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# REPORT ON EXAMINATION OF CRESCENT CLAIM GROUP OCTOBER 11 - 15, 1983

### SKEENA MINING DIVISION

### 103B/12W.

by J.C. STEPHEN

J.C. Stephen Explorations Ltd. 1458 Rupert Street, North Vancouver, B.C.

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# REPORT ON EXAMINATION OF CRESCENT CLAIM GROUP OCTOBER 11 - 15, 1983

#### INTRODUCTION AND SCOPE OF INVESTIGATION

The CRESCENT claim group of 77 units is located on central Moresby Island, the southern main island of the Queen Charlotte Islands and was staked on behalf of the B.C. Gold Syndicate during 1979. Geochemical sampling outlined extensive gold anomalies which were investigated by geological mapping, rock trenching and six diamond drill holes tetalling 761 metres. No ore grade mineralization had been located and a drill program recommended for the year 1981 was not proceeded with. A comprehensive report entitled "Diamond Drilling Report on the CRESCENT GROUP" by J.T. Shearer dated January 30, 1981 summarized data to that time.

Heavy timber and relatively rugged topography made investigation of geochemical anomalies, especially those on lower slopes, difficult and expensive. It was recommended that this investigation be pursued after timber harvesting.

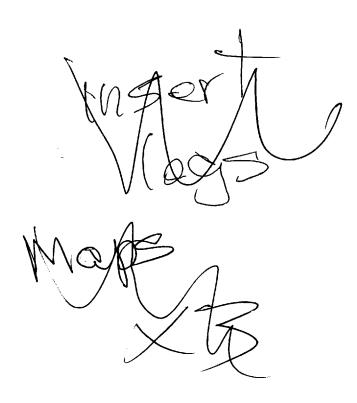
During September 1983 Falconbridge Limited made enquiries about the claim group in light of the closure of the Tasu iron mine which is located a short distance west of the CRESCENT group. Falconbridge has been conducting an appraisal of mineral prospects on the Queen Charlotte Islands. Western Forest Products had extended logging roads into the central portion of the claim group and logging was proceeding in this area. Figure 1 shows location of roads in the area. It was decided an examination of new rock exposures should be made before possible negotiations with Falconbridge should proceed.

During the period October 11 - 15 J.C. Stephen accompanied by geologist Audrey Heagy and Falconbridge geologist Sandra McAllister visited the CRESCENT group. Stephen carried out pace and compass mapping of the new logging roads in the vicinity of geochemical anomalies while Heagy guided McAllister on examination of anomalous areas, drill core and road outcrops. Heagy also carried out some additional mapping and sampling on an anomalous zone in Co Linear Creek southwest of the active logging area.

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#### GEOLOGICAL MAPPING

Location of new logging roads in the central portion of the claim group was mapped by pace and compass. Locations should be considered as approximate with that shown on the 1:2500 geology map (Map I) probably being most accurate. The extent of logging roads mapped is shown on MAP I Geology at 1:5000 scale. The following rock units were noted: -

ROCK UNITS

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5	Rhyolite dykes - pale creamy white, pyritic.
5a	Rhyolite, banded - white to creamy banded rhyolite
	with dark gray patches and banding.
5h	Dykes - dioritic, hornblende porphyry, feldspar porphyry.
3	Andesite - fine grained grey green, generally mas-
	sive, includes diabasic varieties. Gen-
	erally occurring as steeply dipping sykes.
37	Andesite Breccia - Crowded dark green angular to sub
	rounded fragments up to 3 cm diameter in
	more felsic f.g. groundmass.
5f	Gabbro - Dark green, coarse grained, generally
	chloritic with patchy "globular" appear-
	ance.
2b	Argillite - Black and gray carbonaceous to cherty thin
	bedded, well banded.

ARGILLITE (Kunga Fm Unit 2b)

Road cuts have exposed relatively extensive argillite formations which are recessive weathering. This formation is much more

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extensive than indicated by earlier mapping. It consists of black calcareous to carbonaceous beds interbanded with gray to creamy silty to chert beds. It is well bedded, dipping generally gently west or northwest but occasionally badly disrupted with abrupt changes in attitude.

On Co Linear Creek, in the southwest portion of the property, Heagy re-examined an anomalous area underlain by argillites cut by volcanics, porphyry dykes and rhyolite. Some of this argillite is highly silicified resulting in a dense fine bluish gray rock cut by narrow siliceous stringers.

#### GABBRO (Assigned to Unit 5f)

This is a massive dark green, generally chloritized rock with rounded aggregations of mafic minerals surrounded by more felsic material. Few contact relationships were observed.

#### ANDESITE (Designated Unit 3)

This designation has been used to denote a range of gray green to nearly black fine to very fine grained massive volcanic rocks. Isolated outcrops of fine diabasic texture are included. Occurrences vary from 15 cm wide, steeply dipping, very fine grained dykes to fine grained gray green rock with chilled margins against intruded sediments but with internal contacts which may be either flow contacts or intrusive contacts. Some outcrops are clearly steeply dipping dyke forms intruding sediments or gabbro but others show no contact exposure and attitudes are indefinite.

#### ANDESITE BRECCIA (Designated Unit 3x)

This rock consists of matrix supported, crowded, angular to subrounded dark green chloritic (andesite?) fragments in a lighter gray green more felsic matrix. Contact relations were observed in only one area where this rock type is in contact with andesite. The relationship is unclear. The rock has the appearance of fine agglomerate or air fall volcanic breccia. Its relationship to other rocks suggests an intrusive breccia. In the more northerly exposures the rock is chloritized and contains a small amount of pyrite and rare chalcopyrite.

#### DYKES (Unit 5h)

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Several dykes occur as isolated single exposures along road cuts. These vary from feldspar porphyry, hornblende porphyry to diorite. Some are fractured or well jointed parallel to contacts and some contain pyrite and rare chalcopyrite mineralization.

#### RHYOLITE, BANDED (Unit 5a)

One exposure of thinly banded white to rusty weathering rhyolite occurs near the north margin of the 1:2500 scale geology map. Some thin bands consist of dark gray siliceous material but for the most part the rock consists of aphanitic siliceous material. Disseminated pyrite mineralization is present. This is a single outcrop and no contact relations were observed.

#### RHYOLITE DYKES (Unit 5)

White to cream colored, generally aphanitic, pyritic dykes occur predominantly west of the Red Seam Zone. These dykes are vertical, or nearly so, and strike \$30°W. They vary in width up to 3.5 metres. Pyrite occurs disseminated or as cubic crystals on joint and fracture planes.

#### STRUCTURE

Argillite of the Kunga Formation dips generally northwest but is locally complexly folded. It is recessive weathering and is sometimes indicated along road cuts by deposits of black clay with embedded argillite fragments. The argillite is cut by numerous dykes of varied composition, most commonly andesite, which are steep to vertically dipping. The majority of contacts between Kunga argillite and intruding andesites strike approximately south and dip 65° west to vertical. No clearly conformable sediment - volcanic contacts were observed, all appear to be intrusive though several could be interpreted as faulted contacts. The andesitic rocks are generally massive and relatively fresh in appearance in contrast to the folded, sheared and broken nature of the argillites.

No clear contact relationships of the gabbro with argillite were observed. The gabbro is thought to be a steeply dipping intrusive body probably arc shaped and relatively narrow as shown by the ground magnetometer survey, (Figure 10 Geological, Geochemical Geophysical Report dated August 15, 1980)

The rock termed andesite breccia is of uncertain origin. It is presumed to be of intrusive character.

The majority of narrow dykes including the pyritic ` rhyolites strike S30°W and dip vertically. Several zones of shearing and sets of strong fractures on the main road west of Red Seam Zone also strike S30°W.

A topographic lineament trends N30°W through Red Seam Zone nearly parallel to the main road. Outcrops along this zone occur in two places where the rock is highly fractured and manganese stained.

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It is thought the sets of S30°W dykes and fractures may be related to a fault passing through this topographic depression. Several branch shears are suspected to underlie local drainage systems.

#### **MINERALIZATION**

Pyrite occurs as fine disseminations within grey argillite beds and along bedding planes.

Pyrite is commonly associated with feldspar and hornblende porphyry dykes as disseminations and small patches.

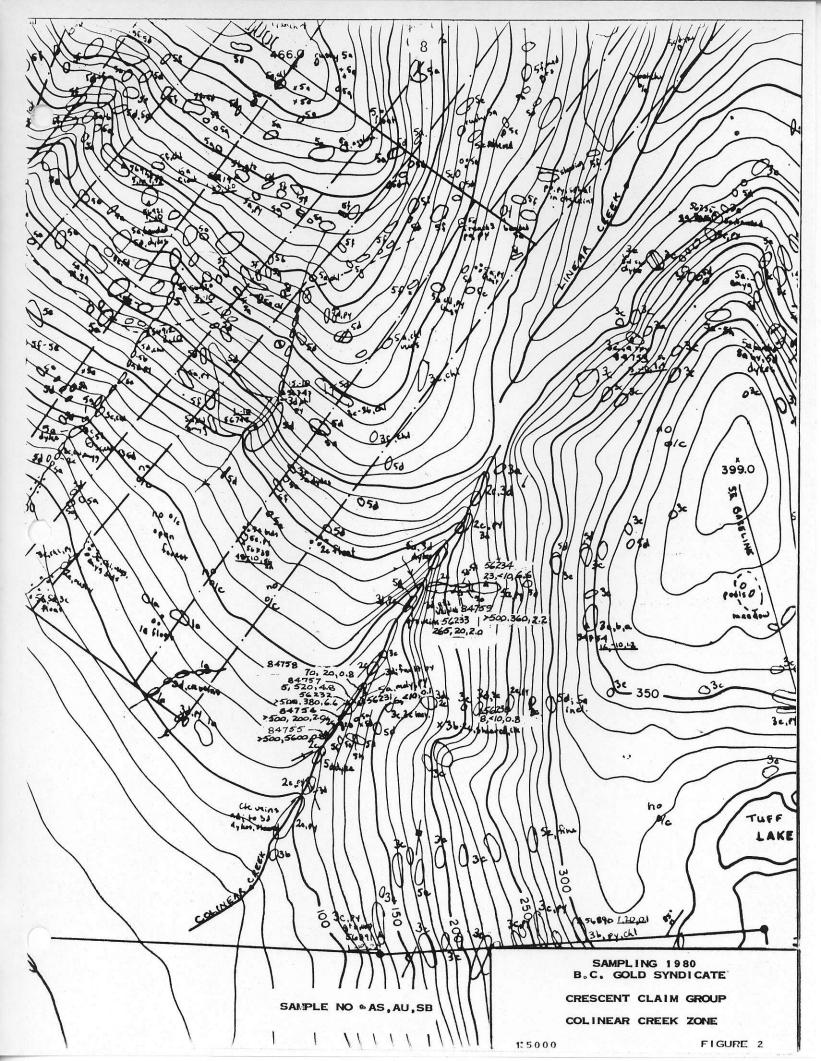
The andesite breccia locally contains pyrite on fracture or shear zones together with rare chalcopyrite and small lenses of pyrrhotite.

Pyrite is relativelyabundant as disseminations and on fracture planes within banded rhyolite and rhyolite dykes. Much of this pyrite is very pale in color and in one case, sample location 67329, arsenopyrite is associated with pyrite mineralization.

Manganese staining occurs on a few outcrops of highly fractured and altered rock of several types.

No quartz veining was observed although weak carbonate veining is fairly common mainly within andesites and gabbro. Several of these carbonate vein systems carry some pyrite mineralization.

The Co Linear Creek Zone, Figure 2, is located approximately 2 kilometres southwest of the current logging road area. Previous sampling of rock in this area returned gold values ranging from 20 to 5600 ppb. Silicification is locally well developed in this zone. Some further rock sampling was done.



#### ROCK GEOCHEMISTRY

The location of current logging roads is shown on Map III Gold Geochemistry and Map IV Arsenic Geochemistry.

As shown by Map III the new road construction does not intersect any significant soil geochemical gold anomalies. The Red Seam Zone is not indicated by gold geochemistry.

Map IV shows the logging road cutting through an arsenic anomaly immediately west of the lake. Only three small outcrops are exposed within this anomaly along the road. These outcrops of volcanics include minor dykes and some pyrite mineralization. Sampel 48978.

At 500N 800E (approximately) one outcrop of argillite is exposed on the lower road. No indication of mineralization was noted in the few outcrops located within the anomaly between the roads.

The arsenic anomaly surrounding Red Seam Zone lies between the new roads and no further exposures are available.

Sampling of rhyolite dykes and sulphide mineralization along the new roads returned only two values of 90 and 100 ppb Au.

Silicified rocks from the Co Linear Creek Zone returned several rock geochem values up to 520 ppb Au together with a high value of 10,000 ppb Au (0.30 oz/t) from three very narrow quartz stringers. See Map III.

#### ROAD DEVELOPMENT

Road construction as shown by mapping has reached its maximum development for the 1983 season. Western Forest Products personnel tell us they average 8 to 10 miles of road per year at an average cost of \$120,000 per miles.

During our mapping, efforts were made to avoid conflict with active blasting, road building and logging activities and we were treated in cordial manner by the logging people.

Logging has only recently commenced in the area of interest but is proceeding rapidly. This area should be cleared by this time next year. Contrary to our assumption that overburden would be relatively deep it is apparent that bed rock is in reality only one to four feet below surface in large areas. Logging between roads will reveal more outcrop and mapping after completion of logging will be worthwhile.

It will be a year or two yet before logging clears the area of anomalous gold in Co Linear Creek.

#### CONCLUSIONS AND RECOMMENDATIONS

Rock exposures on new logging roads in the vicinity of the Red Seam Zone show several zones of very minor mineralization, intrusion of rhyolite, and rare quartz veining. A 40 cm wide zone of rhyolite with sparse quartz and minor pyrite, arsenopyrite mineralization returned 100 ppb Au. A 2 metre wide rhyolite dyke on the top South spur (Metric Main) returned 90 ppb gold. No mineralization or quartz veining similar to the Red Seam Zone has been exposed and the possibility of a large zone here is somewhat reduced. The area should be re-examined after logging has been completed.

Check sampling of limited exposure on Co Linear Creek returned anomalous values in silicified argillite with minor quartz veining and pyrite mineralization. One sample covering three 1 to 3 centimetre wide veins ran >10,000 ppb gold, equivalent to 0.3 oz Au/ton. This sample is to be assayed to get the actual assay value A sample over 6 metres of silicified, veined, pyritic argillite and including the high grade sample section returned only 60 ppb gold. A sample of cherty material in argillite and of rhyolite each returned 520 ppb fold with the latter sample being over a width of 2 metres.

The Co Linear Creek zone would warrant detailed examination after logging which is assumed will be done within the next two years.

Falconbridge have indicated they do not wish to option the CRESCENT GROUP alone since no zone of significant mineralization has been defined. They propose, however, that consideration be given to formation of a company, partially financed on the public market, to amalgamate the Tasu mine plant, the Cinola gold deposit, the properties and data of B.C. Gold Syndicate and the properties and data of the JMT group on the Queen Charlottes.

It is our recommendation that no immediate work be done on the CRESCENT group but that detailed mapping and sampling be done in one to two years time on completion of logging in the Red Seam area and during logging of Co Linear Creek. We would recommend also that contact be maintained with Falconbridge with a view to co-operating in formation of a rather comprehensive new company to conduct further mineral exploration on the Queen Charlottes in hope of making use of the available mine plant.

> Respectfully submitted, J.C. Stephen Explorations Ltd.

#### J.C. Stephen

JCS/ms

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## APPENDIX I

LIST OF PROPERTIES AS OF OCT. 31 1983

## B.C. GOLD SYNDICATE

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## LIST OF PROPERTIES AS OF OCT. 31 1983

## SKEENA MINING DIVISION

Group		mber Units	Record Number	Expiry Date	Status
CRESCENT	CRESCENT ONE	20	1411	July 6, 1987	Held for B.C.
	CRESCENT TWO	20	1412	July 6, 1987	Gold Syndicate
	CRESCENT THREE	8	1413	July 6, 1987	
	CRESCENT FOUR	8	1414	July 6, 1987	H e
	CRESCENT FIVE	15	1607	July 30, 1987	
	CRESCENT 6	6	2346	June 4, 1987	
LOCKEPORT	LOCKEPORT 1-8	8	2391-98	June 27, 1985	Held for B.C.Gold Synd.
AL DE R	ALDER ONE	20	1608	July 30, 1983	Lapsed
	ALDER GOLD 1	18	1609	July 30, 1984	Held for B.C.Gold Synd.
•	ALDER GOLD 2	18	1610	July 30, 1982	Lapsed
	ALDER GOLD 3	20	1611	July 30, 1982	Lapsed
	RAMBLER PHOENIX	20	1612	July 30, 1982	Lapsed
	ABALONE 1-4	4	1457-60	June 29, 1986	Held for B.C.Gold Synd.
•	ABALONE FR.	1	1683	July 29, 1986	Held for B.C.Gold Synd.
SWAN	SWAN 1-4	28	2463-66	July 28, 1983	Lapsed
TAR	TAR 1-4	4	1590-93	July 26, 1982	Lapsed
	T-ONE	18	2461	July 28, 1983	Lapsed
~	T-TWO	18	2462	July 28, 1983	Lapsed
LYELL	LYELL 1-4	4	1407-10	July 6, 1983	Lapsed
SINGA	SINGA 1-6	6	2365-70	June 16, 1984	Held for B.C.Gold Synd.

HAWKS NEST	BLUEBELL	1	1239	April 25, 1985	Held for B.C.Gold Synd
HAWKS NEST	MAUD	1	1240	April 25, 1985	Held for B.C.Gold Synd
	LILLY	1	1241	April 25, 1985	Held for B.C.Gold Synd
	ANNIE FR.	۱	1242	April 25, 1985	Held for B.C.Gold Synd
	HAWKS NEST FR.	1	1243	April 25, 1985	Held for B.C.Gold Synd

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## ALBERNI MINING DIVISION

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EASY	EASY TWO	20	646	Nov. 23, 1982	Lapsed
	EASY THREE	20	1019	Sept. 4, 1982	Lapsed
	TOO EASY	]	1154	Sept. 4, 1984	Optioned to Falconbridge

## GREENWOOD MINING DIVISION

TENDERLOIN	TENDERLOIN (	ONE	4	1755	Sept. 7, 1983	Lapsed
	TENDERLOIN	TWO	2	1756	Sept. 7, 1983	Lapsed
	TENDERLOIN	THREE	2	1757	Sept. 7, 1983	Lapsed
	TENDERLOIN	FOUR 🔸	<u>ا</u> ٦	1758	Sept. 7, 1983	Lapsed
	WHITE BEAR	-	1	1 709	Aug. 8, 1985	Held for B.C.Gold Synd

### APPENDIX II

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### GEOCHEMICAL DATA SHEET

GEOCHEMICAL DATA SH\_\_T - ROCK GEOCHEM SAMPLING

## J.C. STE. EN EXPLORATIONS LTD.

DATE OCT 13-14 1983

B.C. GOLD SYNDICATE

NTS 103 B/13

SAMPLER JCS + AE HEAGY

PROJECT CRESCENT GROUP

AIR PHOTO No.

LINE

	SAMPLE LOCATION ROCK ALTERATION NUMBER TYPE	ROCK	ALTERATION	MINERALIZATION	STRIKE	ADDITIONAL			APPARI WIDTH		ASSAYS			
NUM			DIP	DIP REMARKS			WIDTH		Au.	As.	14			
489	77	COMPASS DG	BREY SILICEOUS DYKE, MASSINE	MINOR CALCITE FILLED FRACTURES								< 10		0.1
489	78		RUSTY VUGGY ALTERED DYKE	CHLORITIC	MINOR PY							410		0.1
673.	27	NEAR JACT METRIC MOIN & Spur 141	Aphenitic menzin andesite (?) dyke		coarse pyrite	025/V	ents ch unit	loritic	frugmental			<10		0.1
6732	28	u .	gtz-carb- Chlopy vein	in shear	pyrite	156/V				10cm		=/0		0.1
6732	29	SPUR 141	white thyolite dyke	with sparse 9tz; feldsfor phenosts	minor pyrite, alsenopyrite		cuts cl	herty	volcanic	40 cm		100		0.1
673	30	Co-Liner CK.	argillite	weakly silicitied, atzveins	Pyrite	0701V	chip si	vidth				60		0.1
673	31		corcomb quartzveins	in above outcrop	vein morgin	sub conco.clant	3×1- quartz		in argillite			10000		2.4
673	32		binish Qtz- clay seems	in above outcrop	coarse pyrite	concordant	about 10 1-5cm Ch		veins (?)			40		0.1
6733	33		cherty bine- grey seems		pyrite		similar in a					520		0.1
6733			white rhydrite dyke		Pyrite, aspy?		;	0	+	2m.		520		0,1
673	35		argillite	medium gray	fine pyrite, especially on fracture		AIS mo creek		in		4	=10		0.1
678	345	TOP SOUTH SPUR.	GABB20	SHEARWR, LITTLE CARBENATE, CHLORITE	Dissem PY + VERY FINE Asp?	N30°E				9m		<10		0,1
678	4	TOP SOUTH SPUR	UPPER RHYOLITE DIKE	FRESH	DISSEM PY + PY ON FRACTS	NBO'E			1		Zim	R		0.1
678.	47	TOP SOUTH SPUR	LOWER RHYOLITE DYKE	FRESH	Dissem Py + Py en Fracts	Naie					From	-10		0.1
678-	48	NARROW NUSPUR W. OF BREECHA PIT	SWEARED TUFF?	BLEACHED, SHEARED						1 m		=10		0.1
678.	49	PIT AT INTERSECT METRIC MAIN + SPEAR	BRECCHATED VOL		MINOR PY RARE PYRR, CPY							10		0.1
678	50	METRIC MAIN NEATH OF INTERSECTION 130		BLEACH FRACT	PY.		- 1 <sup>-</sup>					= 10		0.1
,							•							
								· · 2.4	15					

CRESCENT THIN SECTIONS GROUPED BY LITHOLDGY (A) QUARTZ PARKWE PORPHYRY (B) DIABASE (3) DDH-80= 3:36.2m, 4 (1) DDH-80-1, 5.4 m (2) DDH-80-2,19,5 (4) DDH-80-6:51.3 (5) 120, 2 m basalt. (6) DDH-BO-1: 24 ilm (P) DIORITE (7) DDH -80 - 5: 72,25m (E) INTRUSIVE, BRECCIA ~ (quarte diorite) V. (F) QUARTZ VEIN, QUARTZ BREACHA (8) DDH-80-5, 106,02 (9) DDH-80-6:35,9 (0) 37,3 (H) HYBRID TYPES V (G). RHYOLITE BRECCIA V (1) DDH-80-1:35m, (1) DOH-80-2:80.5, (3) 110m, (20) DOH-80-1:6.2 m (2) DOH-80-2: 41.45m (1) DOH-BO-3: 15.5, (1) DOH-BO-6: 17.5, (1) 18.5, (1) 25.6 m, (1) 107.1m, (1) 117.1 (23) DDH-80-3: 22.2 m, (23) 30.75 m, (24) DDH-80-4: 10.5 m, (25) 87.2 m. (26) DDH-80-5: 22.1 m, (29) 66:8 m, (29) 71.9 m. (28) DDH-80-6: 39.0 m, (29) 66:8 m, (29) 71.9 m 10 (I) FELDSPAR PORPHYRY -(Quanta diarite porphyry) (J) RHYOLITE V 8 (30) DDH-80-1: 57.1m (31) DDH-80-2: 56.8m (35) DDH: 80-1:27.5m, (3) 29.1m (3) 38m, (39) DDH-80-2:58.0m, (4059.7m, (4) 1/6.7m, (33) DDH-80-3:28.5 (33) DDH-80-4: 70.6m (34) DDH-80-5: 28.3, (35) 53.9 m (2) DDH-80-4: 52.85m (43) 61.1m (K) DACITIC LAPILLI TUFF -VARIOLITIC DACITE V (L) 5 (44) DDH-BO-1: 19.8m (45) DDH-BO-2: 7.6m (43)22m (PS) (49) DDH-BO-1; 11, 7m, (50)DDH-BO-2: 15.2m, (54) 33m (52) DDH-BO-4: 45.9m (53) 47.64, (59) 48.23 (48) DOH-80-2: 39.6 m (40 DDH-30-6: 8.2m I (M) MELANDGABBRO. (N) Quartz Disrife 1 1 (55) DDH-80-3383.7 m, (5) DDH-80.4:68.6 m, (58)71.6m (62) DDH-80-1: 23.9m (63) 50,55m (64) DDH-80-3: 74.0m (65) DH-80-5: 43.7m (65) 88. 50 DH- 80 - 5: 3.1m, (59) 11.0m, (0) 19.0m, (1) 1/1.9m (0) AN/DESITE (P) ARGILLITE (68) DDH-80-6:68.2 (68) DDH-80-5: 43, 4m

APPENDIX VIIT CRESCENT THIN SECTIONS tocks +ype from DDH-1 first) note Label FIELD NAME ater DDH-80-6, 8.2.m (1) Dacific Lapilli tutt Rhyolite Breccia 2 17.5m Rhyolife Breecia 3 18.5m Rhyutbreccia 4 25.6m 5 35.9m. Qtz vein 6 Atz Breecia 37.3 m 14 Argillite 7 39.0m DaciticLapster 4 ff 8 51.3 9 66.8 Argellite Argillite 10 68.2 Argillik Mis Hornfels Rhyther Rhyther (wrong this section) 11 71.9 12 107.1 13 117.1 Rhychan houseda K 120-2 DIABASE DDH-80-5 15 3.1 Melanogabbro Melanogabbro 16 11.0 Melano, diss cpy 17 19.0 HYBRID DACITE 18 22.1 19 28.3 Fp Perphyry wiscolum 43.9 20 diabase - Melanogabbro 12 43.17 51 Diorite Fp porphyry 53.9 22 or poinsted block Melanogabbro 72.25 23 FS with GPY 88 Polished 24 In forthsive BX 25 106.02 -marked 111.9 melanogabbro 26 DDH-80-4 27 Melanogabbro 10.5 Varielific dacite 45.9 28 VarioLitie dacité marked 47.64 29 marked. By- Vario las 48.23 30 52.85 Rhyslife 31 10 Rhyolite 32 61.1 Hybrid Gebbro 33 68.6 Fp porphyry 34 70.6 For por phyry 35 71.6 36 87.2

CRESCENT THIN SECTIONS 3.7 Rhyslife Breccia DDH-80-3 15.5 transition Rhighy - de cite 22.2 38 28.5 Fp Porphyry 39 30,75 Dacife 40 Dabase 36.z 41 Melonogabbro Melonogabbro 42 74.0 43 83.7 DDH-80-2 dacitie lapelle tuff 44 7.6 VarioLificacite 15.Z 45 9/2 diorite dyke \* 23.3 46 Polished section and dacit: Lap tuff 47 22 Varentidacite 33 48 dacitilagittaff 49 39.6 50 91.95 13 Fp porphyry 51 56.8 Rhyolite Ohl Rhyolite 58.0 52 59.7 53 Rhy Byreccia 80.5 54 Polished section Rhy breccia 55 110 Polished section Rhyolite + Po 56 116.7 57 DDH-80-1 Quartzdiorite Vorphyry # doc Lap tuff + dyke Varishtidacite 5.4m 6.2 58 11.7 59 daithapilituff 19.8 60 diabase 23.9 diabase/dacitéentiget 61 24.1 6Z IZ Black Shale 27.5 63 Polished section 29.1 Rhy & wf Po 64 Rhy Breccia Rhyolite 35 65 38 6.6 50,55 Melanogabbro Fp porphyry 67 57.1 68 1369

