminated, medium grey-green, amorphous chert that often weathers to a distinct white colour. Folding is common but regionally bed attitudes are consistently 110-130°/40-60°N. The horizon is ~100m thick and is overlain by bedded tuffs and underlain by pillowed, epidotized basalts with jasper. Interbedded flows are common at the base of the chert horizon. No visible sulphides. The horizon is continuous for at least 7km, (i.e. L12S to L57N).

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14675	Location: Central W, Holt 11, Grid A ~L52N - 1+75W Rock Type: Grey-Green Bedded Chert.	5	0.2	5	12	
	Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly laminated, medium grey-green, amorphous chert that often weathers to a distinct white colour. Folding is common but regionally bed attitudes are consistently 110-130°/40-60°N. The horizon is ~100m thick and is overlain by bedded tuffs and underlain by pillowed, epidotized basalts with jasper. Interbedded flows are common at the base of the chert horizon. No visible sulphides. The horizon is continuous for at least 7km, (i.e. L12S to L57N).					
14676	Location: Central W, Holt 11, Grid A ~L50N - 2W Rock Type: Grey-Green Bedded Chert.	5	0.2	20	28	

Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly laminated, medium grey-green, amorphous chert that often weathers to a distinct white colour. Folding is common but regionally bed attitudes are consistently $110-130^{\circ}/40-60^{\circ}N$. The horizon is ~100m thick and is overlain by bedded tuffs and underlain by pillowed, epidotized basalts with jasper. Interbedded flows are common at the base of the chert horizon. No visible sulphides. The horizon is continuous for at least 7km, (i.e. L12S to L57N).

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14677	Location: Central W, Holt 11, Grid A ~L49N - 2+50W Rock Type: Grey-Green Bedded Chert.	5	0.2	39	42	
	Outcrop. Very continuous horizon of well bedded (0.5 to 3cm) to thinly laminated, medium grey-green, amorphous chert that often weathers to a distinct white colour. Folding is common but regionally bed attitudes are consistently 110-130°/40-60°N. The horizon is ~100m thick and is overlain by bedded tuffs and underlain by pillowed, epidotized basalts with jasper. Interbedded flows are common at the base of the chert horizon. No visible sulphides. The horizon is continuous for at least 7km, (i.e. L12S to L57N).					
14678	Location: S, Holt 6 Grid A, L5S-lE Rock Type: Black Chert.	5	5.8	185	12	290As

Outcrop. Good exposure of a well bedded (1 to 5cm) black chert sequence. The beds strike 110° and dip ~30°N. Folding deforms bed attitudes. The horizon overlies pillows and is interbedded within a grey-green chert horizon. There is 10 to 20% massive bands, stringers and blebs of fine grained pyrite; some appear to be syngenetic mineralization rather than the epigenetic vein filling zones present. Outcrop is approx. 10m long and horizon is ~2m thick as exposed. This outcrop may be correlative with the black cherty (pyritiferous) unit found on road near L19N.

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14679	Location: S, Holt 6 Grid A, L5S-1E Rock Type: Black Chert.	5	4,8	203	58	320As
	Outcrop. Good exposure of a well bedded (1 to 5cm) black chert sequence. The beds strike 110° and dip ~30°N. Folding deforms bed attitudes. The horizon overlies pillows and is interbedded within a grey-green chert horizon. There is 10 to 20% massive bands, stringers and blebs of fine grained pyrite; some appear to be syngenetic mineralization rather than the epigenetic vein filling zones present. Outcrop is approx. 10m long and horizon is ~2m thick as exposed. This outcrop may be correlative with the black cherty (pyritiferous) untifound on road near L19N.					
14680	Location: S, Holt 6 Grid A, L5S-lE Rock Type: Black Chert.	5	3,8	241	24	215As

Outcrop. Good exposure of a well bedded (1 to 5cm) black chert sequence. The beds strike 110° and dip ~30°N. Folding deforms bed attitudes. The horizon overlies pillows and is interbedded within a grey-green chert horizon. There is 10 to 20% massive bands, stringers and blebs of fine grained pyrite; some appear to be syngenetic mineralization rather than the epigenetic vein filling zones present. Outcrop is approx. 10m long and horizon is ~2m thick as exposed. This outcrop may be correlative with the black cherty (pyritiferous) unit found on road near L19N.

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14681	Location: Holt 7, Grid A, Trench #1	5	0.4	53	26	
	Outcrop. Well exposed rock in trench of a medium to light grey, medium grained, and strongly quartz-amygda-loidal, andesite flow rock. Amygdules are often black and up to 5mm and <1% of rock. Silicification is possible and may have "blurred" the textures. Approximately 10% pyrite most common as disseminated fine grains throughout. Minor small blebs and stringers are present. The outcrop is 5m long.					
14682	Location: Holt 7, Grid A, Trench #1	5	0.8	325	38	
	Outcrop. Well exposed rock in trench of a medium to light grey, medium grained, and strongly quartz-amygdaloidal, andesite flow rock. Amygdules are often black and up to 5mm and <1% of rock. Silicification is possible and may have "blurred" the textures. Approximately 10% pyrite most common as disseminated fine grains throughout. Minor small blebs and stringers are present. The outcrop is 5m long.					
14683	Location: Holt 7, Grid A, Trench #1 ~LllN - 0+75E Rock Type: Altered Flow Rock (andesite)	5	1.4	77	6	
	Outcrop in trench. Poor exposure of a zone of rusty-coloured, well weathered and well altered (silicified), light grey andesite flow rock. Up to 20% disseminated grains and stringers of pyrite. Outcrop 3m long.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14684	Location: Holt 7, Grid A, Trench #1 ~LllN - 0+75E Rock Type: Amygdaloidal Flow (andesite).	5	1.0	30	76	
	Outcrop. Well exposed rock in trench of a medium to light grey, medium grained, and strongly quartz-amygda-loidal, andesite flow rock. Amygdules are often black and up to 5mm and <1% of rock. Silicification is possible and may have "blurred" the textures. Approximately 10% pyrite most common as disseminated fine grains throughout. Minor small blebs and stringers are present. The outcrop is 5m long.			٠		
14685	Location: Holt 7, Grid A, Trench #1 ~Ll1N - 0+75E Rock Type: Amygdaloidal Flow (andesite).	5	4.2	123	26	
	Outcrop. Well exposed rock in trench of a medium to light grey, medium grained and strongly quartz-amygdaloidal, andesite flow rock. Amygdules are often black and up to 5mm and <1% of rock. Silicification is possible and may have "blurred" the textures. Approximately 10% pyrite most common as disseminated fine grains through-out. Minor small blebs and stringers are present. The outcrop is 5m long.					
14686	Location: Holt 7, Grid A, Trench #1 ~L10N - 0+75E Rock Type: Intensely Altered Flow (andesite).	5	0.8	56	28	
	Outcrop showing good exposure of an 720m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rock. Silicification is locally pervasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite 715 to 20%.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14687	Location: Holt 7, Grid A, Trench #1 ~L10N - 0+75E Rock Type: Intensely Altered Flow (andesite).	5	0.8	100	34	
	Outcrop showing good exposure of an ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rock. Silicification is locally pervasive to make rock look like a large quartz vein. Carbonate alteration is much less perva-sive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%.	•				
14688	Location: Holt 7, Grid A, Trench #1 ~L10N - 0+75E Rock Type: Intensely Altered Flow (andesite).	40	1.6	53	14	
	Outcrop showing good exposure of an ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rock. Silicification is locally pervasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%.					
14689	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Andesite Flow Rock.	5	1.0	106	52	
	A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is not present. Pyrite min-eralization is decreased to ~1 to 5% as disseminated grains throughout.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14690	Location: Holt 7, Grid A, Trench #1 TL10N Rock Type: Andesite Flow Rock.	5	0.2	202	60	
	A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is not present. Pyrite mineralization is decreased to ~1 to 5% as disseminated grains throughout.					
14691	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Andesite Flow Rock.	5	0.4	270	70	
	A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is decreased to ~1 to 5% disseminated grains throughout.					
14692	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Andesite Flow Rock.	5	0.6	115	56	
	A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is not present. Pyrite mineralization is decreased to "l to 5% disseminated grains throughout.					
14693	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Andesite Flow Rock.	5	0.2	88	40	
	A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is not present. Pyrite mineralization is decreased to ~1 to 5% disseminated grains throughout.					

•	Sample No.	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
	14694	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Andesite Flow Rock.	5	0.2	66	30	
		A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is not present. Pyrite mineralization is decreased to ~1 to 5% disseminated grains throughout.					
	14695	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Andesite Flow Rock.	5	0.4	124	66	
		A 20m long outcrop shows good exposure towards the end of the trench of the more common, medium grey-green, aphanitic flow rocks. Alteration is not present. Pyrite mineralization is decreased to "1 to 5% disseminated grains throughout.					
	14696	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Altered Flow Rocks.	5	0.2	79	10	
		Outcrop "5m long with good exposure of a narrow zone of highly altered rock within the medium green, aphanitic, andesitic flow rocks. Silicification is pervasive and amygdaloidal textures are obscured. Disseminated pyrite "10 to 15%.					
	14697	Location: Holt 7, Grid A, Trench #1 ~L10N - 0+75E Rock Type: Intensely Altered Flow (andesite).	30	2.0	28	8	
		Outcrop showing good exposure of a ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rock. Silicification is locally pervasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be strata-bound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%.					

Sample No.	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14698	Location: Holt 7, Grid A, Trench #1 "L10N - 0+75E Rock Type: Intensely Altered Flow (andesite).	150	2.4	41	6	
	Outcrop showing good exposure of a ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rock. Silicification is locally pervasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be grains, isolated blebs and narrow stringers of pyrite ~15 to 20%.					
14699	Location: Holt 7, Grid A, Trench #1 ~L10N - 0+75E Rock Type: Intensely Altered Flow (andesite).	5	0.8	94	20	
	Outcrop showing good exposure of a ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rock. Silicification is locally pervasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%.					
14700	Location: Holt 7, Grid A, Trench #1 ~L10N Rock Type: Amygdaloidal Flow (andesite).	20	0.6	51	32	
	Outcrop of well exposed rock of a medium to light grey, medium grained, and strongly quartz amygdaloidal, andesitic flow rock. Amygdules are often black, <5mm and <1% rock is slightly silicified. Disseminated fine grained, minor blebs of and stringers of pyrite up to ~10%.					
14701	Location: Central, Extreme E, Holt 12 at mainline road. Rock Type: Silt.	5	0.2	49	78	1684Mn

Sample No.	e	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14702	Location:	Central, Holt 10 at mainline road	5	0.4	86	74	7283Mn 1090P
	Rock Type:	Silt.					
14703	Location:	Central, Slightly E, Holt 10 at mainline road.	5	<0.2	59	58	1219Mn
	Rock Type:	Silt.					
14704	Location:	Slightly S & W, Holt 10 of mainline road.	5	<0.2	14	110	1420P 6707Mn
	Rock Type:	Silt.					
14705	Location:	N, Central Holt 7 LllN - 5E Grid A	5	<0.2	28	26	40As
	Rock Type:	Pyritized Black Chert.					
	to 3% diss	ack quartz veined chert. Up seminated and stringers of and on road near culvert.					
14706	Location: Rock Type:	NE, Holt 6 at mainline rd. Silt.	5	<0.2	32	70	
14707	Location: Rock Type:	NE, Holt 6 at mainline rd. Silt.	5	<0.2	33	50	
14708	Location: Rock Type:	NW Corner, Holt 5 near mainline road. Silt.	5	<0.2	75	92	
	Sample fr	flowing stream 0.5m wide. om active stream sediment ravelly silt.					
14709	Location: Rock Type:	N, Central Holt 4 near rd. Silt.	5	0.2	111	78	
14710	Location: Rock Type:	N, Central Holt 4 near rd. Silt.	5	<0.2	63	70	
14711	Location: Rock Type:		5	0.2	50	82	7852Mn
14712	Location: Rock Type:	NE Holt 4 Silt.	5	0.4	63	72	4657Mn 1070P
14713	Location: Rock Type:	S, Central, E Holt 4 Silt.	5	0.2	92	118	30As
14714	Location: Rock Type:	Central E, Holt 4 Silt.	5	0.4	111	76	5827Mn 1340P

Sample No.	e	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14715	Location: Rock Type:	Central W, Holt 3 Silt.	5	<0.2	57	44	
14716	Location: Rock Type:	Central W, Holt 2 Silt.	5	<0.2	76	140	
14717	Location: Rock Type:	Central W, Holt 2 Silt.	5	<0.2	70	84	1065Mn
	Flowing stream.						
14718	Location: Rock Type:	Central W, Holt 2 Silt.	5	<0.2	79	78	1189Mn
14719	Location: Rock Type:	Central, Slightly W, Holt 2 Silt.	5	<0.2	69	106	300Ba 1106Mn
14720	Location: Rock Type:	Central Holt 2 Silt.	5	<0.2	62	110	180Ba
14721	Location: Rock Type:	N, Central Holt 2 Silt.	5	0.2	48	122	240Ba >1000Mn
14722	Location: Rock Type:	N, Central Holt 2 Silt.	5	<0.2	54	88	140Ba 6964Mn
14723	Location: Rock Type:	Extreme S, Central Holt 1 Silt.	5	<0.2	58	60	100Ba 1438Mn
14724	Location: Rock Type:	Extreme S, E Holt l Silt.	5	<0.2	54	50	140Ba
14725	Location: Rock Type:	Extreme S, E Holt 1 Silt	5	<0.2	52	52	110Ba
14726	Location: Rock Type:	NE Holt 4 Feldspar Hornblende Porphyry.	5	<0.2	11	24	1650P
	Phenocryst	green porphyritic intrusive. s of feldspar and hornblende long. Stringers of pyrite					
14727		Extreme S, Central Holt 1 Dark Basalt.	5	0.2	191	74	
	comminuted	Blue-black, fine grained basalt. Manganese stained. nd calcite veins pervasive.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14728	Location: Central E, Holt 4 Rock Type: Chlorite Schist.	5	<0.2	20	16	
	Outcrop. Green strongly altered and sheared, strongly chloritized (up to 90%). Large outcrop of schist on NW side of river. Silt sample 14713 taken nearby.					
14729	Location: Central NW, Holt 13 Rock Type: Siliceous (Quartz)	5	0.2	11	18	
	From outcrop, grey-white quartz rich rock.					
14730	Location: S, Central Holt l Rock Type: Silt	5	<0.2	38	78	280Ba 1095Mn
	Active sediment. May be mixed with local road sediment. 10% clay fraction 10% organics, 80% gravel.					
14731	Location: Slightly S, Central Holt l Rock Type: Silt.	110	<0.2	21	32	1706Mn
	Dry stream in mature forest. Some exposed rocks with soily stream sediment.					
14732	Location: S, Central Holt 1 Rock Type: Silt.	5	0.4	48	52	5585Mn
	Dry stream in mature forest. Some exposed rocks with soily stream sediment.					
14733	Location: S, Central Holt 1 Rock Type: Silt.	5	0.2	56	130	510Ba 1821Mn
	Bar sediment 30% clay. Flowing stream, active sediment. Sample 4450 located here too.					
14734	Location: SE, Holt 1 Rock Type: Silt.	5	0.2	33	62	120Ba 3697Mn
14735	Location: Extreme E, S Holt l Rock Type: Silt.	5	<0.2	29	56	
	Flowing stream. Active sediment. Stream lm wide and strikes 140°					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14736	Location: S, Central Holt 7 Rock Type: Silt.	5	0.2	78	60	100Ba
	Active stream sediment. $1-2m$ wide flow. 10% clay in gravel. River strikes 048° .					
14737	Location: SW Holt 7 Rock Type: Silt.	5	0.2	72	60	
	Active stream sediment, $1-2m$ wide stream. 10% clay in gravel. Strikes 048° .					
14738	Location: Se Holt 12 Rock Type: Silt.	5	0.4	65	92	1514Mn
	Dry swampy area. Gravel with 30% clay fraction. Could be soil or wash sediment.					
14739	Location: SW Holt 12 Rock Type: Silt.	5	0.4	133	86	1364Mn
	No flowing water. Gravel bar in center of 040° striking stream.					
14740	Location: Slightly SW, Holt 12 Rock Type: Silt.	5	0.4	96	88	1094Mn
	From small 0.2m wide flowing stream. Strikes 045°. Gravel wash 15% clay.					
14741	Location: Slightly N, Central Holt 12 Rock Type: Silt.	5	0.2	50	2	
	From swampy ground gravel and clay sample. Many old roads in and behind this location.					
14742	Location: SW Holt 13 Rock Type: Silt.	5	0.2	13	60	190Ba
	From large swamp mainly half decomposed vegetable matter, not much lithic material at all.					
14743	Location: N, Central Holt 6 Rock Type: Silt.	5	0.4	43	58	
	From well flowing 2m wide stream. Good gravelly sample ~15% clay.					

Sample No.	Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14744	Location: Extreme N, E, Holt 9 Rock Type: Silt.	5	0.2	39	118	190Ba 1396Mn
	From dry stream bed. "Soily" sample.					
14745	Location: Extreme N, Slightly E, Holt 9	5	<0.2	36	66	120Ba
	Rock Type: Silt.					
	From dry stream bed. Gravelly soil silt.					
14746	Location: Extreme N, Central E Holt 9	5	<0.2	36	92	130Ba
	Rock Type: Silt.					
	From active sediment in flowing stream. Good sample 10-15% clay. Flowing stream.					
14747	Location: Extreme N, Central Holt 9 Rock Type: Silt.	5	<0.2	69	72	
	Flowing stream.					
14748	Location: Extreme N, Central W Holt 9	5	<0.2	65	56	110Ba
	Rock Type: Silt.					
	From dry stream bed. Good gravelly silt sample with 10 to 15% clay.	•				
14749	Location: Extreme N, Slightly W Holt 9	5	<0.2	38	58	
	Rock Type: Silt.					
	From dry stream bed. Sample composed of vegetable matter and gravel. Clay fraction difficult to guess (~<15% clay).					
14750	Location: NE Corner, Holt 11 Rock Type: Silt.	5	<0.2	56	44	
	Good gravelly sample with approx. 10% clay.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14901	Location: S Central Holt 14 ~L73+50N -OW Grid A Rock Type: Jasper.	5	0.2	4	12	
	From float, could be outcrop on road bed. Rusty maroon-red with 2% quartz in veins and trace of pyrite as scattered grains <pre></pre>					
14902	Location: S Holt 14, Grid A ~L73N - 1+50E Rock Type: Jasper	5	0.2	59	14	
	Blob of jasper (0.5m x 0.75m) within outcrop (2.0 x 0.5m) on road bed. Bright red aphanitic quartz veined jasper in outcrop of dark green, moderately epidotized mafic volcanic.					
14903	Location: S Holt 14, Grid A ~L73N - 1+50E Rock Type: Quartz Vein.	5	0.2	9	10	
	From outcrop (0.15 x 0.75m) of quartz with 5% chlorite. Pod of white quartz occurring in foliated mafic volcanic (?) of chlorite schist.					
14904	Location: SE Holt 4, L15N - 1+35W Grid A Rock Type: Basalt (Karmutsen).	5	0.2	198	92	
	From outcrop 25m in diameter, dark green chloritized aphanitic, fine grained to pillowed flow basalt. Area of prominent outcrop coinciding with linear magnetic anomaly (1000+) that probably represents a single flow. Rock is noticeably more magnetic than others in area. Outcrop surface is highly weathered orange-brown small pyroxene phenocrysts (<1mm) comprise several percent of rock.					

Sample No.	<u>.</u>	Description		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14905		Holt 4, Grid B N - O+50W alt.		5	0.2	183	76	
	basaltic flow	fine grained, pillow rock. Pyroxene pher % of rock. Noteable m	10-					
14906	Location: SE L10 Rock Type: Bas	N - OW		5	0.2	206	124	
	basaltic flow	fine grained, pillow rock. Pyroxene pher % of rock. Noteable m	no-					
14907	10m	reme SE Corner, Holt S of L4N - O+75E bonate Altered Basalt		5	4.2	140	118	
	of 0.2 to 0.4m carbonate altrounds stocveinlets. Weat brown. Sample cite vein. R crysts comprirock. The rock	ter outcrop on road wide zone of grey-breed basalt that so k work of ankeri hered surface is oran crosscuts 5mm wide celict pyroxene phenese several percent is not totally cared.	own ir- ite ge- al- no- of					
14908	Bet 0+7	reme SE Corner, Holt ween L5N-0+50E and L4 5SE. bonate Altered Basalt	N -	5	6.0	200	126	
	From 0.5m wide altered, fine tic, calcite surrounds 0. (crumbly). The meters in diame crosscuts geo Sample is tot The "pheno-crystalled"	zone of grey carbon aly porphyritic, aphale veined, basalt to 2m wide sheared zo is outcrop is seven eter on road cut. Sam thite coated fracturally carbonate alternstysts" are really only e. The weathered surf	ate ni- hat one cal ple es. ced.					

is orange-brown.

Sample No.	Description	Au ppb	Ag ppm	Cu	Zn ppm	Other ppm
14909 Locat	ion: Extreme SE Corner, Holt 4 ~50NE of L2N=1E, Grid B Type: Carbonatized Feldspar Horn- blende Porphyry.	5	0,8	11	74	
0.5m : ized, hornb rock phenoble of the column terms of the column	outcrop, on road bed less than in diameter, strongly carbonat-slightly sericitized, feldspar, lende, quartz porphyry. Weathered is orange-brown. Relict feldspar crysts are <4x2mm and the horn-le phenocrysts are <2x1mm. The dmass is aphanitic.					
	ion: N Central Holt 7, ~10m NE of L10+60N on baseline of Grid A Type: Pyritic Chert.	40	0.4	42	36	
x 10c pyrit fine conce chert cross	float boulder approximately 10cm m x 15cm. Dark grey quartz veined ized chert. Pyrite occurs as very grained disseminations in patchy ntrations causing grey colour in these concentrations sometimes cut by very narrow <1mm pyrite gers. Veins up to 1mm wide.					
	ion: Extreme S, Holt 14, 200m N of L73+50N along base- line, Grid A. Type: Pyritic Chert.	5	0.4	63	30	
very throu dant Beddi chert to 2m thick	c. Dark grey, bedded chert with fine-grained disseminated pyrite ghout that is particularly abunin and around the clay layers. Ing is observed as 5 to 20mm wide beds separated by clay layers up am. Chert beds are of irregular ness. Sample is highly weathered brown. Boulder is 15cm x 20cm x					

20cm.

Sample No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14912	Location: NE Holt 7, Trench l LllN, Grid A Rock Type: Amygdaloidal Flow (andesite).	5	1.0	92	74	
	From outcrop, medium grey-green, aphanitic to slightly amygdaloidal andesitic flow rock. Slightly silicified. Some rusty weathered rock is present. Finely disseminated and narrow massive bands of pyrite up to 10%.					
14913	Location: Slightly NE, Holt 7, Trench l LllN, Grid A Rock Type: Amygdaloidal Flow (andesite).	5	0.4	87	30	
	From outcrop, medium grey-green, aphanitic to slightly amygdaloidal andesitic flow rock. Sligtly silicified. Some rusty weathered rock is present. Finely disseminated and narrow massive bands of pyrite up to 10%.					
14914	Location: Slightly NE, Holt 7, Trench 1 LllN, Grid A Rock Type: Green Chert.	5	0.4	161	64	
	Outcrop, good exposure of dark green, completely aphanitic, non-banded chert. No alteration or weathering is noteable. Finely disseminated, 5 to 10%, probably syngentic, pyrite. This chert is a small horizon within the package composed primarily of andesitic flows which overlies the banded chert horizon.					
14915	Location: Slightly NE, Holt 7, Trench l L10N, Grid A Rock Type: Andesite-Basalt Flow.	5	0.4	182	84	
	Outcrop (30m) showing good exposure of very dark green, aphanitic andesite to basaltic flows. Rock here is darker than at the beginning of the trench (west). Pyrite mineralization is approximately 3 to 5% as disseminations, blebs and stringers.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14916	Location: Slightly NE, Holt 7, Trench 1 L10N Rock Type: Green Chert.	5	0.6	109	64	
	Exposed outcrop of dark green, completely aphanitic, non-banded chert that lies within the flow package as a narrow horizon. Pyrite mineralization is approximately 1 to 3% as disseminations and stringers.					
14918	Location: Slightly NE Holt 7, Trench 1 L10N Rock Type: Intensely Altered Flow (andesite).	190	6	86	26	52РЪ
	Outcrop showing good exposure of an ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rocks. Silicifications is locally prevasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%. A massive, 2cm wide band of >90% pyrite is present.		-			
14919	Location: Slightly NE Holt 7, Trench l L10N Rock Type: Intensely Altered Flow (andesite).	110	1.8	69	20	14Pb
	Outcrop showing good exposure of an ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rocks. Silicifications is locally prevasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%. A massive, 2cm wide band of >90% pyrite is present.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14920	Location: Trench #1, L10N Rock Type: Intensely Altered Flow.					
	Outcrop showing good exposure of an ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rocks. Silicifications is locally prevasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of pyrite ~15 to 20%. A massive, 2cm wide band of >90% pyrite is present.					
14921	Location: Slightly NE, Holt 7 Trench l LllN, Grid A Rock Type: Amygdaloidal Flow (andesite).	5	0.4	45	8	28Pb
	From outcrop, medium grey-green, aphanitic to slightly amygdaloidal andesitic flow rock. Sligtly silicified. Some rusty weathered rock is present. Finely disseminated and narrow massive bands of pyrite up to 10%. Outcrop is 5m in diameter.					
14922	Location: Slightly NE, Holt 7 Trench 1 LllN, Grid A Rock Type: Amygdaloidal Flow (andesite).	5	0.2	103	40	
	From outcrop, medium grey-green aphanitic to slightly amygdaloidal andesitic flow rock. Sligtly silicified. Some rusty weathered rock is present. Finely disseminated and narrow massive bands of pyrite up to 10%. Outcrop is 5m in diameter.					
14923	Location: Slightly NE, Holt 7 Trench 1 LllN, Grid A Rock Type: Amygdaloidal Flow (andesite).	5	0.2	41	28	
	From outcrop, medium grey-green, aphanitic to slightly amygdaloidal andesitic flow rock. Sligtly silicified. Some rusty weathered rock is present. Finely disseminated and narrow massive bands of pyrite up to 10%. Outcrop is 5m in diameter.					

Sample No.	e Description		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14924	Location: Slightly NE, Holt 7, Trench LllN, Grid A Rock Type: Green Chert.	1	50	0.2	145	8	10РЬ
	Outcrop, good exposure of dark green, completely aphanitic, non-banded chert. No alteration or weathering is noteable. Finely disseminated, 5 to 10%, probably syngentic, pyrite. This chert is a small horizon within the package composed primarily of andesitic flows which overlies the banded chert horizon.						
14925	Location: Slightly NE, Holt 7, Trench LllN, Grid A Rock Type: Green Chert.	1	20	0.2	188	4	
	Outcrop, good exposure of dark green, completely aphanitic, non-banded chert. No alteration or weathering is noteable. Finely disseminated, 5 to 10%, probably syngentic, pyrite. This chert is a small horizon within the package composed primarily of andesitic flows which overlies the banded chert horizon.						
14926	Location: Slightly NE, Holt 7, Trench LllN, Grid A Rock Type: Green Chert.	1	30	0.2	178	4	
	Outcrop, good exposure of dark green, completely aphanitic, non-banded chert. No alteration or weathering is noteable. Finely disseminated, 5 to						

Outcrop, good exposure of dark green, completely aphanitic, non-banded chert. No alteration or weathering is noteable. Finely disseminated, 5 to 10%, probably syngentic, pyrite. This chert is a small horizon within the package composed primarily of andesitic flows which overlies the banded chert horizon.

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14927	Location: Slightly NE Holt 7, Trench 1 L10N Rock Type: Intensely Altered Flow (andesite).	390	1.4	141	42	10РЬ
	Outcrop showing good exposure of an ~20m wide zone of intensely altered, fine grained to aphanitic, slightly amygdaloidal flow rocks. Silicifications is locally prevasive to make rock look like a large quartz vein. Carbonate alteration is much less pervasive. Alteration may be stratabound controlled. Disseminated grains, isolated blebs and narrow stringers of yrite ~15 to 20%. A massive, 2cm wide band of >90% pyrite is present.					
14929	Location: SW Holt 8, ~L26N-1W, Grid A Rock Type: Cherty Argillite.	5	0.6	60	154	26РЬ
	Outcrop showing good exposure of a well bedded, very dark green to black, aphanitic, highly weathered cherty argillite. Pyrite mineralization makes up 10 to 15% of the rock as fracture filling which are generally layer parallel. The mineralization may be syngenetic?? The unit strikes ~120° and dips ~40°E and appears to fall near the top of the bedded green chert horizon. The outcrop is continuous for 20m on road and is approximately 5m thick.					
14930	Location: SW Holt 8, ~L26N-lW, Grid A Rock Type: Cherty Argillite.	5	1.4	58	124	40Pb
	Outcrop showing good exposure of a well bedded, very dark green to black, aphanitic, highly weathered cherty argillite. Pyrite mineralization makes up 10 to 15% of the rock as fracture filling which are generally layer parallel. The unit strikes ~120° and dips ~40°E and appears to fall near the top of the bedded green chert horizon. The outcrop is continuous for 20m on road and is approximately 5m thick.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14931	Location: N, Extreme E, Holt 10 L29N - 2+50W, Grid A Rock Type: Argillaceous Chert.	5	0.1	58	94	12Pb
	From outcrop, dark bluish-grey-green, aphanitic, argillaceous, and is rather hard (likely siliceous). It is often poorly bedded and much is heavily Fe-Mn stained. Visible sulphides (pyrite) approxim-ately 2 to 3% disseminated with grain size <pre></pre>					
14932	Location: NE Holt 10, L33N-4W, Grid A Rock Type: Argillaceous Chert.	5	0.1	52	73	
	Outcrop quite extensive approximately 400 square meters. Dark green-black, aphanitic sediment, very argillaceous and much of it is very soft. Bedding is usually quite indistinct. Traces of pyrite are ubiquitous in spots. The outcrop is quite rusty, implying sulphides may have weathered out. Adjacent is quite well bedded chert. This rock is in contact with medium grained diorite. Pyrite is dissemin-ated sporadically throughout the rock. This sample is similar to 14931.					
14933	Location: Extreme N, Slightly E Holt 10, L36N-3+60W Grid A Rock Type: Diorite.	5	0.1	81	112	
	Small outcrop approximately 7 square meters. Dark green, medium grained diorite. The hornblende crystals measure 2-4mm long and comprise about 35%. The plagioclase is of similar dimensions and comprise about 55%. Fe and Mn oxides about 8%. There is a hint of metamorphic foliation. The weathered surface is heavily Fe-Mn stained. Disseminated pyrite is 1 to 2% and grain size is <1mm. Mineralization of pyrite is relatively rare in the diorite.					

the diorite.

Sample No.	e Descript	cion	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14934	Location: Slightly S, L45N-0+75E, Rock Type: Diorite.		5	0.1	109	26	
	From outcrop, dark grediorite. Hornblende ~ 50%, Fe-Mn oxides ~ 7% minated pyrite throug to 1mm and 1 to 2%. Sato 14933.	40%, plagioclase % of rock. Disse- hout the rock up					
14935	Location: NE Holt 13, Grid A Rock Type: Argillaceou		5	0.1	19	129	
	From outcrop, light argillaceous chert. has a hardness less th impure chert. Fesporadically distribu 2% disseminated rand the rock.	Much of the rock an 6 implying an Mn oxides are ted. Pyrite up to					
14936	Location: NE Holt 10, Grid A Rock Type: Silicified		5	0.2	32	43	16Pb
	Outcrop showing good light grey, highly sil rock with no original veins are common. App 2% evenly dissemina grained pyrite.	icified volcanic textures. Quartz proximately 1 to					
14937	Location: NE Holt 10 Grid A Rock Type: Partially S		5	0.1	66	69	16Pb
	Outcrop showing good dium to dark grey-grandesitic flow rock. Common. Disseminated blebs of pyrite ave This volcanic flow within a green chert	een volcanic or Quartz veining is , stringers and raging 2 to 5%. occurs above or					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14938	Location: NW Holt 14, Near LCP of Holt 14 along roadcut. Rock Type: Altered Mafic Tuff.	5	0.2	72	102	
	From outcrop, the rock is quite weathered and rusty with Fe and Mn oxides. The lapilli fragments are dark green to black and are lmm or less in length. Secondary albite is often abundant. The matrix is grey to medium green moderately chloritized. Disseminated sulphides (pyrite) up to 2% with minor pyrrhotite and chalcopyrite exist. Rock is found slightly west of the LCP and thus slightly off the claim.					
14939	Location: Extreme S, Holt 14 L73N-0+75E, Grid A Rock Type: Argillaceous Chert.	5	0.1	50	64	llPb
	From outcrop, black, argillaceous, aphanitic chert. Well layered bedding planes are easily discernable. Much of the rock can be scratched with a knife. It is often very rusty. Disseminated sulphides mainly pyrite exist up to 2%. Trace chalcopyrite exists. The sample appears to be subcrop rather than a true outcrop.					
14940	Location: Central, Moderately W Holt 11, L55N-1E, Grid A Rock Type: Andesite.	5	0.3	837	69	13РЬ
	Float. Medium grey, medium to fine-grained, slightly quartz amygdaloidal, andesite flow rock. Slight quartz silicification of groundmass. 20 to 30% pyrite, I to 2% chalcopyrite, trace pyrrhotite as disseminated grains and blobs in parallel bands to bedding. Lies stratigraphically above chert.					

Sampl No.		Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14941	Location: Central, Moderately W Holt 11, L55N-0+25E, Grid A Rock Type: Quartz Vein.	90	5.6	4969	49	
	Float. White quartz vein material with comb and stockwork textures. The host appears to be light grey volcanics. Coarse-grained pyrite up to 10%. Occurs stratigraphically above chert.					
14942	Location: Slightly N, E Holt 7, Trench 2, L8N-1E, Grid A I.P. Road Test #2 1+25E Rock Type: Cherty Argillite.	60	1.2	137	54	55Pb
	Poorly exposed outcrop, in trench of dark grey to black, well-oxidized and weathered cherty argillite. Quartz veinlets are abundant, as are fractures. Unit appears within amygdaloidal volcanic flows. 1 to 2% pyrite along fracture surfaces.					
14943	Location: Slightly N, E Holt 7, Trench 2, L8N-1E, Grid A I.P. Road Test #2 1+25E Rock Type: Cherty Argillite.	50	1.2	156	59	58Pb
	Poorly exposed outcrop, in trench of dark grey to black, well-oxidized and weathered cherty argillite. Quartz veinlets are abundant, as are fractures. Unit appears within amygdaloidal volcanic flows. 1 to 2% pyrite along fracture surfaces.					
14944	Location: Slightly N, Extreme E Holt 7, around L6N, Grid A, East of powerline. Rock Type: Silicified Volcanic.	280	0.1	25	26	
	Good outcrop exposure (post TNT) of a light to medium grey, highly silicified, very resistant (hard), aphanitic volcanic flow rock. Relict amygdaloidal porphyritic textures vaguely noticeable. Faint layering present. Outcrop is 10 square meters.					

Sample No.	e Description	Au ppb	Ag ppm	Cu Ppm	Zn ppm	Other ppm
14945	Location: Slightly N, Extreme E Holt 7, around L6N, Grid A, East of powerline. Rock Type: Silicified Volcanic.	5	0.1	11	29	
	Good outcrop exposure (post TNT) of a light to medium grey highly silicified, very resistant (hard), aphanitic volcanic flow rock. Relict amygdaloidal porphyritic textures vaguely noticeable. Faint layering present. Outcrop is 10 square meters.					
14946	Location: Central, Slightly E, Holt 7 L5N-0+25E, Grid A. Rock Type: Totally Silicified Rock.	5	0.1	20	2	
	From 5m square outcrop with good exposure (after blasting) of an extremely silicified rock whose protolith is inferred to be volcanic. Not likely quartz vein material. Trace to 1% pyrite as disseminated grains and blebs.					
14947	Location: Slightly N, E Holt 7 Trench 2, L8N-1E, Grid A I.R. road test #2 1+30E Rock Type: Silicified Volcanic.	1400	0.6	141	13	17Pb
	5m of outcrop poorly exposed in trench of a fine-grained to aphanitic, silicifed, mottled texture, andesite flow rock with relict amygdaloidal textures. Rock appears within primarily massive black basalt. 2 to 5% blebs and stringers of pyrite.					·
14948	Location: Slightly N, E Holt 7 Trench 2, L8N-1E, Grid A I.R. road test #2 1+30E Rock Type: Silicified Volcanic.	30	0.3	114	12	12Pb
	5m of outcrop poorly exposed in trench of a fine-grained to aphanitic, silicifed, mottled texture, andesite flow rock with relict amygdaloidal textures. Rock appears within primarily massive black basalt. 2 to 5% blebs and stringers of pyrite.					

Sample No.	e Description	Au ppb	Ag ppm	Cu ppm	Zn ppm	Other ppm
14951	Location: Almost Central, Slightly NW Holt 11, Top of Ridge. Rock Type: Fine-Grained Tuff.	5	0.2	125	58	
	Outcrop. Dark grey-green tuff. Mn-Fe stained. Narrow band of intense weathering.					
14952	Location: N, Slightly E, Holt ll (below mineralization above creek) Rock Type: Quartz Vein.	5	0.2	8	12	
	From outcrop, white >90% quartz hosted in green fine-grained tuff. Scattered veins in outcrop.					
14953	Location: NE, Holt 12 Rock Type: Fine-Grained Tuff.	5	0.2	79	78	390Ba
	Small outcrop. Green mafic fine grained tuff with fine-grained disseminated pyrite, <1%.					
14954	Location: Slightly N, E Holt 11 Rock Type: Silicified Fine-Grained Tuff.	5	0.6	3128	22	
	Im x 2m outcrop, olive-medium green silicified fine-grain tuff. Greater than 90% quartz, 2% malachite and azurite and <1% pyrite. Narrow band of silicification within fine-grain tuff host. Fractures contain blebs of pyrite, malachite and azurite with trace chalcopyrite.					
14955	Location: NW Holt 8 Rock Type: Brecciated Quartz Vein.	5	0.2	40	18	
	From outcrop 0.3m x lm. White brec- ciated quartz vein in mafic diabase host. Leucoxene alteration blebs. No visible sulphides.					

Appendix III

THIN SECTION DESCRIPTIONS

SUMMARY OF PETROGRAPHY, HOLT CLAIMS

Thirteen rocks from the Holt claims were selected for petrographic analysis, in order to identify rock types and interpret textures and alteration assemblages. They represent a variety of rock types including felsic to mafic volcanic and volcaniclastic rocks, most of which have been subjected to some degree of metamorphism and/or hydrothermal alteration.

Textures and reaction assemblages indicate changes involving significant increase in H₂O (and in some cases CO₂) consistent with regional greenschist facies metamorphism and/or extensive hydrothermal alteration. Alteration minerals include common sericite, chlorite, epidote, and calcite, and local actinolite. Two calc-silicate rocks with garnet-diopside-hornblende assemblages suggest higher temperatures, perhaps associated with an intrusive contact.

Opaque minerals present in this suite of rocks include primary(?) magnetite, possible chromite, and secondary fracture pyrite, with alteration to hydrous iron oxides.

Samples identified as volcanic in origin include two in the felsic to intermediate compositional range (V226-4434 and V226-14729), and three in the mafic range. Volcaniclastic rocks include two or three possible tuffs (V226-4728, V226-4406, and V226-4717) and one epiclastic sediment (V226-4415). Metamorphic rocks are represented by two samples of calc-silicate hornfels(?) (V226-4412 and V226-3452) and one carbonate-talc schist (V226-4421).

A pyritic quartz vein (V226-4471) and pyritic chert (V226-9301) were also collected.

The following table summarizes rock types, alteration (including metamorphic minerals), and mineralization (including opaque minerals, identified in hand specimen where possible) for 13 thin section samples described in detail in the appendix.

HOLT PROJECT - V226

SUMMARY TABLE OF PETROGRAPHIC SAMPLES

Sample: V226-4434 (NCM)

Rock type: Felsic to intermediate feldspar porphyry

Alteration: Sericite, chlorite, epidote, calcite

Mineralization: Magnetite (3-4%)

Sample: V226-4415 (D59)

Rock type: Greywacke greenstone/mafic epiclastic

Alteration: Chlorite epidote

Mineralization: Fine-grained opaques (2-3%)

Sample: V226-4412 (3)

Rock type: Calc-silicate amphibolite, possibly metatuff

Alteration: Garnet-hornblende-diopside; epidote, chlorite, calcite

Mineralization: Opaques (3-4%)

Sample: V226-4728 (4)

Rock type: Meta-pyroxene porphyry (crystal tuff?)

Alteration: Uralitization of pyroxene; chlorite, epidote; calcite

veins

Mineralization: -

Sample: V226-4421 (27)

Rock type: Carbonate-talc schist (from fault zone?)

Alteration: Calcite Mg-carbonate(?), talc

Mineralization: Magnetite (chromite?), fine-grained opaques (5-10%)

Sample: V226-4406 (32)
Rock type: Crystal-lithic tuff

Alteration: Calcite, chlorite, saussurite

Mineralization: Pyrite (2%)

Sample: V226-14729 (38)

Rock type: Felsic volcanic feldspar porphyry (albitite?)
Alteration: Chlorite, muscovite, quartz-calcite veins

Mineralization: Fine-grained opaques (1-2%)

Sample: V226-3499 (44)

Rock type: Epidote-altered mafic volcanic Alteration: Chlorite, calcite, epidote Mineralization: Fine-grained opaques (1%)

Sample: V226-4717 (85)

Rock type: Altered lithic hyaloclastite

Alteration: Glass to palagonite; quartz, chlorite, calcite,

sericite

Mineralization: -

Sample:

V226-3452

Rock type:

Garnet-diopside-hornblende calc-silicate

Alteration:

Garnet, quartz, diopside, calcite, hornblende; prehnite

veins

Mineralization: Fine-grained opaques (pyrite?) (3%)

Sample:

V226-3456

Rock type:

Altered diabase

Alteration:

Pyroxene to chlorite sphene ilmenite(?); calcite

Mineralization: Ilmenite(?), fine-grained opaques (5%)

Sample:

V226-4471

Rock type:

Pyritic quartz vein

Alteration:

Hydrous iron oxides (5-10%), sericite

Mineralization: Pyrite (relict), (5%)

Sample:

V226-9301

Rock type:

Pyritic chert

Alteration:

Hydrous iron oxides

Mineralization: Fracture pyrite (5-10%)

by J.S. Getsinger, PhD

PETROGRAPHIC REPORT

For	Nexus/Goldenrod	Date	87-02-28	
Project	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-NCM (4434)	Date Collected	1986	

Location: Holt claims, Victoria M.D., Vancouver Island, B.C.

Rock Type: Felsic to intermediate feldspar porphyry

<u>Hand Specimen:</u> Feldspar porphyry with 25% euhedral to subhedral white to pink feldspar phenocrysts (1-2mm), and abundant microphenocrysts in a fine-grained, grey-green groundmass which may be chloritized. Feldspar also may be altered, sericitized. Irregular fractures show local microbrecciation and associated magnetite (2%) and epidote. Up to 5% open-space fractures and vugs (<1 mm) look like weathered out veinlets and mineral grains rather than original vesicles.</p>

THIN SECTION (Polished No):

% (Approx.) MINERALS

50-60%	Feldspar - plagioclase - subhedral phenocrysts (25%), with sericitized Carlsbad and some albite twins; zoned, concentric and patchy; also as microphenocrysts and groundmass (possibly also some alkali feldspar) - sericitized, saussuritized
5-10%	Chlorite - alteration throughout, very fine-grained, and on fractures
10-15%	Sericite - replacing plagioclase, amphibole
<3%	Pyroxene pseudomorphs - blocky shape, replaced by chlorite, and magnetite
<5%	Amphibole pseudomorphs (lx2 mm) - chlorite, feldspar, sericite, quartz
2- 3%	Epidote - fine-grained, replacing plagioclase, amphibole
<18	Apatite - subhedral grains, accessory
3- 4%	Magnetite(?) - opaque black grains, magnetic; some in pyroxene shape
5%	Calcite - replacing plagioclase
1 fragment	Lithic volcanic fragments - sparse, <5 mm (mainly felted plagioclase laths)

Rock Textures/Structures: Porphyritic, somewhat glomeroporphyritic; some fractures are filled with chlorite

Protolith: Intermediate volcanic porphyry

Alteration/Mineralization: Sericitization, chlorite alteration

Conditions of Formation: Volcanic eruption, followed by minimal hydrothermal alteration.

PETROGRAPHIC REPORT

bv	J.S.	Getsinger,	PhD
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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-D59 (4415)	Date Collected	1986	

Location: Holt claims, Victoria M.D., Vancouver Island, B.C.

Rock Type: Greywacke greenstone

Hand Specimen: Greywacke. Fine-grained, light greenish-grey bed about 1 cm thick is interlayered with medium to coarse-grained, poorly sorted greywacke with angular to subangular, grey and black fine-grained crystal and lithic(?) clasts (<0.5 to >2 mm). Matrix is pale greenish-grey cement(?) between darker greenish-grey grains. No reaction in HCl; non-magnetic. Lighter, finer-grained layer is buckle-folded with microfractures perpendicular to bedding.

THIN SECTION (Polished No):

% (Approx.) MINERALS

45-50%	Plagioclase - albite twinning (poor), angular to subhedral grains, somewhat saussuritized
15-20%	Amphibole (actinolite) - pale green, low extinction angle, elongate grains, altered to chlorite
10%	Pyroxene(?) - blocky crystal shapes, pseudomorphed by pale chlorite
10-20%	<pre>Chlorite - colourless to pale green, alteration product of actinolite, pyroxene(?), and matrix</pre>
5-10%	Clinozoisite - medium-high relief, anomalous blue to grey birefringence; higher birefringence in veinlets (epidote). Alteration product of plagioclase, pyroxene(?)
2- 3%	Opaques - finely disseminated dust and sparse grains
<1%	Iron oxide stain - rusty orange

Rock Textures/Structures: Bedding and clastic textures show sedimentary origin of rock.

There is some recrystallization of chlorite along planes of microfracturing parallel to axial plane of small buckle folds (perpendicular to bedding). Larger grains are mainly crystal clasts rather than lithic fragments.

Protolith: Intermediate to mafic epiclastic volcaniclastic (greywacke) possibly derived from crystal tuff.

Alteration/Mineralization: Rock is recrystallized to chlorite (± epidote) metamorphic grade but not significantly altered or mineralized.

Conditions of Formation: Epiclastic volcaniclastic environment of deposition. Recrystallized to lower greenschist (chlorite) metamorphic facies.

by J.S.	Getsinger,	PhD	
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PETROGRAPHIC	REPORT
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For	Nexus/Goldenrod	Date	87-02-28	
Project	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-3 (4412)	Date Collected	1986	

Rock Type: Calc-silicate amphibolite, possibly metatuff

Hand Specimen: Compositionally layered and foliated light and dark green calc-silicate rock. Layers (2-10 mm) are discontinuous, lensoidal, and possibly isoclinally folded in part, although compositional differences are apparently primary. Light-coloured layers (50%) are light greenish grey to epidote-green, with rectangular to hexagonal megacrysts (1-3 mm) (former phenocrysts?) pseudomorphed by fine-grained epidote(?). Stringers (<0.5 mm thick by up to 5 mm long) of reddish-brown mineral may be garnet; they occur mainly within light green layers and in pressure shadows of megacrysts. Dark green layers are composed mainly of elongate, preferentially oriented green hornblende and rectangular whitish grains which may be plagioclase. Lighter layers react weakly in HCl indicating some calcite. Non-magnetic.

THIN SECTION (Polished No):

% (Approx.)	MINERALS
<5%	Amphibole (brown hornblende) phenocrysts (or porphyroclasts?): Z' to C = 16°; X = pale yellow-brown, Y = olive brown, Z = olive brown, Z = Y > X
20%	Amphibole (blue-green hornblende) in foliation: $X = pale yellow$; $Y = green$; $Z = blue-green$; $Y \ge Z > X$; forms rims of brown amphibole, and is aligned on foliation
15-25%	Feldspar (plagioclase?): untwinned megacrysts may show snowball (rotated) texture with inclusions of green hornblende; also as fine-grained groundmass with epidote
5-10%	<pre>Quartz(?) - (and/or feldspar?) - interstitial to clinopyroxene; and as part of fine-grained groundmass</pre>
5%	Garnet - brown, high relief, mainly isotropic (probably grossular)
5%	Clinopyroxene - diopside (+)2V = -45°; palest green pleochroism; replacing amphibole
15-25%	Epidote - replacing amphibole and/or pyroxene, and as fine-grained masses
<5%	Chlorite - green, replacing other mafic minerals
<5%	Calcite - late, minor
3- 4%	Opaques - blocky and elongate grains and abundant finely disseminated opaque dust

P.2 Sample V226-3 continued

- Rock Textures/Structures: Compositional layering, uneven and lensoidal, with megacrysts, is subparallel to foliation; layers may be isoclinally folded, at least flattened; some evidence for late local kinking.
- Protolith: Crystal tuff, calcareous mafic (andesitic to basaltic). Remnant euhedral megacrysts (amphibole, feldspar) and uneven layering suggest tuffaceous origin.
- Alteration/Mineralization: Alteration is typically metamorphic; no obvious mineralization was noted.
- Conditions of Formation: Volcaniclastic environment of deposition. Metamorphism to amphibolite facies(?), or dynamic contact metamorphism, followed by retrogression to chlorite and epidote.

PETROGRAPHIC REPORT

by	J.S.	Getsinger,	PhD
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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-4 (4728)	Date Collected	1986	

Location: Holt claims, Victoria M.D., Vancouver Island, B.C.

Rock Type: Meta-pyroxene porphyry

<u>Hand Specimen</u>: Light green layered/foliated rock with (40-50%) dark green pyroxene megacrysts up to 5 mm (av. 3-4 mm); cut face reveals blocky rectangular to octagonal cross sections of euhedral to subhedral pyroxene shape. Patchy colouring suggests they are partially altered and/or pseudomorphed. Groundmass is fine-grained and lighter green, smeared around larger grains forming layering/foliation. Some of the pyroxene megacrysts are fractured with epidote in the fracture. White veinlets are calcite ± quartz.

THIN SECTION (Polished No):

% (Approx.) MINERALS

30-40%	Pyroxene - euhedral to subhedral (rectangular to octagonal) phenocrysts (40%) up to 5 mm, partly broken in foliated groundmass; pyroxene is largely replaced by pale green amphibole; relect grains may be orthopyroxene
25-30%	Amphibole (actinolite) - pale green, fibrous, replacing pyroxene: Z' to C = 16° , Z = pale blue-green, Y = pale green; X = colourless, Z \geq Y > X. Biref. = 0.015
5-10%	Epidote - clinozoisite to pistacite, replacing pyroxene and in fine-grained groundmass
50%	Chlorite-epidote-feldspar groundmass - fine-grained
<5%	Calcite veins

Rock Textures/Structures: Phenocrysts of pyroxene up to 5 mm in foliated groundmass with patchy replacement by pale green amphibole.

Protolith: Mafic volcanic pyroxene porphyry or crystal tuff.

Alteration/Mineralization: Alteration is mainly retrograde metamorphic (uralitization of pyroxene).

Conditions of Formation: Mafic volcaniclastic/volcanic environment, with subsequent deformation, and greenschist facies metamorphism involving addition of water.

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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-17 (4421)	Date Collected	1986	

Location:

Holt claims, Victoria M.D., Vancouver Island, B.C.

Rock Type: Carbonate-talc schist

Hand Specimen: Sample size: 4 x 5 x 13 cm, with cut face 4 x 13 cm. Thin layers (1-2 mm) of rusty creamy calcite (vigorous reaction to HCl) in greenish talc-bearing to grey graphitic(?) phyllite are tightly folded and partially transposed parallel to foliation (parallel to long dimension of sample). Soft greenish flaky mineral feels like talc (scratches easily with fingernail); darker flaky mineral(s) may be serpentine, chlorite, and/or some graphite. Flaked rock adheres readily to magnet indicating abundant fine-grained magnetite. Cut face reveals abundant rounded light-coloured grains (which fizz in HCl) dotted around lensoidal fine-grained black patches (which scratch with fingernail).

THIN SECTION (Polished No):

% (Approx.) MINERALS

30-40%	Calcite - relatively coarse-grained calcite spheroids (20%) and stringers are surrounded by matrix of fine-grained talc(?). Possibly some higher relief carbonate as well (dolomite, magnesite). Calcite veinlets crosscut talc matrix.
50-60%	<pre>Talc - fine grained, medium-high birefringent, colourless phyllosilicate forms foliated matrix around calcite balls. Grains with lower bire- fringence, high (+) relief, and uniaxial(-) figure are sections perpendicular to c-axis</pre>
<18	Feldspar(?) - low birefringence, low relief
<2%	Chlorite (or serpentine) - rare, as alteration of opaques; grey birefringence, nearly colourless
5-10%	Opaques - semi-opaque reddish-brown broken grain (5 mm) looks like chromite but may be magnetite; other grains are smaller. Very finely disseminated black opaque dust may be graphite \pm magnetite.

Rock Textures/Structures: Replacement textures. Patterns in trails of opaques suggest former metamorphic porphyroblasts with inclusions.

Protolith: Possibly an ultramafic such as pyroxenite.

Alteration/Mineralization: Calcite could be from intense carbonate alteration; talc may be metamorphosed ultramafic (olivine or Mg-pyroxene plus water goes to talc), or result of magnesium metasomatism; chromite/magnetite appears to be primary.

Conditions of Formation: Metamorphism or hydrothermal alteration involving an increase of CO₂, H₂O; severe deformation. May be from fault zone.

PETROGRAPHIC REPORT

by J.S. Getsinger, PhD

For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-32 (4406)	Date Collected	1986	

Holt claims, Victoria M.D., Vancouver Island, B.C. Location:

Rock Type: Volcaniclastic/crystal-lithic tuff

Hand Specimen: Green volcaniclastic breccia, unsorted, with lithic fragments (subrounded to angular) up to 1 cm; possible white crystal fragments (1-2 mm); and interstitial fine-grained greenish-grey groundmass. Lithic fragments may be granitic(?), but mostly fine-grained greenish-grey volcanics and/or volcaniclastic rocks. Thin calcite veins (1 mm) crosscut section; other areas react weakly to HCl. Fine, sparsely disseminated pyrite (± chalcopyrite?) is less than 1%. Fragments are rimmed by light green material.

THIN SECTION (Polished No):

% (Approx.) MINERALS

- Plagioclase large phenocrysts; synneusis twinning; occurs as smaller grains 40% in groundmass, and as felted laths in lithic fragments Calcite - late alteration of plagioclase 15-20% Saussurite - fine-grained sericite epidote ± calcite ± feldspar alteration 5%
- of plagioclase Chlorite - fills vesicles; green colours; blue birefringence
- 10-15%
 - Lithic fragments volcanic, vesicular porphyritic basalt, with chlorite-10% filled amygdules; rounded
 - Glass(?) isotropic; brown dusty in plane polarized light; rounded forms and 5% interstitial lenses between crystal and lithic fragments; remnant groundmass; somewhat devitrified
 - <2% Opaques - fine-grained material
 - Calcite veins < 5%

Rock Textures/Structures: Fragmental volcaniclastic with volcanic lithic fragments, plagioclase phenocrysts, and areas of partially devitrified glass(?)

Protolith: Intermediate to mafic volcanic/volcaniclastic.

Alteration/Mineralization: Calcite alteration, chlorite alteration.

Conditions of Formation: Volcaniclastic environment. Relatively undeformed. Alteration is similar to retrograde or greenschist facies metamorphism.

For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-38 (14729)	Date Collected	1986	

Rock Type: Felsic volcanic feldspar porphyry

Hand Specimen: Light tan to grey, fine-grained crystalline rock with less than 5% white rectangular (feldspar?) phenocrysts (1-2 mm) and about 20% finer-grained feldspar (± quartz(?)) microphenocrysts; with about 1% thin flakes of chlorite up to 1 mm and possibly 5% much finer-grained chlorite, all in an aphanitic tan to grey groundmass. White veinlets <0.5 mm react weakly in HCl, indicating some calcite. Limonitic dendrites occur on some fractures, extending into the rock for about 2-3 mm.</p>

THIN SECTION (Polished No):

* (Approx.) MINERALS

5-10%	Plagioclase (albite?) - phenocrysts, euhedral to subhedral, with Carlsbad and albite twins (X' to a = 13°); may have (-) relief
50-60%	Plagioclase (± alkali feldspar?) - felted mass of stubby feldspar laths making up most of groundmass; common Carlsbad, less common albite twins
20-25%	Quartz - fine-grained, in groundmass, and in veinlets; uniaxial(-)
5-10%	Chlorite (± biotite?) - green phyllosilicate; biref. grey to anomalous blue; rimmed with muscovite; may be replacing biotite.
5%	Muscovite - colourless, medium-high biref. mica
<5%	Calcite - replacing feldspar, and along veinlets
1- 2%	Opaque - black grains less than 0.5 mm, associated with veinlets/fractures; could be magnetite; also sparsely disseminated fine black grains.

Rock Textures/Structures: Sparse phenocrysts in fine-grained groundmass; minor quartz veinlets with some calcite. Mostly random texture, with hint of preferred orientation of elongate minerals.

Protolith: Felsic volcanic

Alteration/Mineralization: No apparent mineralization. Alteration is minimal, consisting of chlorite + muscovite replacing biotite(?), minor alteration of feldspar, and addition of quartz ± calcite veinlets.

Conditions of Formation: Volcanic eruption or dyke.

PETROGRAPHIC	REPORT	
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by J.S. Getsinger,	PhD	
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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-44 (3499)	Date Collected	1986	

Rock Type: Epidote-altered mafic volcanic

Hand Specimen: Dark green volcanic rock with fine-grained groundmass and about 20-30% rounded epidote-altered relict mafic phenocrysts and/or amygdules (1-3 mm), and 5-15% pinkish calcite grains (1-2 mm), rectangular to subrounded, possibly amygdules and/or relict plagioclase phenocrysts. Some open spaces are lined with epidote. Metallic grains are very small (<0.1 mm) and sparsely distributed (<<1%). Some calcite amygdules(?) have dark green rims of chlorite(?).

THIN SECTION (Polished No_):

% (Approx.) MINERALS

5-10%	Amphibole - acicular medium-high relief needles, colourless to dirty; Z' to c = 32°
<5%	<pre>Feldspar(?) - low birefringence, low relief, poikilitic with epidote; sphene, amphibole</pre>
5%	Quartz - uniaxial(+), late, in amygdules, mosaic
10-15%	Epidote - yellow pleochroic, medium-high birefringence: pistacite
5-10%	Pyroxene (clinopyroxene ± orthopyroxene?) - blocky grains, colourless, high relief, low birefringence, (+) 2V = 40-50°, r>v, subhedral, pre-epidote; Z' to c = 40°; birefringence = 0.020 (low for cpx)
20-35%	Chlorite - (a) secondary, radiating, replacing amphibole(?), pale green pleochroic pyroxene(?); grey, sheaf-like clusters, and poikilitic masses in groundmass (b) rimming amygdules: anomalous blue and brown biref.
3%	Sphene(?) - brown grains, high relief, finely distributed
20-25%	Calcite - filling amygdules lined with chlorite and replacing relict feldspar phenocrysts
1%	Opaques - black, blocky grains (<1 mm); somewhat brown, may be hematite replacing magnetite
<18	Apatite - low birefingence, high relief, uniaxial(-) figure

P.2 Sample V226-44 continued

Rock Textures/Structures: Relict feldspar is pseudomorphed by calcite; relict pyroxene is pseudomorphed by chlorite, epidote; original texture may have been porphryitic, amygdaloidal. Amygdules are now lined with chlorite, and filled with calcite, with late epidote. In groundmass, chlorite and minor feldspar are now poikilitic with amphibole, epidote, and sphene.

Protolith: Mafic volcanic.

Alteration/Mineralization: Chlorite, calcite, epidote have replaced original pyroxene, feldspar; and filled amygdules.

Conditions of Formation: Mafic volcanic has undergone hydrothermal alteration (and/or metamorphism) involving increase of $\rm H_2O$, $\rm CO_2$, equivalent to greenschist facies metamorphism.

PETROGRAPHIC REPORT

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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-85 (4717)	Date Collected	1986	

Location: Holt claims, Victoria M.D., Vancouver Island, B.C.

Rock Type: Altered lithic hyaloclastite

Hand Specimen: Dark green, coarse-grained (up to 1-2 cm) volcaniclastic with about 20% angular lithic fragments of light grey, aphanitic, felsic volcanic rock and 25 to 30% subrounded balls (0.5 to 15 mm) of grey to white, partly divitrified, somewhat perlitic glass(?). Rock contains abundant calcite (reacts strongly in HCl); and is non-magnetic. Minerals include chlorite, epidote, calcite. Matrix surrounding grey glassy areas also shows concentric textures but is dark green.

THIN SECTION (Polished No):

% (Approx.) MINERALS

25-30%	Palagonite(?) - rusty-globules (appearing grey in hand specimen) with low birefringence, partly replaced by calcite and surrounded by isotropic glassy margins; may be partly replaced by clay minerals
50%	Groundmass - rounded fragments of isotropic glass surrounded by and altered to chlorite, quartz, and calcite, and minor sericite. Glassy areas are pale greenish, with finely disseminated opaque dust in concentric patterns. Some spherulites were noted.
	patterns. Some spherdirtes were noted.
20%	Volcanic lithic fragments - (1) nearly isotropic, partly devitrified glass matrix with blobby texture, and euhedral phenocrysts of relict feldspar (now calcite), and mafic grains replaced by chlorite; (2) very fine-
	grained, brown matrix with feldspar phenocrysts replaced by calcite, and
	30% quartz-chlorite-filled amygdules.

Rock Textures/Structures: Perlitic structure (concentric curved fractures in glassy areas) is seen throughout; some isotropic glass remains, whereas some is altered to palagonite and/or devitrified.

Protolith: Intermediate to mafic lithic hyaloclastite.

Alteration/Mineralization: Alteration of glass to perlitic palagonite and of groundmass to quartz, chlorite, and calcite.

Conditions of Formation: Explosive, subaqueous eruption of intermediate to mafic magma.

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by	J.S.	Getsinger,	PhD
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For	Nexus/Goldenrod	Date	87-02-28	
Project	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-3452	Date Collected	1986	

Rock Type: Garnet-diopside-hornblende calc-silicate

Hand Specimen: 1 x 2 x 3 cm. Finely layered calc-silicate has interlayered dark green hornblende amphibolite (up to 1 cm layers) and light green diopside with dark reddish-brown garnet (layers less than 3 mm). Layers are crosscut by white veinlets (less than 1 mm) of quartz(?) ± calcite (local reaction to HCl). Pyrite (less than 0.5 mm) occurs within foliation planes of amphibolite and in late veins (less than 1%). Rock is non-magnetic.

THIN SECTION (Polished No):

% (Approx.) MINERALS

- <5% Garnet - high relief, yellowish-brown, isotropic; within layers, also coarser (remobilized?) on quartz vein 5% Calcite - local replacement Diopside - pale green (salitic) clinopyroxene; (+) 2V = 50°, r>v; may occur in 15-20% quartz veins 10% Quartz - uniaxial(+), grey, colourless, in veins, and with feldspar in groundmass Hornblende - zoned from darker green cores to lighter green rims; cores are 20% clouded with fine-grained opaques Feldspar - untwinned or poorly twinned, saussuritized feldspar in groundmass 30-40% of amphibolite, diopside, and garnet layers Opaques - small blocky, black grains, associated with amphibolitic layers; <3% also fine opaque dust epitaxial to cleavage in hornblende cores Prehnite veins - bladed, radiating (bow-tie structure); colourless to palest <3% green; biref. = 0.021; (+)2V = 40-50°; r>>v; parallel extinction; length fast.
- Rock Textures/Structures: Compositional layering is parallel to metamorphic foliation; hornblende shows preferred orientation along metamorphic foliation, but some grains have premetamorphic cores; garnet occurs both in compositional layers and remobilized along quartz veins; prehnite veins are post-metamorphic, crosscutting quartz-garnet veins, but are accompanied by local shear textures, although most of the prehnite is random.

Protolith: Mixed calcareous or tuffaceous sediments

- Alteration/Mineralization: Minor pyrite ± magnetite(?) associated with quartz ± garnet ± diopside skarn
- Conditions of Formation: Amphibolite facies regional metamorphism or hornblende-hornfels contact metamorphism, with some remobilization of calc-silicate minerals during metamorphism yielding local garnet-diopside skarn.

For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-3456	Date Collected	1986	

Rock Type: Altered diabase

Hand Specimen: 2 x 2 x 4 cm. Dark green crystalline rock with darkest grains (1-3 mm) making up 20-25%. Long, thin greyish grains (0.5 mm x 5 mm) form mat-like texture (40-50%); they may be twinned feldspar. Superimposed on this background are tiny white angular grains (0.1 mm; 5-10%) and pale brown "wisps" (less than 0.1 mm x 5 mm; 5%). Pale green groundmass may be chlorite.

THIN SECTION (Polished No_):

% (Approx.) MINERALS

Plagioclase - subhedral laths in random glomeroporphyritic textures.

Carlsbad and/or albite twins; (-) 2v = 80°. Not altered except for growth of chlorite between Carlsbad twins

Chlorite - anomalous blue birefringence; pale green pleochroism; surrounds plagioclase

Sphene - brown, high relief, anhedral grains (whitish in hand specimen)

Opaques - lath-like ilmenite(?) ("wisps"); and fine-grained black(?) skeletal grains, formerly blocky subhedral

Calcite - minor

Rock Textures/Structures: Relict diabasic texture is preserved by feldspar; pyroxene(?) has been completely replaced by chlorite + sphene + opaques.

Protolith: Diabase.

Alteration/Mineralization: Plagioclase remarkably unaltered.

MgFe(Al)-pyroxene (±Ca, Ti) + H₂O = chlorite CaTiSiO₄(O,OH) ± FeTiO₃

(sphene) (ilmenite)

Conditions of Formation: Intrusion of mafic basaltic magma, possibly a sill; subsequent alteration of mafic component to chlorite and iron-titanium oxides.

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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-4471	Date Collected	1986	

Rock Type: Quartz vein

Hand Specimen: (1 x 1.5 x 4 cm chip only.) Rusty, vuggy quartz vein material with tiny silvery sparkles in rusty areas. They may be sulphides and/or sericite.

THIN SECTION (Polished No):

% (Approx.) MINERALS

Quartz - various grain sizes, mostly sutured boundaries, undulose extinction;
microcrystalline masses to comb quartz

10% Sericite - colourless, fine-grained mica, medium biref., associated with
microcrystalline quartz; may include some very pale green chlorite(?)

5-10% Iron oxides(?) - brown areas, golden-brown to dark brown, high relief

< 5% Opaques - square holes, probably relict pyrite, surrounded by brown iron
oxides; and fine-grained grains

Rock Textures/Structures: Variable grain size of quartz; there may be relict, silicified host rock, all quartz; vugs imply open space filling.

Alteration/Mineralization: Silicification, minor pyrite (oxidized).

Conditions of Formation: Hydrothermal vein origin.

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For	Nexus/Goldenrod	Date	87-02-28	
Project _	V226 - HOLT	Collector	Terry Naciuk	
Sample	V226-9301	Date Collected	1986	

Rock Type: Chert with pyrite on fractures

<u>Lithogeochemistry:</u> 20 ppb Au, 1.6 ppm Ag, 260 ppm As, 129 ppm Cr, 3.69% Fe, 1 ppm Mo, 50 ppm Pb, 130 ppm Zn.

Hand Specimen: Rusty black to grey, fractured chert with pyrite common on fractures (grain size <0.5 mm), euhedral cubes to anhedral. Rock is low-density due to open spaces along thin quartz veinlets (15% of rock). Fractures (<2 mm) filled with finely granular pyrite occur crosscutting fractured chert but are crosscut and displaced (3 mm) by open quartz veinlets (<1 mm). Pyrite (<2%), all on fractures. No layering is apparent in hand specimen.

THIN SECTION (Polished No):

% (Approx.) MINERALS

90% Quartz - in veins; and very fine-grained chert

5-10% Pyrite - on fractures, with some reddish iron oxide.

(Sample selected to show mineralization; pyrite is <2% of rock total)

1- 2% Opaque dust

Rock Textures/Structures: Rock is evenly microcrystalline, probably chert. Pyrite occurs on veinlets up to 3 mm wide with quartz. Quartz-bearing microfractures occur throughout rock. No layering was observed in the chert.

ROCK DESCRIPTION

"Fossil V226": Nanaimo Group sandstone

Fine to medium-grained, medium-well sorted, grey-beige sandstone with rust staining. The grains are subangular to angular, with <1% fragments up to 2 mm across. No reaction to HCl; may contain clay.

There is no bedding visible in hand specimen but some bioturbation is present. This rock contains a brachiopod(?) fossil (possible Rychonellid Order) and a possible cast of a Belemnite(?).

The brachiopod(?) fragment is about 1 cm across and has 1 mm ribs.

The rock is presumed to be Cretaceous as it is mapped as Nanaimo Group sediment.

Appendix IV

LABORATORY METHODS

ASSAY PREPARATION PROCEDURE.

Rossbacher Laboratory Ltd.

- Unpack and sort core or rock samples, put in numerical order, and prepare analytical sheets and pulp bags.
- 2. Place samples in drying oven to dry.
- 3. Crush samples using jaw crusher, and cone crusher to approx. 1/8 th inch or finer
- 4. Using a Jones splitter, split out approx. 300 gram sample for analysis. Rebag the remaining coarse fraction, and store.
- 5. Dry the coarse assay fraction further if neccessary.
- 6. pulverize assay fraction to 150 mesh using a Ring Grinder, and forward to Assay room for analysis. Clean Ring Grinder barrel using granite grit after each sample.

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METHODS OF ANALYSIS, 1987

(Short description of selected methods.)

GEOCHEMICAL:

- Gold: 10 Grams of -80 mesh soil, or -100 mesh pulverized silt or rock sample is roasted at 550 deg.C, and digested with Aqua Regia. The dissolved Gold is then extracted with Methyl Isobutyl Ketone, and the resulting solution analysed using Atomic Absorption spectroscopy.
- Multi Element ICP: 0.5 Grams of sample is digested with a 3-1-2 dilute Aqua Regia mixture, and analysed using Inductively Coupled Plasma Spectroscopy.

ASSAY:

- Gold (A.A.): 30 gram -100 mesh sample is roasted at 550 deg C and digested with Nitric Acid, followed by a double digestion with Aqua Regia. The resulting solution is extracted using Methyl Isobutyl Ketone, and analysed using Atomic Absorption Spectroscopy.
- Gold (F.A.): 15 or 30 gram -100 mesh sample is fused using standard Fire Assay fluxes, the resulting Au/Ag/Lead button is cupelled, and the Au/Ag bead analysed using Atomic Absorption, or a Gravimetric finish.
- Silver, Lead, Zinc, or Copper: a 0.5 to 5.0 gram sample is digested with the appropriate acid, or acid combination and analysed by Atomic Absorption Spectroscopy.

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AREA CODE: 604

Jan. 1985

(1)

GEOCHEMICAL ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

A. SAMPLE PREPARATION

1. Geochem. Soil and Silt: Samples are dried, and sifted to minus 80 Mesh,

through stainless steel, or nylon screens.

2. Geochem. Rock: Samples are dried, crushed to minus $\frac{1}{2}$ inch, split,

and pulverized to minus 100 mesh.

B. METHODS OF ANALYSIS

!. Multi element: (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb, Cd):

0.5 Gram sample is digested for four hours with a

15:85 mixture of Nitric-Perchloric acid.

The resulting extract is analyzed by Atomic Absorption spectroscopy, using Background Correction

where appropriate.

2. Antimony: 0.50 Gram sample is fused with Ammonium Iodide

and dissolved.

The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.

3. Arsenic: 0.25 Gram sample is digested with Nitric-Perchloric

acid.

Arsenic from the solution is converted to arsine, which in turn reacts with silver D.D.C. The re-

sulting solution is analyzed by colorimetry.

4. Barium: 0.50 Gram sample is repeatedly digested with

HClO,-HNO, and HF.

The solution is analyzed by Atomic Absorption spec-

troscopy.

5. Biogeochemical: Samples are dried, and ashed at 550°C. and the re-

sulting ash analyzed as in *1, multielement analysis.

6. Bismuth: 0.50 Gram sample is digested with Nitric acid. The

solution is analyzed by Atomic Absorption spectros-

copy.

7. Chromium: 0.25 Gram sample is fused with Sodium Peroxide. The

solution is analyzed by Atomic Absorption spectros-

copy.

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(2)

METHOD OF ANALYSIS (CONT.)

0.50 Gram sample is fused with a Carbonate Flux, and 8. Fluorine: dissolved. The resulting solution is analyzed for Fluorine by use of an Ion Selective Electrode. 10.0 Gram sample is roasted at 550°C. and dissolved 9. Gold: in Aqua Regia. The resulting solution is subjected to a Methylisobutyl Ketone extraction, which extract is analyzed for Gold using Atomic Absorption spectroscopy. 1.00 Gram sample is digested with Nitric and Sulfuric 10. Mercury: acids. The solution is analyzed by Atomic Absorption spectroscopy, using a cold vapor generation technique. 11. Partial Extraction 0.50 Gram sample is extracted using one of the foland Fe/Mn oxides: lowing: Hot or cold 0.5 N. HCL, 2.5% E.D.T.A., Ammonium Citrate, or other selected organic acids. The solution is analyzed by use of Atomic Absorption spectroscopy. An aqueous suspension of soil, or silt is prepared, 12. pH: and its pH is measured by use of a pH meter. 0.10 Gram sample is fused with Lithium Metaborate, 13. Rapid Silicate and dissolved in HNO. Analysis: The solution is analyzed by Atomic Absorption for Sio 2, Al 203, Fe 203, MgO, CaO, Na 20, K20, Tio 2, P 205, 0.50 Gram sample is sublimated by fusion with 14. Tin: Ammonium Iodide, and dissolved. The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy. 1.00 Gram sample is sintered with a carbonate flux, *15.* Tungsten: and dissolved. The resulting extract is analyzed colorimetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.