Foreward:

This report is being submitted in compliance with Regulations Governing Assessment Work under the Mineral Act, British Columbia Department of Mines and Petroleum Resources, September, 1973.

Assessment credit is applied for diamond drilling work done between July 2 and July 26, 1974.

Three claim groupings are covered, with forms "I" and "B" completed and submitted with each of the three groups.

MAPS

#1 Index map
#2 Drill Hole locations

SUMMARY OF WORK

1. Diamond drilling took place for 24 days from July 2 to July 26, 1974 in an area about ten miles south of Port Hardy.

2. Five vertical holes were drilled along the Rupert Arm Road, which runs eastward from the head of Rupert Inlet to the Island Highway. The drill holes were located along the first mile of the Rupert Arm Road.

   Size of the core produced was BQ.

   All of the core is stored at the Island Copper Mine of Utah Mines Ltd.

3. The pertinent data on each hole drilled is as follows:

HOLE	COLLAR ELEVATION	INCLINATION	LENGTH
R-1	13.5 feet	Vertical	604 feet
R-2	27.0 feet	Vertical	600 feet
R-3	57.0 feet	Vertical	501 feet
R-4	32.3 feet	Vertical	602 feet
R-5	15.8 feet	Vertical	607 feet

4. Drill hole logs are included with the report. The core was logged by the people listed below, with a statement of their qualifications.

   a) John Lamb, P. Eng - Project geologist
      B.A.Sc, M.A.Sc - geological engineering
      University of British Columbia

   b) Pamela M. Kaiway, E.I.T. - Junior geologist
      B.A.Sc. - geological engineering
      University of British Columbia

5. An index map is included to show where the detailed claim map lies with reference to the local area.

6. An itemized statement of costs is also included in this report.

pmkaiway

Pam Kaiway, E.I.T.

STATEMENT OF COSTS

for

Diamond Drilling on the Rupert, Opex and

Ees Group of Mineral Claims

A. Charges by Drilling Contractor

(Connors Drilling Ltd.)

Drilling		$27,255.12
Extra Charges		1,400.00
	sub total	$28,655.12

B. Utah Mines Ltd. - Costs

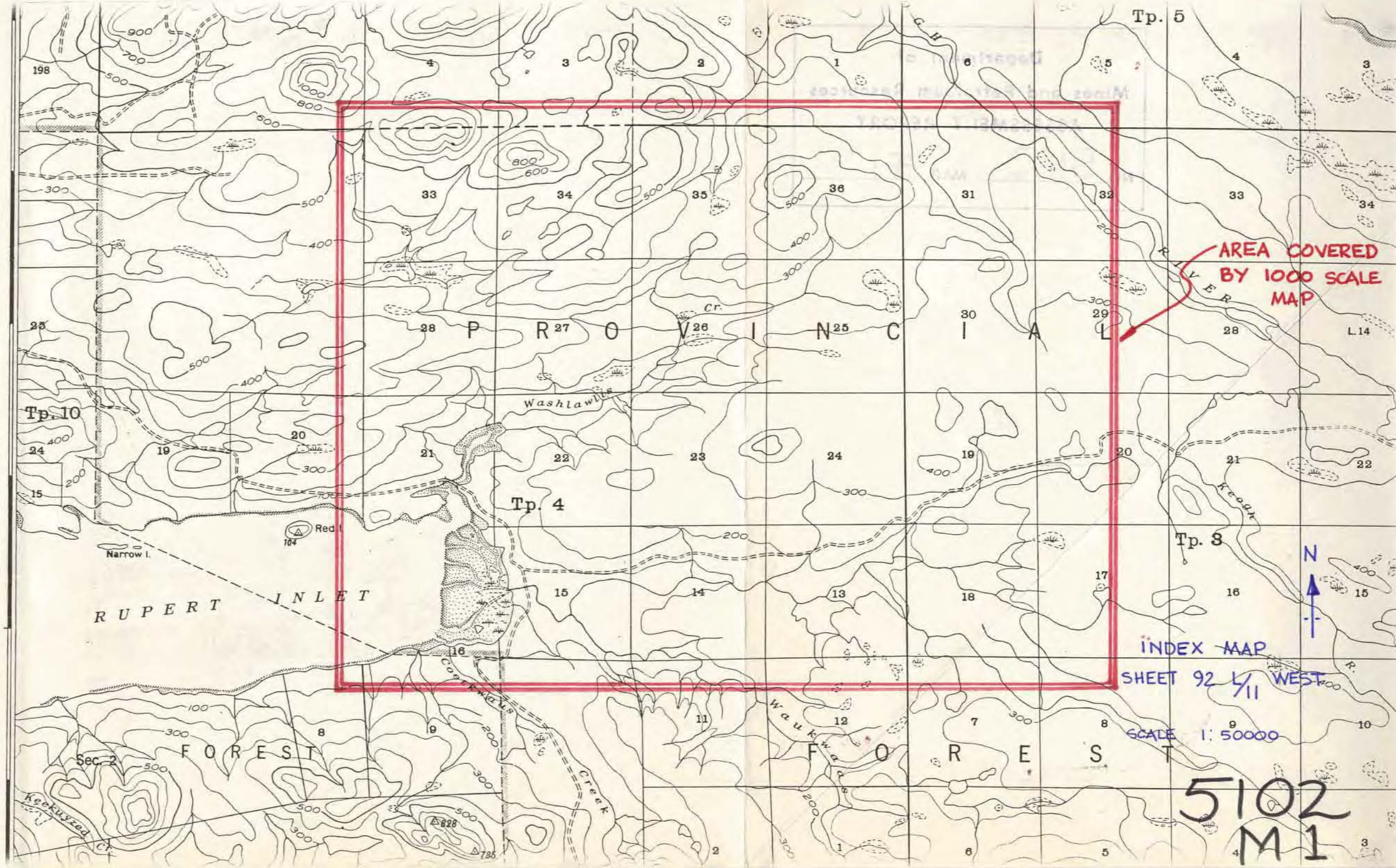
a)	geologists for four weeks	1,300.00
	labourer for four weeks	700.00
b)	core trays and covers	445.00
c)	site preparation	1,000.00
d)	survey of hole locations	500.00
e)	room and board for drill crew - 5 men at 8.40 per man per day for 25 days	1,050.00
f)	supplies and freight	100.00
g)	truck operation at 25¢ per mile (200 miles)	50.00
h)	company overhead at 25% of labour charges	500.00
	sub total	5,645.00
	Grand total	34,300.12

Total footage drilled - 2,914 feet

Cost per foot drilled - $\frac{\$34,300.12}{2,914 \text{ feet}}$ = $11.77

pmkaiway

Pam Kaiway, E.I.T.


Tp. 5
AREA COVERED BY 1000 SCALE MAP
PROVINCIAL
RIVER
Tp. 10
Tp. 4
Tp. 3
Washlawlis
Cr.
Narrow I.
Red I.
RUPERT INLET
Cogitwalis
Creek
Waukwaas
FOREST
Sec. 2
Keekuyzed Cr.
Keogh
N
INDEX MAP
SHEET 92 L/11 WEST
SCALE 1: 50000
5102
M1

HOLE NO. R-1 | PROJECT: Rupert Inlet | PAGE NO: 1 OF 10

COLLAR ELEV.: 1013.5' GROUND ELEV.: | DATE STARTED: 3 July 1974 | REF. TO CLAIM CORNER:

COORDINATES: 20007 N. 40427.6 E | DATE FINISHED: 7 July 1974 | SCALE: 1"=10'

INCLINATION: -90° BEARING: — | TOTAL DEPTH: 604' | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					0-54 Overburden.					BQ	54		
50													
70	calc. vns, qtz vns, py in. chlor. unlets.				54-97 Fragmental Andesite Med grey-green med gr'd, mod. fract, density Lined w. white + pink calc vns + some qtz veins Frgmt'l ghosts up to ½" many small (⅛") green chloritic frags, Sulphide veining - py. also some disseminations minor hematite on slips Mod. magnetic - pervas. mag. in frags.				90				<.2
80													
90	py-calc vns.												
100	calc some alt'n - chlor slaum pod.												

HOLE NO. R-1 | PROJECT: | PAGE NO: 2 OF 10

CASING COLLAR ELEV. | GROUND ELEV. | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
00	minor epid. clay alt'n calc vns., py vns				97-160 Frsgmental Andesite with clay Altered Runs: Med grey green, fine gr'd, mod. fracture density. Darker andesitic frags, some chloritic frags. Calc + minor lsum veining. Some silic zones + qtz vns.						100		
10	grey-green. fine calc vns. silic-calc.-lsum				97-110: clay alt'n, green chlor + white calc minor; orange lsum. grey-black 'beds' occasional.						110		
					119-121: Silic run w. chlor, calc, lsum. in med. grey silic grdmass; py vns.						120		<.2
	chlor alt'n				124-126: chlor. alt'n w. calc, lsum + qtz vnlets								
30											130		
	5' silic run 5' pale green chlor alt'n				136-138: 1/8" mag. spots in andes. delineated ~ 70° to core						140		<.2
40													
					144-146: altered, soft gn. chlor, calc, minor lsum + qtz. mod. mag.						150		
150	calc vns. small 1" gouge slip												<.2
160											160		

HOLE NO. R-1 | PROJECT: | PAGE NO: 3 OF 10

BOSING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
160					160-220 slightly silic, alt'd fragmt'l Andesite						160		
					reddish br min. in gn. alt'd andes. (hematite?)				85				
170					silicif. andes w. calc-laum vns.						170		
					166-168- qtz run								
					Grey-green, med gr'd, calc + laum veining andesite. some qtz run. high frac. density through chloritic silicification + one Magnetite frags — mod to strongly mag.								<.2
											180		
					10' rubble, lost core				25				
190					much calc-laum, qtz + dusty blk vns in alt'd green andes.						190		<.2
200					silic w. calc, laum, chlor.				85		200		
					epid, chlor. veinlets								
210					epid pod. in alt'd silit andes w calc, chlor, laum.						210		<.2
					very shattered.						220		

HOLE NO. R-1 | PROJECT: | PAGE NO: 4 OF 10

COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
220					220- 262 Slightly siliceous fragmt'l andesite. Dark grey-green, finie gr'd, highly fract'd. Silicificatn through andes. minute frags seen, some 1, larger ¼" to ½" ghosts. Occas. fine calc. vnlets. Some alt'd runs of green chlor, calc + some mag. Strongly magnetic, slight br. bio. colorstion. Dissem + vned py. Some epidote in slips; minor hematite						220		
230					shattered zone more silicific. + calc.						230		
240					pervas. qtz, silicificatn				80		240		<.2
250					pervas. silicif, fine qtz vnlets w. calc, chlor.						250		
260					hematite slip						260		<.2
270					hematite slip						270		
280					262- 306 Andesite becomes lighter grey to salt + pepper: grey-white-g.w. orange alt'n. Some orange porphyry appears 271-275. Orange zones are quite silic. Calc, qtz, mag + mang. vnlets. Some hematite. 275- 282 'peppered' zone w. gn. chlor, white silica + grey mafics in minute particles, calc vns. hematite in qtz vn. orange alt'n, some porphyry. "salt + pepper" appear., qtz runs						280		<.2

HOLE NO: R-1 | PROJECT: | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
280					262-306 cont'd from previous page highly silicified 282 to 287 chloritic alt'n in salt+pepper andes. qtz vns, orange alt'n, calc + minor laum. Some dark red-blk vns - pyrolucite? or hematite. 291-294 and 296-306 highly silic (~90% qtz) w. orange alt'n. some calc vns, minor hematite +/or pyrolusite veinlets + disseminations. Minor magnetite py. vns. andes., magnetite, calc vns highly silic				85		280 290 300		<.2
310					306-386 Similar to above. Highly siliceous med grey to orange with few grey-green-white speckled runs. Salt + pepper appearance. ~95% qtz-flspr grdmass w. minute mafic phenos. Some calc + qtz vns, minor magnetite spots, more dark blk-red mineral- pyrolucite? low fract. density, very fine grd, Some hint of orange porphyry orange silica salt + pepper' slightly darker salt + pepper' pale or w calc vns + speckled w. pyrolucite? Finely dissem py, little or no cpy. mottled orange-cream-grey.				98		310 320 330 340		<.2 <.2

HOLE NO. R1 | PROJECT: | PAGE NO: 6 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
340					slightly porphyritic 306-386 cont'd, see previous page few fspar, qtz phenos. few green chlor spots -½" few hematite vnlets.						340		
350											350		
					very silic; slightly porphyritic fspar phenos				98		360		<.2
370					1' qtz bx, w much hematite fine magnetite vnlets laced through. dissem py.						370		<.2
380					orange alt'n; slightly porphyritic						380		<.2
390					porphyritic qtz-mag vns. minor alt° in slip 386 – 410 Hybrid Andesite + Orange Porphyry. dark grey green w. orange porphyritic intervals. Grey qtz vns + black - magnetite frags. in andesitic parts. Orange alt'd zones w. creme fspars + green andes. frags. Mod to strong mag. dissem py w. little cpy						390		<.2
400											400		<.2

HOLE NO. R1 | PROJECT: | PAGE NO: 7 OF 10

DRILL COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
400					386–410 see previous page porphyritic intervals in dark andesite						400		
											410		<.2
410					alt'd zone soft, dark gouge 410–415 soft gouge zone. dark grey green w/ w. calc + chlor. alt?								
											420		<.2
420					415–465 Fragmental Andesite Dark grey-green, fine gr'd, highly fractured. Much calc + orange lawm veining. Green chloritic alt'n abundant Some qtz veining + silicification Weak to mod. magnetism. Minor hematite in slips Finely dissem py. little or no cpy								
											430		<.2
430											440		<.2
440					silicificatn w. chlor. alt'n, calc, lawm vns								
											450		<.2
450					very shattered calc vns.								
											460		<.2
460													

HOLE NO. R1 | PROJECT: | PAGE NO: 8 OF 10

BASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
460					415-465 see previous page						460		
470				laum-calc.	465-604 Fragmental andesite dark grey-green w. vague brown bio. alth occasional. fine gr'd, highly shattered. Small chloritic frags. Abundant calc and laum veining Dissem + veins py. occas. cpy. Mod. to strong magnetism - in frags. Some silic runs. w. calc + laum vns.						470		
480											480		
490				silic	495- increasing laum. veinlets				92		490		<.2
500											500		
510				5 cpy veinlet.							510		
520				chloritic much laum veining							520		<.2

HOLE NO. R 1 | PROJECT: | PAGE NO: 9 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
520					465 – 604 Fragmental Andesite see previous page laced w laum + calc vns. green chloritic alt'n occas. dissem cpy + moly						520		
530					orange-alt'n → porphyritic ½'						530		
540											540		
550					chlor alt'n → muddy 1' w qtz.				92		550		<.2
560					much orange laum veining						560		
570					calc-laum vns in dark grey-green andes.						570		
580					minor cpy, moly.						580		<.2

HOLE NO: R-1 | PROJECT: | PAGE NO: 10 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
580					interbedded calc-laum vns w. dark andes. 465–604 Fragmental Andesite see previous page.						580		
					extensive orange laum + calc veining in dark grey-green andesite. Some chloritic green alt'n, High shattered and strongly magnetic, occas epid, Dissem py., minor dissem cpy.				92		590		
590					cpy unlet. much laum veining + spotting.						600		
					minor dissem cpy.						604		< .2
					604. End of Hole								
610													

HOLE NO. R 2 | PROJECT: | PAGE NO: 9 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					485–530 Silic Fragmt'l Andesite cont'd from previous page						500		
				Well shattered	alt'n Occas. run of qtz + more silic zones.								<.2
20					Much pervas. magnetite – mod. to strongly magnetic						510		
					Many py veins + disseminations.				92				
				silic w. py vns									
				laum-calc.							530		
30					530–600 Alt'd Silic Fragmt'l Andesite								
					med grey-green, med gr'd, well fractured.								
				minor alt'n in slips, generally silic grdmss.	Some sfce alt'n giving rough pebbly txture in runs, Chloritic + talc alt'n in slips. pervas. silica								<.2
40					Small (<¼") chlor. andes. frags in silic andes. grdmass.						540		
					Calc + laum veining w some chloritic alt'n vns. interspersed.				88				
50				laum-calc.	Much dissem. py, some veining								
60													

HOLE NO. R2 | PROJECT: | PAGE NO: 10 OF 10

BASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
560					laum unlets. 530- slight alth. chlor-calc frags in med grey silic andes. grdmass. some dark dusty vns. well shattered orange alth w. ddrk green frags. ⇒ porphyry orange-brown alth some dark green chlor frags. Alt'd Silic Fragmt'l Andesite see previous page. From 580'+, runs of orange-tan bleaching approaching porphyritic texture w. dark green chloritic andes. phenos. contains some calc + laum veinlets, minor hem. stain.				88		560		
570											570		2.2
580											590		
590											600		2.2
600													

HOLE NO. R 2 | PROJECT: | PAGE NO: 8 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
440					409-485 Silic Fragmt'l Andesite black w. silica vns, tan fspar alth spots and red hematite staining						440		
					tan-alth, silica								<.2
450					see previous page.						450		
					pervas. magnetite								
					¼" dark sub round. frags.								
460									95				
					some green chlor. alth?								
					py.						470		
470					highly silic., chlor alth. w. blk mag. + py veining.								<.2
480											480		
					slight alth., py.								
					485-530 Silic Fragmt'l Andesite dark grey-green, fine grd, well fractured. chloritic alth w. pervasive silicificat? few qtz veins. Calc + laum veining increasing, little or no hematite or fspar				88				
490													
500													

HOLE NO. R2 | PROJECT: | PAGE NO: 7 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
380					363-409 Very silic frsgmt'l andesite see previous page tan alth in grdmass.						380		<.2
390					tan-creme alth						390		
400													
410					409-485 Silic Frsgmt'l Andesite similar to 363-409 Dark grey w. light grey silica vns, tan creme fspar(?) alth red-brown hematite streaks. Strongly magnetite in places w. mag. veins. Fine gr'd, low fracture density. Few calc veinlets. Quite siliceous throughout. Abundant disseminated py. Some veining.						410		<.2
420											420		
430					hematite fused through core tan alth				95				1
440													

HOLE NO. R 2 | PROJECT: | PAGE NO: 6 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
320					131 – 363 Silicified Fragmental Andesite see previous pages lighter grey silic alth. med grey green, mod. magnetic, well shattered, clay alth w. some silicification. some lawm + calc veining.						320		<.2
330											330		
350					some calc, gouge – clay alth well shattered w. some clay alth						350		<.2
360											360		
375					363 – 409 Very silic fragm'l Andesite grey silic grdmass containing sub rounded + sub angular dark magnetic andes. frags. (1/8" to 1") Tan coloured alth 1% spots. Abundant pyrite. hard								
385													

HOLE NO. R 2 | PROJECT: | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
260					131–363 Silicified Fragmental Andesite see previous 2 pages. laum-calc veining.						260		
					moderately magnetic, darker fragmt'l from 250' + less silicification + alt?						270		<.2
280					calc-laum. minor epid spot.								
					darker, more magnetic less silicified, less laum.								
290					well shattered.						290		
					⅝ cpy speck								<.2
300					dark orange laum. veinlets. qtz vns. w calc, laum, py.						300		
310					slight alt'n. pyrophyllite frag ?								
320													

HOLE NO. R3 | PROJECT: | PAGE NO: 4 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
200					highly shattered. 131-363 Silicified Fragmental Andesite w. porphyritic runs cont'd, see previous page						200		
													<.2
210											210		
					calc-lawm vns.								
220					much lawm, orange alt'n through core				88				
230					mottled grey-green-orange. slight alt'n throughout.						230		
					minor gouge.								<.2
240											240		
					small sub-angular chlor frags in silic alt'd andes.								
250													
					reddish stain - hematite?								
260													

HOLE NO. R 2 | PROJECT: | PAGE NO: 3 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
140					131-363 Slightly altered, Fragmt'l Andesite w. porphyritic runs. med grey-green colour, often with porphyritic appearance of dark andes.+ light grey qtz phenos in small runs. Otherwise, much grey silicification through andesite leaving dark, chloritic frags in grey grdmss. Abundant orange lawm + calc veining throughout. occas. gouge slip. generally slightly alt'd, well shattered core. pyrite veining + disseminations throughout. Weakly magnetic				90		140		
150					porphyritic qtz. lawm-andes. phenos. silicif. of andes. alt?						150		L.2
170					much lawm.						170		
180											180		L.2
190													
200					mermictic chlor frags in silicif. andes.								

HOLE NO. R 2 | PROJECT: | PAGE NO: 2 OF 10

BASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
80					some tan-grey bleaching. 66–110 Bleached silic andesite (cont'd) chloritic andes. frags + phenos. Some dark orange 1/2cm veining.						80		<.2
90					shattered, muddy. 1/2cm-qtz. 88'-90' & 96-98' porphyritic appearance. black mag, dark green chlor in silic + tan-grey bleached grd mass.				80		90		
					=> qtz bx w. fine calc, py + mag vnlets 100–110 : bleached silic andesite						100		
110					shattered.						110		
					110–131 Bleached silic (andesite) qtz bx ? Med grey, highly siliceous w. occas. frag of chloritic andesite remaining. Gouge, + soft tan-grey alt'n. Highly shattered, py veining + dissem.								<.2
120					soft, gouge						120		
					many py veins.								
130					very shattered.								
					131–363 Slightly altered, fragmt'l andesite								
140					See next page								

HOLE NO. R - 2
CASING COLLAR ELEV.: 1027.0 GROUND ELEV.:
COORDINATES: 2052.6 N. 43596.6 E.
INCLINATION: -90° BEARING: —

PROJECT: Rupert Inlet
DATE STARTED: 8 July 1974
DATE FINISHED: 12 July 1974
TOTAL DEPTH: 600'

PAGE NO: 1 OF 10
REF. TO CLAIM CORNER:
SCALE: 1" = 10'
LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					0-35 Overburden					BQ			
30					35-66 Silic Frgmt'l Andesite med grey, coarse gr'd, well fractured with gouge - muddy zones. Some remnant chloritic frags. Silicification through frogmt'l andes. Dissem + vned py. much py. chlor. frags.				80		50		
60											60		<.2
70					66 - 110 Bleached silic andesite med to light grey, med. gr'd, well fractured. silicificatn through core w. some almost porphyritic runs of qtz eyes. magnetite vnlets + frags. Small laum vns. shattered, muddy magnetite				82		70		
80											80		

HOLE NO. R 3 | PROJECT: | PAGE NO: 9 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
500					402-501 Frsgmental Tuff see page 7.						501		
					501- End of Hole								
50													

HOLE NO. R3 | PROJECT: | PAGE NO: 8 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
40					402-501 Fragmental Tuff see previous page								
				epid un-									
50					484-501 Very crumbly, well alt'd, laced w calc unlets. last 3 ft are red-brown instead of grey, crumbly, w. many calc unlets.								
				bleaching 3"									
				epid							460		
									88				<.2
70											470		
				alt'd, soft, crumbly calc-lzum.									
80													
				much alt'n crumbly, calc. abundant. cpy speck. alt'n - crumbly, calc.							490		
90													<.2
500					,5 reddish-brown, crumbly w. calc vns.						500		

HOLE NO. R-3 | PROJECT: | PAGE NO: 7 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: J.L + PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
380				slip	300 – 402 See p 5.			390					
390									87				
											400		
								402					
410					402 – 501 Fragmental Tuff Dark grey, fine grained, highly fractured. dark sub angular frags. – very small to ½". Runs with many calc and laum veins. Occasional alt'd, clay-gouge section or fracture, some w. chloritic alt'n Minor amts. epidote on slips Much pervasive magnetite – mod. to strong magnetism throughout Dissem py: little or no cpy.						410		<.2
420				epid, soft alt'n small slips, calc-laum vns.					88				
				frags									
430				very shattered.							430		
													<.2
440											440		

HOLE NO. R-3 | PROJECT: | PAGE NO: 6 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: J. L

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
320				fault	300 – 402 - Sccp5.			320					
				fault									
330													
340									87				
350													
360													
370													
380								380					

HOLE NO. R-3 | PROJECT: | PAGE NO: 5 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: J. L

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
260					190 – 300 See p 4 & 5			260					
70					weak fit				86				
					6" slip w green ser.								
290					} fault.								
300					300 – 402 - As above med to dark gray to blackish f'g tl tuff. A little epidote alt'n. Bleaching on or close to fracs. Many fine calc. veinlets. Fair py throughout w occ specks cpy. Darker runs contain much mag. Frags both white & black			300	87				
310					slip								
					fault								
320								320					

HOLE NO. R-3 | PROJECT: | PAGE NO: 4 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: J. L

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					190 – 300 (cont'd) fragments range from specks to ½ inch. Blacker sections markedly mag'tc. Faults & slips where noted. Core inclined to be shattered in last 30'.			200	86				
10													
20													
30					calc. slips								
40													
50					shearing vuggy								
60								260					

HOLE NO. R 3 | PROJECT: | PAGE NO: 3 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PK & J.L

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
140					minor alth - bleaching 108 - 190 Fragmental andesite cont'd, see previous page. 1/8 - 1/2" frags + minute qtz phenos in dark grey-green andes.								
150					many calc veinlets; minor lawm, little alth' epid.						160		
					small slip - cutting milky qtz vn; calc.								< .2
170					calc vns.						170		
					1" calc.								
					slightly silic								
180					dark → blk, very fine gr'd								
								190			190		
190					190 - 300 - Med gray to black f'gtl andesite, fraught w. calc. veinlets. Some py on fracs w. occ. speck cpy. A few blobs cpy/dz (cont'd)				86				
200								200			200		

HOLE NO. R3 | PROJECT: | PAGE NO: 2 OF 9

BASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0				1 grey silic grdmass ↓ orsnge alt'n of grdmass, many mafic phenos	75-97 Qwrtz Feldspar Porphyry Alternating grey or orange groundmass containing orsnge, creme fspar, grey qtz + occas. green chlor phenos. Med gr'd, well fract'd. Few hairline calc vnlets. Dissem py.								
10				large frags. andes.	97-108 Qtz Fspar Porphyry. Same as above. Orsnge fspar, grey qtz phenos in grey matrix. Occas. large (>½") andes. frag. Few calc vns.						100		<.2
110				shattered. calc-py. vns.	108-190 Fragmental Andesite Med grey-green, fine gr'd, well fractured. Calc veining throughout, Epidote spots + veinlets, occasional minute qtz phenos. numerous. + occas. qtz vnlet. Frags - sub angular, up to ½" size abundant, Weakly magnetic Dissem py						116		
120											130		
130				bleached 4" calc-qtz. minor epid.									<.2
140				minute qtz phenos.							140		

HOLE NO. R 3 | PROJECT: Rupert Inlet | PAGE NO: 1 OF 9

CASING COLLAR ELEV.: 1057.0' GROUND ELEV.: | DATE STARTED: 13 July 1974 | REF. TO CLAIM CORNER:

COORDINATES: 2279.0 N. 44549.8 E. | DATE FINISHED: 16 July 1974 | SCALE: 1" = 10'

INCLINATION: -90° BEARING: - | TOTAL DEPTH: 501' | LOGGED BY: PMK + JL

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					0-31 Overburden.					BQ			
40					31-75 Fragmental Tuff. Dark grey w. bleached lighter grey runs. Fine grd, well shattered. Occas. hairline calc. veinlet in tuff. Bleached or slightly alt'd zone from 51 to 60 and 65 to 67 contain abundant calc veining. Dissem py, few veinlets. Few lighter green amygduloidal chlorites in darkest tuff; epidote vnlets. 58 to 60 - med grey, silic. slight porphyritic appearance - fspar + qtz phenos, some chlor. chlor. amygd., epid vnlets in dark grey tuff. slightly alt'd, calc vns silic - porphyritic appear. shattered. calc, alt? well fract'd.				80		40		<.2
50											50		
60													
70											70		
80					75-97 Orange Porphyry see next page.						80		<.2

HOLE NO. R4 | PROJECT: | PAGE NO: 10 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
				458-603 Alt'd Frsgmt'l Andesite grey-purple grdmass w. chloritic frags. Calc vning occasionl. Clay alt'n + some silicificat'n in grdmass. Dissem py in clusters						570		
				mirmekitic chlor. frags. in grey purple, partially silicif. grdmass.						580		<.2
				chlor. frags								
				alt'd, around frags.								

HOLE NO. R 4 | PROJECT: | PAGE NO: 9 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
490					458 – 603 Altered Fragmental Andesite purple-grey alt'd soft grdmass w. green chlor frags. Some silic runs + vns. Calc veining Throughout but not abundant. Dissem py. 500+ silicified grdmass, less alt'd.								
500					silic vn.								
					grdmass becoming silicified						510		
													<.2
520											520		
					qtz vn								
530													
540					clay alt'n min. in frags + vns.						540		
													<.2
550					calc vn s.						550		

HOLE NO. R4 | PROJECT: | PAGE NO: 8 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
430				chlor-calc-laum altd.	377-435 see previous page.								
440	chlor alt? vnlets + slips w. calc, laum. much orange laum veining			phenos-chlor, qtz	435-458 Fragmtl andesite dark grey, with green chloritic frags. (<1/8" size) spotted throughout. Some alt'n - light green chlor-epid vnlets. Intense orange laum + calcite veining, often w. dark veins of altd andes. + med grey altd matrix.				88		450		<.2
460	highly shattered. pyrophyllite alt'n?				458-603 Altered Fragmental Andesite med. grey-green w. purplish hue., med grained, well fractured. green chlorite alt'n, pervasive and in frags. Calc veining frequent, some w. alt'n in slips. Grey-purple colour - due to fine gr'd hematite stain. Clay alt'n - pyrophyllite frags? - soft containing chlor. frags, dissem py + py vnlets.						460		
470													
480	slightly silic										480		<.2
490											490		

HOLE NO. R 4 | PROJECT: | PAGE NO: 7 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
70					365-377 vnlets. Scattered dissem py.; occas. calc vnlet								
80				vuggy	377-435 Alt'd Fragmental Andesite med grey-green with abundant orange calc + laum, veined throughout. Green chloritic frags. Grey-brown alt'd grdmass in runs with more laum-calc-py-blk andes. veining. Some well alt'd chlor- w. vuggy texture. Some silicificat'n and qtz vnlets. Abundant pyrite. minor cpy				92		390		
90				epid laum abundant.									
100				epid pods. epid envelope							400		<.2
110				epid vnlets.									
120				silicif of grdmass laum-calc. vns.							420		
130											430		

HOLE NO. R4 | PROJECT: | PAGE NO: 6 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
				268-320 Slightly Altd Fragmt'l Andesite see previous page								
pervas. mag. 2" qtz br												
				320-365 Chloritic, alt'd fragmt'l Andesite Well alt'd, light to med grey-green. much orange laum veining and white calc. some vuggy clay alt'd patches, minor amts silicification Occas. epid bleb. Abundant py - dissem + vns. Occas. cpy showing				92		330 340		<.2
good cpy laum-py vns. minor epid.												
light grey-green laum-calc vns. minor epid., vuggy - sericite										360		
				365-377 dark grey, fragmt'l andes. small green chlor. phenos, minor epid.						370		<.2

HOLE NO. R 4 | PROJECT: | PAGE NO: 5 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
250					244 – 268 Frsgmt'l Andesite Med grey green, very fine grd, fair fracturing. Fine magnetite veinlets + some peruss mag. Calc + lsum veining infrequent med grey, bleached. py veinlets + disseminations.								
260													
270					268 – 320 Slightly alt'd frsgmt'l andesite. grey brown alt'd grdmass with green chloritic frags. - many large sub rounded frags. up to 1". minor epid Orange lsum + calc. vns. in runs. Alt'n stronger in runs – chlor, calc, dark grey andes. veined together. Some black magnetic andes. frags. py veinlets + disseminations occasional cpy.				92		270 280 300 310		<.2 <.2
280					calc vns w py dark alt'd andes. chloritic vns.								
290					calc-lsum vuggy. 6"								
300					magnet. frags.								
310													

HOLE NO. R 4 | PROJECT: | PAGE NO: 4 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
190					very fine grd. 118–244 Hematite Stained Fragmental Andesite cont'd, see previous page								
200					increasing green mirmekitic chloritic andes. in purplish grdmas. much py in- blebs + vnlets throughout.								
					minor laum - calc., bedding chlor-andes w grdmass,						210		
					minute andes phenos in light + dark purple vague "beds" shows some lineation.				92				<.2
220					dark, magnetic frags.						220		
230					spotted-frags andes. in calc vned grdmass, py. calc-py vn-qtz. frags. green chlor-andes. minor silica w. magnetite								
240											240		
													<.2
250											250		

HOLE NO. R 4 | PROJECT: | PAGE NO: 3 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
30				qtz-andes phenos.	118 - 244 Hematite Stained Fragmental Andesite cont'd from previous page								
40				shattered	zones of green grey andes. sub rounded frags, grey clay alt'd mins + occas. pyrophyllite, minor silic frags. in purplish-red hematite stained grdmass. pyrite throughout. Some calc vns.						150		
				(>1" frags) fragmt'l chlor in purple grdmas. chlor - py.	Weakly magnetic frags occasional				88		160		<.2
60				hematite spots. w. chlor frags.									
70				calc vns.									
80				mirmekitic andes frag. in grey alt'n min frag. in purplish grdmass.							180		
				frags w. dissem py.									<.2
190				186 - 196 remanent mirmekitic chlor. andes. in grey frags in grdmass							190		

HOLE NO. R4 | PROJECT: | PAGE NO: 2 OF 10

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
10					py blebs. reddish-purple hematite? masking hematite stained py veinlets.						90		
0					22-90 Fragmental Andesite cont'd, see previous page. talc-pyrophyllite? - clay min. alt'n frags in reddish-purple hematite								
0					py-clay mins. in small slips. calc py vnlets.				88		100		<.2
0					90-118 Alt'd Frsgmt'l Andesite med grey, med. gr'd, well fractured clay alt'n; occas pyrophyllite frag. Some white, crumbly alt'n clay mins. Occas. calc + laum vnlet. Small andes-chlor. frags in less alt'd zone. py vnlets + disseminations abundant								
20					minor alt'n.						120		
30					118-244 Hematite-stained Frsgmt'l Andesite. Fine gr'd, purplish-red-grey colour, moderately fractured. Spotted with py & some py veinlets throughout						130		

HOLE NO. R4 | PROJECT: Rupert Inlet | PAGE NO: 1 OF 10

CASING COLLAR ELEV.: 1032.3 GROUND ELEV.: | DATE STARTED: 16 July 1974 | REF. TO CLAIM CORNER:

COORDINATES: 1835.5' N. 42534.3 E. | DATE FINISHED: 20 July 1974 | SCALE: 1" = 10'

INCLINATION: -90° BEARING: — | TOTAL DEPTH: 603' | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					0-22 Overburden					BQ			
20					22-90 fragmental andesite Red-brown-grey, fine gr'd, well fractured. Occasional thick calc vn. Small dark frags throughout. Some alt'd fspars. and grey silic bleaching zones. Grey alt'n often mymekitic through andesite grdmass. Red-brown - almost purplish hue due to very finely dissem. hematite? Appears throughout core. Abundant py. disseminations + veinlets Little or no cpy. Occas. magnetic frag. generally weakly magnetic.				92		30		
40											40		<2
60											60		<2
											70		

alt'd fspars w. calc. vn.

bleached grey, minor silica

calc vn w. chlor. slip. ≈ very fine gr'd, blk. tuff?

calc vns in reddish-purple alt'd andes.

HOLE NO. R5 | PROJECT: | PAGE NO: 8 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK + JL

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
530					few calc-laum vnlets.								
					368-555 Epidote Spotted Tuff see previous page								
540					weak fault – gouge				90				
					calc vns.								
					epid. vns.			555					
560					555 – 607 - Mixed fine f'gtl andesite to coarse f'gtl w close packed frags to 1" size. Pervasive light epid. alt'n throughout. Numerous calcite stringers. Non magnetic. Varys from pale gray green to dark gray. Spse py.								No Samples
570					weak fault.				70				
580													
590								590					

HOLE NO. R5 | PROJECT: | PAGE NO: 7 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
										470		

368-555 Epidote spotted Tuff

med grey-green, med gr'd, well fractured. Epidote abundant throughout in spots, small veinlets + on fractures.

crumbly

Some calc veining, occas. laum.

Slightly all'd - crumbly runs.

Little mineralization (sulphides)

Weakly or non-magnetic.

90

calc vns.

very crumbly

No samples

HOLE NO. R5 | PROJECT: | PAGE NO: 6 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
410					368-555 Epidote spotted Tuff. minute epidote spots, veinlets throughout dark or med grey green andesitic grdmass. Some occas. calc vnlets and frags. Minor laum in occas slip or frag. No noticeable sulphides.				90				Samples
420													
430													
440					calc vns.								
450					well shattered ↓								No
460													
470													

HOLE NO. R-5 | PROJECT: | PAGE NO: 5 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: PMK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
350					292 – 368 - See p. 4			350					
					slip								
360									90				
					slip								
								368					
370					368- Epidote Spotted Tuff dark to medium grey green, fine grd, highly fractured. Epidote spots and veinlets throughout chloritized grdmass. Some calc frags + unlets. Weakly magnetic in frags. Some laum in fracts. in small frags. Little or no py or cpy.								Samples - No
380									90				
390													
400													
					epid pod.								

HOLE NO. R 5 | PROJECT: | PAGE NO: 2 OF 9

CASING COLLAR ELEV.: | GROUND ELEV.: | DATE STARTED: | REF. TO CLAIM CORNER:

COORDINATES: N. E. | DATE FINISHED: | SCALE:

INCLINATION: | BEARING: | TOTAL DEPTH: | LOGGED BY: JL + PK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
170					124-208 Epidote spotted Tuff med grey green, generously spotted w. green epidote specks + frags. Crumbly soft zones, well shattered throughout. Occas. hematite stain, calc-qtz unlets. Little py.								
180					lost core soft, crumbly.				82				
190					crumbly minor qtz-calc.								
200					black alt'd andes. streaks. epid. streak.								Samples.
								208					
210					208–292. Finely fragmented tuff, somewhat shattered & broken up. Some very irreg. calc. seams. Pervasive epidote alt'n in streaks & also in fragments. Rockly slightly mag'tc. Sparse py. No visible cpy.								No
220					rubbly				83				
230					fault			230					

HOLE NO. R-5 | PROJECT: Rupert Inlet | PAGE NO: 1 OF 9

CASING COLLAR ELEV.: 1015.8 GROUND ELEV.: | DATE STARTED: 20 July '74 | REF. TO CLAIM CORNER:

COORDINATES: 1005 N. 40563 E. | DATE FINISHED: 26 July '74 | SCALE: 1"=100'

INCLINATION: −90° BEARING: − | TOTAL DEPTH: 607' | LOGGED BY: PMK + J.L.

COMMENTS: at head of Rupert Inlet. 100' E of Marble River pipeline & 800' S of Wauk Waas Cr. bridge

AVE CORE REC'Y / HOLE

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
0					0-124 Overburden				BQ			
120												
					124-208 Tuff							
130				dark grey green tuff. less epid.	med grey green - spotted w. green epidote throughout, medium grd, very well fractured							
				med grey-green much epidote	Well spotted w epidote, occas. calc vnlet. Qtz sub angular frags. <¼" spotted sparsely throughout.							
140				soft, crumbly.	Occas. hematite staining + frags							
				much epid.								
150												
												No Samples.
160				hematite frags. + staining.								
170												

SEC. 33 | SEC. 34 | SEC. 35 | SEC. 36 | SEC. 31 | SEC. 32

SEC. 28 | SEC. 27 | SEC. 26 | SEC. 25 | SEC. 30 | SEC. 29

SEC. 21 | SEC. 22 | SEC. 23 | SEC. 24 | SEC. 19 | SEC. 20

SEC. 16 | SEC. 15 | SEC. 14 | SEC. 13 | SEC. 18 | SEC. 17

TP. 25 | TP. 4 | TP. 3 | TP. 6 | TP. 30

Township Line 2

Highway 19

Rupert Inlet

Rayonier (Surface)

Mac Millan Bloedel (Surface & Minerals)

Rayonier (Surface & Minerals)

Reserve - (Surface)
Access - (Minerals)

EES GROUP

OPEX GROUP

RUPERT GROUP

(Expo No. 11 Fr.

R1 -90° 604'
R2 -90° 600'
R3 -90° 501'
R4 -90° 604'
R5 -90° 607'

UTAH MINES LTD
NANAIMO M.D. PORT HARDY
DIAMOND DRILL HOLE LOCATIONS
R1 R2 R3 R4 R5

Note: The following fractions are also recorded within the group, positions unknown:
Expo 12 Fr.
Expo 13 Fr.
Expo 14 Fr.
Expo 15 Fr.
Expo 16 Fr.

N

EES GROUP
OPEX GROUP
RUPERT GROUP
SCALE 1 INCH = 1000 FEET

To accompany assessment report by P.M. Kaiway August 1974.

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5102 MAP #2

5102
MAP 2