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REPORT ON THE

#### PROPOSED EXPLORATION AND DEVELOPMENT PLANS

OF

ST ANDREW GOLDFIELDS LTD.

IN

LOT 7, CON. I, STOCK TOWNSHIP

ONTARIO

(formerly owned by QUEBEC STURGEON RIVER MINES LIMITED)



January 28, 1983

OM83-5-C-29



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#### INTRODUCTION

This report has been prepared at the request of the Directors of St Andrew Goldfields Ltd. and is to be used in the proposed financing of the Stock property through the development and feasibility stages leading to mine production.

The financing involves the formation of the new company St Andrew Goldfields Ltd. with an authorized capital of 20,000,000 shares of which 7,000,000 shares together with warrants to purchase 400,000 shares will be issued to Quebec Sturgeon River Mines Limited as consideration for the Stock mine property together with its related plant and equipment. Quebec Sturgeon River Mines Limited has previously expended approximately \$3,400,000 on exploration and development together with approximately \$1,186,000 (which has a replacement value of \$1,638,000) for plant and equipment. Quebec Sturgeon is transferring by means of a tax free roll-over exploration and development costs of approximately \$6,000,000 of which the aforementioned \$3,400,000 is part. Accordingly St Andrew acquires for tax purposes \$7,638,000 of allowable deductions.

The report shows estimated costs of Phase I and Phase II of the lateral and depth programs as recommended in the R.C. Hart, P. Eng. report dated January 26, 1983.

Present values of the surface plant and costs of proposed surface plant additions are as shown in Leslie Engineering Limited Report dated January 28, 1983.

#### SUMMARY & CONCLUSION

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Present value surface plant	- <u>.</u> .*.		\$ <u>1</u>	,530,000
Mine stores inventory		e San an a	\$_	65,500
Mine residence & mobile equipment	* * *	9 Jan 2 A.	\$	121,000

Estimated costs Phase I (including Surface Plant Additions) 4,898,000

Estimated costs Phase II

3,904,000

\*\$8,802,000

TOTAL COST PHASE I & II

\*(Jan., 1983 dollars)

PHASE III Cost estimates (costs to bring property to production will be largely dependent on the size of the concentrator as determined in the Phase II feasibility study.

The issuance of 7,000,000 shares together with warrants to purchase 400,000 shares to Quebec Sturgeon River Mines Limited under the terms of the proposed agreement whereby Quebec Sturgeon transfers certain assets to St Andrew Goldfields Ltd. represents a fair and reasonable consideration. This opinion is based on the results achieved to date from the surface and underground exploration of the Stock property and the comments and recommendations in the Hart Report dated January 26, 1983.

#### LOCATION & HOLDINGS

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The Stock property of St Andrew Goldfields Ltd, is situated approximately 3 miles east of the east boundary of the city of Timmins. It lies 1 mile north of Highway 101 connecting the city of Timmins and the town of Matheson, Ontario.

The property consists of Lot 7 (300 acres), Concession I, Stock Township, District of Cochrane, Province of Ontario. Development work to date has been confined to the north half of the above lot where both mineral and surface rights are held. Mineral rights are held on the south half along with an 80 foot wide road allowance.

#### HISTORY & DEVELOPMENT

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The initial surface diamond drilling program which began in January 1973 consisted of 49 holes for a total of 24,982 feet. These holes encountered gold-bearing mineralization along an east-west trending strike length of 2,050 feet. Overburden in the area varies from 45 to 180 feet in depth and the larger part of the drilling was confined to the favourable area with the least overburden. In 1974, instead of continuing with more closely spaced, expensive drilling it was decided to undertake an underground development program to correlate the drill results and to assess the potential of the mineralized zone. This program included construction of a mine access road, power supply, headframe and bin, water tank, service building and office building. The shaft was collared to 50 feet but no further work was done at that time due to a shortage of funds and a depressed gold price.

In October, 1980 an underground program was started which included shaft sinking to a depth of 270 feet below surface and establishing a station at the 200 foot level. Lateral work at this horizon included 1,354 feet of drifting and x-cutting and 14,702 feet of underground drilling. This program was completed in December 1981 and since then the plant has been on a care and maintenance basis with pumping being continued from the underground workings.

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#### SURFACE PLANT DESCRIPTION

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Present surface plant at the property is as follows: (i) An all weather access road, one mile in length, which connects the mine site with main Highway 101 between Matheson and Timmins, Ontario. (ii) A 2,500 KVA substation capable of serving all mine facilities. Power is supplied through a 27.5 KV primary power line installed by Ontario Hydro at mine expense. (iii) A 90 foot headframe and mine waste bin. Foundations have also been poured for future ore bin erection. (iv) A 40 feet X 123 feet steel Armco service building housing the 72" X 54" mine hoist, 3 - 1,000 C.F.M. air compressors, 2 heating boilers and mine dry facilities. (v) A 40 feet X 102 feet steel Armco service building housing the main offices, warehouse and machine shop. (vi) An 80 foot - 12,000 Imp. gallon water tank and a deep well to service the mine plant. (vii) A house trailer for mine personnel. (viii) Mobile Equipment includes 1 pickup and 1 front end loader.

# SURFACE PLANT - PRESENT VALUE

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(From Leslie Engineering Limited Report)

	Building	Equipment	Total
Service building	\$337,700	\$474,000	\$ 811,700
Office & shops	160,900	10,000	170,900
Headframe	175,000		175,000
Water tank		31,000	31,000
Cooling pond	*	4,000	4,000
Sewage disposal	6,000		6,000
Transformer station		167,000	167,000
Power line		40,000	40,000
Road	20,000	4. *	20,000
Surface pipe lines	108,000	76,400	184,400
Sheâve Wheels		28,000	28,000
	\$ <u>807,600</u>	\$830,400	\$ <u>1,638,000</u>
Mine residence		\$ 45,000	
Pickup truck Replacement value	\$ 11,000		
Front end loader Replacement value	103,000		
Total	\$114,000		
Present depreciated value 2/3 X 114 = 76,000		\$ <u>76,000</u>	
	1997 - 1997 -	\$121,000	an a

## PLANT STORES INVENTORY

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Timber - Shaft wallplates, dividers end plates and posts	\$24,300
Pipe - 6", 4" and 2"	15,400
Pipe fittings and couplings	7,700
2 - 1,000 ft 1" sinking cables	7,700
Guide brackets, hanging rods, rock bolts	2,900
Miscellaneous stores	1,600
Heating oil, gasoline etc.	5,900
	\$65,500

**N**'

#### SURFACE PLANT ADDITIONS

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These will include the following:

(i) Enclosure of the timber headframe tower, the sheave house and the waste bin section with metal cladding.

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- (ii) Erection of a steel Armco insulated building for use as a shaft house.
- (iii) Installation of a pinion brake assembly on the main hoist on completion of shaft sinking.

(iv) House trailer.

#### PLANNED EXPLORATION

#### PHASE I

Phase I of the underground exploration program includes that work recommended by Mr. R.C. Hart, P. Eng. in his report of January 26, 1983. This includes sinking the shaft an additional 380 feet with new levels and ore pockets being established at the 325, 450 and 575 foot horizons. Development work will be done only on the 2nd or 325 foot level during this phase of the exploration. Lateral work will include a total of approximately 4,400 feet comprised mainly of line drives and x-cuts as shown in plans pages 9 and 10. Total diamond drilling is planned at approximately 45,000 feet. Estimated time to complete Phase I of the program is 15 months after startup.



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#### PROPOSED DEVELOPMENT

#### PHASE II

Phase II of the underground program will be underway after assessment of the work completed during the Phase I program. Development will include the opening up of the 3rd and 4th levels by drifting, x-cutting and diamond drilling. Further work will also be required on the 1st and 2nd levels to outline the ore sections in more detail for ore reserve estimates. Considerable raising will be required for tracing ore continuity and providing material for representative samples. Further mill testing will be done using a representative bulk sample from all zones outlined at that time. This will be followed by a mine production feasibility study. Estimated time for Phase II completion is 8 months.

J.B. ANDERSON, P.ENG.

#### PROPOSED PROGRAM

#### PHASE III

At the completion of Phase II, if warranted, additional expenditures would be required to proceed with Phase III during which the property would be brought to production.

These expenditures would include:

- (a) completion of all required underground facilities including stope preparation.
- (b) an environmental impact study program.
- (c) completion of detail design and engineering followed by mill construction.
- (d) enlargement of the surface plant, equipment and power facilities as required.
- (e) construction of a tailing disposal area.

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## SURFACE PLANT ADDITIONS

Headframe & sheave house enclosure	\$ 63,000
Shafthouse	37,000
Hoist pinion brake assembly	45,000 ~
House trailer	40,000 \$185,000

## PHASE I

General & Administrative (15 Months)	9 7	In the second secon
Head office	\$185,000	1
Project Supervision	75,000	
Mine office salaries	150,000	
Power	60,000	
Heating	33,000	
Telephone	7,000	
Roads	6,000	
Travelling expenses	13,000	
Vehicles	15,000	
Building repairs & maintenance	6,000	
Insurance & taxes	25,000	
Estimated Ontario Capital Tax	125,000	\$700,000

(Phase I)

Shaft Sinking Sinking single line hoisting Cost/ft. Muck, drill & blast \$1,750 Supplies - timber, hardware, cables, station sets door Bearing sets, reinforcing 275 380 ft. @ \$2,025 770,000 Concrete rings - 16 cu. yds/ring Rings @ 4' intervals 48 req'd @ 16 cu yds = 768 yds @ \$75/yd 58,000 Water rings - 6 req'd 5,000 Lip pockets - 3 req'd @ 30,000 90,000 4,000 Grizzly - 325' level - 1 req'd Stations - 3 reg'd 77,000 Mine pumps and sumps etc. 24,000 Lateral Exploration Mine hoisting cables 12,000 Drifts, x-cuts - 4,400 ft. - \$340./ft. 1,496,000 Track pipe etc. - 4,400 ft. - \$20./ft. 88,000 Diamond drilling including core splitting etc. - 45,000 ft. - \$15./ft. 675,000 Hoistmen, compressor, deckmen during drilling program 75,000 \$4,259,000 Add contingency 15% 639,000 TOTAL ESTIMATED COSTS PHASE I (INCLUDING SURFACE PLANT ADDITIONS) \$4,898,000

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# (Phase II)

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General & Administrative (8 Mon	ths)	
Head office	\$96,000	
Project supervision	40,000	· · · · ·
Mine office salaries	75,000	
Power	32,000	
Heating	20,000	
Telephone	4,000	
Roads	5,000	
Travelling expenses	10,000	
Vehicles	12,000	
Building repairs & maintenance	5,000	n an tha tha an tha Tha an tha an
Insurance & taxes	20,000	
Estimated Ontario Capital Tax	95,000	\$ 414,000
Mine Development		
Drifts & x-cuts - driving - 5,2	00 ft. @ \$340/ft.	1,768,000
- pipe, track etc 5,200 ft	. @ \$20/ft	104,000
Raising Development - 1,600 ft.	@ \$340/ft.	544,000
Diamond drilling - 33,000 ft. @	\$15/ft.	495,000
Bulk mill test & metallurgy		40,000
Production feasibility study		30,000
Add 15% Contingency		\$3,395,000 509,000
TOTAL ESTIMATED COSTS - PHASE I	I and the second second	\$ <u>3,904,000</u>

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#### PHASE III

Expenditures in Phase III will be largely dependent on the size of the concentrator as determined in the Phase II feasibility study.

Although it is premature to estimate the expenditures required to complete Phase III, a preliminary capital expenditure estimate for mill and crushing plant facilities of the magnitude of 750 to 1,000 tons per day is \$7,000,000 to \$9,000,000 in 1983 dollars.

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#### CERTIFICATE OF QUALIFICATION

I, J. Burns Anderson residing at 11 Thornbury Crescent, Islington, Ontario do hereby certify that:

- 1. I am a Consulting Engineer with my office at 11 Thornbury Crescent, Islington, Ontario;
- 2. I am a graduate of Queen's University, Kingston, Ontario with a B.Sc. degree in Mining Engineering and have been involved in the mining profession for over 25 years;
- 3. I am a registered Professional Engineer in the Province of Ontario;
- 4. A 2 day visit was made to the property during January, 1983. At that time an inspection was made of the surface plant and underground workings.
- 5. This report is based on information gained at the property as well as technical data and estimates supplied by Quebec Sturgeon River Mines Limited staff and other consultants.
- 6. I have no interest, nor do I expect to receive any interest, directly or indirectly in St Andrew Goldfields Ltd. or Quebec Sturgeon River Mines Limited.

Islington, Ontario January 28, 1983

J.B. Anderson, P. Eng.



J.B. ANDERSON, P.ENG.



<b>W</b>	PROPERTY	ST ANDREW GOLDFIELDS LTD. PAGE 1
LOCATION	L 0 + 05 E.	0 + 32 South BEARING S-73 <sup>O</sup> -E HOLE NO 5-02
LOGGED BY_	O. Zavesic:	4th level 325.0'
STARTED	December 18	3, 1983 At-318' Dec 31, TESTS (CORRECTED)
FINISHED	January 4,	1984: Hole stopped due to high water pressure encountered at 320' & 322'
CORE SIZE	AQ: Ross	Finlay Ltd.
FROM	то	DESCRIPTION
0.0	41.5	Chloritized Andesite: dark grey to black, few intermittent qtz. vs.
		1.7 - 3.1 : Lost Core, ground.
		4.5 - 15.0: 33 - 50% qtz v'g at mod. angles
		22.3 - 25.1: 25% white carb. rosettes
		31.2 - 41.5: Chl'd Shear Zone: mod. to strong shr'g at low angles to CA, 20% qtz. vlts along shears, tr. 1% py.
41.5	56.8	Porphyry: light brown, brecc'd but indurate, l-2% f. py locally, 55° contact.
		45.0 - 47.2: sil'd & chl'd country rock.
41.5	101.3	Chloritized Andesite: mod. shr'g at mod to high angles, qtz- carb vlts & laminae are boudinaged,
		93.5 - 96.1 : 33% prophyry.

	PROPERTY	PAGE 2
LOCATION		BEARINGHOLE NO
LOGGED BY		ELEVATION DIPFINAL DEPTH
STARTED		TESTS (CORRECTED)
FINISHED		
CASING		
CORE SIZE		
FROM	то	DESCRIPTION
		96.1 - 101.3': 66% qtz. v'g
101.3	103.6	Green Carbonate: pale green, 20% brecc'd qtz. vlts.
103.6	109.3	Prophyry: micro-brecc'd, 1-3% py along micro- fractures. silicous, straw-coloured, sericitic.
109.3	121.1	Green Carbonate: emerald green, 33% gtz. vlts, low to mod. angles, brecc;d, 1% py loc.
121.1	125.6	Grey Carbonate: dark grey, f-mod. gr., 5-10% brecc'd qtz. vlts. loc. chl'd.
		121.6 - 122.4': Prophyry as above
125.6	141.7	Prophyry: brownish-white brecc'd, intermittent ser'tic buds, 1-3% diss'd py.
141.7	148.0	Chl'd Zone: black, soft to med. hard, 1-3% diss py. loc.
		144.4 - 145.7: 66% por. v'g.
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		-02 2

	PROPERTY	PAGE 3
LOCATION		BEARING HOLE NO
LOGGED BY		ELEVATION DIP FINAL DEPTH
STARTED		TESTS (CORRECTED)
FINISHED		
CORE SIZE		
FROM	то	DESCRIPTION
148.0	198.0	Green Carbonate: emerald green, local intervals of gry carb. 20-50% qtz. vlts locally at mod. to high angles, upper contact at 70
198.0	203.2	Grey Carbonate: essentially the same as above but grey.
203.2	219.3	Chl'd Shear Zone: black, striped by white brecc'd & boudinayed qtzcarb. vlts., mod. to high angles, generally.
		207.7 - 210.0: subparallel gougy joint'g
219.3	248.3	Quartz-Veined and Chloritized Zone: dark grey to black, 50-80% white qtz. vlts at mod. to high angles, brecc'd tr 1% py. loc.
248.3	260.9	Porphyry: brown, brecc'd., 3-5% py, mod. angles, loc. ser'd.
		5-02 2

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	PROPERTY	PAGE 4	
LOCATION		5-02BEARINGHOLE NO	
LOGGED BY		ELEVATION DIP FINAL DEPTH	
STARTED		TESTS (CORRECTED)	
FINISHED			
CASING			
CORE SIZE			
FROM	то	DESCRIPTION	
260.9	325.0	Quartz-Veined Green Carbonate: pale emerald green, 66-80% gtz. v'g at mod to high angles, very brecc'd, tr. py. 320.9 - 325.0': Fault Zone, 50% core recovery, core chips are gougy & limonitic at 322.0', rock is more greyish coloured than above.	
		-major water seams entered at 320 and 322.0'	
	325.0'	End of Hole: hole stopped due to high water pressure encountered in the above seams.	
		Core Split	
			HOLE NO.
			'n
			50

PROPERTY-								1A -HOLE NO. -PAGE
SAMPLE NO.	FROM	то	LENGTH	$\frac{Au}{0\pi/t}$		ASSAYS		DESCRIPTIONS
0001	0.0	1.7	1.7'	Tr				Chl'd Ands: 5% qtz., 1% py.
Lost Cor	e 1.7	3.1	1.4'	۰ <del>.010-</del>			 	Lost Core
0002	3.1	8.1	5.01	·0(0 				Chl'd Ands: 33% gtz.: tr1% diss. py.
3	8.1	13.1	5.0'	·Tr				N U + 11 11 + 14 15 17 14
4	13.1	18.1	5.01					в я:158 я : н я н я
5	18.1	23.1	5.01					# <b>* :</b> 5% * : • • • •
6	23.1	28.1	5.0'		~			32 95 <u>1</u> 5 75 <u>1</u> 1 75 88 br
7	28.1	31.2	3.1'					in 11 11 11 11 11 11 11 11 11 11
8	31.2	36.2	5.0'					Chl'd Shr Zone: 20% ": " " " "
9	36.2	41.6	5.4'					78 18 18 <u>79</u> 93 <u>8</u> 51 95 19
0010	41.6	45.0	3.4*					Por: brecc'd; 50% qtz. 1-2% py.
11	45.0	47.1	2.1'		-	-		Chl'd & Sil'd xenolith: tr. py.
12	47.1	52.1	5.0'					Por: as above
13	52.1	56.8	4.7'					91 _ 42 EF
14	56.8	61.8	5.01					Chl'd Ands: 33% qtz. v'g; 1% py.
15	61.8	66.8	5.0'					" ": 5% qtz.; tr1% py.
1.6	66.8	71.8	5.0'					1) <b>11 11 11 11 11 11</b>
17	71.8	76.8	5.0'	Tr				er 11 : 31 15 7 11 11 55

FORM 8609

5-02

	PROPERTY-					<b>**</b>	<b>4</b>	· •		502 -HOLE NO. 2A -PAGE
	SAMPLE					A	ASSAYS	-		
	NO.	FROM	то	LENGTH	$\begin{array}{c} Au \\ oz/t \end{array}$		·····			DESCRIPTIONS
	0018	76.8	81.8	5.0'	Tr.		•			Chl'd Ands: 5% qtz. tr - 1% py.
	19	31.8	36.8	5.0'	$\uparrow$					₿₿ \$1 <u>6</u> 84 82 82 82 82 82
	0020	36.8	91.8	5.0'						99 27 27 27 27 27 27 27 27
	21	91.9	93.5	1.7'						47 89 <b>1</b> 7 69 98 17
	22	93.5	96.1	2.6'						• ": 33% por. " " "
	23	96.1	101.2	5.1'			•			" " : 66% qtz.v'g: tr1% py
	24	101.2	103.6	2.4'						Grn. Carb: 20% qtz. " " "
	25	103.6	109.3	5.71						Por: Brecc'd, 1-3% py
	26	109.3	114.3	5.0*						Grn. Carb: 33% qtz., tr 1% py
	27	114.3	119.3	5.0'			•			\$7 60 <b>7</b> 70 77 57 43 97
	28	119.3	121.1	1.8'						tt tt ft tt tt tt tt
	29	121.1	122.4	1.3						Gry Carb: 75% por; 1% py.
	0030	122.4	125.6	3.2'						" ": 33% qtz., tr - 1% py
	31	125.6	130.6	5.0'	Tr.					Por: brecc'd; 1-3% py
	32	130.6	135.6	5.0'	.017	•				19] <b>- </b> 91
	33	135.6	141.7	6.1'	Tr	• •				77 g 41 41 41 41 41 41 41 41 41 41 41 41 41
	34	141.7	144.4	2.7'	.038					Chl'd Zone: 5% py along flts & diss'd
	35	144.4	145.7	1.3'	Tr.					Por: brecc'd; 1-3% py.
• •									· · ·	

OPERTY-		<del>.</del>	1	r		·			5-02 -HOLE NC 3дPAGE
SAMPLE NO.	FROM	то	LENGTH	Au		ASSAYS			DESCRIPTIONS
0036	145.7	148.0	3.7'	oz/t Tr.			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Chl'd Zone: 10% qtz.; 1 - 3% py.
37	148.0	153.0	5.0'	.018					Grn. Carb: 20% qtz.; Tr. py.
38	153.0	157.6	4.6'	Tr.					": 33% "; " "
39	157.6	159.1	1.5'	$\uparrow$	1				80% gtz., brecc'd brownish like por.
0040	159.1	165.8	6.7'	1					Grm. Carb: 33% gtz. tr. py.
41	165.8	170.8	5.0'						Gry Carb.: 20% " " "
42	170.8	186.1	5.3'						Grn. Carb: 33% " " "
43	176.1	179.2	3.1'	Tr.					" : 80% " : tr 1% py.
44	179.2	184.2	5.0'	.011					Grn. Carb: 23% " : Tr. py.
45	184.2	189.2	5.0'	Tr.		•			" : 10% " : " "
46	189.2	194.2	5.01	7					" : 20% " : " "
47	194.0	198.0	4.0'						" : 20% ! : tr. py.
48	198.0	203.0	5.01						Gry, Carb.: 20% " : tr 1% py.
49	203.0	208.0	5.0'						Chl'd Shr. Zone: 20% qtz-carb, tr.py
0050	208.0	213.0	5.0'		1 				00 20 70 70 70 70 17 p
51	213.0	219.3	6.8'						27 58 18 U 28 18 18 18 18
52	219.3	224.3	5.0'						Qtz. V'd & Chl'd: 50% qtz. tr. py.
53	224.3	229.3	5.0'	1.					10 H 11 <b>2</b> FZ 11 11 11

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PERTY-					*	•	Ч							5-0 4	2 A	-	-HOL -PAG	E NO.
SAMPLE					i	ASSAYS		· .										
NO.	FROM	то	LENGTH	Au oz/t								DESCR	ΙΡΤΙΟ	) N S				
0054	229.3	234.3	5.01	Tr.					Qtz	. V'e	3 E	Chl'd	: 338	qt	z.,	Tr	-18	ру
55	234.3	239.3	5.0'	.009					Π	n		*1	; "	11		11	n	**
56	239.3	244.3	5.0'	.001					81	11		**	: 668	5 <b>1</b> 9		**		u
57	244.3	248.3	4.0'	Tr.		9			<b>H</b>	<b>F</b> F		<b>TP T</b> 7 :	: 758	; 11		. 11	11	n
58	248.3	253.3	5.01	.008					Por	bre	ecc'	'd; 5%	ру.					
59	253.3	258.3	5.0'	.007					r1		n	11	n					
0060	258.3	260.9	2.6'	.001					11		<b>t</b> 7	11	31					
61	260.9	265,9	5.01	Tr.					Qzt	v'd	Grr	n. Carl	»: 66	s q	tz.	ţr.	-18	py.
62	265.9	270.9	5.0'	1					71	n	- 71	11	:		ŧt "	57	n	11
63	270.9	275.9	5.0'			•			19	13	11	33	: 80	8	¥1	77	11	11
64	275.9	280.9	5.0'						N	pi	; 11	71	: 80	8	n	11	¥1	<b>F</b> 1
65	280.9	285.9	5.0'						11	60) 11	H	1)	: 80	8	M	11	88	81
66	285.9	290.9	5.0'						99	71	ţ)	. 11	: 80	કુ	19	11	11	17
67	290.9	295.9	5.0'	Tr.					71	H	11	77	: 80	8	11	Ħ	11	ħ
68	295.9	300.9	5.0'	.004					11	11	. 11	*1	: 80	£	<b>ti</b> 1	18 89 19	H	n
69	800.9	305.9	5.01	.008					11	11	-11	11	: 80	ę.	11	11	भ	<b>#T</b>
0070	305.9	310.9	5.0'	.016					11	11	n	71	: 80	8	81	f1	11	11
71	310.9	315.9	5.0'	.001					**	14	91	n	<b>L</b> 80	8	78	н	†ł.	
	1	1		11	1			i 1 1	II 1 1							-	-	

PERTY-					• <b>h</b> e							5-0: 5/	2 A	HOLE NO. PAGE
SAMPLE						ASSAYS								
NO.	FROM	то	LENGTH	Au oz/t			1			D	ESCRIPTI	ONS		
0072	315.9	320.9	5.0'	.002		•			Qtz. V'	d Grn.	Carb.:	33&	qtz.	tr.py.
0073	320.9	325	4.1	.008					91 IT	12	<sup>\$1</sup>	n	" ;	faulte
END														
-										•				
										<u>4448-1348</u>			<u> </u>	·
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PROPERTY ST ANDREW GOLDFIELDS LTD.	PAGE	1
LOCATION L 0 + 05 E. 0 + 32 South BEARING $S-73^{\circ}-E$	HOLE NO	5-02
4th level 4th level	325.	0'
STARTED December 18, 1983 At 318'Dec 31, TESTS (CORRECTED)		
FINISHED January 4, 1984: Hole stopped due to high water g	pressure	
		•

CORE SIZE \_\_\_\_\_ AQ: ROSS Finlay Ltd.

FROM	то	DESCRIPTION
0.0	41.5	Chloritized Andesite: dark grey to black, few intermittent qtz. vs.
		1.7 - 3.1 : Lost Core, ground.
		4.5 - 15.0: 33 - 50% qtz v'g at mod. angles
		22.3 - 25.1: 25% white carb. rosettes
		31.2 - 41.5: Chl'd Shear Zone: mod. to strong shr'g at low angles to CA, 20% qtz. vlts along shears, tr. 1% py.
41.5	56.8	Porphyry: light brown, brecc'd but indurate, l-2% f. py locally, 55° contact.
		45.0 - 47.2: sil'd & chl'd country rock.
41.5	101.3	Chloritized Andesite: mod. shr'g at mod to high angles, qtz- carb vlts & laminae are boudinaged,
		93.5 - 96.1 : 33% prophyry.
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		5-02
}	}	

	PROPERTY		PAGE	2
LOCATION		BEARING	HOLE NO	5-02
LOGGED BY	ELEVATION	DIPFINAL DEF	ידא	
STARTED		TESTS (CORRECTED)		
FINISHED				
				• .

CODE CIZE						
	00	RI	: s	17	F	

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FROM	то	DESCRIPTION	
	<u></u>	96.1 - 101.3': 66% qtz. v'g	
101.3	103.6	Green Carbonate: pale green, 20% brecc'd gtz. vlts.	
103.6	109.3	Prophyry: micro-brecc'd, 1-3% py along micro- fractures. silicous, straw-coloured, sericitic.	
109.3	121.1	Green Carbonate: emerald green, 33% gtz. vlts, low to mod. angles, breccid, 1% py loc.	,
121.1	125.6	Grey Carbonate: dark grey, f-mod. gr., 5-10% brecc'd gtz. vlts. loc. chl'd.	
		121.6 - 122.4': Prophyry as above	
125.6	141.7	Prophyry: brownish-white brecc'd, intermittent ser'tic buds, 1-3% diss'd py.	
141.7	148.0	Chl'd Zone: black, soft to med. hard, 1-3% diss py. loc.	
		144.4 - 145.7: 66% por. v'g.	
			HOLE
			NO.
			-02
	}		ł

	PROPERTY			PAGE	3
LOCATION	. <u>tem ex</u>	· · · · · · · · · · · · · · · · · · ·	BEARING	HOLE NO	5-
LOGGED BY		ELEVATION	DIPFINAL DE	ЕРТН	
STARTED		****	TESTS (CORRECTED)		
FINISHED	<u></u>		·		
CASING					
CORE SIZE					
FROM	то		DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	
148.0	198.0	Green Carbonate: emerald green, 1 20-50% qtz. vlts upper contact at	ocal intervals c locally at mod. 70	of gry carb. to high ang	les
198.0	203.2	Grey Carbonate: essentially the	same as above bu	it grey.	
203.2	219.3	Chl'd Shear Zone: black, striped b qtzcarb. vlts. generally.	y white brecc'd , mod. to high a	& boudinayed angles,	
		207.7 - 210.0: sub	parallel gougy j	joint'9	
219.3	248.3	Quartz-Veined and dark grey to bla at mod. to high	Chloritized Zone ck, 50-80% white angles, brecc'd	e: e qtz. vlts tr 1% py.	10
248.3	260.9	Porphyry: brown, brecc'd., loc. ser'd.	3-5% py, mod. a	angles,	
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	PROPERTY			PAGE	4
LOCATION			BEARING	HOLE NO	5-02
LOGGED BY		ELEVATION	DIPFINAL DEP	чтн	
STARTED			TESTS (CORRECTED)		
INISHED		······································			
CORE SIZE					
FROM	то		DESCRIPTION		
260.9	325.0	Quartz-Veined Cree pale emerald gre mod to high angl	n Carbonate: en, 66-80% gtz. es, very brecc'd	v'g at , tr. py.	
		320.9 - 325.0': Fa core chips are g rock is more gre	ult Zone, 50% co ougy & limonitic yish coloured th	re recovery at 322.0', an above.	' <b>,</b>
		-major water sea	ms entered at 32	0 and 322.0	•
	325.0'	End of Hole: hole pressure encount	stopped due to h ered in the abov	igh water e seams.	• •
		Core Split			
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PERTY-	<b>`</b>	- <b>T</b>				5-02 -HOLE NC -PAGE
SAMPLE NO.	FROM	то	LENGTH	Au oz/t	ASSAYS	DESCRIPTIONS
0001	0.0	1.7	1.7'	Tr		Chl'd Ands: 5% qtz., 1% py.
Lost Cor	e 1.7	3.1	1.4'	۰ <del>010-</del>		Lost Core
0002	3.1	8.1	5.01	-0(0 <b>1110</b>		Chl'd Ands: 33% gtz.: tr1% diss. p
3	8.1	13.1	5.0'	·Tr		99 59 <b>:</b> 13 13 <b>:</b> 19 13 11
4	13.1	18.1	5.0'			"":15% ": " "
5	18.1	23.1	5.0'			<sup>11</sup> ": 58 "; 11 " "
6	23.1	28.1	5.0'			82 99 52 76 3 15 89
7	28.1	31.2	3.1'			18 88 275 28 <b>2</b> 80 11 16
8	31.2	36.2	5.0'			Chl'd Shr Zone: 20% ": " "
9	36.2	41.6	5.4'			24 1.2 1.8 <del>4</del> 79 73 <mark>4</mark> 75 54 <b>5</b> 9
0010	41.6	45.0	3.4.			Por: brecc'd; 50% qtz. 1-2% py.
11	45.0	47.1	2.1'	+	-	Chl'd & Sil'd xenolith: tr. py.
12	47.1	52.1	5.0'			Por: as above
13	52.1	56.8	4.7'			· · · · · · · · · · · · · · · · · · ·
14	56.8	61.8	5.0'			Chl'd Ands: 33% gtz. v'g; 1% py.
15	61.3	66.8	5.0'			" ": 5% qtz.; tr1% py.
16	66.8	71.8	5.0'			
17	71.8	76.8	5.0'	Tr		

-	<b>*</b> *	5-0 2.	2 A

PROPERTY-

SAMPLE NO.

			<b>▲</b>	••		5-02 -HOLE NO. 2A -PAGE
FROM	то	LENGTH	Au	ASSAYS		DESCRIPTIONS
 76.8	81.8	5.01	Tr.	-		Chl'd Ands: 5% qtz. tr - 1% py.
31.8	36.8	5.0'	1			80 TL 1 HT TT TT TT TT
 36.8	91.8	5.0'				94 91 <b>94 91 13 13 17 17</b>
 91.9	93.5	1.7'				87 28 <b>1</b> 12 14 91 14 87
93.5	96.1	2.6'				• ": 33% por. " " "
96.1	101.2	5.1'				" ": 66% qtz.v'g: tr1% py
101.2	103.6	2.4'				Grn. Carb: 20% qtz. """
 103.6	109.3	5.7'				Por: Brecc'd, 1-3% py
109.3	114.3	5.0'		·		Grn. Carb: 33% qtz., tr 1% py
114.3	119.3	5.0'				97 84 <b>9</b> 9 87 55 82 99
 119.3	121.1	1.8'				27 LJ . 12 TI TI 17 E TI
121.1	122.4	1.3'				Gry Carb: 75% por; 1% py.
122.4	125.6	3.2'				" ": 33% qtz., tr - 1% py
125.6	130.6	5.0'	Tr.			Por: brecc'd; 1-3% py
130.6	135.6	5.0'	.017			17] ÷ 17 ÷ 18 ÷ 19
135.6	141.7	6.1'	Tr -	•		77 <b>:</b> 12 13 M
141.7	144.4	2.7'	.038			Chl'd Zone: 5% py along flts & diss'd
144.4	145.7	1.3'	Tr.			Por: brecc'd; 1-3% py.
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5-02 -HOLE NO.

ROPERTY-		·····		· · · · · · · · · · · · · · · · · · ·		 <u></u>
SAMPLE	FROM	то	LENGTH		ASSAYS	
NO.				$\frac{Au}{oz/t}$		 DESCRIPTIONS
0036	145.7	148.0	3.7'	Tr.		Chl'd Zone: 10% qtz.; 1 - 3% py.
37	148.0	153.0	5.0'	.018		Grn. Carb: 20% qtz.; Tr. py.
38	153.0	157.6	4.6'	Tr.		" ": 33% " ; " "
39	157.6	159.1	1.5'			80% qtz., brecc'd brownish like por.
0040	159.1	165.8	6.7'			Gre. Carb: 33% qtz. tr. py.
41	165.8	1,70.8	5.0'			Gry Carb.: 20% " " "
42	170.8	136.1	5.3'			Grn. Carb: 33% " " "
43	176.1	179.2	3.1'	Tr.		" " : 80% " : tr 1% py.
44	179.2	184.2	5.0'	.011		Grn. Carb: 23% " : Tr. py.
45	184.2	139.2	5.0'	Tr.		"":103 ": ""
46	189.2	194.2	5.01	1		 " ": 20% ": " "
47	194.0	198.0	4.0'			" " : 20% Y : tr. py.
43	198.0	203.0	5.0'			Gry, Carb.: 20% " : tr 1% py.
49	203.0	208.0	5.01			Chl'd Shr. Zone: 20% qtz-carb, tr.py
0050	208.0	213.0	5.0'			88 64 77 <b>8</b> 73 79 79 87 87 97
51	213.0	219.3	6.8'			27 13 H Q H 11 17 H H
52	219.3	224.3	5.0'			Qtz. V'd & Chl'd: 50% qtz. tr. py.
53	224.3	229.3	5.0'	1.		11 11 <b>:</b> 11 11 11 11

PROPERTY-			<u>.</u>		•					!	5-02 4A		-HOL -PAG	.E NO. E
SAMPLE NO.	FROM	то	LENGTH	Au oz/t	ASSAYS				DESCRI	ΡΤΙΟ	NS			
0054	229.3	234.3	5.0'	Tr.	•	Qtz.	<b>V</b> 'a	3 & F	Chl'd:	338	qtz.	, Tr	-18	ру
55	234. <sup>3</sup>	239.3	5.0'	.009		n	n		":	Ħ	11	ŧ	I <b>H</b>	11
56	239.3	244.3	5.01	.001		39	17		":	66%	<b>1</b> 1	PI	1 11	
57	244.3	248.3	4.0'	Tr.		<b>5</b> 4	<b>f</b> 7		<sup>11</sup> 11	758	11,	ti i	• ••	n
58	248.3	253.3	5.0'	.008		Por:	br	ecc'	d; 5% j	py.				
59	253.3	258.3	5.01	.007		π		н	n	n	,			
0060	258.3	260.9	2.6'	.001		18		11	ħ	n				
61	260.9	265.9	5.0'	Tr.	······································	Qzt	v'd	Grn	. Carb	: 66	ł gtz	.‡r.	-18	ру
62	265.9	270.9	5.0'	P		 	17	81	11	:	**	11	71	11
63	270.9	275.9	5.0'		•	15	11	99	71	: 809	f u	11	11	n
64	275.9	280.9	5.0'			n	11	39	. 17	: 80	е н 0	11	11	
65	280.9	285.9	5.0'			, pi	11	и	**	: 80	£ н	11	11	m
66	285.9	290.9	5.0'			71	11	ħ	17	: 80%	<del>в</del> н	81	10	97
67	290.9	295.9	5.0'	Tr.		ei .	38	#	n	: 801	<b>д</b> п	Ħ	n	<b>\$1</b>
68	295.9	300.9	5.0'	.004		73	n	18	n	: 809	B 11	11 11	<b>90</b>	ta
69	800.9	305.9	5.0'	.008		\$1	48	11	18	: 80	а. н Б	м	e1	<b>n</b>
0070	305.9	310.9	5.0'	.016		75	H	11	11	: 801	£ "	**	Ħ	61
71	310.9	315.9	5.0'	.001		13	**	11	#7	L 809	<u>в</u> и	11	11	11

PROPERTY-	•	· · · · · · · · · · · · · · · · · · ·			*	•				5-02 5A	HOLE NO. PAGE
SAMPLE	FROM	то				ASSAYS					
NO.				Au oz/t						SCRIPTIONS	
0072	315.9	320.9	5.01	.002		•			Qtz. V'd Grn.	Carb.: 33% gtz.	tr.py.
0073	320.9	325	4.1	.008					96 ET 39	" : " " ;	faulte
END										·····	
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	PROPERTY	ST ANDREW GOLDFIE	LDS LTD. PAGE 1
LOCATION	0+00, 0+32	South	BEARING S-280-E HOLE NO. 5-01
LOGGED BY	0.Zavesiczky	4th Level 7 ELEVATION 575'	0° 462.0'
STARTED	December	7, 1983	
EINISHED	December	17, 1983	
CASING	· · · · · · · · · · · · · · · · · · ·		
CORE SIZE	AQ: Ross Fir	nlay Ltd.	0+00 Section
FROM	то		DESCRIPTION
0.0	5.0'	No Core: hole coll therefore slipped	ared adjacent to blasted cut and into a 5' fracture.
5.0	16.7'	Chloritized Andes: qtz-carb. laminae,	ite: Black, 20% brec.'d shr'g & veinlet angles at 60 <sup>0</sup>
		13.2 - 16.7': 50% at low & mod. angl	qtz. veins & veinlets .es.
16.7	46.7'	Porphyry: Pale br 50% qtz. veining a chloritized interv	cownish-white, very hard, glassy, silicification, local vals, pyrite locally.
46.7	147.6'	Green Carbonate Zo green, mottled by qtz. v'g at mod to	one: Pale yellowish emerald sericite, generally 20-33% high angles.
		107.5 - 120.0: 25 dikes, tr. py.	a light-brown marrow porphyry
		· · · · · · · · · · · · · · · · · · ·	
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PROPERTY       starseg       HOLENO_5-01.         LOGGED BYELEVATIONDPFMAL DEFTH				
LOCATION       BEARING       HOLENO\$201         LOGGED BY       FRAL DEFTH         STARTED       TESTS (CORRECTED)         FROM       TO         CASING       Grey Carbonate:         grey, med. gr., 25 to 33% gtz. veins at         mod. to high angles. Tr. to 1% py loc.         along veins, loc. fuchsite along veins,         179.0       168.5'         Diack, med. hard, f.gr., mod. shr'g, 20%         grey, massive, aphantic, med. hard to soft,         choritized s suicitized, low angle joints,         193.5       330.5'         Green Carb		PROPERTY		PAGE 2
LOGGED BY	LOCATION			BEARING HOLE NO
STARTED	LOGGED BY_		ELEVATION	DIPFINAL DEPTH
FINISHED	STARTED		·	TESTS (CORRECTED)
CASING CORE 5125 FROM TO DESCRIPTION 147.6 179.0' Grey Carbonate: grey, med. gr., 25 to 338 qtz. veins at mod. to high angles, tr, to 18 py loc. along veins, loc. fuchsite along veins, 179.0 188.5' Chloritized Shear Zone: (Minor Zone) black, med. hard, f.gr., mod. shr'g, 208 qtz-carb. vlts & shearing at mod. to high angles to CA, 188.5 191.5' Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate, 191.5 193.5' Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized s subcitized, low angle joints. 193.5 330.5' Green Carbonate: as above at 46.7' 236.3 - 241.3: 33-508 qtz v'g & minor porphyry	FINISHED		·	
PROM     TO     DESCRIPTION       147.6     179.0'     Grey Carbonate: grey, med. gr., 25 to 33% gtz. veins at mod. to high angles, tr. to 18 py loc. along veins, loc. fuchsite along veins,       179.0     188.5'     Chloritized Shear Zone: (Minor Zone) black, med. hard, f.gr., mod. shr'g, 20% gtz-carb. vlts 6 shearing at mod. to high angles to CA,       188.5     191.5'     Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate,       191.5     193.5'     Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized i suicitized, low angle joints.       193.5     330.5'     Green Carbonate: as above at 46,7'       236.3 - 241.3: 33-50% gtz v'g 4 minor porphyry	CASING	and a standard and a standard a standard and a standard and a standard as a standard as a standard as a standard		
FROMTODESCRIPTION147.6179.0'Grey Carbonate: grey, med. gr., 25 to 33% qtz. veins at mod. to high angles, tr. to 1% py loc. along veins, loc. fuchsite along veins,179.0188.5'Chloritized Shear Zone: (Minor Zone) black, med. hard, f.gr., mod. shr'g, 20% qtz-carb. vlts & shearing at mod. to high angles to CA.188.5191.5'Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate,191.5193.5'Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized & suicitized, low angle joints.193.5330.5'Green Carbonate: as above at 46,7'236.3 - 241.3: 33-50% qtz v'g & minor porphyry	CORE SIZE			
<ul> <li>147.6</li> <li>179.0' Grey Carbonate: grey, med. gr., 25 to 33% qtz. veins at mod. to high angles, tr. to 1% py loc. along veins, loc. fuchsite along veins,</li> <li>179.0</li> <li>188.5' Chloritized Shear Zone: (Minor Zone) black, med. hard, f.gr., mod. shr'g, 20% qtz-carb. vlts &amp; shearing at mod. to high angles to CA,</li> <li>188.5</li> <li>191.5' Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate,</li> <li>191.5</li> <li>193.5' Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized &amp; suicitized, low angle joints.</li> <li>193.5</li> <li>330.5' Green Carbonate: as above at 46.7'</li> <li>236.3 - 241.3: 33-50% qtz v'g &amp; minor porphyry</li> </ul>	FROM	то		DESCRIPTION
<ul> <li>179.0</li> <li>188.5'</li> <li>Chloritized Shear Zone: (Minor Zone) black, med. hard, f.gr., mod. shr'g, 20% qtz-carb. vlts &amp; shearing at mod. to high angles to CA,</li> <li>188.5</li> <li>191.5'</li> <li>Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate,</li> <li>191.5</li> <li>193.5'</li> <li>Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized &amp; suicitized, low angle joints.</li> <li>193.5</li> <li>330.5'</li> <li>Green Carbonate: as above at 46.7'</li> <li>236.3 - 241.3: 33-50% qtz v'g &amp; minor porphyry</li> </ul>	147.6	179.0'	Grey Carbonate: grey, med. gr., mod. to high ang along veins, loc	25 to 33% gtz. veins at les, tr. to 1% py loc. . fuchsite along veins,
<ul> <li>188.5</li> <li>191.5' Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate,</li> <li>191.5</li> <li>193.5' Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized &amp; suicitized, low angle joints.</li> <li>193.5</li> <li>330.5' Green Carbonate: as above at 46.7'</li> <li>236.3 - 241.3: 33-50% qtz v'g 4 minor porphyry</li> </ul>	179.0	188.5'	Chloritized Shear black, med. hard qtz-carb. vlts & angles to CA,	Zone: (Minor Zone) , f.gr., mod. shr'g, 20% Bhearing at mod. to high
191.5       193.5'       Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized & suicitized, low angle joints.         193.5       330.5'       Green Carbonate: as above at 46.7'         236.3 - 241.3:       33-50% qtz v'g & minor porphyry	188.5	191.5'	Porphyry Dyke: brownish grey to indurate,	whitish grey, brecciated but
193.5 330.5' Green Carbonate: as above at 46.7' 236.3 - 241.3: 33-50% qtz v'g & minor porphyry	191.5	193.5'	Intermediate Dyke:	
236.3 - 241.3: 33-50% qtz v'g & minor porphyry			grey, massive, a chloritized & su	phanitic, med. hard to soft, icitized, low angle joints.
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7	phanitic, med. hard to soft, icitized, low angle joints.
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. ' 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. ' 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints.
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. ' 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints.
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. 50% qtz v'g & minor porphyry
	193.5	330.5'	grey, massive, a chloritized & su Green Carbonate: as above at 46.7 236.3 - 241.3: 33-	phanitic, med. hard to soft, icitized, low angle joints. 50% qtz v'g & minor porphyry

PROPERTY       PROPERTY         LOCATION       PEANNO       MOLENO         LOGGED BY       ELEVATION       DP       FWALDEFTH         STARTED       FWALDEFTH       TESTS (CORRECTED)       FWALDEFTH         PROME       COME BIZE       TO       DESCRIPTION         COME BIZE       COME BIZE       DESCRIPTION       249.3 - 276.0: 66-808 white, gitz. v'g at variable angles, in breco'd grn. carb. matrix, tr. to 18 py locally. few low angle limonitic joints.         276.0 - 297.0: few narrow buff coloured sericitic bande, generally 208 gitz. v'g 267.5 - 268.0: brown por at high angles.         297.0 - 330.5: S0-668 giz. v'g. in breco'd grn. carb.         314.1 - 317.1: 80% giz. v'g with black chi'd interstitial mafic material         0uartz-Veined & Chloritized Zone: generally 50-668 giz. veining, 50-33% blac chloritized, f. gr. country rock, breco'd locally 60-80° angles to CA, tr. py.         330.5       405.7'         333.5 - 344.6: 90% white gizveining at mod, to high angles.		· · · · · · · · · · · · · · · · · · ·		
PROPERTY       PAGE         LOCATION       SEARING       HOLE NO.         LOGGED BY       STARED       DF       FINAL DETH         STARED       STARED       TESTS (GORRECTED)       FINAL DETH         CASING       CORE BIZE       CORE BIZE       CORE BIZE         CORE BIZE       CORE BIZE       CORE SIZE       CORE SIZE         CORE BIZE       CORE SIZE       CORE SIZE       CORE SIZE         CORE SIZE       CORE SIZE       CORE SIZE       CORE SIZE         267.0       CORE SIZE       CORE SIZE       CORE SIZE         276.0       - 330.51       SOCE SIZE       CORE SIZE         330.5       405.71       CORE SIZE       CORE SIZE       CO	. •	•	na an An	
LOCATION       BEARING       HOLE NO.         LOGGED BY       ELEVATION       DIP       FINAL DEPTH         STARTED       TESTS (CORRECTED)         FINISHED       TO       DESCRIPTION         CASING       CORE SIZE       CORE SIZE         FROM       TO       DESCRIPTION         Z49,3 - 276,0: 66-808 white,qtz, v'g attrible angles, in breaco'd grn. carb. matrix, tr. to 18 py locally. few low angle limonitic joints.         276,0 - 297.0: few narrow buff coloured sericitic bands, generally 208 qtz. v'g         267,5 - 268.0: brown por at high angles.         297,0 - 330,5: 50-668 qtz. v'g, in brecc'd grn. carb.         314,1 - 317,1: 80% qtz. v'g with black chi'd interstital mafic material         330,5       405.7'         Quartz-Veined & Chloritized Zone: generally 50-668 qtz. veining, 50-33% black chloritized Zone: 338.5 - 344.6: 90% white qtzveining at mod. to high angles.	ןי א <b>ר</b>		PROPERTY	PAGE 3
LOGGED BY       ELEVATION       DP       FINAL DEFTH         STARTED       TESTS (CORRECTED)         FINISHED		LOCATION	<u></u>	BEARINGHOLE NO
STARTED		LOGGED BY		ELEVATION DIP FINAL DEPTH
FINISHED		STARTED		TESTS (CORRECTED)
CASING CORE SIZE FROM TO DESCRIPTION 249.3 - 276.0: 66-80% white, gtz. v'g at wariable angles, in breeo'd grn. carb. matrix, tr. to is py locally. few low angle limonitic joints. 276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% gtz. v'g 267.5 - 268.0: brown por at high angles. 297.0 - 330.5: 50-66% gtz. v'g with black chl'd interstitial matric material 330.5 405.7' Quartz-Veined & Chloritized Zone: generally 50-66% gtz. veining, 50-33% black chloritized, f. gr. country rock, brece'd locally 60-90 angles to CA, tr. py. 338.5 - 344.6: 90% white gtzveining at mod. to high angles.		FINISHED.		
CORE SIZE         FROM       TO         249.3 - 276.0: 66-80% white,qtz. v'g at variable angles, in breed'd grn. carb. matrix, tr. to 1% py locally. few low angle limonitic joints.         276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% qtz. v'g         267.5 - 268.0: brown por at high angles.         297.0 - 330.5: 50-66% qtz. v'g with black chl'd interstitial mafic material         330.5       405.7'         Quartz-Veined & Chloritized Zone: generally 50-66% qtz. veining, 50-33% blac chloritized, f. gr. country rock, breec'd locally 60-90° angles to CA, tr. py.         338.5 - 344.6: 90% white qtzveining at mod. to high angles.				
FROM     TO     DESCRIPTION       249.3 - 276.0: 66-80% white, gtz. v'g at variable angles, in breco'd grn. carb. matrix, tr. to 1% py locally. few low angle limonitic joints.     276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% gtz. v'g       267.5 - 268.0:     brown por at high angles.       297.0 - 330.5:     50-66% gtz. v'g with black chl'd interstitial mafic material       330.5     405.7'       Quartz-Veined & Chloritized Zone: generally 50-66% gtz. veining, 50-33% black chloritized, f. gr. country rock, brecc'd locally 60-90° angles to CA, tr. py.       338.5 - 344.6: 90% white qtzveining at mod. to high angles.		CORE SIZE		
<ul> <li>249.3 - 276.0: 66-80% white, gtz. v'g at variable angles, in breco'd grn. carb. matrix, tr. to 1% py locally. few low angle limonitic joints.</li> <li>276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% gtz. v'g 267.5 - 268.0: brown por at high angles.</li> <li>297.0 - 330.5: 50-66% gtz. v'g. in breco'd grn. carb.</li> <li>314.1 - 317.1: 80% qtz. v'g with black chl'd interstitial mafic material</li> <li>330.5</li> <li>405.7' Ouartz-Veined &amp; Chloritized Zone: generally 50-66% gtz. veining, 50-33% black chloritized. f. gr. country rock, breco'd locally 60-90° angles to CA, tr. py.</li> <li>338.5 - 344.6: 90% white gtzveining at mod. to high angles.</li> </ul>		FROM	то	DESCRIPTION
<ul> <li>276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% qtz. v'g</li> <li>267.5 - 268.0: brown por at high angles.</li> <li>297.0 - 330.5: 50-66% qtz. v'g with black chl'd interstitial mafic material</li> <li>314.1 - 317.1: 80% qtz. v'g with black chl'd interstitial mafic material</li> <li>330.5</li> <li>405.7'</li> <li>Quartz-Veined &amp; Chloritized Zone: generally 50-66% qtz. veining, 50-33% blac chloritized, f. gr. country rock, breec'd locally 60-90° angles to CA, tr. py.</li> <li>338.5 - 344.6: 90% white qtzveining at mod. to high angles.</li> </ul>				249.3 - 276.0: 66-80% white, gtz. v'g at variable angles, in brecc'd grn. carb. matrix, tr. to 1% py locally. few low angle limonitic joints.
<ul> <li>267.5 - 268.0: brown por at high angles.</li> <li>297.0 - 330.5: 50-66% qtz. v'g. in brecc'd grn. carb.</li> <li>314.1 - 317.1: 80% qtz. v'g with black chl'd interstitial mafic material</li> <li>Quartz-Veined &amp; Chloritized Zone: generally 50-66% qtz. veining, 50-33% black chloritized, f. gr. country rock, brecc'd locally 60-90° angles to CA, tr. py.</li> <li>338.5 - 344.6: 90% white qtzveining at mod. to high angles.</li> </ul>		· ·		276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% qtz. v'g
<ul> <li>330.5 405.7'</li> <li>330.5 405.7'&lt;</li></ul>				267.5 - 268.0: brown por at high angles.
330.5 405.7' Ouartz-Veined & Chloritized Zone: generally 50-66% qtz. veining, 50-33% black chloritized, f. gr. country rock, brecc'd locally 60-90° angles to CA, tr. py. 338.5 - 344.6: 90% white qtzveining at mod. to high angles.				297.0 - 330.5: 50-66% qtz. v'g. in brecc'd grn. carb.
330.5 405.7' Quartz-Veined & Chloritized Zone: generally 50-66% gtz. veining, 50-33% blac chloritized, f. gr. country rock, brecc'd locally 60-90 angles to CA, tr. py. 338.5 - 344.6; 90% white gtzveining at mod. to high angles.				314.1 - 317.1: 80% qtz. v'g with black chl'd interstitial mafic material
locally 60-90 angles to CA, tr. py. 338.5 - 344.6: 90% white qtzveining at mod. to high angles.		330.5	405.7'	Quartz-Veined & Chloritized Zone: generally 50-66% qtz. veining, 50-33% black chloritized, f. gr. country rock, brecc'd
338.5 - 344.6: 90% white qtzveining at mod. to high angles.				locally 60-90 angles to CA, tr. py.
				338.5 - 344.6: 90% white qtzveining at mod. to high angles.
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•	PROPERTY			PAGE 4
LOCATION			BEARING	HOLE NO
LOGGED BY		ELEVATION	DIPFINAL DEPT	н
STARTED			TESTS (CORRECTED)	
FINISHED				
CASING	*.			
FROM	то		DESCRIPTION	
		390.0 - 392.3: 50% b qtz. veining	rown porphyry, 4	10% white
		392.3 - 405.7: becom	ing more greenis	sh in colour,
405.7	442.2	Chlorite Schist: (co black, soft, sligh at 55 - 60° to CA, gougy faults at mo very minor qtz-car	ntact effect of tly talcose, f.q few intermitter d. to high angle b. vits.	Diabase?) yr shr'g ht minor as, 1-5%
		423.0 - 425.1: Faul	t gouge 75% core	e recovery.
442.2	452.0	Diabase Dyke: (E-W T black, massive, f. minor quartz.	ype) -med.gr.slight	ly magnetic,
452.0	462.0	Lost Core: friable d	iabase was groun	nd away
	462.0'	End of Hole		
		1 1 1		
			and a start of the start of the start and the start of the and the start of the	
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				HOLE NO. 5-01

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PROPERTY-					·	·				1A	H P	OLE NO.
SAMPLE	FROM	то	LENGTH		 	ASSAYS	4		DESCRIPTI	ONS		
NO.				Au oz/	t		in the		DESCHIFT	0 1 5		
9701	5.0	10.0	5.0'	Tr			ана — М. С. Аланана Аланана Аланана Аланана Аланана Аланана Аланана Аланана Аланана Аланана Алананана Алананананананананананананананананананан		Chl'd Ands: 20% qtz.	tr. py	•	
9702	10.0	13.2	3.2'	1					1 508 "			
03	13.2	16.7	3.5'						": 50% "	t) 1)		
04	16.7	21.7	5.0'						Porph: 50% qtz. v'g	, 1% fi:	ne py	<b>'</b> •
05	21.7	26.2	4.51	Tu					अग्रिक मा मा मा	11 H		
06	26.2	31.2	5.0'	.002					" : as above but y	with 33	% chl	.'d
07	31.2	33.4	2.2'	.016					Porph: 50% gtz. v'g,	5% fin	e py.	
08	33.4	38.4	5.0'	·018					₽ ₽ •	18 "	ti	
09	38.4	41.9	3.5'	·012					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ə <b>r</b> 19	11	-
9710	41.9	43.5	1.6'	.002					Carbonate metaerysts			
11	43.5	46.7	2.3'	.006					Porph: 50% qtz. v'g	, 1% f.	ру.	
12	46.7	51.7	5.0'	.003					Grn. Carb: 20% white tr. pv.	e gry	qtz.	vlts
13	51.7	56.7	5.0'	Tu					33% <sup>n</sup> " " " "	i1	11	17
14	56.7	61.7	5.0'	1					11 11 11 11 11	<b>()</b>	h	ţı
15	61.7	66.7	5.0'						11 11 11 11 11 11 11 11 11 11 11 11 11	FF	ti.	ti I
16	66.7	69.0	2.3						10% " " : " "	39	- <b>H</b>	- 11
17	69.0	72.5	3.5'						n <u>5</u> % "	89	F9	11
18	72.5	77.5	5.0'		1			4, 6 x	15% " " " : " "	-	11	Ę4
									• • • • • • • • • • • • • • • • • • •	······································		

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SAMPLE	FROM	то	LENGTH				ASSAYS	•		
NO.					Au					DESCRIPTIONS
9719	77.5	82.5	5.0		10					Grn.Carb: 10% white & gry qtz vg,tr.p
9720	82.5	87.5	5.0'		1					27 57 19 19 99 19 19 19 19
21	87.5	92.5	5.0*							19 FT 19 TT 17 TT 17 TT 17
22	92.5	97.5	5.0'		in the second se			••••••••••••••••••••••••••••••••••••••		11 11 11 11 11 11 11 11 11 11 11 11 11
23	97.5	102.5	5.0'		-					TI
24	102.5	107.5	5.0"						••••••••••••••••••••••••••••••••••••••	99 29 29 39 17 17 11 11 11 11
25	107.5	110.5	3.0'		2 - 2 - 22 €1 € 2 - 2 - 60					" : 10% porphyry veins,1%py
26	110.5	113.5	3.01							" : 5% qtz. vlts: tr. py.
27	113.5	115.0	1.5'							Por. V.: light brown, " "
28	115.0	119.0	4.0'							Grn.Carb: 33% qtz,v;g:= " ""
29	119.0	120.0	1.0'							Por. V: light brown, " "
9730	120.0	125.0	5.0'							Grn.Carb: 10% gtz. vlts: " "
31	125.0	130.0	5.0'							" " : 25% " " : " "
32	130.0	135.0	5.0							TT, 47 2 72 25 27 27 27 27
33	135.0	140.0	5.01						-	н и : 338 и и : и и
34	140.0	145.0	5.0'							" " : 50% " " : 1% diss. py.
35	145.0	150.0	5.0'							Gry.Carb: 20% " " : " " "
36	150.0	155.0	5.0'	-	IV-					<b>n n : 108</b> n n : n n n
		······································	· · · · · · · · · · · · · · · · · · ·	(	·	(	·······	· · · · · · · · · · · · · · · · · · ·	f	

ROPERTY-					-	•		5-01 -HOLE N 3A -PAGE
SAMPLE	EROM	то				ASSAYS		DESCRIPTIONS
NO.	FNOW		LENGIN	oz/t		:		
9737	155.0	160.	5.0'	TV				Gry. Carb: 33% qtz. vlts: 1-2% py.
38	160.0	165.0	5.0'	1				10 11 11 11 11 11 11 11
39	165.0	170.0	5.0'					": 15% " : 1% py.
9740	170.0	175.0	5.0'					" : 25% " : tr. py.
41	175.0	179.0	4.01					19 21 21 21 21 21 21 21 21 21
42	179.0	184.0	5.0'			-		Chl'd Shr.: 20%" " : tr1% py.
.43	184.0	188.5	4.51	IV				
44	188.5	191.5	3.0'	010				Por. Dyke: tr. py.
45	1.91.5	193.5	2.0'	1.				Intmed. Dyke:
46	193.5	198.5	5.0'	.026				Grn. Carb: 10% qtz. Vlts: Tr. py.
47	198.5	203.5	5.0'	.021				97 97 87 97 97 57 87 97
48	203.5	208.5	5.01	W				91 97 2 17 97 77 2 17 91
49	208.5	212.2	3.7'					" ":20% " : " "
9750	212.2	217.2	5.0'					" " : 50% " " :
51	217.2	221.8	4.6'					": 20% " ": " "
52	221.8	226.8	5.0'					ана <b>и с</b> ана и <b>на и</b> и
53	226.8	231.8	5.0'					TI II II II II II II
54	231.8	236.8	5.0'	10				10 H ; R H H ; N h

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SAMPLE	FROM	то				ASSAYS	 				
NO.		10		oz/t				DESCRIPTIONS			
9755	236.8	241.3	4.5*	TV				Grn. Carb: 20% qtz. vlts: tr. py.			
56	241.3	246.3	5.0*					" : 33% " " : 23% por, tr. py.			
57	246.3	249.3	3.0'					# <b>" : 158 " " : "</b> "			
58	249.3	254.3	5.0'				 ·.	"» » : 668 » » · · · "			
59	254.3	259.3	5.0*	J				74			
9760	259.3	264.3	5.0'	w				15 BT CT BT TT BT AND			
61	264.3	267.5	3.0'	.003	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	n Maria Ka Maria	1	36 .04 <b>87 83 97 8 87 8</b>			
62	267.5	268.5	0.5'	1005				Por Vein: 10% qtz. : tr. py.			
63	268.5	273.0	4.51	-Ir-				Grn. Carb: 80% qtz: tr. py.			
64	273.0	276.0	3.01					17 <del>57</del> 51 51 57 57 57			
65	276.0	281.0	5.01					17 37 I 71 37 I 61 11			
66	281.0	286.0	5.0'					" ":10% " : " "			
67	286.0	291.0	5.0'					* * : 20% * : * *			
68	291.0	297.0	5.0'					39 97 8 71 98 8 19 36			
69	297.0	302.0	5.0'					" " : 50% " : " "			
9770	302.0	307.0	5.0'		•		5 - 2	" ":66% " :			
71	307.0	312.0	5.0'	Tu				¥ <sup>51</sup> 1 <sup>3</sup> 1 <sup>3</sup> 1 1 <sup>3</sup> 1 <sup>3</sup>			
72	312.0	314.1	2.1'	.004				" : " : tr. to .5% py.			

5-01	-HOLE NO
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5A	PAGE

ROPERTY-									5-01 -HOLE NO. 5A -PAGE
SAMPLE NO.	FROM	то	LENGTH	Au	I	ASSAYS	1		DESCRIPTIONS
				oz/t	,				
9773	314.1	317.1	3.0'	TU					80% qtz. 20% chl'd material:: tr. py.
74	317.1	322.1	5.0'	TU					Grn. Carb: 23% qtz: Tr 5% py.
75	322.1	327.1	5.0'	. 005					" ": 66% ": tr. py.
76	327.1	330.5	3.4'	11					1992 - 1997 - 19
77	330.5	335.5	5.0'						75% qtz.: " ": " "
78	335.5	338.5	3.0'						19 59 <b>:</b> 19 11 : 11 11
79	338.5	341.8	3.0'			n an an an Arrange Tur			80% white qtz, v'g
80	341.8	344.6	2.81						958 <sup>11</sup> 11 11 11
81	344.6	349.6	5.0'						Qtz. v'l & chl'd Zone: 50% gtz,tr-1%
82	349.6	354.6	5.01			•	. *.		и и и и и и и
83	354.6	359.6	5.0'						98. 17 17 17 17 17 19 19 19
84	359.6	364.6	5.0'	Tr					N (M) 19 19 19 19 19 19 19 19 19
85	364.6	369.6	5.0'	.015					99
86	369.6	374.6	5.0'	.006					94 91 05-13 14 <b>:</b> 97 19 57
87	374.6	379.6	5.0'	Tr					07 27 31 19 <b>2</b> 17 21 29
88	379.6	384.6	5.0'	(					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
89	384.6	390.0	5.4'						17 19 19 19 19 19 19 19 19 19 19 19 19 19
90	390.0	392.3	2.3'	11					50% por, 40% qtz. tr. py.
		1		1	1	1	1	1	

PROPERTY-					*	•				5-01 6A	-HOLE NO. PAGE	
SAMPLE	FROM	то		ASSAYS								
NO.			LENGTH	oz/t					DESC	RIPTIONS		
9791	392.3	397.3	5.0'	X1		an Chan Carl Chan Carl Chan Carl Chan			Qtz, V'l & Chl'd	Zone: 66%	qtz. Tr.py	
92	397.3	402.3	5.01						10 11 TS	<sup>83</sup> <b>:</b> <sup>97</sup>	<b>84 87 86</b>	
93	402.3	405.7	3.4'						40 ¥2 £3 ¥3	": 50%	99 EF FI	
94	405.7	410.7	5.01						Chl. Sch: tr. py	cubes : (	Contact	
95	437.2	442.2	5.0'						17 <sup>52</sup> 5 11 11	31		
96	442.7	447.7	5.0'	46					Diabase: " "	"		
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	PROPERTY	ST ANDREW GOLDFIELDS LTD. PAGE 1
	0+00, 0+32	South BEARING S-280-E HOLE NO. 5-01
LOGGED BY_	O.Zavesiczky	4Ch level <u>7 Elevation</u> 575' DIPFINAL DEPTH 462.0'
STARTED	December	7, 1983 TESTS (CORRECTED)
FINISHED	December	17, 1983
CASING		· .
CORE SIZE	AQ: Ross Fir	nlay Ltd. 0+00 Section
FROM	то	DESCRIPTION
0.0	5.0'	No Core: hole collared adjacent to blasted cut and therefore slipped into a 5' fracture.
5.0	16.7'	Chloritized Andesite: Black, 20% brec.'d qtz-carb. laminae, shr'g & veinlet angles at 60°
		13.2 - 16.7': 50% gtz. veins & veinlets at low & mod. angles.
16.7	46.7'	Porphyry: Pale brownish-white, very hard, glassy, 50% qtz. veining & silicification, local chloritized intervals, pyrite locally.
46.7	147.6'	Green Carbonate Zone: Pale yellowish emerald green, mottled by sericite, generally 20-33% qtz. v'g at mod to high angles.
		107.5 - 120.0: 25% light-brown marrow porphyry dikes, tr. py.
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	PROPERTY	PAGE 2
LOCATION		BEARING HOLE NO
LOGGED BY	<u></u>	ELEVATION DIPFINAL DEPTH
STARTED		TESTS (CORRECTED)
FINISHED		· · · · · · · · · · · · · · · · · · ·
CASING		
CORE SIZE		
FROM	то	DESCRIPTION
147.6	179.0'	Grey Carbonate: grey, med. gr., 25 to 33% qtz. veins at mod. to high angles, tr. to 1% py loc. along veins, loc. fuchsite along veins,
179.0	188.5'	Chloritized Shear Zone: (Minor Zone) black, med. hard, f.gr., mod. shr'g, 20% gtz-carb. vlts & shearing at mod. to high angles to CA,
188.5	191.5'	Porphyry Dyke: brownish grey to whitish grey, brecciated but indurate,
191.5	193.5'	Intermediate Dyke: grey, massive, aphanitic, med. hard to soft, chloritized & suicitized, low angle joints.
193.5	330.5'	Green Carbonate: as above at 46.7'
		236.3 - 241.3: 33-50% qtz v'g & minor porphyry
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	PROPERTY			PAGE	3
			BEARING	HOLE NO	5-01
LOGGED BY		ELEVATION	DIPFINAL DEPTH_		.,
STARTED			TESTS (CORRECTED)	······································	
FINISHED					
CASING					
CORE SIZE					
FROM	то		DESCRIPTION		
		249.3 - 276.0: 66-4 variable angles, matrix, tr. to 19 angle limonitic 276.0 - 297.0: fer sericitic bands,	80% white, gtz. v'g in brecc'd grn. ca py locally. few joints. w narrow buff colou generally 20% gtz.	at irb. low ired v'g	

FROM	то	DESCRIPTION	
330.5	405.7'	<ul> <li>249.3 - 276.0: 66-80% white, gtz. v'g at variable angles, in breec'd grn. carb. matrix, tr. to 1% py locally. few low angle limonitic joints.</li> <li>276.0 - 297.0: few narrow buff coloured sericitic bands, generally 20% qtz. v'g</li> <li>267.5 - 268.0: brown por at high angles.</li> <li>297.0 - 330.5: 50-66% qtz. v'g. in breec'd grn. carb.</li> <li>314.1 - 317.1: 80% qtz. v'g with black chl'd interstitial mafic material</li> <li>Quartz-Veined &amp; Chloritized Zone: generally 50-66% qtz. veining, 50-33% black chloritized, f. gr. country rock, breec'd locally 60-90° angles to CA, tr. py.</li> <li>338.5 - 344.6: 90% white qtzveining at mod. to high angles.</li> </ul>	
			HOLE NO. 5-01

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	PROPERTY	PAGE 4	
LOCATION.		BEARING HOLE NO. 5-01	
LOGGED BY		ELEVATION DIP FINAL DEPTH	
STARTED.		TESTS (CORRECTED)	
FINISHED			
CORE SIZE			
FROM	то	DESCRIPTION	
		390.0 - 392.3: 50% brown porphyry, 40% white qtz. veining	
405.7	442.2	Chlorite Schist: (contact effect of Diabase?) black, soft, slightly talcose, f.gr shr'g at 55 - 60 to CA, few intermittent minor gougy faults at mod. to high angles, 1-5% very minor gtz-carb. vlts.	ŧ.
		423.0 - 425.1: Fault gouge 75% core recovery.	
442.2	452.0	Diabase Dyke: (E-W Type) black, massive, fmed. gr. slightly magnetic, minor quartz.	
452.0	462.0	Lost Core: friable diabase was ground away	•
	462.0'	End of Hole	
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-HOLE NO. -PAGE

5-01

SAMPLE	то			ASSAYS	
NO. FROM		LENGTH	Au oz/t		DESCRIPTIONS
9701 5.0	10.0	5.0'	Tr		Chl'd Ands: 20% gtz. tr. py.
9702 10.0	13.2	3.2'	1		и т. 50% и и и
03 13.2	16.7	3.5'			л н <b>:</b> 50% п п и
04 16.7	21.7	5.0'			Porph: 50% qtz. v'g, 1% fine py.
05 21.7	26.2	4.5'	Tu		an 5 20 12 12 11 11 11
06 26.2	31.2	5.0'	.002		" : as above but with 33% chl'd ands.
07 31.2	33.4	2.2'	.016		Porph: 50% qtz. v'g, 5% fine py.
08 33.4	38.4	5.0'	·018 ·		
09 38.4	41.9	3.5'	·012		17 2 32 81 77 34 34 94
9710 41.9	43.5	1.6'	.002		Carbonate metaerysts
11 43.5	46.7	2.2'	606		Porph: 50% qtz. v'g, 1% f. py.
12 46.7	51.7	5.0'	.003		Grn. Carb: 20% white & gry qtz. vlts tr. py.
13 51.7	56.7	5.0'	-70		339 m m m n n n n
14 56.7	61.7	5.01		•	। । । । । ।
15 61.7	66.7	5.0'			11 11 11 11 11 10 11 11 2 11 31
16 66.7	69.0	2.3'			108 "
17 69.0	72.5	3.5'			n 11 5% n n 11 n 11 11 11 11
18 72 5	77.5	5 0'			15% " " " " " ", " "

PROPERTY-	•													5	5-0] 27	4	-HO -PA	LE NO. Ge
SAMPLE NO.	FROM	то	LENGTH	Au		A	SSAYS						DESCRI	ΡΤΙΟ	NS			
9719	77.5	82.5	5.0'	10	1		-			Grn.	Carb	: 10	% whit	e &	gr}	y qt	zvg,	tr.p
9720	82.5	87.5	5.0'	:						81	n	: "	89		11	11	ţı	39 [7
21	87.5	92.5	5.0'							11	n	: "	98 RI		11	T	11	89 98
22	92.5	97.5	5.0'							17	ŦĨ	: "	ŦĨ		11	1	e et	н н
23	97.5	102.5	5.0'							ţ,	69	: "	11		H	P	11	88 99
24	102.5	107.5	5.0'							n	Ħ	: "	. Pl		17	,	1 13	19 19
25	107.5	110.5	3.0'							59	11	: 10	* porp	hyry	y ve	eins	,l%py	,
26	110.5	113.5	3.0'							81	n	: 5	ŧ qtz.	vli	ts:	tr.	ру.	
27	113.5	115.0	1.5'							Por.	v.:	11	ght bi	own	,	n	75	
28	115.0	119.0	4.0'			·	,			Grn.	Carb	: 33	e qtz,	<b>v</b> ¦g	: ==	n	99 91	<b>-</b>
29	119.0	120.0	1.0'							Por.	٧:	ligh	t brow	m,		Ħ	51	
9730	120.0	125.0	5.0'							Grn.	Carb	: 10	t qtz.	vl	ts:	ы	*	
31	125.0	130.0	5.0'							11	FT	: 25	8 u	Ħ	:	n	14	<u> </u>
32	130.0	135.0	5.0'							th.	11	: "	N	H	:	H	**	
33	135.0	140.0	5.0'							89	75	: 33	8 11	Ħ	;	W	11	
34	140.0	145.0	5.0'		-					39	11	: 50	8 11	n	:	18	diss.	, ру.
35	145.0	150.0	5.0'					+		Gry	.Carb	: 20	8 "	11	:	ħ	łI	11
36	150.0	155.0	5.0'	I V			<del></del>				11	: 10	18 <sup>11</sup>	31	:	Ħ	n	11
		-1	1	<b>n</b>	1			1	1									

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SAMPLE	EDOM	TO	LENCTU		ASSAYS	
NO.			LENGTH	Au oz/t		DESCRIPTIONS
9737	155.0	160.0	5.0'	TV		Gry. Carb: 33% qtz. vlts: 1-2% py.
38	160.0	165.0	5.0'			и и с и и и ; и и
39	165.0	170.8	5.0'			" " : 15% " " : 1% py.
9740	170.0	175.0	5.0'			" " : 25% " " : tr. py.
41	175.0	179.0	4.0'			11 37 <b>; 11 31 - 11 17</b> 17
42	179.0	184.0	5.0'			Chl'd Shr.: 20%" ": tr1% py.
43	184.0	188.5	4.5'	10		
44	188.5	191.5	3.0'	.010		Por. Dyke: tr. py.
45	191.5	193.5	2.0'	1.		Intmed. Dyke:
46	193.5	198.5	5.0'	.026	•	Grn. Carb: 10% qtz. Vlts: Tr. py.
47	198.5	203.5	5.0'	. 021		11 91 <u>;</u> 11 91 11 ; 11 91
48	203.5	208.5	5.0'	Tu		и и и и и и и
49	208.5	212.2	3.7'			"":20% "": " "
9750	212.2	217.2	5.0'			" ": 50% " ":
51	217.2	221.8	4.6'			<sup>17</sup> <sup>17</sup> : 20% <sup>11</sup> : <sup>11</sup> <sup>17</sup>
52	221.8	226.8	5.0'			27 97 81 87 88 8 89 97
53	226.8	231.8	5.0'			11 11 2 11 11 11 11 11 11 11
54	231.8	236.8	5.0'	11		10 17 2 TT TT TT TT TT

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SAMPLE NO.	FROM	то	LENGTH	Au	DESCRIPTIONS
				oz/t	 
9755	236.8	241.3	4.5'	11	Grn. Carb: 20% qtz. vlts: tr. py.
56	241.3	246.3	5.0*		" ": 33% " " 23% por tr. py.
57	246.3	249.3	3.0'		" <b>: 15</b> % " " "
58	249.3	254.3	5.0'		и с 668 и и с и
59	254.3	259.3	5.0*		JN JN 11 11 71 34 1 13 17
9760	259.3	264.3	5.0'	· [	11 17 <b>1</b> 13 M PL W <b>1</b> M
61	264.3	267.5	3.0'	.003	11 27 27 12 17 17 18 18
62	267.5	268.5	0,5'	· des	Por Vein: 10% qtz. : tr. py.
63	268.5	273.0	4.5'	Tr	Grn. Carb: 80% qtz: tr. py.
64	273.0	276.0	3.0'		97 91 <u>8</u> 11 93 <u>8</u> 17 91
65	276.0	281.0	5.0'		15 37 <b>:</b> 17 19 <b>:</b> 18 19
66	281.0	286.0	5.0'		" ":10% " : " "
67	286.0	291.0	5.0'		<sup>17</sup> " : 20% " : " <sup>11</sup>
68	291.0	297.0	5.0'		<sup>−</sup> 1} <sup>−</sup> 1
69	297.0	302.0	5.0'		"" " <b>:</b> 50% " : " "
9770	302.0	307.0	5.0'		"":66% ": ""
71	307.0	312.0	5.0'	Tu	U H 1 14 1 17 19
72	312.0	314.1	2.1'	· hard	" " : " " : tr. to .5% py

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PROPERTY-

5-01 -HOLE NO. 5A -PAGE

SAMPLE	<b>FROM</b>			_	ASSAYS					-		
NO.	FROM		LENGTH	Au oz/t				DESCR	IPTION	S		
9773	314.1	317.1	3.0'	TU		808	qtz. :	20% chl'	d mate	rial	:: t	r. py
74	317.1	322.1	5.0'	TU		Grn.	Carb	: 23% qt	z: Tr.	- 5	¥ ру	•
75	322.1	327.1	5.0'	. 0 05		 n	N V	: 66% "	: tr.	ру.		
76	327.1	330.5	3.4'	11		51		: " "	; •• **	If		
77	330.5	335.5	5.0'			758	qtz.	: " "	: "	н		
78	335.5	338.5	3.0'			81	Ħ	: " "	: "	61		
79	338.5	341.8	3.0'			808	white	qtz. v'	g			
80	341.8	344.6	2.8'			95%	W	97 PT				
81	344.6	349.6	5.0'			Qtz.	v'1	& chl'd	Zone:	50 <b>%</b>	qtz,	tr-la
82	349.6	354.6	5.0'		•	91	H	Ħ	" :	н	11	н Н
83	354.6	359.6	5.0'			68	H	H	н :	91	н	N
84	359.6	364.6	5.0'	1		51	И	57 50	":	11	Ħ	99
85	364.6	369.6	5.0'	015		Ħ	34	Ħ	":	M	"	11
86	369.6	374.6	5.0'	.006		ŧi	Ħ	<b>F</b> T 13	11 ;	n	u	Ħ
87	374.6	379.6	5.0'	Tr		Ħ	13	ĸ	":	Ħ	n	ŧŧ
88	379.6	384.6	5.0'	Í		n	51	89	":	н	Ħ	Μ
89	384.6	390.0	5.4'			n	ţ1	37	n :	11	#1	P1
90	390.0	392.3	2.3'	11		50%	por,	40% qtz.	tr.	py.		

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SAMPLE NO.	FROM	то	LENGTH	Au oz/t		ASSAYS				DES	CRIPTI	D N S		
9791	392.3	397.3	5.0'	KY .				Qtz.	ניע	& Chl'	d Zone	: 668	gtz.	. Tr.p
92	397.3	402.3	5.0'					H	J <i>i</i>	n	85	: "	н	11
93	402.3	405.7	3.41					n	12 11	<b>9</b> 9	11	: 50%	11	11
94	405.7	410.7	5.01					Chl.	Sch:	tr. p	y. cub	es :	Conta	act
95	437.2	442.2	5.0'		· · · · · · · · · · · · · · · · · · ·			13	" :	И	11 11			
96	442.7	447.7	5.0'	15				Diab	ase:	14	u 11			
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![](_page_63_Figure_0.jpeg)

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![](_page_63_Figure_8.jpeg)