

REPORT

ON

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY

TIMMINS AREA, ONTARIO

bу

Jack G. Willars, B.A.Sc., P.Eng. Consulting Mining Geologist

New Liskeard, Ontario

October 15, 1982





I N D E X

	Page	No.
INTRODUCTION	1	
ACCESSIBILITY	1	
HISTORY	2	
GENERAL GEOLOGY	3	
ECONOMIC GEOLOGY	4	
RECENT WORK PROGRAM	5	
SUMMARY AND CONCLUSIONS	10	
RECOMMENDATIONS	11	
CERTIFICATE	12	

REPORT

ON

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY

TIMMINS AREA, ONTARIO

INTRODUCTION

Gowganda Resources Inc. owns fifteen contiguous, patented mining claims comprising 646.96 acres which straddle the common boundary between Carman and Shaw Townships in their south parts, in the Porcupine Mining Division of Ontario. The claims are numbered, as follows:

 $\sqrt{\text{Carman Township}}$ - H.R. 1101 to 03 inclusive, E.D. 366,

P25577 & 8, P25637 & 8, P20471 to 73 inclusive.

Shaw Township - P8621, P416, P13814, P8299.

An excellent feasibility study by A.S. Bayne dated August 31, 1981, provides valuable detail and historical record of this same claims group.

ACCESSIBILITY

The property is located south east of South Porcupine, Ontario, and is readily accessible by ten miles of excellent gravel road and one mile of improved bush road.

Hydro-electric power lines are within one mile of the property and abundant water is available within one mile of

the shaft location. Equipment, supplies and experienced labour are available in the immediate area.

The terrain is generally flat and covered with glacial deposits of gravel, clay, etc., with vegetation consisting of poplar, birch, spruce and pine.

HISTORY

In 1922 Shaw Porcupine Mines trenched the surface discovery at intervals over a 700' length on the Shaw Twp. claims, and in 1925 sunk a 143' shaft establishing a level at 125' and completed 210' of drifting and 165' of crosscutting, at which time operations were suspended for lack of funds.

In 1936 Carman Mines succeeded Shaw Porcupine and in 1939 the surface trenches were check sampled by Pamour Porcupine Mines with favourable results. World War II intervened and nothing more was done until after the cessation of hostilities.

In 1945 Carshaw Porcupine Mines was formed to acquire the Shaw Twp. claims and the protecting Carman Twp. claims to the east. From May 1945 to September 1948, forty-five diamond drill holes totalling 15,332 feet were drilled from surface. During 1950-51 Buffalo-Ankerite Mines extended the 125' level to 920' of drifting drilling twelve short diamond drill holes as assistance in following the ore structure. During late 1981 and the first half of 1982 work was under-

taken as a result of A.S. Bayne's feasibility report. This work and the results are described in the part titled 'Recent Work Program.'

GENERAL GEOLOGY

The most prevalent rocks are Keewatin age volcanics which trend N20° E and consist of andesite, rhyolite, tuff and iron formation and dips 60° to 30° easterly. For the most part the rocks on the property are andesites, with amygdaloidal and spherulitic textures, and with a small amount of rhyolite beds occurring in the eastern part of the property.

The rocks contain a concordant bed of gold bearing magnetite-chert banded iron formation up to 40' thick which is exposed on surface on the western or Shaw Twp. claims. The country rocks are altered at both contacts of the iron formation.

The above assemblage of rocks is intruded by east-west and north-south quartz porphyry dikes varying from 3' to 35' in width. A north trending diabase dike, 80' wide and steeply dipping, is located in the west part of the property and cuts across all of the above rocks.

The iron formation consists of both oxide and sulphide iron minerals as well as quartz and chert and contains valuable ore mineral which is gold. Other iron formations are known in the area, one particularly is on the Malga pro-

perty and is located about 700' west of the Carshaw formation and dips easterly into the Carshaw property and is estimated to be below the Carshaw surface formation at 1000'.

ECONOMIC GEOLOGY

Gold has been located within an iron formation contained by a series of volcanic rocks. The host iron formation is a typical magnetite-chert banded rock. Pyrite, and glassy quartz bands also occur. Minor accessory minerals observed were hematite, scheelite, tourmaline, galena, sphalerite, chalcopyrite and pyrrohotite. Visible gold was observed in one instance.

The enclosing volcanic rocks have been altered at both contacts of the iron formation to a lighter coloured or bleached phase of the rocks. This indicates hydrothermal action as having taken place. Some faulting underground also had similar intense alteration for up to three feet on both sides.

It is expected that all but the chert quartz is epigenetic and contributes to the concentration of the gold.

Detail sampling of faults, alteration areas, fuchsite patches, intruding quartz did not reveal any significant values in the enclosing volcanic rocks.

In general observations show that the best gold values are obtained where the pyrite is coarse grained ($\frac{1}{4}$ " to $\frac{1}{2}$ " size).

Strike faulting was strongly evident along both con-

tacts of the iron formation. This was observed in the surface and underground drilling and the underground workings. Strike faults contrary to the banding were also noted but were not as numerous. Cross faulting was observed infrequently.

The iron formation has been folded and sheared. Contortion of the banding is severe in the shaft and immediately to the south. This area on surface grades good gold values, and underground it appears in the southeast where good gold values also are noted. It is interpreted that a fold or roll in the formation plunges from the shaft to the southeast at an estimated 30° and that the gold values are associated with this structure.

The iron formation north of the shaft appears to be mildly bent or folded in the area where the best values and ore widths are observed. This feature is believed to be a factor contributing to the concentration of gold.

The iron formation has been traced on strike for 900' on both surface and underground, and has been traced down dip for 600' easterly. The host iron formation has not been delineated to the north, south or east.

RECENT WORK PROGRAM

In November 1981, mining activities were started on the Carshaw Gold Property by Gowganda Resources Inc. Initial work was designed to begin operations as recommended by A.S.

Bayne.

Over two hundred percussion holes were drilled to a vertical depth of forty feet at six foot centres from the shaft to two hundred and twenty-five feet southerly along the iron formation. Examples of analyses of the percussion hole grindings just south of the shaft indicated values of 0.445 oz.Au/ton to a depth of 20', 0.08 to 30', 0.075 to 30', 0.213 to 30' and 0.086 to 30' for various holes. A large rock trench blasted between these results and the shaft to a depth of 30' resulted in 0.167 oz.Au/ton over a true width of 22'. The holes were never blasted since an agreement could not be made with any local mill to treat the broken material. Fifteen surface diamond drill holes totalling 4132' were drilled between older drill holes both north and south of the shaft. Results to the south of the shaft indicated a section of significant gold values from the shaft southerly and easterly down dip along the iron formation, which confirmed and improved the results of earlier drilling The full lateral extent was not determined during results. The Ministry of Natural Resource library is this program. storing the core in Timmins.

Another section of significant gold values was indicated by surface drilling to the north of the shaft. Much porphyry rocks were encountered in the drilling from three to four hundred feet north of the shaft, and shallow drilling did not detect ore values. A new surface rock trench located two hundred

feet north of the shaft resulted in low gold values.

The 143' shaft was dewatered and the 125 foot level was mapped and sampling. North of the shaft a 211.5' section averaged 0.116 oz.Au/ton over a 5' true width. One section of this was an 87'.5 length of 0.181 oz.Au/ton over a 5' true width, and another section was 0.223 oz.Au/ton over a 5' true width.

South of the shaft, significant gold values were located in the foot wall of the iron formation in two places where the formation disappeared into the east wall. This suggested a large fold such as the one indicated near the shaft on surface. The formation in the south drift is folded, faulted and contorted and lies east of the drift.

Underground diamond drilling was initiated to trace the formation in the south drift and to establish the full widths and value in the north drift. Twenty-seven drill holes totalling 1263.5' were drilled. Visible gold was seen in one hole in the North Drift. Using the results of the drilling combined with those of the underground sampling, the following significant gold sections were indicated; North Drift - 217' of 0.185 over 9'.65 true width of which there was 117' of 0.104 over 4'.5 next to 100' of 0.215 over 14'.8 true width. South Drift - 50' of 0.160 over 7' true width and 190' of 0.137 over 6'.35 true width. The core is stored with the Ministry of Natural Resource library in Timmins.

Calculations of grade and tonnages were made combining

the results from all exploration tests. Selecting sections suitable for mining a total of 166,997 tons grading 0.205 oz.Au/ton was established. This represented a 600' length, and 11'.8 average width to a vertical depth of 200'.

The results north of the shaft are cut off by a series of at least six porphyry dikes of various widths from 3' to 30', trending east-west across the iron formation. The formation has not been traced adequately past this point.

South of the shaft the acceptable results appear to plunge in a folded and faulted structure 30° to the southeast. The southerly and easterly extensions of the iron formation have not been delineated.

Sampling of the surface rock dumps resulted, as follows: 973 tons of 0.058 oz.Au/ton, 505 tons of 0.068 oz.Au/ton, 1450 tons of 0.059 oz.Au/ton and 1593 tons of 0.026 oz.Au/ton. Sampling was done by gridding at 5' intervals and grabbing surface rock. While this method is acceptable, a better method may be to backhoe a larger sample across the dumps below the surface. The material has been moved often and may be diluted. Should an opportunity to process this material be made available, it should be considered.

Old trenches 500' east of the shaft were examined and found to contain a quartz vein up to 12" in width with minor pyrite mineralization near its contacts.

At the end of the program the shaft was capped as per Ministry regulations. The capping is removable and the shaft

currently meets safety requirements for this type of work. The program has been terminated and all equipment removed from the property.

SUMMARY AND CONCLUSIONS

Significant gold values have been outlined on the Carshaw Gold Property near Timmins, Ontario. A total of 166,997 tons grading 0.205 oz.Au/ton has been calculated to represent a 600' length and 11'.8 average width to a vertical depth of 200'.

These significant gold values are hosted by a banded magnetite-chert and sulphide iron formation which is locally folded and faulted. The formation has not been adequately delineated to the south and east, nor to the north of transecting porphyry dikes.

A.S. Bayne's feasibility report of August 31, 1981, and recommendations are considered an excellent proposal and when gold prices improve, serious consideration to implement the proposal should be done. A facility to treat the broken material must be made available either by agreement, by leasing or purchasing as the prevailing situation permits.

Regardless of any of the above new gold ore must be located to achieve viability. It is therefore recommended that further exploration be conducted.

RECOMMENDATIONS

It is recommended that an additional program of exploration be conducted to augment the values achieved to date. This search is to be done both north and south of the present existing work.

A description and estimate of costs is:

Line cutting for control from 1000' north to 1000' south - 8.5 miles of east-west picket lines at 100' intervals using the present base line at \$275.00 per mile = \$2,337.50

Magnetometer survey at 50' stations - 8 miles at \$300.00 per mile = 2,400.00

Contingencies = 262.50

Total \$ 5,000.00

Using the same grid system for close interval surface diamond drilling for exploration combined development purposes plus a maximum 1500' to test the Malga Formation extending into the Carshaw Property - 10,000' of AQWL at \$23.00 per foot

= 30,000.00

Supervision and contingencies = $\frac{65,000.00}{$300,000.00}$

It is estimated that \$300,000.00 should be made available to carry out the above program.

Respectfully submitted,

New Liskeard, Ontario October 15, 1982

Jack O. Willars, B.A.Sc., P.Eng. Consulting Mining Geologist

The Jellara

CERTIFICATE

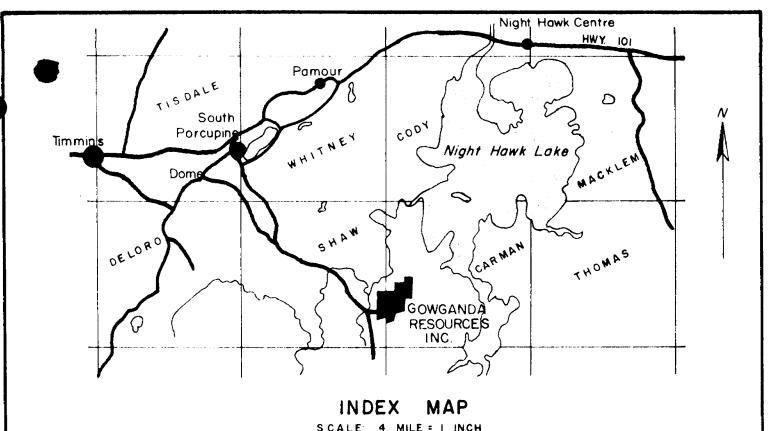
This is to certify that:

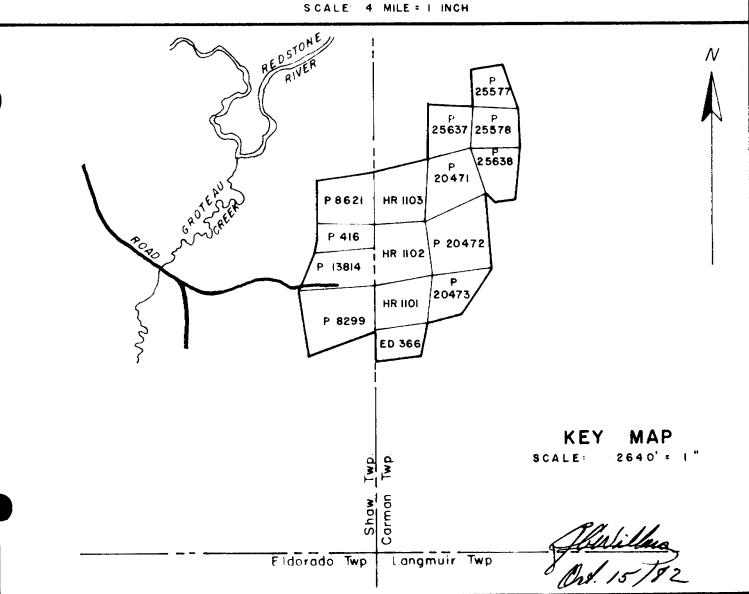
- of Toronto in 1951, and I hold the degree of Bachelor of Applied Science and I have been practising my profession for the past thirty-one years.
- 2. I am a member in good standing of the Association of Professional Engineers of Ontario, and am certified as a Consultant, and I reside and hold office 127 Lakeshore Road, New Liskeard, Ontario.
- 3. I have no direct, indirect or anticipated interest in the properties discussed in this report nor in the securities of Gowganda Resources Inc. or it's affiliates.
- 4. My report is based on personal intimate knowledge of the Carshaw Gold Property during the work program conducted from November, 1981, to the present date.
- 5. Consent is hereby granted to use this report in its complete form only, in a filing statement, statement of material facts or prospectus by Gowganda Resources Inc.

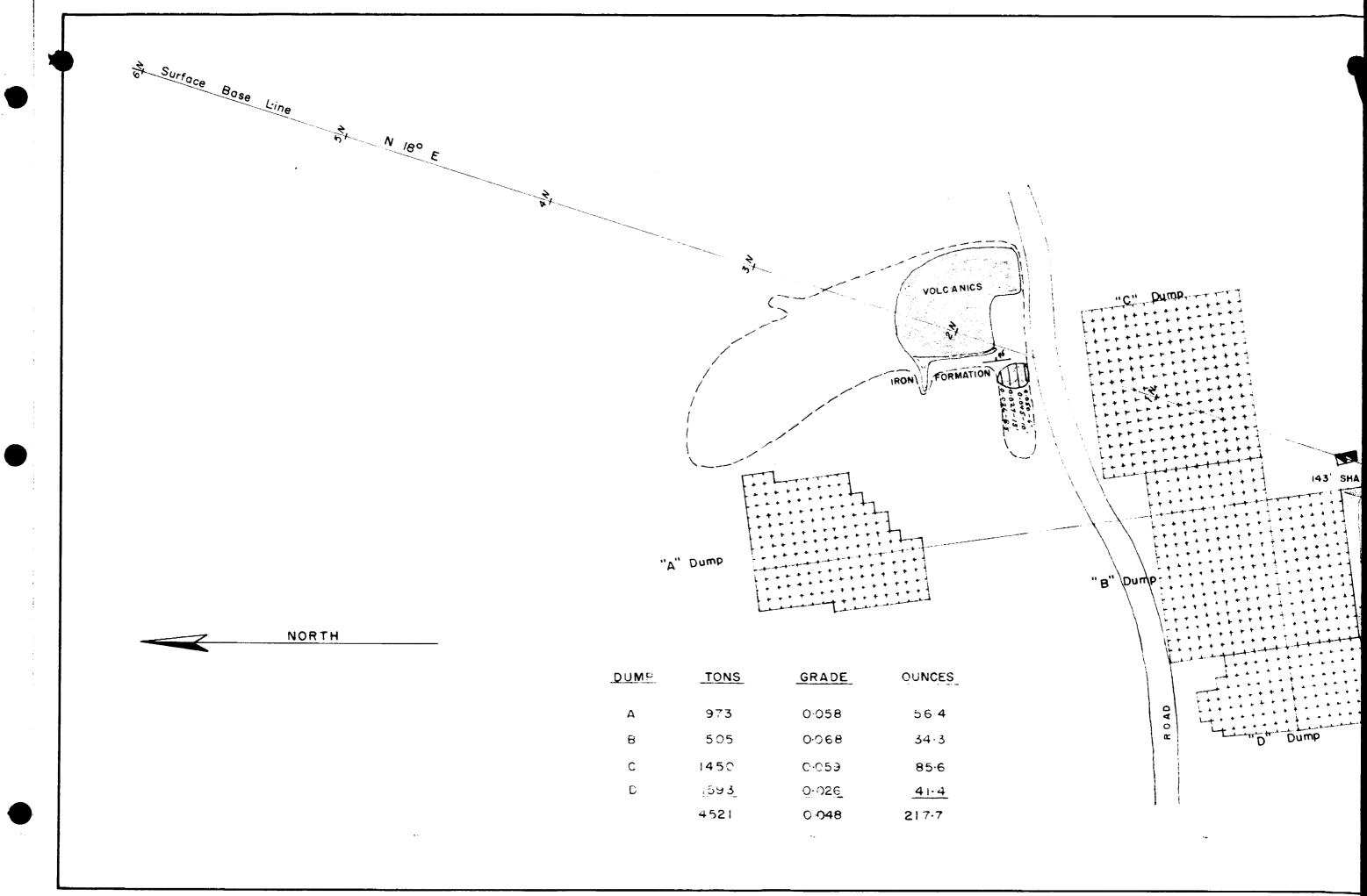
New Liskeard, Ontario October 15, 1982

Jack G. Willars, B.A.Sc., P.Eng. Consulting Mining Geologist

Philillers)



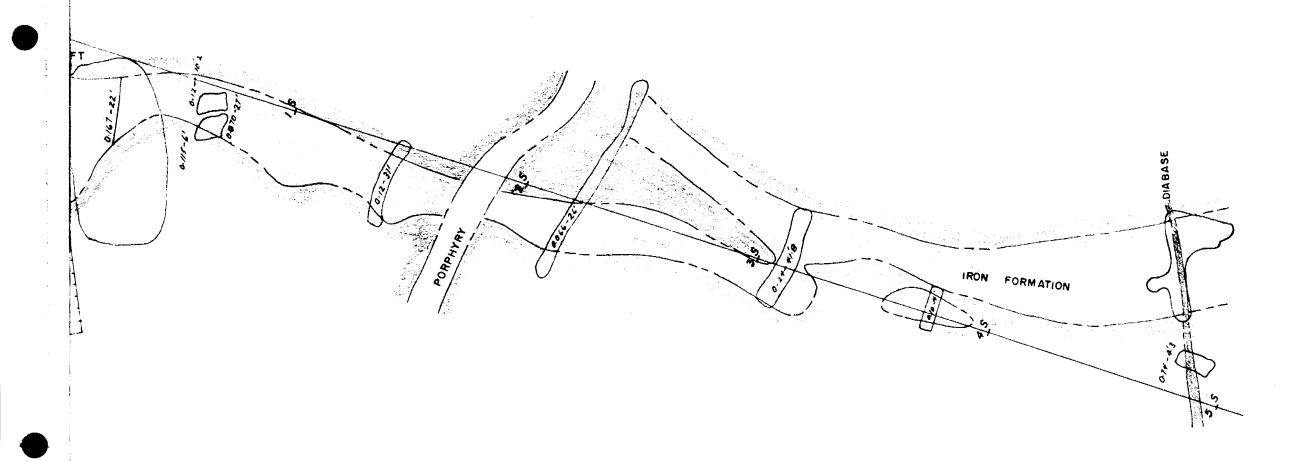




SURFACE PLAN

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY Shaw Twp., Ont. SCALE: I"=40



1982

Holes at 0° dip unites the misses stated Assert results in ounces of gold per ton over true width.

All result types combined for calculation purposes.

N 180 E

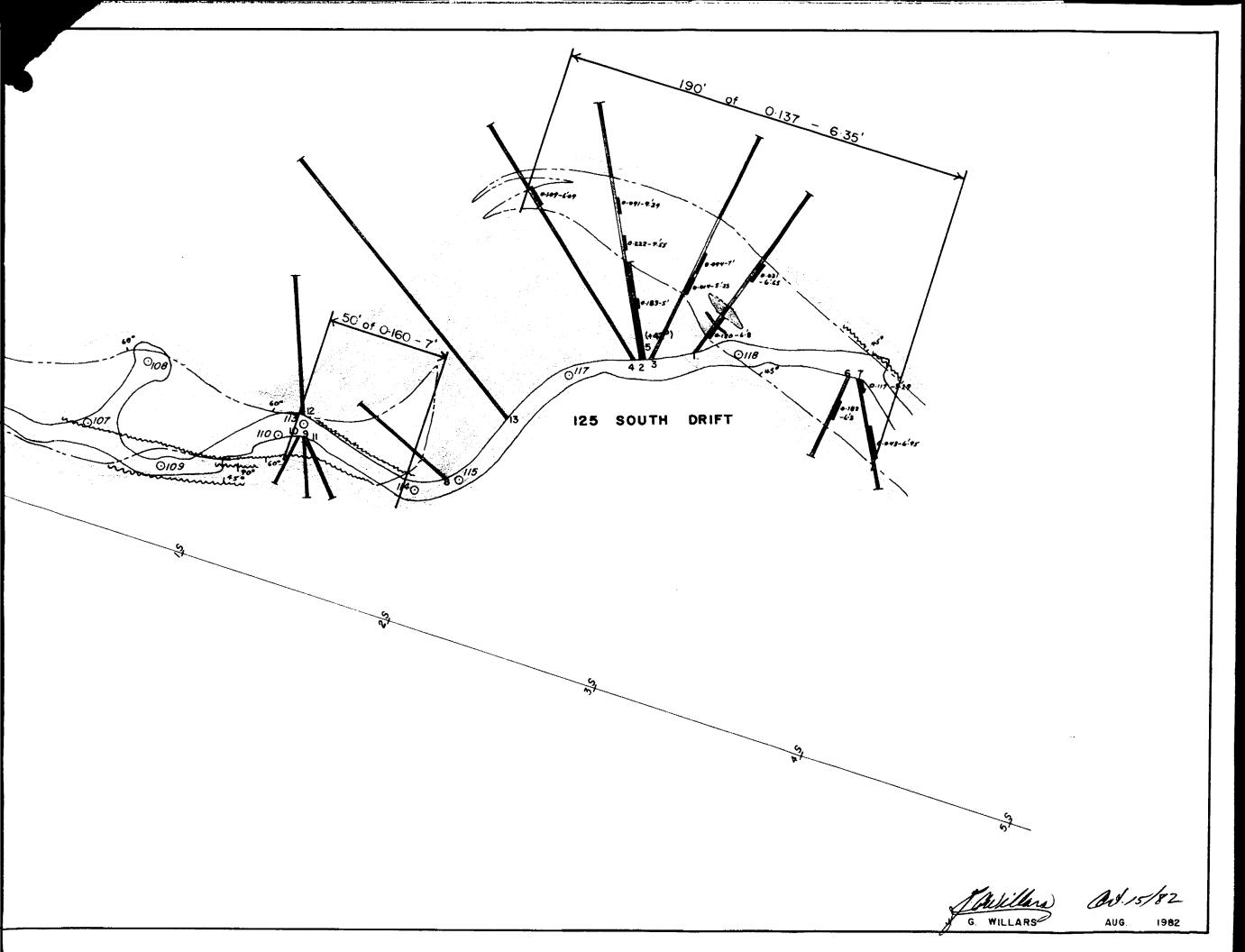
N 1

NORTH

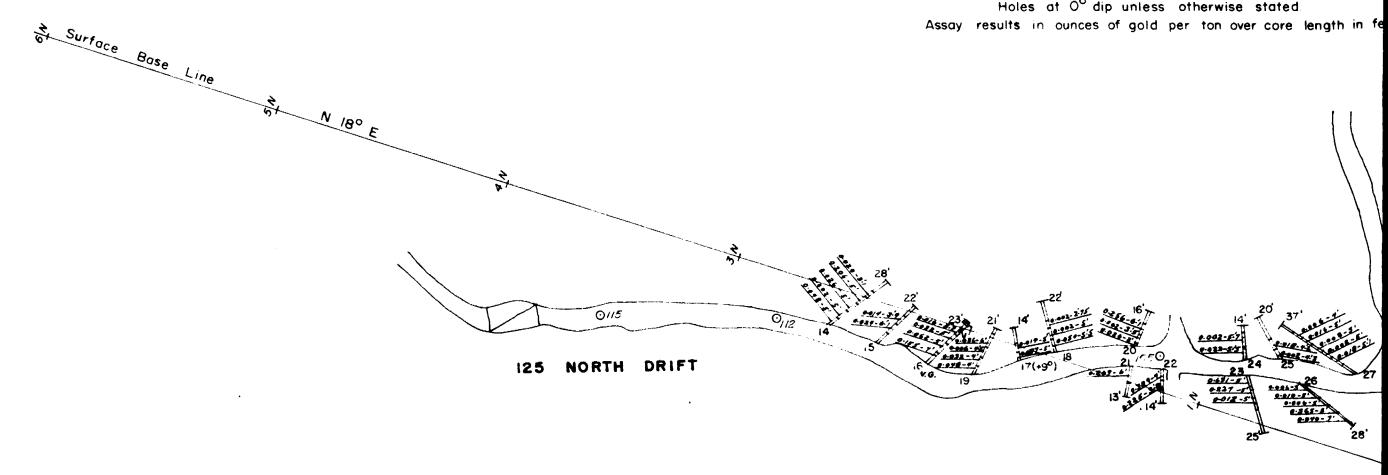
GEOLOGY PLAN OF 125' LEVEL GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY
Shaw Twp., Ont.

SCALE: I"= 40'



Holes at 0° dip unless otherwise stated. Assay results in ounces of gold per ton over core length in fe



NORTH

1982 UNDERGROUND DIAMOND DRILLING PLAN OF 125' LEVEL GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY Shaw Twp., Ont. SCALE: 1"= 40"

et. 0.032.5:5 0.032.5:5 0.222.5:5 0118 tr - 2:5 1 0100 125 SOUTH DRIFT 6107 0109 上52 SHAFT

Melilars Del 15/82

J. G. WILLARS JULY 1982

23-100

Power

SAMPLING

PLAN OF 125' LEVEL

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY
Shaw Twp., Ont. SCALE: 1"=40" 0.35/ -44 0.01-010.0 0.177-10.0 0.01-8-0.0 SOUTH DRIF 125 0.073-7.0

d'alteration en bathrides of fault + chlorite specks

0.6-2/0.0

0.001. 0.0

0.016-10-5

0.010-13.0

0.005-6.0

0.030 - 6'0

0,0-3000 0.001-1010

> VILLARS WILLARS MAY 1982

020



DIAMOND DRILL LOG-S

D. D. HOLE NO. 82 - 1

PROPERTY GOWGANDA DESCUDERS INC. - Carshaw

PAGE 1

COLLAR: LAT. 50'T of B.L. Surface

BEARING N 720 W

minus 56.50

At 300' -55°
At 600' Natural Resources
RECEIVED

DEPTH OF HOLE 807'

STARTED Jan.23,1982

COMPLETED Jan.28,1982

Barron D.D.

DRILLED BY

CORE SIZE BQWI

ROM	то	DESCRIPTION JAN 13 1983	SAMPLE NO.	CORE LENGTH	ASSAY Result
		THE DIRECTOR			oz./ton
0	81	CASING MINING TAXATION AND			02.7 (01)
		OMED DEFICE	•		
ୟ 🕴	43.7"	BASIC VOLCANICS	1		
		Grey to light green, hard and in part contains			
		amygdules up to 3/8" size of white feldspar.			
		Reewatin age type rocks. Sharp lower contact			
		at 45° to the core axis. Finer grained and			
		bleached near the contact.			
	00 01	TD ONL TO THE ONL			
3.7 '	80.3	JEON FORMATION			
		Well banded white quartz alternating with 5 to 10% black magnetite bands. From 43.5'-62.5' is	İ		
		taconite type beds with horse of lava from			
		52'-53'. Pyrite mineralization increases from			
		62'-63'. From 63'-65.5' is fine grained porphy	-31 <i>r</i>		
		with fine grained white feldspar phenocrysts	- y		
- 1		cutting the core at 85° to its axis. From			
	•	80.5'-82' is a fault with breccia at the lower	ĺ		
		contact and vuggy quartz. Some crenulation.			
		SAMPIES: From 43.5'-47' Banded quartz and	32501	3.5	terace Au
		magnetite with minor pyrite.	7.	., ,	
		From 47'-49' As above with 3% pyrite	32502	2.0'	trace Au
		From 47'-49' As above with 3% pyrite From 49'-51' As above	32503	2.0'	trace / 1
:		From 51'-54' Banded quartz and mag-	32504	3.0	trace Au
		netite with 12" volcanics and some	-	·	
		pyrite.			
	•	From 54'-57' Little pyrite in taconi From 57'-60' As above.	te32505	3.0	trace A
		From 57'-60' As above.	32506	3.0	trace Au
		From 60'-62.5' Taconite with 1"&1"	32507	2.5'	trace Au
		quartz bands with some pyrite.			
		From 62.5'-64' Banded magnetite and	32508	1.5	0.05 Au
		quartz plus 4% pyrite.			0.07 Ag
	•	From 64'-66' Porphyry dike.	32509	2.0'	trace Au
		From 66'-69' Quartz veining with fai	r32510	3.0	0.175 Au
		amount of pyrite and some magnetite.	22544	0 21	0.07 Ag
		From 69'-71.5' Quartz plus some magn	36511	2.5	0.33 Au
		etite. Good pyrite.	22512	4.0	0.06 Ag
		From 71.5'-75.5' Banded taconite with	176516	4.0	0.03 Au
		some pyrite and a little quartz.	32513	4.8	0.195 Au
		From 75.5'-80.3' Banded sugary quartz with 10% pyrite, little magnetite.)~)I)	4.0	0.195 Au
				*	O TO WE
0.31	127'	BASIC VOLCANICS			
	,	Bleached and grey coloured, fine grained lavas			
		with amygdules. From 80.3'-935 altered softer			i

SIGNED.

ACK G. WILLARS, B. A. SC., P. ENG.

82 - 1 D. D. HOLE NO.____

PROPERTY GOWGANDA PESCUPCES INC.-Carshaw

2 PAGE __

PROI					
ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result
271	204 •	BASIC VOLCANICS Park green coloured matrix rock containing up # " size amygdules. ? vesicular top at 139'. From 167'-204' contains sparse large (1"-1½") white quartz amygdules.			oz.Au/ton
04"	282'	BASIC VOLCANICS Much the same as 80.3'-127'. From 274'-275' is a yellow felsite matrix with fine white feldspar grains and \frac{1}{2}" white quartz at top contact. Contacts are at 45° to the core axis.			
821	287'	IRON FORMATION Sparse magnetite bands at 35° to the core axis alternating with red jasper and minor white quartz and lava bands. Some crenulation and contacts are at 45° to the core axis. SAMPLES: From 282'-285' As above, minor pyrite and some quartz.		3.0' 2.9'	trace trace
·87 *	318'	BASIC VOLCANICS Patches of iron formation in crenulated bands interbanded with volcanic rocks. Sparse pyrite patches. At 313' irregular 2" tuff band which is hard, fine grained, yellow to grey matrix with tiny black fragments(?graphit). Is this a younger lava flow picking up debris over interflow sediments?			
318°	407	BASIC VOLCANICS Dark green, medium grained to fine grained, hard rock with ghosty irregular banding and large white quartz amygdules. From 384'-385' resembles white phenocrysts in a fine grained black matrix.			
07*	429'	BASIC VOLCANICS Dark green to black coloured, hard, fine to medium grained, mottled rock with sharp flow contact at 40° to the core axis.			
29'	473'	BASIC VOLCANICS As above at 318'-407'. The large 1"-2"quartz sections could be veins, but unlikely since th section above they are rounded and these coul merely be larger quartz ingredients. Ghosty bands and lineations are observed.	e d		

SIGNED_

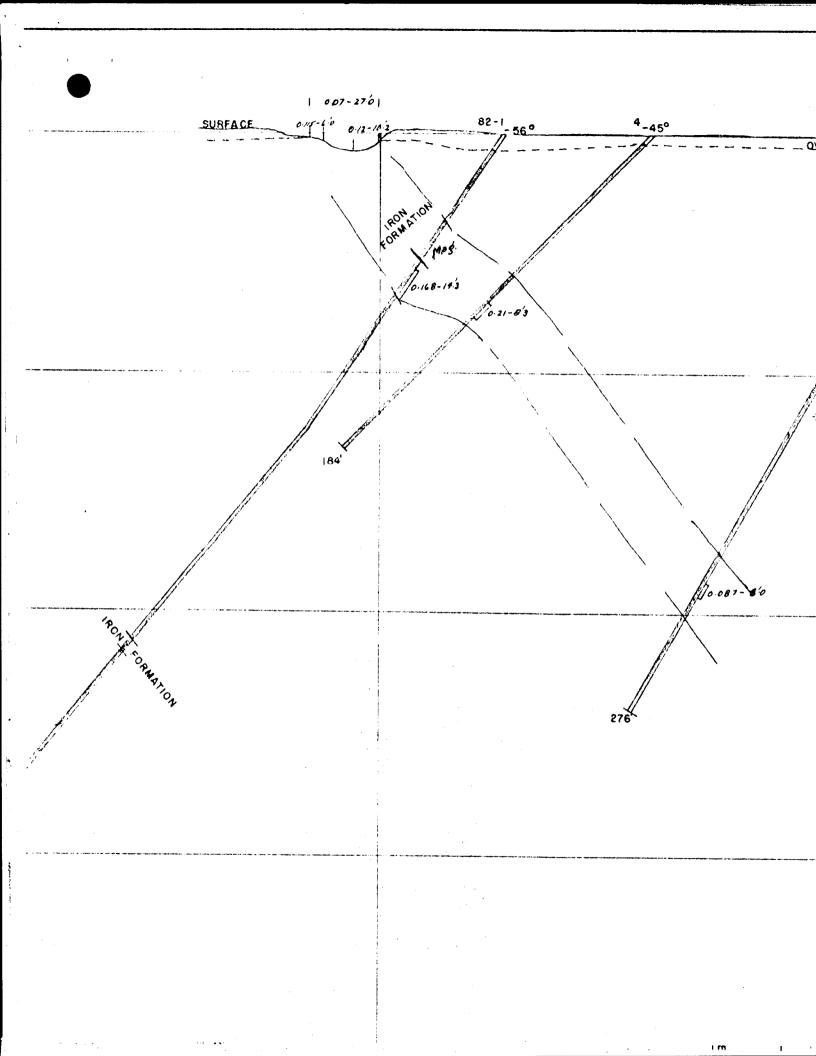
D. D. HOLE NO._

PROPERTY GOWGANDA DESCURCES INC.-Carshaw

3 PAGE ___

ROM	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY Result
73 °.	785'	BASIC VOLCANICS Fine grained dark green with 2% fine grained white feldspar grains as mottles. Hard with so specks of chlorite alteration. Homogeneously mottled for the most part. At 526' 1" quartz vein at 20° to core axis From 541'-542' white quartz-carbonate contain -ing volcanic breccia fragments at 15° to core At 559' ½" pink and white quartz at 45° Atn 642,5'& 642' ½" white quartz at 45° At 657.5' ½" mud fault gouge at 45° to core. From 658'-660,2' white quartz-carbonate with volcanic breccia fragments at 40° to core At 667' 2" fault breccia cemented with quartz and at 50° to the core axis. At 664: 1" pink sheared quartz at 70° to core. At 689' 3/4" white quartz-carbonate shearing at 45° to the core axis. At 690' ½" cemented breccia at 45° to core. At 706' vuggy rusty fracture at 60° to core. From 718,5'-721.5 24" quartz-feldspar vein with sheared contacts filled with stringers of quartz-feldspar. At 720' and 730' ½" white quartz veins at			
85'	807	DIABASE Hard, fine grained, mottled dark green colour rock containing flower like, green-white feldspars up to ½" size.	∌đ		
	807	END OF HOLE			·

JACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST



DIAMOND DRILL LOG

D. D. HOLE NO. _

GOWGANDA RESCURCES INC.-Carshaw PROPERTY

PAGE 1

Shaw Twp., Ont.-Claim P13814 COLLAR: LAT. 85°N on B. I. 50' E

Surface

TEST

STARTED Feb.1,1982
COMPLETED Feb.2,1982 Barron D.D. BQWL

CORE SIZE _

84.50 W

юм	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY RESULT
0	9.1	CASING			oz.Au/tor
ġ !	45.5'	BASIC VOLCANICS Hard, fine grained, medium green coloured matriwith irregular patches of 1/8" size amygdules. From 36'-45.5' is bleached by alteration.	x		
5 ·5 ¹	72 '	Magnetite bands alternating with sugary quartz bands and chert bands. Rusty vuggy contact at 60° to the core axis. Banded quartz and pyrite at 60° up to 51' with some mild contortion, and from here on narrow magnetite bands start to appear. Taconite iron formation is seen from 51'-64' at a rusty vuggy contact concordant with the banding. From 64'-65.5' 18" barren white quartz. From 65,5'-71' is pyritized sediments with pyrite in both massive and cubic form. Lower contact is a rusty, vuggy band at 60° to the core axis and concordant with the banding. SAMPLES: From 45.5'-48' As above-some pyrite From 50.5'-53' As above-some pyrite From 50.5'-53' As above-little pyrit	32516 32517 32518 932519	2.5.500	trace trace 0.12 trace
		From 58'-63' Minor pyrite cubes in taconite. From 63'-67' As above with one 15" quartz band. Minor pyrite. Ghosty	32520	5.0° 4.0°	trace trace
		banding at 15° to core axis. From 67'-70' Large cube pyrite and quartz - heavy sulphides. From 70'-72' Ghosty banded sediments	32522 32523	3.0° 2.0°	0.03 trace
7 2 •	103.5'	with minor sulphides. FELSITE PORPHYRY Brownish grey coloured rock with 1% white quartz intrusion. Ghosty white feldspar pheno- crysts.			

JACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

D. D. HOLE NO.__

PROPERTY GOWGANDA RESOURCES INC. -Carshaw

PAGE 2

ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
03.5	112.5	IRON FORMATION Banded rock at 70° to the core axis. Eands of white quartz, pyrite (massive and cubic), basic lava and magnetite. Some minor contortions. At 106.5' is 3" rusty vug at 90° to the core axis. SAMPLES: From 103.5'-108' Sugary quartz banded with magnetatite and pyrifrom 108'-112.5' Magnetite and banded white sugary quartz and some pyrite.		4.5° 4.5°	trace
12.5	116'	PASIC VOLCANICS Bleached rock, otherwise resembles above from 9"-45.5'.	n		
	116*	END OF HOLE.			
					·
					·
•					

SIGNED_

ACK G. WILLARS, B. A. SC., P. ENG.

PROPERTY GOWGANDA RESOURCES INC.-Carshaw

Shaw Twp., Ont.-Claim P13814

collar: Lat. 85 N on B. L.

DEPT. 50' F of B.I.
Surface

BEARING N 84.50 W minus 800

TEST

PAGE 1

DEPTH OF HOLE 247'

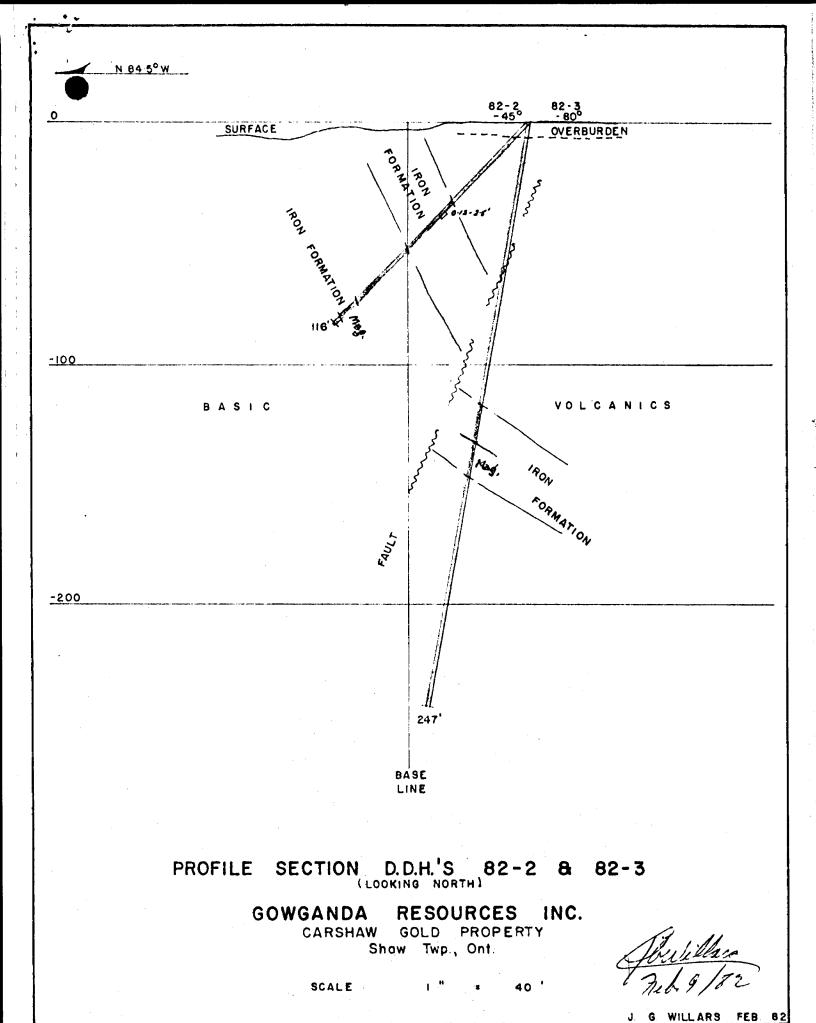
STARTED Feb. 2,1982

COMPLETED Feb. 3,1982

DRILLED BY Barron D.D.

SORE SIZE BQWL

ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result
0	6'	CASING			oz.Au/ton
6 *	119'	BASIC VOICANICS Light green to grey coloured rock with quartz at 25.5'. Bleached by alteration and fine amygdules. From 60.7'-63.2' is barren white quartz at high angles to the core axis as litpar-lit shear filling. At 90' and 91' there are rusty shears at high angles to the core.			
19'	149.8	Magnetite bands alternating with sugary quartz and chert bands. From 119'-133' is white quart with ghosty banding and ? tuff bands. Patchy massive pyrite. From 125.5'-126' is a rusty vuggy section. From 133'-149.8' is typical taconite rock with banding at 80° to the core axis. 10% magnetite and silica bands. From 138.3'-139.5' is a shor horse of lava rocks or porphyry. From 148.8'-149.8' ghosty banded porphyritic rock with minor pyrite. SAMPLES: From 119'- 123' As above-pyritized From 123'-127' Pyrite & banded quart From 127'-132' Good pyrite banded with quartz. From 132'-137' Banded magnetite and sugary quartz or chert. Some pyr. From 137'-142' As above with minor cubic pyrite. From 142'-146' As above-minor pyrite From 146'-149.8' As above plus banded sediments.	t 32526 232527 32528 32529 32530	4.0 4.0 5.0 5.0 5.0 4.0 3.8	trace 0.01 0.03 0.05 0.005 0.005
49.	180'	BASIC VOLCANICS Amygdaloidal lava rocks with ghosty banding to 180'. From 165'-168' is barren white quartz intruding plus several veins at 75° to 80° to the core axis.			
801	247'	PASIC VOLCANICS Dark green matrix with fine grained yellow-whi feldspar flecks homogeneous throughout the mat and sporadic rounded white quartz amygdules.Fr	rix om207'- e.		
		SAMPLE: From 2151-215 5 Quartayein with fuchs minor sulphides banded at 806 to-core	ite 32533	0.5	trace



D. D. HOLE NO. 82 - 4

PROPERTY GONGANDA DESCUEDES INC. -Carshaw Property

PAGE 1

COLLAR: LAT. 170'N on B.L.

DEPT. 50' E of B.L.

Surface

TEST

STARTED Feb. 5, 1932.

COMPLETED Feb. 6,1982

DRILLED BY Barron D.D.

BQWI.

DIP minus 450

₹ОМ -	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
0	14'	CASING			oz.Au/ton
į <i>Ι</i> , *	113'	BASIC VOLCANIOS Fine grained, dark coloured rock, green with white mottles in matrix and up to 3/8" size white quartz, well rounded amygdules plus quartz veining with border rims of feldspar. At 42' 1" quartz and feldspar at 15° to the core axis. Yuggy.			
		From 48.5'-49' Quartz vein at 35° which fills a fault. Limonite and fuchsite present. Bleaching and alteration appear from 47'-73'. From 73'-91' is basic volcanics as above but an absence of the larger amygdules. From 91'-113' as 14'-73' but with ghosty banding and bleached.		·	
13'	128.9	IPCN FORMATION Well abnded quartz and pyrite and sediments. From 122'-126' is traditional type taconite at 700 to the core axis.	20 504	r 01	2 405
		SAMPLES: From 113'-118' quartz veining or bands and pyrite with minor magnetite.	32534	5. 0'	0.095
		From 118'-120' quartz bands with a little pyrite & some magnetite.	32535	2.0'	0.005
		From 120'-122' quartz bands with fair amount of pyrite. Minor magnetite.	32536	2.0'	0.01
		From 122'-127' banded magnetite with some \frac{1}{3}" to 1" quartz bands and	32537	5.0'	0.04
		some pyrite. From 127'-129'first part is quartz banding with some pyrite - second part is wall rock.	32538	2.0'	traco
28.9	157'	BASIC VOLCANICS As above at 14'-113' and containing the ;arge			
		<pre> †" quartz amygdules. SAMPLE: From 137'-140' quartz stringers in basic volcanics containing some nymite</pre>	32539	3.0'	trace
		pyrite. From 140'-142' a little quartz with some fine pyrite.	32540	2.0	0.005
	157'	END OF HOLE.			

SIGNED Specialism

JACK G. WILDARS, B. A. SC., P. ENG.

PROPERTY GOWGANDA PESCURCES INC. -Carshaw Property

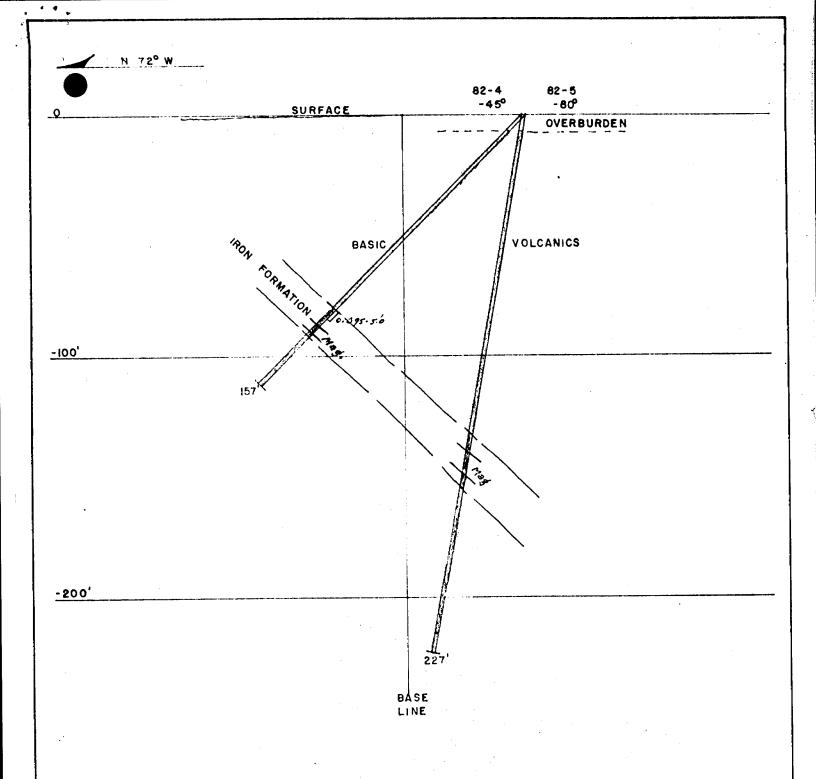
PAGE 1

Shaw Twp., Ont.-Claim P 13814 170" N. on D.L. COLLAR: LAT. __ 50'8 of B.L. DEPT.__ Surface N 720 W BEARING_ minus 80°

TEST	DEPTH OF HOLE 227
	Feb. 6,1982
	Feb. 7.1982
	Barron D.D.
	DRILLED BY
	CORE SIZE POWI

₹ОМ	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY RESULT
0	14'	CASING			oz.Au/ton
14.*	134'	BASIC VOLCANICS Hard, fine grained mottled green and white roc in the matrix, and containinglarger amtgdules of quartz. Some quartz stringer intrusion with minor sulphides. At 12' limonite shear at 80° to core axis and with quartz. At 66.5'-68' is a fine grained phase of the lava rock -? flow interruption. From 117'-134' is altered by bleaching.			
34'	155.5	From 134'-142' is quartz bands, sediments and pyrite. From142'-152' is typical taconite. From142'-155.5' is quartz bands, sediments and pyrite.			•
		SAMPLES: From 134'-137' 1" to 1" quartz bands and minor pyrite.	32541	3.0'	0.005
		From 137'-142' as above and with band of magnetite and fair pyrite. From 142'-147' Taconite From 147'-152' taconite with minor pyrite. From 512'-156' quartz-carbonate bands of 1" to 2" widths - minor pyrite	32542 32543 32544 32545	5.0' 5.0' 4.0'	0.005 0.005 0.005 0.01
5.5	227'	BASIC VOICANICS Altered by bleaching, otherwise same as above at 14'-134'. Some pyritized sections. From 204'-207' is vesicular. From 163!-167' quartz bands and ? carbonate from 10 3" widths and containing minor pyrite.	32546	4.0	0.005
		From 167'-169' fair amount of pyrite cubes.	32547	2.0'	0.005
		From 170'-172' Som pyrite From 172'-173.8' \frac{1}{2}" quartz stringers with minor pyrite.	32548 32549	2.0'	trace trace
	227'	END OF HOLE.			

SIGNED.



PROFILE SECTION D.D.H.'S 82-4 & 82-5

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY Shaw Twp., Ont.

SCALE: | " = 40 '

The 182

J. G. WILLARS FEB. 1982

D. D. HOLE NO. 82 - 6

PROPERTY GOWDANDA RESOURCES INC. - Carshaw Property

PAGE 1

collar: Lat. 250' N. on B.I..

TEST

 DEPTH OF HOLE
 187'

 STARTED
 Feb.7,1982

 COMPLETED
 Feb.8, 1982

 DRILLED BY Barron D.D. CORE SIZE BOW!

Surface N 720 M BEARING_ miring 1150

ROM	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY RESULT
0	201	CASIFG			oz.Au/tor
30 '	121'	PASIC VOLCANICS Matrix is a hard, fine grained, mottled gree and white rock with quartz stringers at 459 and 60° to the core axis. Some limonite stain			
		SAMPLE: From 33'-34.4' quartz stringers and fuchsite.	32551	1.4'	trace
	,	From 36.7'-40' ½" to 2" quartz veins with some pyrite.	32552	3.3'	0.005
		From 42'-43.7' porphyritic lava rocks with 1" to 1" quartz stringers and some pyrite. From 64'-69' is bleached and has limonite on some fractures. From 77'-99' is well fractured at low angles to the core axis with much limonite staining. At 92' is a FAULT with quartz seams and limonite. Area or section is incipiently brecciated. At 85' 4" brilliant green, fine grained fuchsite. The rock is bleached near the lower contact.	32553	1.7'	trace
.21 *	134.5	IRON FORMATION Well banded quartz and sedimentary bands with		•	
-		some pyrite bands. No magnetite detected. SAMPLES: From 121'-124.4'quartz bands with a	32554	3.4'	0.05
		amount of pyrite. From 124.4'-127' as above. From 127'-129.5' quartz bands with rusty fracture planes and a little	32555 32556	2.6' 2.5'	0.035 0.01
		pyrite. From 129.5'-132' %" to 5" quartz bands with a fair amount of pyrite.	32557	2.5'	0.175
		From 132'-135' ½" to 5" quartz bands with some pyrite.	32558	3.0'	0.015
34.5	187'	BASIC VOLCANICS As above, chiefly, but with altered and structured sections containing some pyrite. Ghosty banding at 45° to the core axis. Up to ½" size quartz and feldspar well rounded			
		amygdules. SAMPLES: From 140'-141' porphyritic lava with some quartz, fracturing, little pyri	32559 te	1.0	trace

SIGNED.

JACK G. WILLARS, B. A. SC., P. ENG.
CONSULTING MINING GEOLOGIST

GOWGAMDA RESCURCES INC.-Carshaw Property

PAGE ____2

PRO			PAGE		
ROM	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY Result
		From 1/10 61 1531 quanta voining with 1"			oz.Au/ton
		to 3" widths and containing a fair	32560	3.4	trace
	:	From 149.6'-153' quartz veining with a to 3" widths and containing a fair amount of pyrite. From 155'-157' a to 3/4" veins of quart which contain some fine pyrite.	z 32561	2.0	trace
	187'	END OF HOLE.			
		•			
					·
•					·
			-		
			·		*

INED STATE

PROPERTY GOWGANDA RESCURCES INC. - Carshaw Property

PAGE 1

Shaw Twn., Ont.-Claim F13814

TEST

DEPTH OF HOLE 227*

STARTED Feb.8,1982

COMPLETED Feb.9,1982

DRILLED BY Barron D.D.

CORE SIZE BOWL

COLLAR: LAT. 250'N on R.I.

DEPT. 50' N. of B.I.

ELEV. Surface

N 720 W

minus 800

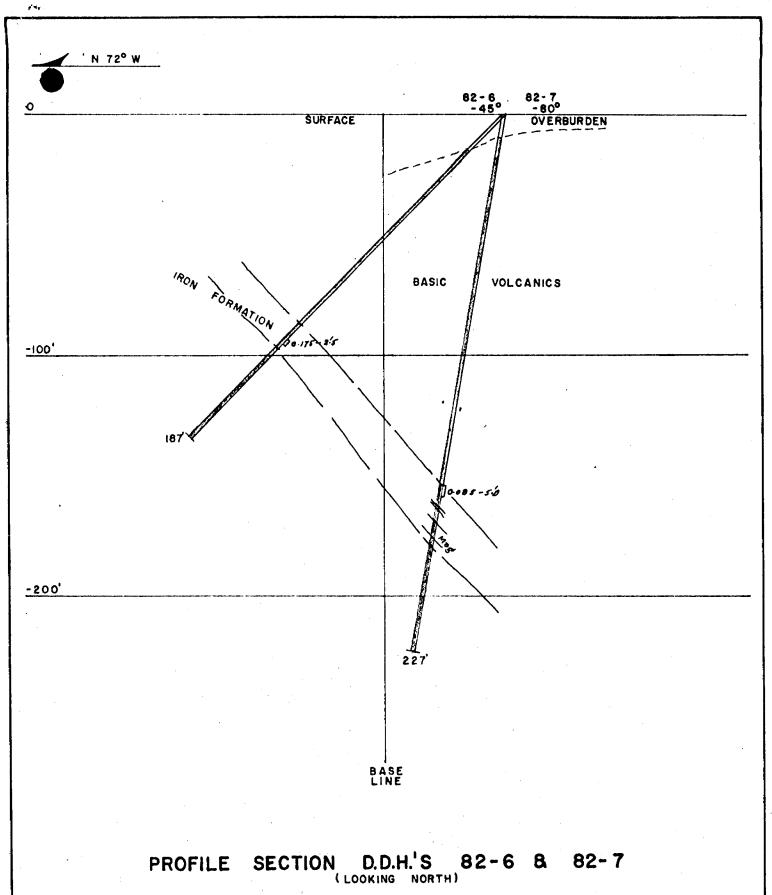
0	10'	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result
	10'			1	1
.0*		CASING			oz.Au/ton
	155'	BASIC VOICANICS Matrix of hard, fine grained, dark green with white mottles rock and up to 1/8" amygdules of quartz with narrow feldspar rims. From 10' - 21.5' is bleached. At 15' 4" translucent quartz at 40° to the core axis with brown carbonate associated. At 21'-21.5' narrow quart			·
		vein with yellow-white feldspar. From 47.5' on the rock alternates from bleached to semibleached with same type of veining as above. At 47.8' is minor brecciation. At 54' 1" limonite in quartz at 40° to core and at 55' is 6" white barren quartz at 60° to the core axis.			·
		SAMPLE: From 69'-71' shearing and brecciation at 60° to the core axis with quart and carbonate plus pyrite cubes. At 107' the rock gets finer grained and is? flow change as at 126.5'-127'. At 77.5' broken core -? FAULT (15" on each wall is rusty oxidation. From 142'-155' is altered to a light grey colo and contains patches of pyrite mineralization. Chosty banding is at 60° to the core axis. A rusty fault is at 155' and is concordant with the banding.		2.0'	trace
55' 1	[80.3 '	From 155'-164,5' is well bended white quartz and pyrite at 60° to the core axis, with some mafic minerals and crystalline vug at 158.5'. From 164.5'-165,3' typical taconite with pyrit From 165.3'-170' well banded as above at 155'-164.5' some narrow tuff bands(yellow/brown hard, fine grained rock) From 170'-177.0' taconite with pyrite. From 177'-180.3' tuffaceous and banded minor sulphides.	e •		
		SAMPLES: From 155'-160! † to 6" quartz bands with fair amount pyrite.	32563	5.0'	0.085
		From 160'- 165' 1" to 5" quartz bands with fair amount of pyrite.	32564	5.0'	0.02

SIGNED

GOWGANDA RESOURCES INC. - Carshaw Property

PAGE ____

PROI				PAGE		
ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT	
		From 165'-171.5' 2" to 2" bands of quartz with minor magnetite and minor pyrite bands.	32565	6.5	07.Au/ton 0.005	
		From 171.5'- banded taconite with some 177' \frac{1}{4}" to 3/4" quartz bands	32566	5.5	0.02	
		and minor pyrite. From 177'-180.3' 1/16"to ½" quartz bands and minor pyrite.	32567	3.3'	0.005	
0.3'	207'	BASIC VOLCANICS Altered amygdaloidal lava rocks with considerable pyrite in ghosty bands. Incipient brociat SAMPLES: From 180.3'-185' wall rock pyritized From 185'-189' as above	tion.	4.7° 4.0°	trace trace	
07'	227'	BASIC VOLCANICS Amygdaloidal lava as above with sparse well rounded white quartz amygdules up to ½" size.				
	227'	END OF HOLE.				
				·		



GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY Shaw Twp., Ont.

SCALE: 1" # 40'

Thirlillars

J. G. WILLARS FEB. 82

DIAMOND DRILL LOG

D. D. HOLE NO. 82 - 8

P	A	G	E	1	•

PROPERTY GOWGANDA	Sablai0Saa	INCCarshaw	_Property
The same Market	Ont -Clair	~ 174 2Ω4 /I.	

LOCATION Shaw Two., Ont. -Claim P13814 COLLAR: LAT. 350'N.on B.I.

DEPT. 50' F. Of B.L.

elev. Surface

7207 BEARING_

TEST

207' DEPTH OF HOLE ____ STARTED Feb. 10,1982 COMPLETED Feb.11.1982. DRILLED BY Barron D.D. BQWL

₹ОМ	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY RESULT
<u> </u>	12'	CASING	****	22,79111	oz.Au/ton
12'	207'	FRISITE PORTHYRY Hard. fine grained yellow-brown matrix with			
		1/8" size phenocrysts. At 25' 6" rusty vuggy fault. From 25'-36 is porphyritized lava rocks. From 36'-207' is chiefly as above.			
		Some quartz veining and some fuchsite in places. From 179'-186' is an inclusion of altered lava.	*		
		At 158' is a rusty fault. SAMFIES: From 90'-93.5' is fuchsite in altered porphyry and containing sparse pyrite From 93.5'-97' is quartz and fuchsite	32570		trace
		plus sparse pyrite grains.	32571	3.5"	trace
	207'	END OF HOLE.			
-					
	:				
					:
			· · · · · · · · · · · · · · · · · · ·		:

SIGNED.

JACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

PROPERTY GOWGANDA PESOUPCES INC. -Carshaw Property

PAGE 1

Shaw Twp., Ont.-Claim P13814
collar: Lat. 350'N on B.L.

TEST

STARTED Feb. 17,1982

COMPLETED Feb.19,1982

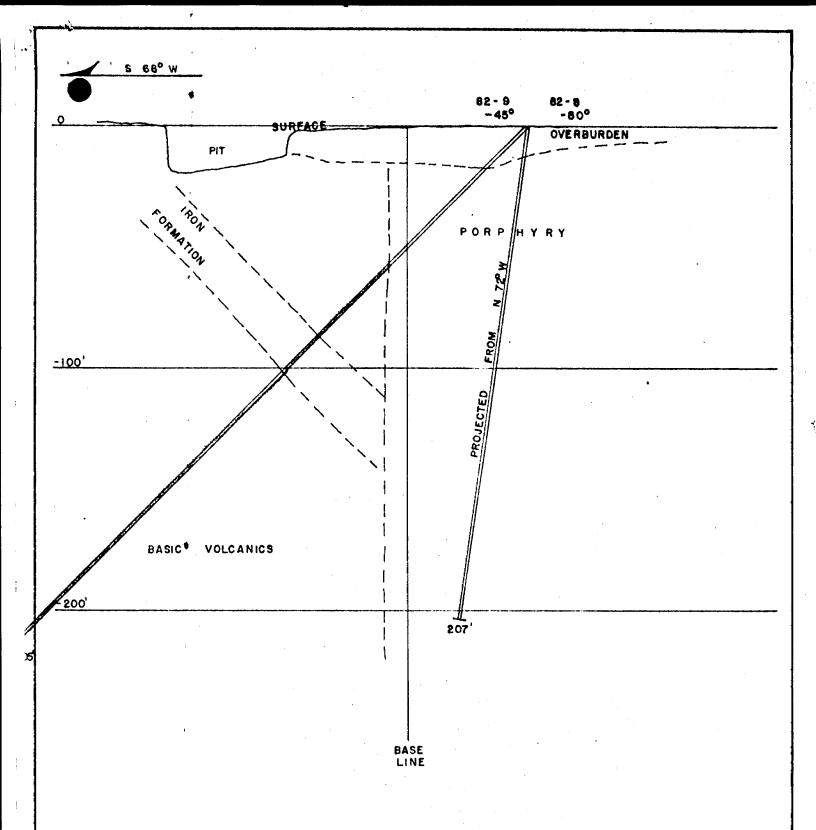
DRILLED BY Barron D.D.

CORE SIZE BQWL

BEARING S 680 W minus 450

DIP		minus 45°			
пом	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
0	26'	CASING			oz.Au/ton
26 '	82'	PORPHYRY Hard, fine grained, light yellow to grey white rock containing phenocrysts.			
32'	134'	BASIC VOLCATICS As in previous holes. At 134' - a very bad fault which was cemented.			
3 4 '	1 1 1 7	SAMPLE: From 1143-116 Fuchsite + light pyrite JEON FORMATION	32572	1.7'	trace
?5 '	154.7	SAMPLES: From 134'-137' quartz banding with no magnetite and a fair amount	32573	3.0'	0.01
		of pyrite. From 137'-140' as above From 140'-143.6' as above From 143.6'-145' not taken - dike.	32574 32575	3.0' 3.6'	0.02 trace
	•	From 145'-150' quartz bending with	32576	5.0'	trace
		very fine pyrite From 150'-154.7' quartz-calcite banding with some pyrite and magnetite bands 1"-2" wide with some pyrite.	32577	4.7*	trace
54.7	'305'	PASIC VOLCANICS Dark green, medium grained, dioritic matrix with amygdules. Patches of fine grained tuff of material. Some pyritic sections. Some vesichular sections. SAMPLE: From 297'-302' Quartz veining of "" to 2" widths with some pyrite.	~ felsi 32578		
	305'	END OF HOLE.			
•					1

INFO M



PROFILE SECTION D.D.H.'S 82-8 & 82-9

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY Shaw Twp., Ont.

SCALE: | " . 40 '

Sullano Par 23/82 J. G. WILLARS FEB. 1982

DIAMOND DRILL LOG

PROPERTY GOWGANDA RESOURCES INC .- Carshaw Property

D. D. HOLE NO. 82 - 10

PAGE 1

Shaw Twp., Ont.-Claim P13814

AT. 350'F on B.L.

294' E of B.L.

TEST

STARTED Feb. 19,1982. COMPLETED Feb. 21,1982 DRILLED BY Barron D.D. BOWL

ELEV. Surface BEARING N 720 M

1 10 100

	OM TO DESCRIPTION SAMPLE CORE ASSAY								
ROM	то	DESCRIPTION	NO.	LENGTH	RESULT				
0	14'	CASING			oz.Au/tom				
14'	17'	BASIC VOLCANICS Altered dark green rock with many varieties of texture, but chiefly porphyritic							
17'	471	BASIC VOICANICS Contact zone near the porphyry rocks. Salmon coloured, granitoid textured and intruded by quartz veinlets.	·						
47°	103.5'	PORPHYRY Felsite matrix, very fine grained, very hard, light grey to white containing fine grained quartz phenocrysts, and some feldspar pheno- crysts. From 82'-155' very fractured and rusty fault area. Sharp lower contact at 35° to the core axis.		,					
3.5'	126'	BASIC VOLCANICS Contact zone as above at 17'-47'							
26 •	250'	BASIC VOLCANICS Dark green, fine grained matrix with irregular MXXXXX amygdules At 162' 4"? pillow rim Coarse grained phases in sections of the core.							
50'	310.5'	BASIC VOLCANICS Bleached light grey, hard, fine grained tock with top contact at 15° to core axis. 1" mud fault at contact. Amygdules present in core. The above part is from 285'-310.5'. Up to 285' the rock is a hard, fine grained, dark matrix containing closely packed and numerous amygdul	es•						
0.5	345.5'	SAMPLES : From 310.5'-316' quartz banding \frac{1}{2}" to 3", some magnetite and with	32 <i>5</i> 79	5.5	0.005				
		fair pyrite. From 316'-320' ½"-2" quartz banding with some pyrite-very little magn-	32580	5.0'	0.005				
		etite. From 320'-325' 2.5' quartz plus 2.5' magnetite banding - fair pyrite.	32581	5.0'	0.285				

ACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

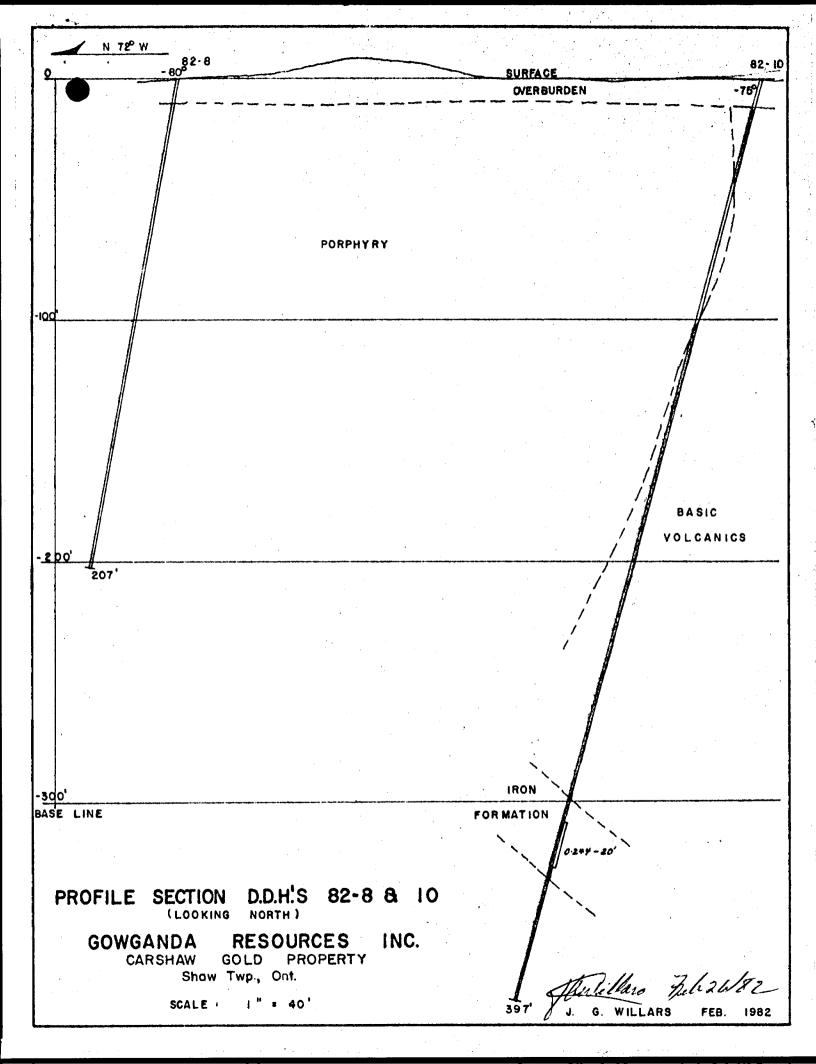
PROPERTY GOWGANDA RESOURCES INC. - Carshaw Property

PAGE _______

PROPERTY GET VO		571. 171. 17. 17. 17. 17. 17. 17. 17. 17.				
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result	
		Trom 325'-330' chert and pyrite and magnetite banded at 45° to core	32582	5.0'	0.50	
i		axis. Average pyrite content. From 330'-335' 10% magnetite banded	32584	5.0'	0.065	
		with white chert, sparse pyrite. From 335'-340' chiefly white quartz	32585	5.0'	0.125	
·		with 7% pyrite and in part tuff. From 340'-345.5' light brown cherty rock with little or no pyrite.	32586	5.0'	trace	
45.5	397'	BASIC VOLCANICS Altered porphyritic or dioritic matrix with up to ½" quartz amygdules.				
	397'	END OF HOLE.				
			·		·	
ı						
			·			
			:			
:						
					·	

GNED.

JACK G. WILLARS, B. A. SC., P. ENG.
CONSULTING MINING GEOLOGIST



TEST

PROPERTY GOWGANDA PERGUIDGES INC. - Carshaw Property

PAGE 1

COLLAR: LAT. 143'S ON B.I.

BEARING CLEV. Curfacon

oir minus 400

DEPTH OF HOLE 307'
STARTED Feb. 21,1982
COMPLETED Feb. 23,1982
DRILLED BY Barron D.D.
CORE SIZE BQWL

R OM	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY RESULT
0	12'	CASING			oz.Au/ton
12'	46.3'	BASIC VOLCANICS Medium grained, dark green coloured, porphyr- itic matrix containing sparse amygdules.			
ંડ∙૩ ⁺	77 '	IPON FORMATION At 53'-54' vuggy fault. SAMPLES: From 46.3'-51' 2% pyrite with white chert. Minor magnetite. Banding at 45° to core axis.	32587	4.7'	0.024
		Narrow basic lava sections. From 51'- 56' 30% magnetite in bands up to 2" wide. 5% pyrite	32588	5.01	2.55*
		From 56'-61' Some contorted and faulted banding at 45° to core axis on average. Some tuff.	32589	5.0'	0.005
		Lit t le or no pyrite. From 61'-66' Magnetite and quartz bands that are faulted and mildly contorted. Minor fine	32590	5.0'	0.005
		grained pyrite content. From 66'-72' Narrow bands of quartz and magnetite at 70° to the core axis. 15% pyrite in cube	32591	6.0'	0.040
		and massive form. From 72'=77' 3% magnetite bands with white quartz at 79° to core exists. Spotty large pyrite cubes.	n32592	5.0'	0.062
ን ? '	307'	BASIC VOLCANICS Resembles above at 12'-46.3'. From 77'-89' is incipiently breciated volcanic rocks. From 89'-158' is dioritic to porphyritic matrix with sparse amygdules up to ½" size, plus quartz veinlets and containing roundish rock fragments (?agglomerate) as well as large amygdules. The porphyritic phase alternates with fine grained phases. At 275' and 278' the rock is vuggy and contains pyrite cubes.			
	307'	END OF HOLE. * checked			
		Checkeu			

SIGNED.

PROPERTY GOWGANDA PESOUPCES INC. -Carshaw Property

PAGE 1

LOCATION Shaw Twn., Ont. -Claim P8299 COLLAR: LAT./43'S on B.I.

DEPT. 17' E of B.L.

TEST

DEPTH OF HOLE ______ 177[†]

Surface N 510 W

BEARING __ minus 900

STARTED	eD.23,1902
COMPLETED_	Feb. 24,1982
DRILLED BY	Barron D.D.
CORE SIZE	BQWL

пом	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY Result
0	10'	CASING			oz.Au/ton
01	63'	PASIC VOLCANICS Dark grey, fine grained, hard matrix with' amygdules up to 3/8" size and bleaching near the contact.			
63'	96.1'	From 63'-71' is the sulphide phase, From 71'-84' is the oxide phase with banding at 60° to the wore axis. From 84'-90' is half oxide phase and half sulphide phase. From 90'-96' is 65% oxide phase and 35% sulphide phase. SAMPLES: From 63'-67' quartz banding at 60° to core axis 4% pyrite. No	32593	4.0'	0.032
		magnetite. From 67'-72' 2% magnetite with white chert and minor pyrite in	32594	5.0'	0.005
		bands at 80° to core axis. From 72'-77' 40% magnetite in bands	32595	5.01	0.008
		at 60° to core axis. From 77'-82' 6" horse of country	32596	5.0	0.005
		rock - chiefly magnetite.1%pyrit From 82'-85' 12" horse of country	32597	3.0'	0.005
		rock plus taconite. No pyrite. From 85'-90' Heavy sulphides with rusty fault at top of sample	32598	5.0'	0.44*
		section. From 90'-96.1' Quartz and magnetite banding with 5% pyrite at angles of 45° and 75° to the core axis.	32599	6.0'	0.024
6.1	177'	BASIC VOLCANICS Dark green, fine grained matrix with amygdules and some quartz stringer intrusion. Some fine grained and some coarse grained phases. At 105 10" white quartz, fuchsite, rusty banding at 450 to core axis. At 115' 8" broken up core with rusty fault zone. At 118' 4" resembling above. At 119" same but at 50 angle to core axis. At 122' vuggy rusty fault section. From 118' to 132' is bleached section of rock.	•		
	.177*	END OF HOLE. * checked			

SIGNED.

JACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

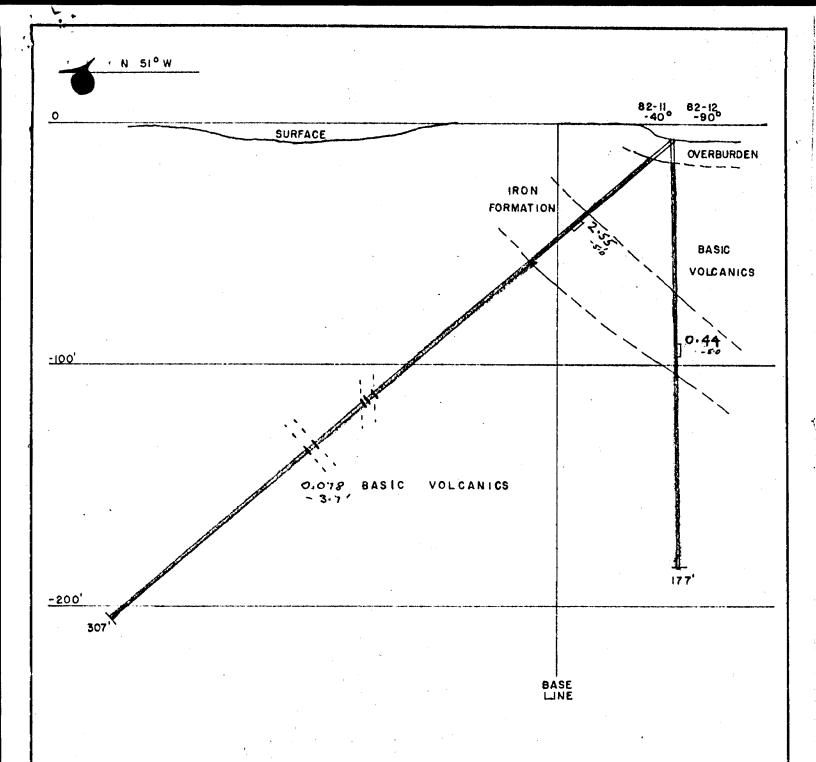
D. D. HOLE NO. 82 -12

GOWGANDA PESCUPCES INC. -Carshaw Property

PAGE _____2

PRO	YUU	THO THOSE WAS INDEED OF	PAGE			
ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result	
		ADDITIONAL SAMPLING :	,		oz.Au/ton	
		From 111'- 116' Rusty fault zone with	32624	5.0'	0.005	
·		From 111'- 116' Rusty fault zone with quartz veining and some pyrite. From 118'-119.4' Rusty fault zone From 134'-137.7' Quartz veining with a fair amount of pyrite.	32625 32626	1.4' 3.7'	0.005 0.078	
			·			
		,				
			*			
			:			
	<u> </u>	Ta.	//		<u>' </u>	

SIGNED.



PROFILE SECTION D.D.H.'S 82-11 & 82-12

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY

Shaw Twp., Ont.

SCALE: 1 " = 40"

Thurston Feb 26/82

D. D. HOLE NO. 82 - 13

PAGE 1

PROPERTYGONGANDA RESOURCES INC. -Carshaw Property

TEST

LOCATION Shaw Twn., Ont.-Claim P8299 COLLAR: LAT. 270 S on B. L. 70 T. of B. L.

Surface

N 720 W BEARING_

minus 450

STARTED Mar.1,1982. COMPLETED Mar. 2,1982 Barron D.D. CORE SIZE BOWL

ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result
0	24 '	CASING			oz.Au/ton
24*	31.7'	BASIC VOLCANICS Bleached siliccous rock containing up to $\frac{1}{2}$ " size amygdules.	:		
1.7'	68*	TRON FORMATION From 31.7'-37.7' is a sulphide phase.From 37.7 to 44.3' is an oxide phase.From 44.3' to 48' is fine grained amygdaloidal lava. From 48'to 59' is an oxide phase with up to 1" magnetite bands and little pyrite.From 59'-65' is a sulphide phase, and 65'-68' is silicified			
		banded rocks. SAMPLES: From 31.7'-36.7' Small fault on rusty zone between 31.7'-33.7'and quartz banding with a fair amount	32601	5.0	0.110
		of pyrite. From 36.7'-40' Some quartz banding with pyrite. Some magneteite. At 37.4' is a rusty fault zone.	32602	3.3'	0.016
		From 40'-44' Banded magnetite with small amount of pyrite.	32603	4.0	0.024
		From 48'-53' Banded magnetite with	32604	5.0	trace
		some pyrite. From 53'-58' As above plus quartz	32605	5.0'	0.005
	:	at 54.5 % 55.9 with some pyrite. From 58'-62' Banded magnetite and quartz(to 1") with a fair	32606	4.0'	0.010
		amount of pyrite. From 62'-64.7' 6" quartz + pyrite 1.4' syenite, 8"quartz + pyrite	32607	2.7	0.036
68 *	102'	BASTC VOLCANICS Bleached amygdaloidal lava with amygdules up to 意" size. SAMPLE: From 77.7'- 82.7' quartz veining of 1"to 6" widths with fair pyrite.	32603	5.0'	0.005
02'	124'	BASIC VOLCANICS As above, but not bleached and normal. At 102 and 107'-109' and 123' there is brilliant green fuchsite sections. At 124' is a rusty v fault. SAMPLE: At 103'-105.1' Quartz veins 103'-104' with fair pyrite.		2.1'	0.005

JACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

PROPERY GOWGANDA PESCHEGES INC. -Carshaw Property

PAGE _____2

ROM	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY Result
		The rock from 102'-124' contains wide (up to 18") bands of tuff and narrow sulphide bands			oz.Au/ton
24	137'	BASIC VOLCANICS Fine grained bleached amygdaloidal lava rocks SAMPLE: From 131.4'-134' quartz in fractures containing some pyrite.	32610	2.6'	trace
	137'	END OF HOLE.	,		
				: :	

SIGNED.

' N 72° W IRON FORMATION VOLCANICS BASIC -100' -200' BASE LINE

PROFILE SECTION D.D.H. 82-13

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY

Shaw Twp., Ont.

SCALE: | " = 40'

Skwiller Man. 15/82.
J. G. WILLARS MAR. 1982

PROPERTY GONGANDA PRODUPCING INC. -Carshaw Property

TEST

PAGE 1

Shaw Twp., Ont.-Claim P 8299 LOCATION_ 385' S.on B.L. 194' E of B.L. COLLAR: LAT. Surface

227 DEPTH OF HOLE STARTED Mar. 3,1982 COMPLETED Mar. 6,1982 DRILLED BY Barron D.D. BQWL

N 720 W BEARING_ minus 400

ELEV._

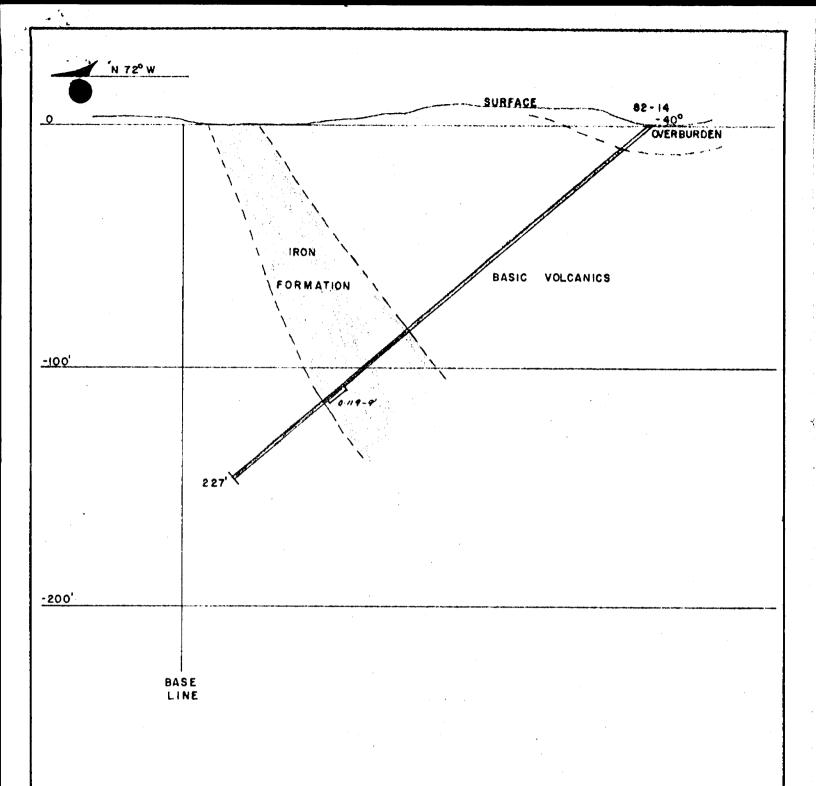
DIP	reminus 40°								
ROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result				
0	16'	CASING	,		oz.Au/ton				
.61	54'	BASIC VOLCANICS Dioritic type volcanic rocks, hard, medium grained mottled rock sealed with irregular quaseams in incipiently breciated fracturing from 16'-40' Rusty fractures as occurr near surface SAMPLES: From 45'- 45,7' Quartz vein with some pyrite. From 48'-50.4' Carbonate vein with			trace 0.005				
Up •	117'	some pyrite. BASIC VCLCANICS As in previous holes. This rock grades into a fine grained amygdaloidal laws with some amygd up to ½" in size. Regular rock with very little fracturing. SAMPLES: From 60'-62.6' Quartz-carbonate vein with fault.Pyrite From 64.3'-65.5' Quartz vein with some pyrite and a fault.	e 32613	2.6'	0.004 trace				
17'	132'	BASIC VOLCANICS As above, but bleached by silica alteration.							
32 '	197'	From 132'-145.3' is quartz banding with sulphic banding at 80° to the core axis. From 154.3'-147' is bleached amygdaloidal lava. From 147'-169' is the oxide phase with magnetite bands at 45° to the core axis, but some at 5° showing severe contortion. From 149'-150' is pink feldspar. From 169'-174' is the oxide phase mainly and some quartz and sulphide banding. From 174'-197' is alternating bands of tuff ad bleached silicified amygdaloidal lava. SAMPLES: From 132'-137' quartz bands with pyrito. From 137'-142' quartz bands with pyrite bands.	32615 32616	5.0' 5.0'	0.072				
-		From 142'-145.3' quartz bands and fair amount pyrite bands plus a porphyry dike at 145'. From 147'-152' 1"-3" quartz bands	32617	3.3' 5.0'	0.004				
		with very poor pyrite.							

JACK G. WILLARS, B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

GOWGANDA RESOURCES INC.-Carshaw Property

PAGE _

PRO			1731			
ROM	то	DESCRIPTION	SAMPLE NO,	CORE LENGTH	ASSAY Result	
		From 152'-157! Some magnetite banding with fair amount pyrite banding.	32619	5.0	oz Au/ton	
	:	From 157'- 162' Magnetite banding with	32620	5.0	0.016	
		poor pyrite. From 162'-167' Magnetite banding and quartz and pyrite banding.	32621	5.0'	0.006	
		From 167'-172' quartz bands up to 1" wide with fair pyrite.Some magnetit banding.	32622 e	5.01	0.117	
		From 172'-176' quartz banding with fair pyrite.	32623	4.0	0.122	
97'	227'	PASIC VOLCANICS Dark green, fine grained, hard, matrix with 4 " size amygdules plus minor quartz veinlets.		·		
	227'	END OF HOLE.	·			
	,					
÷						
					,	
				·		
				:		
	,					
		l .	<u> </u>	<u> </u>	<u> </u>	



PROFILE SECTION D.D.H. 82-14

GOWGANDA RESOURCES INC.

CARSHAW GOLD PROPERTY
Shaw Twp., Ont.

SCALE: | " = 40 '

Javillars Mar. 1982 J. G. WILLARS MAR. 1982

DIAMOND DRILL LOG

haw Twp., Ont.-Claim F13814

D. D. HOLE NO. 82 - 15

PAGE 1

PROPERTY GOWGANDA PESCURCES INC. - Carshaw Property

TEST

DEPTH OF HOLE 407'

STARTED Mar. 6.1982

COMPLETED Mar. 8.1982

DRILLED BY Barron D.D.

CORE SIZE BOWL

COLLAR:	LAT.	2850'N on B. L.
	DEPT.	325' T of P. L.
		Surface
BEARING.		N 720 W
DIP		minus 75°
U.,		

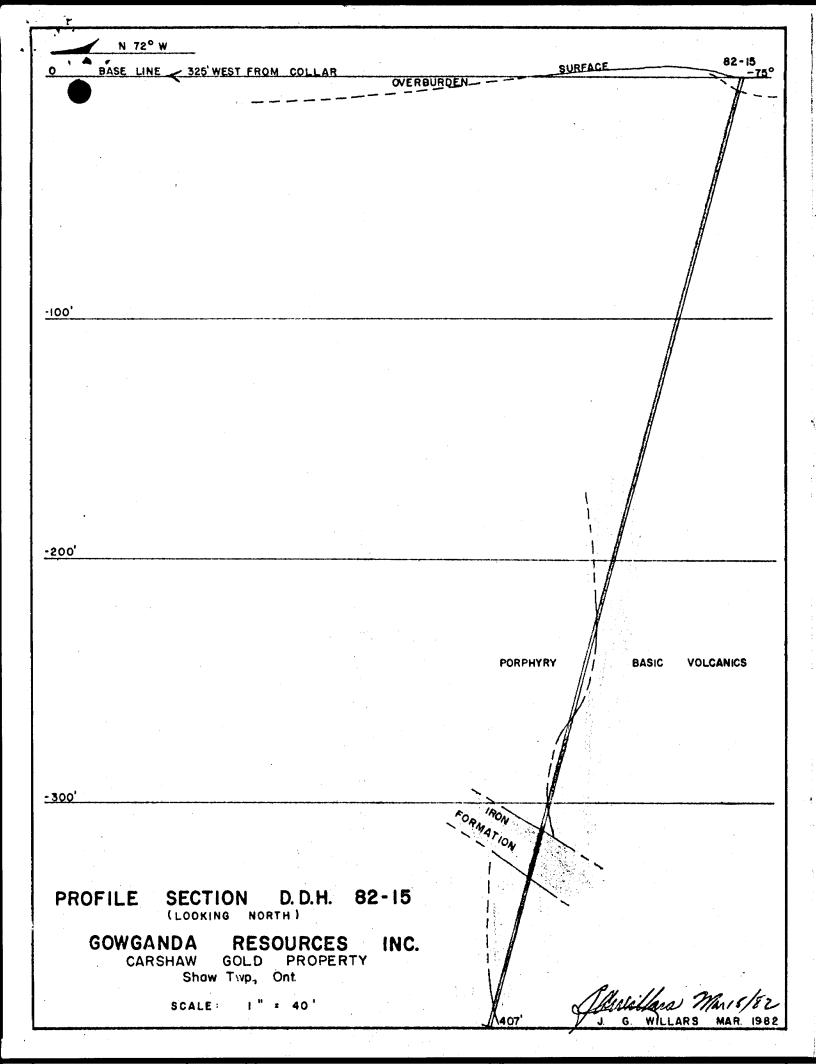
ROM	то	DESCRIPTION	SAMPLE No.	CORE LENGTH	ASSAY RESULT
0	6'	CASING			oz.Au/ton
6*	176'	BASIC VOLCANICS From 6'-21' is contorted alteration of medium grained dioritic lava rocks. At 17' - 8" quar with fuchsite and sulphide oxidation. Rock grades from 21'to100' to a medium green coloured fine grained matrix containing sparse amygdules up to 1" size and minor quartz intrusions. From 100'-176' grades into simila rock type with alternating fine grained and coarse grained phases, and with irregular sections of banding-?pillows.	tz		
76'	227'	BASIC VOLCANICS As in previous holes- a green matrix with amygdules and irregular quartz veinlets. At 176' 6" rusty irregular banded fault. At 187.5'-189.5' Altered sheared section. From 217'-227' is a light coloured grey, bleached rock as the above.			
127	275	PORPHYRY Light grey colour, very hard, fine grained rock with 1/8" white feldspar phenocrysts.			
175	312'	EASIC VOLCANICS As above - amygdular, but bleached by porphyry			
12!	320'	PORTHYRY Fresh looking porphyry rocks as above with sharp contacts at 35° to the core axis.			
1201	321 '	BASIC VOLCANICS			
321 *	339'	As above. IRON FORMATION From 321'-325.5' is contorted quartz banding and minor magnetite bands. Fault at 322'. From			
		325.5'-327' is a narrow porphyry band. From 3 - 330.5'is banded amygdaloidal lava with 6" taconite at 327.5'. From 330.5'-339' is taconite banded at 80° to the core axis.	۲7 '		

Soutillar

PROPERTY GOWGANDA RESOURCES INC. -Carshaw Property

PAGE.

ROM -	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
		SAMPLES: From 321'-325' Quartz banding with minor pyrite and minor magnetite	32651	4.0	0.005
		From 325'- 330.7' Popphyry and lava	32652	5.7'	trace
		plus 6" fuchsite quartz and pyri From 330.7'- 335' Taconite plus minor pyrite 50% magnetite and	32653	4.3'	0.005
٠		50% quartz. From 335'-339' taconite with 70% magnetite - little or no pyrite.	32654	4.0	0.005
		From 339'-342' bleached and pyritize wall rock.	132655	3.0'	trace
339 ¹	401'	BASIC VOLCANICS Bleached amygdaloidal lava with minor irregula pyrite near the cohtact.	r		
101 '	407'	FORPHYRY Fine grained, light grey, very hard rock containing 1/8" size amygdukes.			
	407'	END OF HOLE.			
					·
					·
				•	
•					
			·		
				·	
				e e	
			•		
	 			<u> </u>	L.,





Bell - White analytical laboratories Ltd.

HAILEYBURY, ONTARIO

Certificate of Analysis

NO.

16977

DATE: August 5, 1982

SAMPLE(S) OF:

Rock(6)

RECEIVED: August 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

you new aid northy road

Sample No.	Oz. Gold	Oz. Silver
F33551	0.050	0.03
F33552	0.082	0.04
F33553	0.008	Trace
F33554	0.010	0.02
F33555	0.042	0.04
F33556	0.026	0.02



Temiskaminy Testing Laboratories P.O. Box 799 Presley St. Cobalt, Ontario

Tel: 679-8313

Report Number

CB 5844

Laboratory Report

Date July 26, 1982.

Issued To: Gowganda Resources Inc., c/o Jack Willars, Box 160, 127 Lakeshore Ave.,

New Liskeard, Ont	•				
Sample Number	Gold Oz. Per Ton	Gold Value Per Ton	Silver Oz. Per Ton		
Lot "A"	0.058				
#B#	0.068				
"C"	0.059				
ıı Dıı	0.026		:		
	llt.	1002	·		
	JUL 2				
"Samples may be contamina	ted in r	egards t	o silver	content."	
				·	

Fees Received Charged Invoice #02225.

DL Lavabron Manager



Bell - White analytical laboratories Ltd.

P.O. BOX 187,

Certificate of Analysis

NO.

10658

DATE: July 21, 1982

SAMPLE(S) OF:

Core(20)

RECEIVED: July 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

5 0.389** 6 0.225**	Sample N	<u>0z. Gold</u>
6 0.225* 7 0.631* 8 0.227* 9 0.012 F33520 0.022 1 0.002* 2 0.018 3 0.002* 4 0.006 5 0.010 6 0.006 7 0.066 7 0.066 7 0.066 7 0.010 9 JUL 2 9 1982 0.018 F33530 JUL 2 9 1982 0.002*		0.209**
8 0.227* 9 0.012 F33520 0.022 1 0.002* 2 0.018 3 0.002* 4 0.006 5 0.010 6 7 0.365* 8 JUL 2 9 1982 0.018 F33530 JUL 2 9 1982 0.002*	6	0.225**
9 0.012 0.022 1 0.002* 2 0.018 3 0.002* 4 0.006 5 0.010 6 0.010 7 0.365* 8 JUL 2 9 1982 0.018 9 JUL 2 9 1982 0.018		0.631**
F33520 1 0.022 0.002* 2 0.018 3 0.002* 0.006 5 0.010 6 7 0.006 7 8 JUL 2 9 1982 0.018 0.018 p.002*		
2 0.018 3 0.002* 4 0.006 5 0.010 6 0.006 7 0.006 7 0.040 9 JUL 2 9 1982 0.018 F33530 JUL 2 9 1982 0.002*		
3 4 0.002* 0.006 0.010 0.006 7 8 9 JUL 2 9 1982 0.040 0.040 0.018 0.018	1	
9 F33530 0.006 0.010 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.010 0.006	2	
5 6 7 8 9 JUL 2 9 1982 0.018 9.002*	4	
7 8 9 JUL 2 9 1982 0.365* 0.040 0.018 0.002*	- 5	0.010
F33530 JUL 2 9 1982 0.002*		
F33530 JUL 2 9 1982 D.018 p.002*		
1111	9	1111
	F33530	1111.
2	2	
3 0.006	3	

- * Estimated.
- ** Checked.



Bell-White analytical laboratories Ltd.

Certificate of Analysis

15985

DATE:

July 19, 1982

SAMPLE(S) OF:

Core(18)

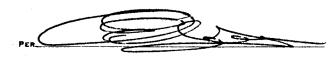
RECEIVED: July 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold	Sample No.	Oz. Gold
F32996	0.024	F33505	0.002*
7	0.014	6	0.002*
8	0.155**	7	0.048
9	0.062	8	0.032
F33000	0.032	9	0.006
F33501	0.016	F33510	0.036
2	0.187**	1	0.026
3	0.014	2	0.002*
4	0.054	3510	0.256**
		4657111	

Estimated.

Checked.





HITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

Certificate of Analysis

NO.

15651

DATE:

July 13, 1982

SAMPLE(S) OF:

Core(5)

RECEIVED:

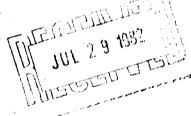
July 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold
F32991	0.048
2	0.002 *
3	0.026
4	0.206 **
5	0.020

Estimated.

Checked.



BELL-WHITE ANALYTICAL LABORATORIES LTD.

ACCORDANCE WITH LONG ESTABLISHED NORTH RICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED ERWISE GOLD AND SILVER VALUES REPORTED ON SE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Bell-White analytical laboratories LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

Certificate of Analysis

15175

DATE:

July 7, 1982

SAMPLE(S) OF:

Core(32)

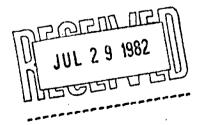
RECEIVED: July 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

F32953 0.117** F32975 0.158** 4 0.002* 6 0.600** 5 0.002* 7 0.002* 6 0.082 8 0.002* 7 0.002* 9 0.066 8 0.046 F32980 0.099*** 9 0.014 1 0.002* 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066 4 0.016 F32990 0.087**	Sample No.	Oz. Gold	Sample No.	Oz. Gold
5 0.002* 7 0.002* 6 0.082 8 0.002* 7 0.002* 9 0.066 8 0.046 F32980 0.099** 9 0.014 1 0.002* F32966 0.004 2 Trace 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	F32953	0.117**	F32975	0.158**
5 0.002* 7 0.002* 6 0.082 8 0.002* 7 0.002* 9 0.066 8 0.046 F32980 0.099** 9 0.014 1 0.002* 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	4	0.002*	6	0.500**
6 0.082 8 0.002* 7 0.002* 9 0.066 8 0.046 F32980 0.099** 9 0.014 1 0.002* F32966 0.004 2 Trace 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	5	0.002*	7	
8 0.046 F32980 0.099** 9 0.014 1 0.002* F32966 0.004 2 Trace 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	6	0.082	8	
8 0.046 F32980 0.099** 9 0.014 1 0.002* F32966 0.004 2 Trace 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	7	0.002*	9	0.066
9 0.014 1 0.002* F32966 0.004 2 Trace 7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	8	0.046	F32980	
7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	9	0.014	1	
7 0.014 3 0.002* 8 0.022 4 0.010 9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	F32966	0.004	2	Trace
9 0.012 5 Trace F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	7	0.014	3	
F32970 0.002* 6 0.166** 1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	8	0.022	4	0.010
1 0.002* 7 0.056 2 0.367** 8 0.002* 3 0.024 9 0.066	9	0.012	5	Trace
2 0.367** 8 0.002* 3 0.024 9 0.066	F32970	0.002*	6	0.166**
3 0.024 9 0.066	1		7	0.056
	2	0.367**	8	0.002*
4 0.016 F32990 0.087**	3		9	0.066
	4	0.016	F32990	0.087**

* Estimated.

** Checked.



ACCORDANCE WITH LONG-ESTABLISHED NORTH RICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED ERWISE GOLD AND SILVER VALUES REPORTED ON SE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENDER FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Bell - White analytical laboratories Ltd.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO.

14968

DATE:

July 1, 1982

SAMPLE(S) OF:

Core(8)

RECEIVED: June 1982

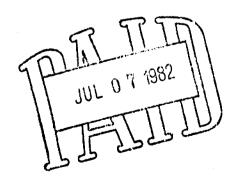
SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold
F32945	0.002*
6	Trace
7	0.002*
8	0.002*
9	0.002*
F32950	0.094
1	0.271 **
2	0.002*

* Estimated.

**Checked.



ACCORDANCE WITH LONG ESTABLISHED NORTH RICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED ERWISE GOLD AND SILVER VALUES REPORTED ON SE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Bell - White analytical laboratories LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

Certificate of Analysis

NO.

14883

DATE:

June 29, 1982

SAMPLE(S) OF:

Rock(18) Sludge(5)

Sample No.

RECEIVED:

Oz. Gold

June 1982

SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines Ltd.

F3	2922 3 4
	2922 3 4 5 6 7 8 9
ra	/ y.au
	3 4 5 6
7 TTM F3	1 2 3 4 5 6 7 8 9
101 01 085 III	2 3 4
	Estimated.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Checked.

ACCORDANCE WITH LONG-ESTABLISHED NORTH RICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED ERWISE GOLD AND SILVER VALUES REPORTED ON SE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENFOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Bell - White analytical laboratories Ltd.

P.O. BOX 187,

HAILEYBURY, ONTARIO

Certificate of Analysis

NO. 14634

DATE:

June 23, 1982.

SAMPLE(S) OF: Core(21)

RECEIVED: June 1982,

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold	
F32901	0.016	
2	0.012	
3	0.179*	
4	0.130*	
. 5	0.036	
6	Trace	
7	0,002**	
8	0.036	
9	0.028	
F32910	0.016	
1	Trace	
2	Trace	
3	Trace	
4	Trace	ल गण
5	0.222*	
6	0.002**	9 []
7	0.022	JUL 0 7 1982
		II JUL " II
. 8	0.091	11
9	0.026	
F 32920	0.062	المالم المالمال
1	Trace	سے کت

Checked. Estimated.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

ACCORDANCE WITH LONG-ESTABLISHED NORTH RICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED ERWISE GOLD AND SILVER VALUES REPORTED ON SE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENDE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Bell - White analytical laboratories LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO.

14011

DATE:

June 4, 1982

SAMPLE(S) OF:

Rock(31)

RECEIVED:

June 1982

SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold	Sample No.	Oz. Gold
F32829	Trace	F32845	0.070
F32830	0.060	6	0.010
1	0.008	7	0.702 *
2	0.026	8	0.012
3	1.49 *	9	0.018
4	0.147 *	F32850	0.026
5	0.133 *	1	0.351 *
6	0.139 *	Ž	0.036
7	0.056	· 3	0.028
8	0.086	4	0.032
ğ	0.135 *	5	0.076
F32840	Trace	6	0.088
1	0.006	Ž	0.030
2	Trace	8	Trace
3	Trace	9	0.002 **
4	0.120 *		3,002

- * Checked.
- ** Estimated.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PIR



Bell - White analytical laboratories Ltd.

P.O. BOX 187,

Certificate of Analysis

NO.

14005

DATE: June 1, 1982

SAMPLE(S) OF:

Rock (28)

RECEIVED: June 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	UZ. GOIA	Sample No.	UZ. Gold
F32801	0.351**	F 32 815	0.124**
2	0.002*	6	0.014
3	Trace	7	0.008
4	Trace	8	0.014
5	Trace	9	0.022
6	Trace	F32820	0.002*
7	Trace	1	0.002*
8	Trace	2	0.002*
9	Trace	3	0.006
F32810	0.002*	4	0.012
1	0.018	5	0.106**
2	0.008	6	0.062
3	Trace	7	0.032
4	0.181**	8	0.024

- Estimated.
- Checked.



Bell - White analytical laboratories LTD.

P.O. BOX 187

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO.

13836

DATE:

May 21, 1982

SAMPLE(S) OF:

Rock(23)

RECEIVED:

May 1982

SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold
F32741	0.020
2	0.239 *
3	0.178 *
4	0.062
3 4 5 6	0.225 *
6 .	0.056
7	0.036
8	0.578 *
9	0.342 *
F32750	0.028
1	0.157 *
2	0.064
2 3	0.008
4	0.008
4 5 6	0.022
	Trace
7	0.074
8	0.006
9	0.012
F32760	0.018
1	0.072
2 3	0.026
3	0.059

* Checked.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER ESTA



Bell - White analytical laboratories Ltd.

Certificate of Analysis

NO.

13534

DATE:

May 19, 1982

SAMPLE(S) OF:

Rock(44)

Sample No.

RECEIVED:

May 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	UZ. GOTU	Sample NO.	UZ. GOIA
F32697	0.046	F32719	Trace
8	0.070	F32720	0.002*
9	0.115**	1	0.284**
F32700	0.016	2	0.544**
1	0.064	3	0.220**
2	0.028	4	0.064
3	0.052	5	0.330**
4	0.052	6	0.005
5	0.022	7	0.012
6	0.032	8	0.048
7	0.062	9	0.124**
8	0.359**	F32730	0.024
9	0.016	1	0.008
F32710	0.010	2	0.026
1	0.117**	3	0.096
2	0.008	4	0.032
3	0.042	5	0.012
4	0.034	6	0.020
5	0.002*	7	0.002*
6	0.002*	8	0.018
7	0.006	9	0.006
8	0.006	F32740	0.010

Estimated.

Checked.



P.O. BOX 187.

HAILEYBURY, ONTARIO

Certificate of Analysis

NO.

13263

DATE:

May 12, 1982

SAMPLE(S) OF:

Rock(39)

RECEIVED:

May 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Hines Ltd.

Sample No.	Oz. Gold	Sample No.	Oz. Gold
F32658	0.014	F32678	0.014
9	0.006	9	0.028
F3266 0	0.006	F32680	Not legible
1	Not legible	1	0.002 *
2	0.018	2	0.002 *
3	0.002 *	3	0.016
4	0.012	4	0.092
5	0.064	5	0.002 *
6	0.373 **	6	0.002 *
Ž	0.042	7	0.006
8	0.048	8	0.002 *
ğ	Not legible	9	0.002 *
F32670	0.202 **	F32690	0.006
1	0.120 **	l	0.074
2	0.032	2	0.030
3	0.068	3	0.008
4	0.008	. 4	0.036
5	0.006	5	0.002 *
6	0.138 **	6	0.012
Ž	0.640 **	A.	0.008
•		В.	0.008
		C.	0.010

- Estimated.
- Checked.

BELL-WHITE ANALYTICAL LABORATORIES LTD.



P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO.

12199

DATE: April 30, 1982

SAMPLE(S) OF:

Rock(2)

RECEIVED: April 1982

SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.

Oz. Silver

F32656

0.870 *

F32657

0.062

* Checked.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER SES



P.O. BOX 187.

Certificate of Analysis

5887

DATE:

March 12, 1982

SAMPLE(S) OF:

Core(31)

RECEIVED:

March 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold	Sample No.	Oz. Gold
F32601	0.110 *	F32617	0.004
2	0.016	8	0.022
3	0.024	9	0.066
4	Trace	F32620	0.016
5	0.005	1	0.006
6	0.010	2	0.117 *
7	0.036	3	0.122 *
8	0.005	4	0.005
9	0.005	5	0.005
F32610	Trace	б	0.078
1	Trace	F32651	0.005
2	0.005	2	Trace
3	0.004	3	0.005
4	Trace	4	0.005
5	0.072	5	Trace
6	0.030 DAT	E RECEIVED MAR 18 1847	7
* Checked.	100 100	CKED FOR PASSES OF THE PROVIDE FOR PASSES OF THE PASSES OF	
			-

DUE #

BELL-WHITE ANALYTICAL LABORATORIES LTD.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE. FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



P.O. BOX 187.

TEL: 672-3107

Certificate of Analysis

NO.

4609

DATE:

March 1, 1982

SAMPLE(S) OF:

Core(13)

RECEIVED: February 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Oz. Gold
0.024
2.55 *
0.005
0.005
0.040
0.062
0.032
0.005
0.008
0.005
0.005
0.44 *
0.024

Checked.

CHECKED FOR ACCURACY APPE OVE DATE OPICQUE / 000158

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Certificate of Analysis

4164

DATE: February 23, 1982

SAMPLE(S) OF:

Core(7)

RECEIVED: February 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold
F32579	0.005
F32580	0.005
F32581	0.285
F32582	0.50
F32584	0.065
F32585	0.125
F32586	Trace

* Checked.



P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO.

4163

DATE: February 22, 1982

SAMPLE(S) OF:

Core(7)

RECEIVED: February 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gol
F32572	Trace
3	0.01
4	0.02
5	Trace
6	Trace
7	Trace
8	Trace

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER.



P.O. BOX 187

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO.

3796

DATE:

February 12, 1982

SAMPLE(S) OF:

Core(2)

RECEIVED:

February 1982

SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.

Oz. Gold

F32570

Trace

F32571

Trace

BELL-WHITE ANALYTICAL LABORATORIES LTD.





Certificate of Analysis

2916

DATE:

February 2, 1982

SAMPLE(S) OF:

Core(4)

RECEIVED: January 1982

SAMPLE(S) FROM:

Mr. J. G. Willars, Gowganda Silver Mines

Sample No.	Oz. Silver
32508	0.07
32510	0.07
32511	0.06
32513	0 16

BELL-WHITE ANALYTICAL LABORATORIES LTD.



P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 2677

DATE: January 29, 1982

SAMPLE(S) OF:

Core(15)

RECEIVED: January 1982

SAMPLE(S) FROM: Mr. J. G. Willars, Gowganda Silver Mines Ltd.

Sample No.	Oz. Gold
32501	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	0.06 *
9	Trace
32510	0.175 *
1	0.33 *
2	0.03
3	0.195 *
4	Trace
5	Trace

* Checked.

PER.

PROPERTY GOWGANDA RESOURCES INC. - Carshaw

PAGE 1

LOCATION Shaw Twp., Ont. Claim P1 3814 collar LAT. 298'S on Surface B. L.

DEPT. 162'E of Surface B.L.

125' Level

S 54° E

0° - Flat

TEST

DEPTH OF HOLE 901 STARTED June 18, 1982. COMPLETED June 19, 1982. Barron D.D. EXT

FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
0	9.6"	BASIC VOLCANICS Altered by bleaching. Amygdules present. SAMPLE: From 6.2'-7'= Quartz fracturing with pyrite.	32901	0.8*	0.016 Au
9.6'	15'	IRON FORMATION Magnetite bands. SAMPLES: From 10'-12'= Quartz fracturing with pyrite and some magnetite. From 12'-15'= Quartz veining with pyrite and magnetite banding.	32902 32903	2 ° 3 °	0.012 Au 0.179 Au
15"	16.2	BASIC VOLCANICS Light green with fine grained amygdules. Very fine seams. SAMPLE: From 15'-16.2'= Volcanics - barren.	32935	1.2'	0.005 Au
16.2°	21.2'	IRON FORMATION SAMPLE: From 16.2'-21.4'= Bands of iron at 60° to core axis. Impure, incipiently brecciated quartz-carbonate. Pyrite from 18'-20'.	32904	5.2 '	0.130 Au
21 ، 2 '	26.5°	BASIC VOLCANICS Very contorted contact.			
26.5	53 '	IRON FORMATION Very contorted. Occasional banding at 0° to core axis. Narrow bands of volcanics interbedded.			
		SAMPLES: From 26.5'-31'= Contorted iron formation. Fine grained pyrite for 2' at start. Banding at 0 to core axis.	32905	4.5*	0.036 Au
		From 31'-36'= Iron formation with banding at 0 to core axis.	32906	5°	Tr. Au
		From 36'-41'= Banded iron formation a 45° to core axis. 8" horse volcanic at 38'. Sparse pyrite.	t32907 s	5 †	0.002 Au
		From $41^{\circ}-45^{\circ}=$ Iron bands at 60° to	32908	4.	0.036 Au
		core axis. Sparse pyrite. From 45'-50.5'= Quartz plus pyrite in altered volcanics.	32909	5.5 '	0.028 Au
		From 50.5'-53'= 12" iron formation plus pyritized volcanics.	32910	2.5	0.016 Au
		11.	//		

PROF	GO GO	WGANDA RESOURCES INCCarshaw	PAG	SE	2
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
		HOLE NO. 82-U-1 Cont'd.			oz.Au/ton
53'-	90'	BASIC VOLCANICS 53'-64'. Quartz veining plus pyrite. 64'-90'. Bleached core. Coarse grained amygdul up to $\frac{1}{4}$ ". Iron formation from 74.5'-75' and from 77.4'-78'.	es		
		SAMPLES: From 53'-58.5'= Altered volcanics with 3% pyrite.	32911	5.5'	Tr. Au
		From 58.5'-64'= Altered volcanics with 3% pyrite.	32912	5.5	Tr. Au
,		From 74.5'-77'= Pyrite and volcanics plus iron formation.	32913	2.5'	Tr. Au
	90 '	END OF HOLE.			

	Colla Beari Dip	Dep. 151'E of Surface B.L. Starte	IOLE NO. ed Ju eted Ju 119'	ne 19,	1982.
0	47°	BASIC VOLVANICS Quartz-carbonate alteration. Bleached amygdule Brown ghosty bands at 45° to core axis. Splash of massive pyrite - pyrite cubes up to ½".	es. ies		
47'	87'	IRON FORMATION Banding from 60° varying to 35° to core axis interbedded with quartz bands. From 58'-63.5' is altered volcanics. Ground core from 59.5'-60.5'.			
:		SAMPLES: From 47'-51.5'= Banded iron formation at 45° to core axis plus pyrite.	32914	4.5'	Tr. Au
	:	From 51.5'-58'= Banded iron formation at 45° and 30° to core axis plus quartz and pyrite.	32915	6.5 '	0.222 Au
		From 58'-63.5'= Altered volcanics and possible pyrite. Ground core from 59.5'-60.5'.	32916	5.5*	0.002 Au
		From 63.5'-69'= Iron formation and altered volcanics plus quartz.	32917	5.5'	0.022 Au
		From 69'-7 6.2'= Banded iron formation at 35° to core axis and quartz plus	32918	6.3'	0.091 Au
		pyrite. Ground core from 75.2'-76'. From 76'-81'= Iron formation and altered volcanics plusquartz and pyrite.	32919	5 '	0.026 Au

GOWGANDA RESOURCES INC.-Carshaw

PAGE ______3

					
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	D.D.	HOLE NO. 82-U-2 Cont d.			oz.Au/ton
47'	87 †	IRON FORMATION SAMPLES: From 81'-87'= 50/50 iron formation and volcanics. Some quartz with pyrite.	32920	6°	0.062 Au
87 '	119'	BASIC VOLCANICS Ghosty bands at contact. SAMPLES: From 90'-95'= Altered volcanics plus	32921 32922 32923	5' 7.5' 1'	Tr. Au Tr. Au 0.005 Au
	119'	END OF HOLE.			

	Colla Beari Dip	r: Lat. 280'S on Surface B.L. D.D. HO Dep. 153'E of Surface B.L. Started ng S 64° E Complet 0° - Flat Depth	Jun	e 21, 1	982. 982.
0	34.9"	BASIC VOLCANICS Bleached or altered to a light grey colour containing amygdules with altered rims. Rusty seams at 8'. Ghosty banding at 60° to 70° to core axis. SAMPLES: From 17.8'-20'= Quartz veining with some pyrite. From 27.6'-29'= Quartz veining with some pyrite.	32924 32925	2.2* 1.4*	0.020 Au 0.066 Au
34.9'	73.6	IRON FORMATION Banding at very low angles to core axis in som sections, and at 45° to core axis in others; all showing contortions. Sections of volcanics from 42.4'-45' and from 63.1'-66.4'. From 50.1'-50.2' seams with scheelite were observed SAMPLES: From 34.9'-42.4'= Magnetite with some quartz fracturing and some pyrite. From 42.4'-45'= Volcanic dyke with some pyrite cubes.	•	7·5* 2.6*	0.014 Au 0.002 Au
		ת יעו	. 11	,	

The iller

PAGE _

FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT	
	D.D.	HOLE NO. 82-U-3 Cont'd.			oz.Au/ton	
34.9'	73.6'	IRON FORMATION SAMPLES: From 45'-55'= Magnetite with quartz veining from .1" to .5" wide. Fair pyrite.	32927	10*	0.044 Au	
		From 55'-63.1'= Magnetite with quartz	32928	8.1	Tr. Au	
		fracturing and some pyrite. From 66.4'-73.6'= Magnetite with quartz fracturing. Some coarse and fine pyrite.	32930	7.2'	0.002 Au	
73.6'	114'	BASIC VOLCANICS Light grey colour with fine grained amygdules. Ghosty bands at 50° to core axis. SAMPLES: From 78.6'-91.4'= Quartz veining with some fine and coarse pyrite	32931	12.8	0.002 Au	
		plus pyrrhotite. From 98.4'-99.05'= Quartz fracturing ½" to 1" wide with pyrite and some volcanics.	32932	0.65	Tr. Au	
	114 '	END OF HOLE.				

	Colla Beari Dip	r: Lat. 273'S on Surface B.L. D.D. HO Dep. 149'E of Surface B.L. Started ng N 58 E Complet 0° - Flat Depth	ed to 7	7" 3	une 23,1982 June 24,1982 July 4, 1982	
0	59·5 '	Light to medium grey colour with rounded amygdules, changing to a light grey colour. Sections of ghosty banding at 60° to 70° to core axis. Sections of amygdules suspiciously resembling pebbles - rims of all are altered with some carbonates (very fine effervescence). Pyrite cubes in quartz from 36'-38'. Sections of quartz veining and pyrite from 56'-59.5' and at 10° to core axis.	32933	2'	0.010 Au	
		SAMPLES: From 36'-38'= Quartz plus pyrite cubes in volcanics. From 56'-59.5'= Quartz plus pyrite cubes at contact.	32934	3.5'	0.006 Au	
59.5'	77'	BASIC VOLCANICS Well altered and bleached. Sharp contact at 10 to core axis. Medium grey, medium grained, schi	o stose.			
SIGNED Stavillars						

GOWGANDA RESOURCES INC.-Carshaw PROPER

PAGE ______5___

FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	D.D.	HOLE NO. 82-U-4 Cont'd.			OZ.Au/ton
77'	84.91	BASIC VOLCANICS Bleached volcanics with faint or ghosty bandin at 20 to 40 to core axis.	\$ 0		
84.9*	93•5'	IRON FORMATION Contorted banding and some banding at 45° to core axis.			
		SAMPLES: From 84.8'-89'= Taconite with quartz and pyrite. Tourmaline and scheelit present.	32986 e	4.2	0.166 Au
	,	From 89'-93.5'= Contorted bands of magnetite, quartz-carbonate plus pyrite.	32987	4.5	0.056 Au
93.5'	100.8	BASIC VOLCANICS With quartz stringers at low angles to core axis. Medium green colour - faint banding at very low angles to core axis.			
•		Sample: From 93.5'-96'= Volcanics with quartz plus pyrite and faint banding at low angles to core axis.	32988	3·5 '	0.002 Au
100.8	104'	IRON FORMATION Banding at 40° to core axis. Some quartz and pyrite.			
		SAMPLE: From 100.8°-104'= Iron formation at 40° to core axis with quartz and pyrite bands.	32989	3.2'	0.066 Au
104'	107.6'	BASIC VOLCANICS Bleached, with some pyrite. Sharp contact - 2" quartz vein at 40° to core axis. SAMPLE: From 104'-107.6'= Bleached volcanics with pyrite.	32990	3.6'	0.087 Au
107.6'	128'	BASIC VOLCANICS Porphyrytic lava. Hard, fine grained, white to grey rock with very fine grained phenocrysts. Bleached quartz-carbonate alteration with minor green fuchsite. Sparse one-eighth inch blebs or pyrite.	r		
	128'	END OF HOLE.			
	•	ai ai			

GOWGANDA RESOURCES INC.-Carshaw PROPER

PAGE 6

					
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	Colla Beari Dip	r: Lat. 277'S on Surface B.L. D.D. HO Dep. 151'E of Surface B.L. Started ng N 80°E Complet Plus 42° Depth	Jur	e 25, 1	oz.Au/ton 982 982
0	25'	BASIC VOLCANICS Medium grained, light grey rock. Some quartz- carbonate alteration. Fine grained to medium grained altered amygdaloidal lavas. Amygdules up to \(\frac{1}{4} \)" size with faint altered rims.		*.	
25'	44.5'	IRON FORMATION Bands of magnetite and quartz at 75° to core a SAMPLES: From 24'-29'= 25'-26' is taconite - balance is quartz plus pyrite plus possible volcanics. From 29'-34'= Quartz plus pyrite and sparse taconite at small angles to	xis. 32941 32942	5' 5'	0.020 Au 0.183 Au
		core axis. From 34'-39'= Minor magnetite bands at 75° to core axis. Balance is quartz plus pyrite. From 39'-43'= Magnetite bands at 80° to core axis. Quartz stringers and sparse pyrite. Quartz plus scheelit	32943 32944	5°	0.048 Au 0.005 Au
		at 42.5'. From 43'-44.5'= Iron plus quartz and fine pyrite at 45° to core axis.	32945	1.5	0.002 Au
44.5'	66 '	BASIC VOLCANICS With iron formation from 47'-48.5' and from 51'-51.5' and from 56'-57.5'. SAMPLE: From 44.5'-50.5'= Partly volcanics, partly iron banding at 45° to core axis.	32946	6 '	Tr. Au
	66'	END OF HOLE.			

PAGE 7

GOWGANDA RESOURCES INC. -Carshaw

PROPER							
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT		
		r: Lat. 369'S on Surface B.L. D.D. HO Dep. 173'E of Surface B.L. Started ng N 66° W Complet 0° - Flat Depth	Jun	e 28, 1			
0	23.2'	SAMPLES: From 0-6'= Iron formation at 45° to core axis plus quartz and fine pyri From 6'-8'= Light grey cherty bands	32947 te. 32948	6' 2'	0.002 Au 0.002 Au		
		at 60° to core axis. Little or no pyrite. From 8'-10.5'= Little pyrite in iron formation at 60° to core axis. Regular banding.	32949	2.5	0.002 Au		
		From 10.5'-15'= 3 to 5% pyrite in quartz-carbonate in iron formation at a 60° angle to core axis plus some contortion. Banding is faulted From 15'-19.5'= 3 to 5% pyrite (large	32950	4.5	0.094 Au 0.271 Au		
		cubes) in quartz carbonate. Section of volcanics from 16.7'-17.8'. From 19.5'-23.2'= Volcanic section from 19.5'-20.5' followed by iron formation banded at 30 to core axi with minor pyrite.	32952	3.7'	0.002 Au		
23.2'	41'	BASIC VOLCANICS Bleached, hard, light grey, altered mottled volcanic rocks with a few barren quartz-carbonate stringers.					
	41 *	END OF HOLE *******************					
9	Colla Beari Dip	r: Lat. 374'S on Surface B.L. D.D. HC Dep. 173'E of Surface B.L. Started ng S 80° W Complet 0° - Flat Depth	Jun	e 28, 1			
0	40 '	IRON FORMATION From 0-4.7' is very fine banding at 80° to core axis with narrow quartz and magnetite bands. Some glassy quartz plus pyrite. Altered bleached amygdaloidal lavas with ghosty bandinat 55° to core axis.from 4.7'-8.1'.					

SIGNED Therillers

GOWGANDA RESOURCES INC. - Carshaw

PAGE _____8

FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	D.D.	HOLE NO. 82-U-7 Cont'd.			oz.Au/ton
0-	40'	IRON FORMATION From 8.1'-13' magnetite bands at 75° to core axis that are faulted and chunky. Very broken up and ground core. Some quartz and pyrite. From 18.1'-22.3' is light green, fine grained, amygdaloidal lava. There is magnetite banding along the core near the end.			
		SAMPLES: From 0-4.7'= Quartz veining 1" to 4" wide with magnetite. Fair pyrite. From 8.1'-12.7'= Magnetite and some	32953 32954	4.7	0.117 Au 0.002 Au
		pyrite. 80% broken and ground core. From 12.7'-18'= Quartz veining. Fair pyrite from 12.7'-13.5'. From 13.5' 14.5' some pyrite. From 14.5'-18' some quartz fracturing-very little	32955 -	5.3*	0.002 Au
		pyrite. From 22.3'-27.3'= Magnetite banding. Quartz fracturing from .1' to 1' wide. Fair amount of fine and coarse pyrite.	32956	5 '	0.082 Au
		From 27.3'-32.3'= Magnetite banding.	32957	5 '	0.002 Au
		Quartz fracturing. Some fine pyrite From 32.3'-36.5'= Magnetite banding and quartz veining from 1' to 1'	32958	4.2	0.046 Au
		wide. Some pyrite. From 36.5'-40'= Magnetite banding with quartz veining from .1' to 1.5 wide. Some pyrite.	32959	3.5'	0.014 Au
40'	52'	BASIC VOLCANICS Bleached rock with dark green mottles of chlorite. From 43'-44' is a section of iron formation at 30° to core axis. Hole finishes in sugary quartz with minor pyrite.			
	52 '	END OF HOLE.			
		94,			

Ilwi

GOWGANDA RESOURCES INCCarshaw		PAG	SE	9	
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
		r: Lat. 206'S on Surface B.L. D.D. HO Dep. 70'E of Surface B.L. Started ng N 42°E Complet 0°-Flat Depth	Jun	e 30, 1	982.
0	14.8	BASIC VOLCANICS Medium hard to hard schistose, very light grey rock. Very altered volcanics.			
14.8	714 °	IRON FORMATION From 15'-20' sparse magnetite bands with quart carbonate bands at 40° to core axis. From 16.5 18' there are narrow bands of chalcopyrite. From 16'-18' there are pyrite cubes. From 20'-24' is quartz plus pyrite plus pyrrhotite. At 26' is a rusty fault, vuggy with pyrite and quartz at 30° to core axis. At 28.5' there is a 1" pyrrhotite band with quartz. From 31'-32' the banding is contorted. There is 12" of ground core from 36'-37.5'. Seams at 43'-44'. In the remainder of the hole the banding is at 45° to core axis. SAMPLES: From 14.8'-19.8'= Some magnetite banding with quartz veining from .1' to 1.2' wide. Good pyrite. From 19.8'-24.8'= Little magnetite with quartz veining from .5" to 1.5' wide. Fair pyrite. From 24.8'-29.8'= At 25.5' is a fault at 30° to core axis followed by contorted banding. Quartz plus mino pyrite. From 29.8'-36'= Contorted banding wit quartz-carbonate and minor pyrite. Fault at 31'. 12" of ground core at 36'-37'. From 37'-41'= Average banding at 45° to core axis plus some contortion. Quartz plus pyrite. From 41'-44'= Average banding at 45° to core axis with some contorted quartz plus pyrite.	32966 32967 32968 1. h32969	5' 5' 6.2'	0.004 Au 0.014 Au 0.022 Au 0.012 Au 0.002 Au 0.002 Au
44 *	52'	BASIC VOLCANICS Light grey, medium hard, with fine grained amygdules.			
	52'	END OF HOLE.			

SIGNED.

PROPER GOWGANDA RESOURCES INCCarshaw			PAG	E1	0
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY Result
	l i	r: Lat. 138'S on Surface B.L. D.D. HO Dep. 69' E of Surface B.L. Started ng s 87° W Complet 0° - Flat Depth	Jul	82-U-9 y 1, 19	
0	9•5 *	IRON FORMATION From 4'-5' is a fault zone. The section from 5'-9.5' is faulted and contorted with some volcanic fragments. SAMPLES: From 0-4'= Banded iron formation at 70° to core axis. Quartz and pyrite From 4'-9.5'= Iron formation plus faulted sections.	32972 • 32973	4° 5·5°	0.367 Au 0.024 Au
9.5*	281	BASIC VOLCANICS From 9.5'-11.3' are rusty faulted sections bleached to light grey colour - amygdaloidal l with barren quartz stringers. SAMPLE: From 9.5'-11.3'= Rusty, faulted volcanic rock.	avas 32974	1.8'	0.016 Au
	28 •	END OF HOLE.			

	Colla Beari Dip		Jul	y 2, 19 y 2, 19	82.
0	8.5	IRON FORMATION With faulting from 4.5'-8.5'. SAMPLES: From 0-4.5'= Magnetite iron formation at 45° to core axis. From 4.5'-8.5'= Heavy pyrite in banded sections.	32975 32976	4.5°	0.158 Au 0.600 Au
8.5*	25.5	BASIC VOLCANICS Ground core from 11.5'-14' and from 16.5'-18'. SAMPLES: From 8.5'-11.5'= Volcanics with fuchsite. From 14'-19.5'= Rusty, vuggy, fault section. Ground core from 16.5'-18'	32977 32978	3' 5.5'	0.002 Au 0.002 Au
	25.5'	END OF HOLE.			

PAGE ______11

				_	
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
					oz.Au/ton
	Colla	r: Lat. 138'S on Surface B.L. D.D. HO Dep. 69' E of Surface B.L. Started		82-U-11 y 2, 19	82.
	Beari	ng S 66° W Complete			
	Dip	0°- Flat Depth)1		
0	9 '	IRON FORMATION Contorted iron formation with quartz plus pyrite. Some banding at 60° to core axis. SAMPLES: From 0-3.5°= White quartz banding	32979	3.5'	0.066 Au
,		with magnetite at 80° to core axis. Some pyrite.			
		From 3.5'-6'= Heavy pyrite in iron formation.	32980	2.5'	0.099 Au
		From 6'-9'= Iron formation with quartz plus pyrite.	32981	3'	0.002 Au
9'	31'	BASIC VOLCANICS From 11'-17' is rusty, vuggy faulting, quartz plus pyrite. Ground core from 13.2'-16.5' and from 16.5'-17'.			
		SAMPLES: From 9'-11.7'= Volcanics. From 11.7'- 13.2' is ground core.	32982	2.7	DR. Au
		From 13.2'-16.5'= Faulted volcanics with quartz and pyrite.	32983	3.3'	0.002 Au
	31 '	END OF HOLE.			

	Colla	r: Lat. 135'S on Surface B.L. D.D. HO dep. 78' E of Surface B.L. Started	LE NO.	82-U-12	82.
	Beari Dip		ed Jul	y 3, 19	₿2 .
0	18'	BASIC VOLCANICS Bleached. From 0-2.5° there are quartz stringe plus minor pyrite. From 14.5°-17° is a rusty fracture zone with pyrite.	rs		-
		SAMPLES: From 0-2.5'= Quartz veining plus mino	r32984	2.5	0.010 Au
		quartz. From 14.5'-17'= Rusty fracture zone with pyrite	32985	2.5 '	Tr. Au
18'	65 °	BASIC VOLCANICS Mottled green/white, amygdaloidal lava. From 24.5'-35' is rusty fracturing and from 56'-56. is barren quartz.	5'		
		· •			

65' END OF HOLE.

NED____

GOWGANDA RESOURCES INCCarshaw				ε1	2
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	Colla Beari Dip	r: Lat. 225'S on Surface B.L. D.D. HO . 106'E of Surface B.L. Started ng N 51°E Complet 0°-Flat Depth	Jul	y 5, 19	82.
0	2.8	BASIC VOLCANICS Bleached white/light grey, fine grained amygda Faint banding at 45° to core axis. Last 12" is rusty looking.	loidal	lava	
2.8'	21'	BASIC VOLCANICS Light to dark green colour with ghosty banding or incipient schist at 45° to 60° to core axis Some quartz-carbonate alteration. Minor fuchsi and chlorite. Occasional round quartz remnants Ground core from 20.5'-21'.	te	·	
21'	44 °	BASIC VOLCANICS Bleached, altered volcanics. Possible fault at contact at 21'. From 40'-41' is oxidized fuchsite plus alteration. Ground core from 41'-44'.			
44 *	56'	BASIC VOLCANICS Dark green lava with very fine grained amygdules.			
56 '	115'	LAMPROPHYRE Fine grained, chilled contact grading to mediu grained, crystaline, white feldspar in dark green matrix plus fine graimed mica. From 88.6'-88.9' is a section of quartz plus pyrite plus chlorite plus magnetite with a contact at 35' to core axis. A section from 99.5'-99.8'= same as 88.6'-88.9'. Bottom contact grading from 97'-115' is very fine grained with quartz plus pyrite.			
115'	154 °	BASIC VOLCANICS Dark green with irregularly spaced ¼ white amygdules. From 115'-116' is a rusty, red, vuggy zone. Magnetic. Possible fault. At 118' there is pyrite plus quartz plus magnetite. From 120'-121' is another rusty, vuggy zone. Possibly another fault.			
	154'	END OF HOLE.			

PROP	ER GO	WGANDA RESOURCES INCCarshaw	PAG	E1	3
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
		Dep. 15' W of Surface B.L. Started	LE NO. Jul ed Jul 28'	y 8, 19	82.
0	23.1'	IRON FORMATION SAMPLES: From 0-5'= From 0.1'-0.5' is quartz. Remainder is fine grained, grey chert with pyrite cubes to ½" and minor magnetite bands at 45 to con axis. Some white chert.	32991 re	5 '	0.048 Au
		From 5'-10'= White and grey chert with minor volcanic bands. Faint banding at 45° to core axis. Pyrite cubes up to $\frac{1}{4}$ ".		5'	0.002 Au
		From 10'-15'= Quartz plus volcanic bands at 45° to 60° to core axis. 1.5% pyrite. From 11.5'-12' is a rusty, vuggy fault.	32993	5'	0.026 Au
		From 15'-20'= Broken core. Cave. Cher quartz plus glassy quartz and 1.5% pyrite. Possible minor sphalerite and scheelite. Ground core from 15.8'-17.3'.	32994	5'	0.206 Au
		From 20'-23.1'= Sugary, cherty, quart banding with glassy quartz at 60' to core axis. 1.5% pyrite.	232995	3.1'	0.020 Au
23.1'	28'	BASIC VOLCANICS Bleached, fine grained, amygdaloidal volcanics	•		
	28'	END OF HOLE.			

		r: Lat. 237'N on Surface B.L. D.D. HO Dep. 16' W of Surface B.L. Started ng S 43° E Complet 0° - Flat Depth		y 9, 19	82.
0	22 *	BASIC VOLCANICS From 0-6' is bleached, fine grained, amygdalog lavas. Ground core from 1'-4'. There is a rust fault at 6'. From 6'-9.3' is glassy quartz plupyrite. From 9.3'-12.1' is bleached lavas. From 16'-22' is light grey, bleached lava.	ty 18		

SIGNED_

14

GOWGANDA RESOURCES INC.-Carshaw PAGE . PROPER SAMPLE CORE то DESCRIPTION LENGTH RESULT NO. FROM oz.Au/ton D.D. HOLE NO. 82-U-15 Cont'd. 221 BASIC VOLCANICS 0 0.024 Au SAMPLES: From 6'-12.1'= Volcanics. Some pyrite 32996 6.1 0.014 Au 3.9" From 12.1'-16'= Glassy quartz with minor pyrite banding at 35' to core 32997 axis. Minor magnetite. 22' END OF HOLE. ******* D.D. HOLE NO. 82-U-16 Collar: Lat. 213'N on Surface B.L. July 12, 1982. Dep. 19' W of Surface B.L. Started S 45° E 0° - Flat Completed July 12, 1982. Bearing 23' Depth Dip 0 20.21 IRON FORMATION At 0' glassy, opaque quartz with one-sixteenth inch visible gold. From 1.7'-3.5' is a fault zone with 2' of ground core. SAMPLES: From 0-7'= Quartz plus pyrite plus minor magnetite at 45 to core axis From 7'-12'= Quartz plus pyrite and 7' 0.155 Au 32998 5 1 0.062 Au 32999 minor magnetite. Splashes of lava rocks. 5 8 From 12'-17'= Sugary and glassy quartz 33000 0.032 Au plus pyrite. Fault at 14'. 0.016 Au From 17'-20.2'= Quartz veining with 3.2' 33501 minor pyrite and magnetite. 231 BASIC VOLCANICS 20.2' Bleached, fine grained, amygdaloidal lavas. Contact at 45° to core axis. 231 END OF HOLE. ***********

SIGNED.

PROP	G C	WGANDA RESOURCES INCCarshaw	PAG	SE15	
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	Beari	Dep. 6' W of Surface B.L. Started	LE NO. l Jul led Jul 14'	y 12, 1	982.
0	10°	IRON FORMATION SAMPLES: From 0-5'= Quartz with minor pyrite and magnetite banding at 45° to core axis. Some banding at 70° to core axis. Faults at 2.5' and 3.3'. From 5'-10'= Quartz with minor pyrite		5' 5'	0.187 Au 0.014 Au
10'	14 °	bands at 45° to core axis. BASIC VOLCANICS Altered lava section - faint banding at 45° to core axis.			
	14 *	END OF HOLE.			
	Colla Beari Dip		LE NO. Jul ed Jul 23'	y13, 19	82.
0	13.25'	IRON FORMATION SAMPLES: From 0-5.5'= Magnetite and quartz banding at 40° to 45° to core axis plus up to \(\frac{1}{4}\)" cubes of pyrite. From 0-1.2' is a fault zone.	33504	5.5	0.054 Au
		From $5.5'-10.5'=$ Sugary and glassy quartz bands. Some magnetite and pyrite cubes up to $\frac{1}{4}$ ". From $10.5'-13.25'=$ Quartz with chlori	33505 te	5*	0.002 Au
		spotting and minor pyrite. Incipiently banded lava. breccionted	33506	2.75'	0.002 Au
13.25'	23'	BASIC VOLCANIC LAVAS.			
	23'	END OF HOLE.			

IED SOU

PAGE _____16_

rkor	7		T	T T	
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
	Colla Beari Dip	nr: Lat. 195'N on Surface B.L. D.D. HO Dep. 17' W of Surface B.L. Started ng S 63° E Complet O° - Flat Depth	Ju]	82-U-19 y 13, 1 y 13, 1	982.
0	18.2	IRON FORMATION SAMPLES: From 0-4'= Quartz and magnetite banding at 50° to core axis with minor pyrite.	33507	4.	0.048 Au
	:	From 4'-8'= Minor magnetite bands and sugary quartz at 50° to core axis. Minor pyrite.		4.	0.032 Au
		From 8'-12.5'= Sugary quartz plus fine grained pyrite. Fault at 11'. More pyrite from fault, east. From 12.5'-18.2'= Quartz-pyrite banding at 45° to 60° to core axis. Contorted with light grey, bleached lavas at 45° to core axis.	33509	5.7	0.006 Au 0.036 Au
18.2'	21 "	BASIC VOLCANICS Bleached, light grey, fine grained, amygdaloidal lavas.			
	21 "	END OF HOLE.			

		r: Lat. 133'N on Surface B.L. D.D. HO Dep. 15' E of Surface B.L. Started ng S 69° E Complet 0° - Flat Depth	l Jul	82-U-20 y 14, 1 y 14, 1	982.
0	11.3°	IRON FORMATION SAMPLES: From 0-2'= Banding at 35° to 45° to core axis. Some quartz and pyrite in bleached lavas.	33511	2 *	0.026 Au
		From 2'-5.5'= Altered lavas with pyrite cubes. Banding at 40° to	33512	3.5'	0.002 Au
		core axis. From 5.5'-11.3'= Slightly magnetic. Quartz and pyrite banding at 45 to core axis.	33513	5.8'	0.256 Au
11.3	16"	BASIC VOLCANICS Ghosty banding in light grey, fine grained, an lava. From 14.5'-15' is an iron formation sect	nygdaloi Jion	dal	
		with angut and minera provide	· //		

16' END OF HOLE.

SIGNED.

PROP	EF GO	WGANDA RESOURCES INCCarshaw		PAG	ε1	7	
FROM	то	DESCRIPTION		SAMPLE NO.	CORE LENGTH	ASSAY RESULT	
	Colla Beari Dip	Dep. 6 E of Surface B.L. St	arted	Jul	82-U-21 y 14, 1 y 14, 1	982.	on
0	6 '	IRON FORMATION SAMPLE: From 0-6'= Magnetite and quartz banding at 45° to core axis. Mi pyrite except from 2'-3'= 7% py Contact at 80° to core axis.	nor rite.	33514	6 '	0.209 #	AU
6'	13*	BASIC VOLCANICS Light grey lavas with dark green chlorite	spot:	S.			
	13'	END OF HOLE.					

		Dep. 9' E of Surface B.L. St	arted	Jul	82-U-22 y 15, 1 y 15, 1	982.	
0	7.8'	IRON FORMATION SAMPLES: From 0-4'= Magnetite and quartz banding. Some pyrite. From 4'-7.8'= Sugary quartz with good looking pyrite.	5%	33515 33516	4' 3.8'	0.389 A	
7.8'	14'	BASIC VOLCANICS Typical.					
1	14'	END OF HOLE.					

		Dep. 18'E of Surface B.L. St	arted	Jul	82-U-23 y 15, 1 y 15, 1	982.	
0	15'	IRON FORMATION SAMPLES: From 0-5'= Quartz and magnetite banding at 80° to 0° to core a Good pyrite up to \(\frac{1}{4}\)" cubes.	ixis.	33517	5'	0.631 /	Au

0

IRON FORMATION

PAGE ______18 GOWGANDA RESOURCES INC.-Carshaw PROPER CORE SAMPLE FROM DESCRIPTION NO LENGTH RESULT oz.Au/ton D.D. | HOLE NO. 82-U-23 Cont'd. 15 Ò IRON FORMATION **5**' SAMPLES: From 5'-10'= Minor magnetite banding with ghosty quartz at 45° and 0° to 33518 0.227 Au core axis. Quartz-carbonate with pyrite and pyrrhotite. 51 From 10'-15'= Sugary quartz and magnetite at 45° to core axis. Minor pyrite. Contact at 45° to core axis. 0.012 Au 15' 251 BASIC VOLCANICS Light green, amygdaloidal lavas. 25 END OF HOLE. ************ D.D. HOLE NO. 82-U-24 Collar: Lat. 88'N on Surface B.L. Dep. 23 E of Surface B.L. July 15, 1982. Started 0° N 88 E Completed July 15, 1982. Bearing 14 Depth Dip 11.2 0 IRON FORMATION 5.5 0.022 Au 33520 SAMPLES: From 0-5.5'= Glassy quartz, minor magnetite. Some 4" pyrite cubes.
Minor pyrrhotite. Banding at 45° to core axis. From 5.5'-11.2'= Sugary and glassy 5.7 0.002 Au 33521 quartz with 4" pyrite cubes. Minor magnetite. 11.2' 14 BASIC VOLCANICS Light grey, fine grained, amygdaloidal lava. 14' END OF HOLE. ******** D.D. HOLE NO. 82-U-25 Collar: Lat. 74'N on Surface B.L. July 16, 1982. Dep. 28'E of Surface B.L. Started 0° - B Completed July 16, 1982. Bearing Depth 20 9 Dip

SAMPLES: From 0-4.2'= Quartz-carbonate veining 33522

plus minor pyrite cubes in lava section.

SIGNED (Wills

ACK G. WILLARS, B. A. SC., P. ENG.

4.2

0.018 Au

PAGE _______19

т т					
FROM	то	DESCRIPTION	SAMPLE NO.	CORE LENGTH	ASSAY RESULT
					oz.Au/ton
	D.D.	HOLE NO. 82-U-25 Cont'd.		·	
0	8.5*	IRON FORMATION SAMPLES: From 4.2'-8.5'= Quartz-carbonate veining with minor pyrite, magnetit and pyrrhotite.	33523 e,	4.3'	0.002 Au
8.5'	201	BASIC VOLCANICS Light grey, fine grained lavas with barren quartz veining. Pyrite cubes in the rock.			
	20'	END OF HOLE.		:	

	Colla Beari Dip	r: Lat. 62'N on Surface B.L. D.D. HO Dep. 21'E of Surface B.L. Started ng S 39' W Complet 0' - Flat Depth	Jul	y 16, 1	982.
0	27 '	IRON FORMATION SAMPLES: From 0-5'= Magnetite banding with sugary and glassy quartz at 45° to flat to core axis=contorted. 2.5% pyrite. From 0-2' magnetite, minor pyrite. From 2'-5' is quartz with	33524	5'	0.006 Au
		good pyrite. From 5'-10'= quartz with minor pyrite from 5'-8.7'. From 8.7'-10' is magnetite and quartz banding at 45°		5 °	0.010 Au
:		to 0° to core axis. Minor pyrite. From 10'-15'= Magnetite at contorted angles from 10'-12.5'. From 12:5'- 15' is quartz plus 2.5% pyrite and some pyrrhotite.	33526	5 '	0.006 Au
		From 15'-20'= Quartz plus magnetite banding at 40 to 60 to core axis.	33527	5 *	0.365 Au
		3% pyrite - good looking section. From 20'-27'= Quartz plus magnetite banding. Good pyrite from 25'-27'.	33528	7'	0.040 Au
27	281	BASIC VOLCANICS Light grey, fine grained, amygdaloidal lavas.			
	28 '	END OF HOLE.			
	<u> </u>		1	<u> </u>	<u> </u>

SIGNED.

JACK G. WILLARS, B. A SC., P. ENG.
CONSULTING MINING GEOLOGIST

PAGE ___ 20 GOWGANDA RESOURCES INC. - Garshaw PROPEH CORE SAMPLE ACCAV DESCRIPTION FROM TO LENGTH RESULT NO. oz.Au/ton 42'N on Surface B.L. D.D. HOLE NO. 82-U-27 Collar: Lat. Started July 16, 1982. 32'E of Surface B.L. Dep. 0° - 34° E Completed July 17, 1982. Bearing 37 Depth Dip 6.9' 0 BASIC VOLCANICS Light grey lavas. A section from 2.3'-3.2' is silicified with pyrite. 6.9' 31 ' IRON FORMATION SAMPLES: From 6.9'-12'= Sugary quartz plus pyrite 5.1 0.018 Au cubes. Vuggy quartz-carbonate with 33529 pyrite and pyrrhotite. Trresularly From 12'-17'= Incipiently banded 5' 0.002 Au 33530 quartz - ghosty banding at 45° to core axis. Good pyrite and some pvrrhotite. 51 0.008 Au From 17'-22'= 30% glassy quartz with 33531 minor magnetite. Minor pyrite cubes and some pyrrhotite. 51 From 22'-27'= Banding mostly along core at 0 to 5 to core axis.

Quartz plus 3% pyrite plus 0.016 Au 33532 pyrrhotite and minor chalcopyrite. From 27'-31'= Quartz banding at 5° 4. 0.006 Au to 33533 core axis plus pyrrhotite and 5% pyrite. Minor lavas. Contact at 31' is at 30° to core axis. 37**°** 31 1 BASIC VOLCANICS Light grey, fine grained, amygdaloidal lavas. END OF HOLE. 37.

SIGNED.

JACK G. WILLARS. B. A. SC., P. ENG. CONSULTING MINING GEOLOGIST

