811676

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #2

PROPERTY WHITEROCKS

SHEET NUMBER 1
SECTION FROM 0 TO 400'
STARTED June 2
LATITUDE 80+00 S
DATUM -
COMPLETED June 4
DEPARTURE 3+00 W
BEARING Due west
ULTIMATE DEPTH 401'
ELEVATION -
DIP -45°
PROPOSED DEPTH 400'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU.	PB.	ZN.	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
		SUMMARY: With the exception of a short												
		length of metasedimentary rock near the												
		top of the hole, the hole was drilled for												
		its entire length within coarse grained												
		biotite pegmatite. No visible copper												
		mineralization whatsoever was encountered												
0-46	100%	Dark green pegmatite. Feldspar up to	1129	20-30										
		several Cms. in length 30%-35% biotite and	1130	50-60										
		chlorite interstitial to feldspars. Minor	1131	200-210										
		amounts of amphibole - Epidotized feldspars	1132	240-250										
46-78		Screen of fine grained grey metasediment	1133	280-290										
		with disseminated pyrite.	1134	340-350										
			1135	390-400										

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #2

PROPERTY WHITEROCKS

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
78-313		Mafic pegmatite-biotite and chlorite rich.												
313-314		Fine grained grey metasediments, small												
		amount of graphite associated.												
314-401		Mafic gegmatite.												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 1 | SECTION FROM 3 TO | STARTED May 19

LATITUDE 68+00 S | DATUM | COMPLETED May 20

DEPARTURE 20+00 E | BEARING - | ULTIMATE DEPTH 197'

ELEVATION | DIP Vertical | PROPOSED DEPTH 200'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU.	PB.	ZN.	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
		SUMMARY: The drill encountered magnetic												
		mafic rocks throughout the entire length of	1112	3-33										
		the hole. Pyrite was present in amounts	1113	33-55										
		ranging from .5 to 5%. Bornite was seen in	1114	55-73										
		trace amount at one place near the 7 ft.	1115	73-100										
		mark. At two other footages and	1116	100-127.5										
		traces of chalcopyrite were seen. In	1117	127.5-154										
		general epidotization was not as extreme	1118	154-172										
		in this hole as at other sites to the west.	1119	172-197										
		Alterationdid seem to increase somewhat												
		with depth.												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #5

PROPERTY _____

SHEET NUMBER 2 | SECTION FROM _____ TO _____ | STARTED _____

LATITUDE _____ | DATUM _____ | COMPLETED _____

DEPARTURE _____ | BEARING _____ | ULTIMATE DEPTH _____

ELEVATION _____ | DIP _____ | PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
0-3		Overburden												
3-7		Lamprophyric alkalic gabbro with euhedral												
		phenocrysts of amphibole up to 1 cm. in length.												
		Ground mass is fine grained epidotized												
		felsic material (6' to 6.3' there is a												
		narrow feldspar porphyry dike; dark grey												
		with ovoid penocrysts of feldspar.												
7-8		Alkalic gabbro with traces of bornite and	Visual		< .1%									
		chalcopyrite.												
8-49		Alkalic gabbro.												
		Feldspar porphyry dike 13.5-16'. Two inter-												
		secting directions of epidote filled												
		fractures. Scattered felsic clots up to 1"												
		across surrounded by rims of epidote lam-												
		prophyric (42-44'). Euhedral amphiboles up												
		to 2 cm. long. Some segregation of felsic												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
		material interstitial to the amphiboles.												
		At 44.0 there is a banded epidote zone												
		approx. 1" thick underlain by a 1" band of												
		smeared amphibolitic material.												
45-47		Feldspar porphyry euhedral phenocrysts.												
47-48		Lamprophyric gabbro												
48-50.5		Very fine grained grey rock. Resorbed (?)												
		boundaries - inclusion of argillite.												
50.5-52		Medium grained alkalic gabbro. approx. 20%												
		felsic material.												
52-52.5		Narrow layer lamprophyric gabbro -												
		Amphibole phenocrysts up to 3 cm. long.												
		Euhedral.												
52.5-61.5		Alkalic gabbro												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
61.5-65	.5	Numerous fractures with epidote in alkalic												
		gabbro at angles of less than 15° to the												
		core axis.												
65.5-68		Fine grained mafic dike parallel to core-												
		axis in contact with lamprophyric gabbro.												
		No alteration zone. Fine grained mafic												
		dikes are more magnetic than the coarser												
		grained rocks. At 65.5' there is a narrow												
		sheared epidotized zone at an angle of												
		approx. 45° to the core.												
59-61.	2	Fine grained mafic dike - magnetic.												
69.0-70	.5	Lamprophyre dike.												
70.5-75		Fine grained magnetic dike.												
75-83		Lamprophyre												
		79-80 - Fractured epidotized zone												
		approx. 5% pyrite.												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
83-84.5		Lamprophyre												
84.5-87		Fine grained mafic dike												
		85.5 - there is a narrow quartz filled												
		fracture about 1½" thick. On one edge of												
		the filling there are a few smeared out												
		crystals of amphibole.												
87-87.7		A narrow dike with small feldspar pheno-												
		crysts (2 mm).												
87.7-91		Magnetite rich, dark, laminated at an												
		angle of approx. 70° to the core-axis.												
		Gabbroic rock approx. 3% pyrite.												
91-103	100%	Approx. 5% pyrite smeared dark laminations												
		at approx. 45° to core-axis numerous epidot-												
		ized fractures with associated pyrite. Approx.												
		one fracture for every six inches.												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 6 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
103-107		Fine grained grey porphyritic dike												
		approx. 10% penocrysts of feathery pheno-												
		crysts of felsic material - foliated at												
		approx. 30° to core-axis.												
107-111	100%	Lamprophyre not so many amphibole pheno-												
		crysts as previously. Uniform fine grained												
		grey groundmass. At 110.5 there is a large												
		felsic clot (with pyrite) in an envelope												
		of epidotized gabbro. (there are large												
		rosettes of radiating amphibole crystals												
		in this particular section of core.												
111-115		An inclusion of light grey metasedimentary												
		material quartzose band at the top, limy.												
		The margin of the inclusion is marked by												
		numerous black spheres.												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 7 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
115-117		Lamprophyre												
117-119		Ultramafic layer approx. 5% pyrite - dark,												
		black largely amphibole minor augite.												
121-122	100%	Amphibole rich band laminated at approx.												
		45° to core-axis.												
124-125		Lamprophyre												
125-127		Epidotized lamprophyre.												
127-128		Foliated gabbro.												
128-142		Dark green alkalic gabbro approx. 1 epidot-												
		ized fracture for every 6" of core												
		(136-136.6 - fine grained magnetic mafic												
		dike)												
142-142.6		Fine grained magnetic mafic dike.												
142.6-147		Alkalic gabbro												
147-165		Alkalic gabbro approx. 1 fracture per inch.												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 8 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
		The rock has a mottled appearance. Most												
		of the fractures are approx. orthogonal to												
		the core-axis and a lesser set approx. 45°												
		to core-axis. Pyrite is irregularly dis-												
		tributed (about 4%) some introduced quartz												
165-167	100%	Dike of foliated alkalic gabbro.												
167-178	100%	Alkalic gabbro with 5% scattered large												
		phenocrysts of amphibole (up to 1 cm. long).												
178-179	100%	Foliated alkalic gabbro dike.												
179-180.5		Fractured and epidotized zone												
181-182.5	100%	Alkalic gabbro												
182.5-187	100%	Aklalic gabbro with scattered amphibole												
		phenocrysts. Several quartz-pyrite filled												
		fractures up to ½" thick.												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #5

PROPERTY WHITEROCKS PROJECT DOBBIN GROUP

SHEET NUMBER 9 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
187-194	100%	Dark mafic rich alkalic gabbro, Approx.												
		15% amphibole phenocrysts. Narrow epidotized												
		zone at 190' approx. 6" wide.												
194-196	100%	Grey laminated quartzose metasedimentary												
		inclusion limy.												
196-197		Sheared, foliated alkalic gabbro.												
		End of Hole.												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #8

PROPERTY WHITEROCKS MOUNTAIN DOBBIN GROUP

SHEET NUMBER 1 | SECTION FROM 0 TO 200' | STARTED May 21/70

LATITUDE 72+00 S | DATUM - | COMPLETED May 22/70

DEPARTURE 16+00 E | BEARING - | ULTIMATE DEPTH 200'

ELEVATION | DIP Vertical | PROPOSED DEPTH 200'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
	100%	SUMMARY: The hole throughout was drilled												
		in trachytoidal syenodiorite comprised												
		approx. of 60% feldspar and 40% mafic												
		minerals. Plagioclase (about 10%) has												
		largely been replaced by epidote. The	1126	123-147										
		amphibole which occurs interstitially have	1127	147-178										
		chloritic rims. Feldspar (K-spar) or	1128	178-200										
		cryptoperthite are up to 2 cm. long and												
		have simple carlsbad twins. The core is												
		moderately magnetic throughout. The rock												
		in general is quite fresh. There are sev-												
		eral narrow broken zones near the top of												
		the hole. Occasionally, adjacent to												
		fractures there are zones of K-spar alter-												
		ation (reddish bands up to about 1" in width)												

DIAMOND DRILL RECORD, HOLE NO. D.D.D.H. #8

PROPERTY WHITEROCKS MOUNTAIN DOBBIN GROUP

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
		There appears to be more chalcopyrite in												
		hole #8 than in Hole #5 or Hole #9 although												
		it is still present in trace amounts only.												
		Chalcopyrite occurs in association with the												
		occasional narrow quartz veinlet. Trach-												
		ytoidal foliation is usually sub parallel												
		to the core axis												
0-3		Overburden.												
3-200		Trachytoidal syenodiorite. Chalcopyrite												
		occurs in trace amounts at the following												
		footages: 41.5)												
		95.6) Trace amounts of chal-												
		100.6) copyrite occurs at these												
		118.0) footages.												
		152-157)												
		175)												
		177)												
		183)												
		Unknown dark mineral at 103.5 Sample												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #9

PROPERTY WHITEROCKS MOUNTAIN PROPERTY

SHEET NUMBER 1 | SECTION FROM 0 TO 200' | STARTED May 21

LATITUDE 72+00 | DATUM | COMPLETED May 22

DEPARTURE 19+50E | BEARING | ULTIMATE DEPTH 200'

ELEVATION | DIP Vertical | PROPOSED DEPTH 200'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU.	PB.	ZN.	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
		SUMMARY: This hole was drilled entirely												
		within the confines of grey alkalic gabbro.												
		In general the core becomes increasingly												
		more mafic at depth. Average grain size	1123	125-157										
		of the feldspars at the top of the hole	1124	152-178										
		is 1mm-2mm x 1 cm. and commonly have	1125	178-200										
		simple carlsbad twins. Near the bottom												
		of the hole the crystals are not as well												
		formed (grain size approx. 2 mm.).												
		Scattered phenocrysts of amphibole occur												
		throughout the hole. (About 5%) grain size												
		4 mm.Feldspar percentages drop from about												
		50% at the top of the hole to 35% at the												
		bottom of the hole												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #9

PROPERTY _____

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
0-3		Overburden												
0-30		Highly fractured grey feldspathic gabbro												
		approx. 60% feldspar. Feldspars are trach-												
		ytoidal with blue grey schiller effect.												
		Trace chalcopyrite and bornite at 10'. At												
		30' there is a narrow sheared zone.												
		At 31' there is a narrow quartz vein at												
		approx. 45° to core-axis. At 35' there is												
		a 2" thick fine grained mafic dyke inter-												
		sects core axis at 45°. At 42' there is a												
		small sheared zone about 1" wide. It is												
		rusty and appears to have been an open												
		fracture. Just above it there is a narrow												
		fracture with chalky white alteration on												
		either side. Beneath the fracture the rock												
		is completely epidotized.												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #9

PROPERTY WHITEROCKS MOUNTAIN PROPERTY

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
		At 42.5' there is a quartz veinlet about												
		¼" wide (6" long and parallel to core axis).												
44-45		Sheared amphibole enriched zone approx.												
		5% pyrite.												
45-46		Fine-grained dyke, magnetic, about 8" thick.												
46-62		Feldspathic gabbro as above, largeley un-												
		altered, several fractures at 61'. One is												
		filled by a feldspathic veinlet- approx. 30°												
		to the core-axis. Trace chalcopyrite at 57'												
		and 63'.												
69-70		Sheared, dark, pyritized zone (no chal-												
		copyrite or quartz). Approx. 5-7% pyrite.												
70-		Feldspathic gabbro- gradually becomes more												
		mafic - approx. 40% feldspar.												
		75'-77' is a fractured zone epidotized-												
		fracturing sub parallel to the core-axis.												

DIAMOND DRILL RECORD,

HOLE NO. D.D.H. #9

PROPERTY _____

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
85-87.5		Light grey metasediment inclusion foliated-												
		60° to core axis. Traces of chalcopyrite												
		at 83'. At 87' there is a 2" wide quartz-												
		vein.												
87.5-115'		Feldspathic gabbro. Traces of chalcopyrite												
		at 91'. At 102.5' there is a narrow zone												
		approximately 2" wide intruded by pink												
		quartz veins bearing chalcopyrite.												
115-200		Alkalic gabbro. approx. 4% pyrite, magnetic												
		No chalcopyrite.												

DIAMOND DRILL RECORD, HOLE NO. D.D.H. #15

PROPERTY WHITEROCKS MOUNTAIN PROPERTY

SHEET NUMBER 1 | SECTION FROM 0 TO 200' | STARTED May 25

LATITUDE 68+00 S | DATUM - | COMPLETED May 26

DEPARTURE 16+00 E | BEARING - | ULTIMATE DEPTH 200'

ELEVATION - | DIP Vertical | PROPOSED DEPTH 200'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
0-4		Overburden												
4-40		Pegmatitic alkalic gabbro												
			1120	120-147										
			1121	147-173										
40-65		Diorite medium grained, grey granitoid	1122	173-200										
		rock, containing traces of pyrite. Fresh.												
65-200	,	Feldspathic alkalic gabbro porphyritic with												
		ovoid to euhedral crystals of feldspar up												
		to 5 mm. across. Somewhat more mafic than												
		the upper part of the hole. Epidotized												
		throughout. Occasional large euhedral												
		feldspar crystals.												