84 093

GEOTECHNICAL REPORT
ON THE 434796
WIDOW POINT CLAIMS GROUP
LICENSE NO. 8646
OUTLAND RESOURCES CORPORATION
SEPT/84 11F/04C D.FORGERON

84 · 093

OUTLAND RESOURCES CORPORATION

434796

GEOTECHNICAL REPORT
ON THE
WIDOW POINT PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

MAP REFERENCE II-F-4-C

EXPLORATION LICENSE NO. 8646

DUPLICATE AVAILABLE

SEPTEMBER, 1984

D. FORGERON, B.Sc.
GEOLOGIST

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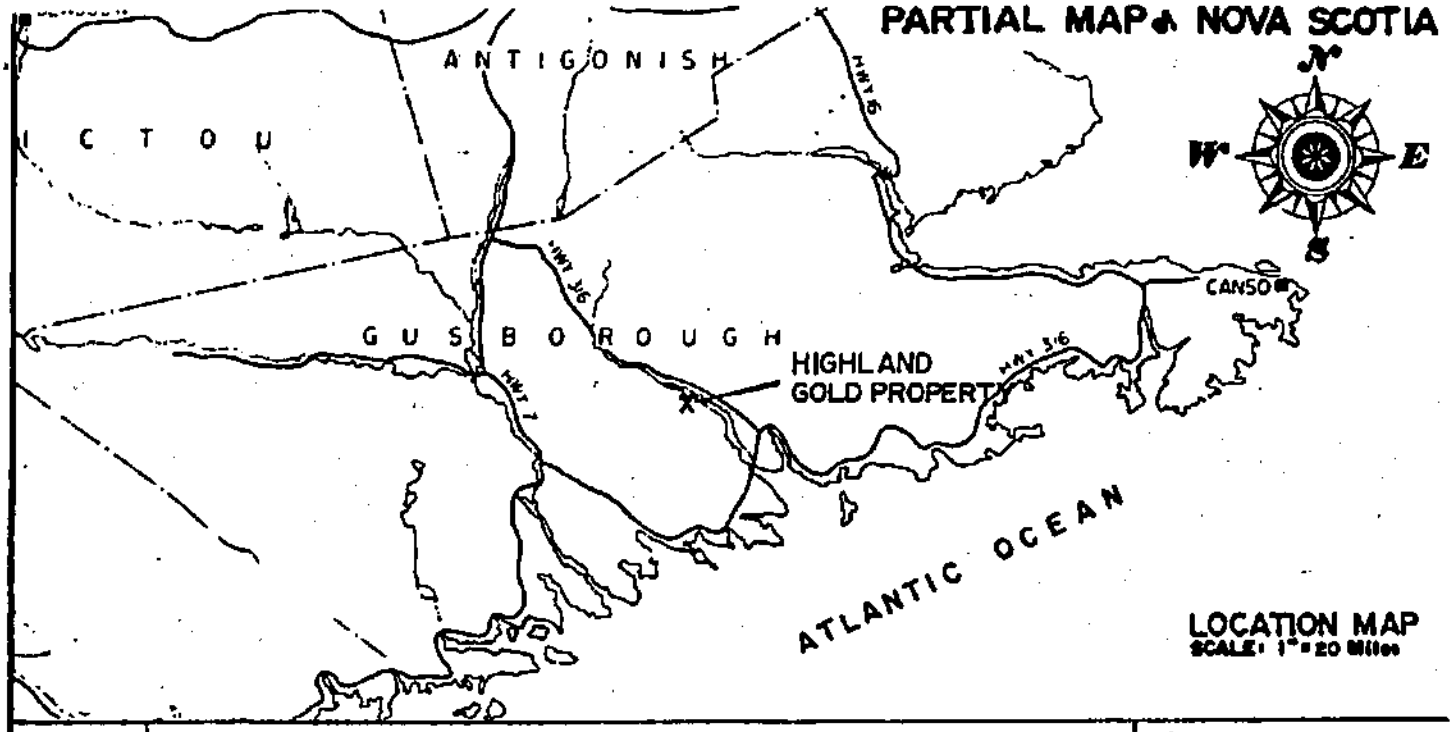

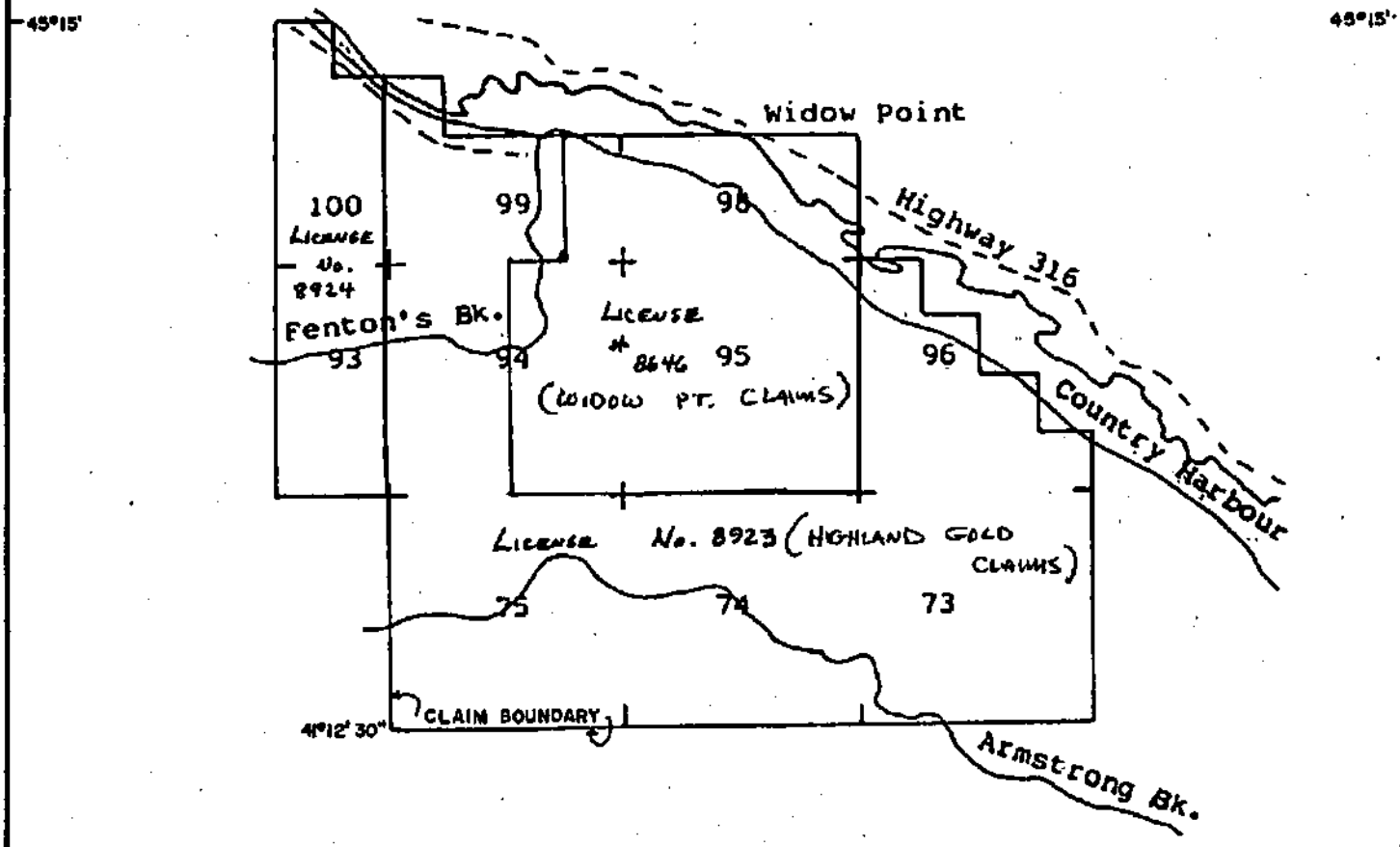

CLAIM MAP
HIGHLAND GOLD PROPERTY

OUTLAND RESOURCES CORP.
HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

DRAWN BY: OLIOBBSBODINGCOL	NTS 11-F-4-C	FIGURE NO. 1
DESIGNED BY:	SCALE: 1 : 50,000	
DATE / REVISION NOV. 1985		

INTRODUCTION

The following report describes work carried out over the Widow Point claims group of Outland Resources Corporation during the period of June I to October I, I983.

The Widow Point property is located approximately 40 kilometres south of the town of Antigonish, N.S. on the western side of Country Harbour (fig. I). The property consists of 34 contiguous claims held under exploration license No. 8646 acquired December I, I982 from MEX Explorations Ltd.

The greater portion of the property lies on a peneplane surface which is abruptly cut by Country Harbour, a fault controlled fiord. The steep slopes in the northern portion of the property descend to the harbour in several bench-like steps representative of probable ancient shorelines. The peneplane surface locally reaches elevations of I00-I25 m.a.s.l. The area is well drained with Fenton's Brook, on the western boundary, the major drainage system.

A mixed cover of birch, balsa fir, spruce, juniper and maple grow in uncommericial quantities. There is however evidence of past logging operations.

Till covers the property to depths of 2-I5 m. Previous operators had great difficulty in penetrating this cover, the result being that the property has remined largely unexplored to the present.

Keating (I948) suggests that the auriferrous zones found on on the property relate to the same anticline which hosts the gold at Johnson's Brook, 3 km. to the northwest. The left-hand movement of the Country Harbour fault has offset the zones to this extent.

This report describes the results of trenching, auger and diamond drilling and bulk sampling carried out by the company. Additional work envolving soil sampling, gradient magnetics and electromagnetics are discussed in the assessment report on the adjacent property (Lic. No. 8923) by Forgeron (I983).

PROPERTY STATUS

Refer to Map II-F-4-C

Tract	Claims	License No.	Expiry
94	A,B,G,H,J,K,P,Q	8646	Aug. I8, I984
95	ALL CLAIMS	"	"
98	A.B.C.D.E.F.G.H	"	"
99	A,H	"	"

GENERAL GEOLOGY

The claims group is underlain by greywackes and slates (and their metamorphic equivalents) of the Goldenville Formation. Graphite schists of the Halifax Formation underlie portions of the western section of the property to the immediate south of Fenton's Brook. The Bull Ridge granite pluton underlies the greater part of the western claims and is cut off to the east by the Country Harbour fault.

This granite is a coarse grained leucocratic variety and exibits a well developed foliation. Drilling to the east of the Highland shaft revealed a similiar variety of granite of undetermined dimensions.

A garnet-staurolite metamorphic facies overprints the sedimentary rocks of the area. A local greenschist facies is characterized by development of chlorite-talc-actinolite schist from slate. This low grade metamorphism is probably related to long continued movement along the Country Harbour fault. The more brittle greywackes exibit a "crackle" or pseudo breccia appearance as a result of this movement.

The Country Harbour fault and it's subsidiary structures have greatly affected rocks of the area. Left-hand movement of 3 km. has distorted the normally east-west trending rocks through 130 degrees to a northwestly direction.

The auriferrous structure at Widow Pt. is probably not on the same anticlinal structure as that hosting gold at Forest Hill and Cochrane Hill as previously thought. The airborne magnetic survey by Gordon Minerals Ltd. (1954) over the area suggests a correlation with the Stillwater-Moose River anticline.

Gold at Widow Pt. occurs in (1) white granular glassy quartz within chlorite schist bands (2) white granular to dark oily quartz with garnet and staurolite in chloritized greywacke and (3) as streaks in the chlorite schist. The gold is visible in the 1mm-3mm size range in quartz veins from 1mm - 2m. At least

two generations of gold are apparent. One generation is characterized by grains of gold near the quartz-schist and quartz greywacke contact. The next generation (or generations) of gold is marked by enrichment along chloritic cross fractures (pressure solution cleavage) where they cross quartz veins. Continued movement along the Country Harbour fault has probably mobilized the gold through a lengthly geological period and concentrated it in favorable dilatent zones such as drag folds and other flexures.

Pyrite, pyrrhotite, chalcopyrite, arsenopyrite, galena and sphalerite are common accessary sulfides present but generally in only minor amounts.

PREVIOUS WORK

The first recorded activity in the area was in I944-45 when Copper Gold Ltd. carried out prospecting and sampling. Diamond drilling, trenching, shaft sinking and limited milling were done in the vicinity of the Highland shaft during I946 - I949. Bulk sampling near the shaft returned 0.24 oz/ton gold from a 2m by 20m trench. Mill tests on I900kg. and 550 kg. samples ran 0.79 and 0.97 oz/ton gold respectively. A 5-stamp mill, erected in I949, treated 8 tons of selected ore from the I5-20 m. deep Highland shaft returned I.59 oz/ton gold.

The property was idle until Quebec Uranium conducted a limited drilling program in I980-8I. Two holes drilled by this firm gave inconclusive but generally poor results.

Outland Resources Corp. carried out a grid-controlled geochemical, geophysical and basal till sampling program over the property during the winter of I982-83. Results of this work were favorable and recommendations were made to extend the grid into the adjacent license area (Lic. No. 8923). Results of the expanded survey are discussed in the geotechnical report on this ground by Forgeron (I983).

CURRENT INVESTIGATIONS

The work described in this report froms part of an integrated exploration program over the Highland Gold-Widow Point properties entailing;

(I) Construction of 47 line km. of flagged grid at 200 x 50m
(2) Grid coverage by soil sampling-analysed for gold and arsenic.
(3) Electromagnetic and magnetic coverage
(4) Trenching
(5) Auger drilling for geological information (55 holes)
(6) Diamond drilling (I3 holes - I57I m)
(7) Bulk sampling of rock near the Highland shaft and Lynch showing.

The geotechnical report by Forgeron (I983) on License No. 8923 covers the results of programs I, 2, and 3. This report covers the remaining, more intensive, portions of this program.

RESULTS

(A) Trenching

In an attempt to obtain structural lithological information a two phase program of trenching was completed.

Phase one involved the use of a Caterpillar excavator with a depth capability of 7 m. Previous basal till sampling (1982) indicated an overburden cover of 3-5 m. in the area of the shaft. Initial trenching and subsequent drilling indicated an overburden cover at least double that reported.

The first trench was dug 75 m. northwest of the shaft to investigate the northwestern extension of the Highland zone.

Bedrock was uncovered at a depth of 5-6 m. Detailed observeation of the exposure was impossible due to the influx of water and collaspe of the trench walls. However, bedrock was observed from the top of the trench to trend 135 degrees and dip 70-80 degrees SW. A number of pieces of quartz were broken from bedrock one of which showed visible gold and assayed 11.45 oz/ton gold. Continued trenching 30 m. to the northwest failed to expose bedrock. Two additional trenches were dug 140 m. to the southeast of the shaft but again were unsuccessful in reaching bedrock.

The second phase of trenching involved the use of a small rubber-tired backhoe to open old trenches. A 3m x 60m trench was reopened over the Lynch Showing. Several quartz veins were exposed, the thickest being 30 cm. Considerable arsenopyrite occurs in the quartz, but no sights of visible gold were reported. A 1 mm piece of gold was panned in the basal till near one of the quartz veins. A 20 m. long trench was opened near hole Auger 21, but failed to reach bedrock. Another trench was dug

near hole WP83-I where a good section of greywacke was exposed. No quartz veins of importance were observed, but several very small sights of gold were picked up during panning of the till here. Their source is obviously local in an upslope, south-southwesterly direction. Numerous pieces of quartz float were found in the adjacent stream some of which carry arsenopyrite.

Several trenches dug over the South Zone (Map 2) exposed a complex assemblage of granite, greywacke and graphite schist.

(B) Auger Drilling

A program of auger drilling was completed over the property to provide additional geological information to that obtained from the generally unsuccessful trenching program.

A track-mounted B47 auger drill was employed for this work. The work entailed drilling to bedrock with a hollow stem auger followed by insertion of BQ drill rods and extraction of a short length of bedrock. 57 holes were drilled with an aggregate length of 513.5 m.

Of this total 208.I m. of bedrock was cored. Excluding the two deep holes (Auger 3I-30.5m. and Auger32-76.6m) which are discussed in the following section on diamond drilling, the average length of core extracted from each hole was I.8 m. Geological logs of these holes are included in the appendix.

The two principal objectives of this program were to (I) define the granite-sediments contact in the vicinity of the Highland shaft and (2) investigate the strong geophysical ano-

malies outlined in the South Zone (I200-I400 metres south- south-west of the shaft). The equipment used was capable of drilling only vertical holes and therefore was not a practical tool for detection of generally steeply dipping gold quartz leads. Auger 3I and 32 were put down to confirm the good gold grades cut in drill holes WP83-3 and 6. The only auger hole to show visible gold apart from these two confirmatory holes was auger I where one small sight of visible gold was observed in a I cm. quartz vein at a depth of 5.0 m. An assay of this material showed no gold however.

The granite-sediments contact was successfully traced to the east of the Highlands shaft and the Lynch Showing. The extent of this granite is unknown, but there is some evidence to suggest that it underlies a good proportion of the western shoreline of Country Harbour as far south as Armstrong Brook. The granite is a well foliated coarse grained leucocratic variety similiar to the Bull Ridge pluton.

The strong magnetic-electromagnetic anomalies outlined in the South Zone were drilled (Auger 33-50) and found to be caused by a complex assemblage of graphite-pyrrhotite phyllite interfingered with granite of the Bull Ridge pluton. Grey-wackes of the Goldenville Formation were also encountered, but no significant quartz veining was found. The source of the high soil gold values as reported by Forgeron (I983) in this area was not traced to bedrock.

Auger holes 5I-57 were drilled to the immediate south of WP83-I to trace the source of numerous pieces of quartz float found in a nearby stream. Greywacke and minor schist were cut by holes 5I-53, but the foliation was sub-parallel to the core axis and therefore prevented a proper evaluation of this area by vertical drilling.

The electromagnetic anomaly located I80-200 m. southwest of WP83-I was drilled and found to be caused by graphite phyllites of the Halifax Formation. The Country Harbour fault traverses the area here and cuts off the granite pluton which underlies a large part of the property to the west.

(C) Diamond Drilling

I3 diamond drill holes were put down on the property with an aggregate length of I57I m. The drilling consisted of 2 NQ holes (WP83-I to WP83-II) and 2 BQ holes (Auger 3I and 32). Geological logs of these holes are included in the appendix.

WP83-I was spotted 300 m. west-northwest of the Highland shaft and drilled at -45 degrees to the northeast. This hole was put down to provide structural and

geological information as well as test the bedrock expression of anomalous basal till samples collected here in I982. The hole was drilled to a depth of 2IO.3 m. Visible gold was logged at a depth of I5.0 m. in a narrow quartz vein with associated minor arsenopyrite bordering the vein. A I metre section of this material ran 0.05 oz/ton gold. A 2.5 m. zone from 29.0-3I.5 m. assayed 0.047 oz/ton with no visible gold logged. The chlorite schist and greywackes cut in this hole appear to dip near vertically or steeply to the southwest. Most of the additional drilling was directed along a similiar orientation as WP83-I because of the favorable crosscutting attitude of the structure and quartz leads. Two favorable zones of quartz veining were intersected in this hole. The section from I4-33 m. contains 24 veins varying from Icm-30cm. in width and the section from I55-I65m shows I2-I4 veins with an average thickness of I cm.

WP83-2 was spotted 75 metres northwest of the Highland shaft and drilled at the same attitude as WP83-I. This hole was drilled to a depth of I42.7 metres. At least 50 quartz veins varying in width from Icm-I80cm were intersected in the upper IOO metres of this hole. In addition, numerous stringers of quartz occur in the chlorite schist bands. Visible gold was observed at the following locations; 38.5m-5 sights, 40.6m-6 sights and 88.9m-3 sights. Assays reported in excess of 0.0I oz/ton are as follows: IO.I-I2.Im (0.06 oz/ton), 40.0-43.0 (0.30 oz/ton), 46.3-48.3 (0.028 oz/ton), 80.8-8I.2 (0.35 oz/ton)

and 88.4-89.0 (0.I5 oz/ton). Favorable zones for gold occur at 35.0-50.0 m and 68.0-90.0 m. Below a depth of I00 m quartz veining is minimal as the influence of the underlying granite was cut in the bottom I5 metres of the hole.

WP83-3 and WP83-4 were drilled 50m northwest of WP83-2. Hole 3 was drilled to a depth of I42.4m at -45 degrees and hole 4 to a depth of I96.7m at -60 degrees.

Hole 3 cut the most significant gold mineralization encountered during the drilling program. Visible gold was reported from the following sections: 36.6m-I sight. 5I.9-I sight, 82.5 - I sight, 88.2 - 2 sights, 89.4-I sight, 90.5-I sight, 96.6- 3 sights, I00.7-I sight, I03.9-I04.5 - numerous sights and II8.0 - 2 sights. Assays reported in excess of 0.0I oz/ton are: 36.0-37.5(0.0I2 oz/ton), 39.0-40.5(0.0II oz/ton), 5I.5-53.0(0.024 oz/ton), 86.0-87.0(0.228 oz/ton), 89.5-90.9(0.0I8 oz/ton), 95.4-97.4(0.03I oz/ton), 97.4-99.4(0.0I5 oz/ton), I03.8-I06.I(0.293 oz/ton), and II7.5-I2I.5(0.0I2 oz/ton). More than 60 quartz leads were cut by this hole with widths of I cm-60cm. Numerous stringers of quartz also occur in the schist bands. Favorable zones for gold enrichment occur at the following intervals: 30.0-55.0 m. and 75.0-I20 m.

Hole 4 was drilled below hole 3 to check depth continuity of the auriferrous zones. In this hole visible gold was found at the following intervals: 68.2m-I sight, II4.I - I sight, I23.2 - 6 sights, I34.5 - I sight, I72.8 - 6 sights, I75.2 - 2 sights, I82.5 - I sight. Assays reported in excess of 0.0I oz/ton are: 22.0-25.I(0.02 oz/ton), 67.7-68.7(0.065 oz/ton),

II3.5-II4.3(0.049 oz/ton), I22.7-I23.7(0.I2I oz/ton), I23.7-I24.7(0.030 oz/ton), I33.9-I35.0(0.058 oz/ton), I72.5-I73.5 (0.870 oz/ton), and I8I.9-I82.8(0.023 oz/ton). Almost 200 quartz veins varying in width from Icm-70cm were cut by this hole. Favorable zones in this hole occur at the following intervals: 57.0-85.0 m, 95.0-I05.0 m, II3.0-I40 and I60.0-I90.0 m.

Hole WP83-5 was drilled 50m to the northwest of holes 3 and 4 to follow up the northwest extension of the mineralized zone, cut in the previous two holes. This hole was drilled to a depth of I83.8 m. Visible gold was observed at only one locality - I35.9m (2 sights). Assays reported in excess of 0.0I oz/ton are as follows: I2I.3-I22.5(0.04 oz/ton) and I33.0-I34.0(0.03 oz/ton). Results from this hole were disappointing although several lengthy sections of core were lost above and below the zone with visible gold. The core was lost due to core barrel problems and not due to poor ground conditions. Favorable zones of quartz veining occur at 8I.0-I05.0 m and I20.0-I40.0 m.

Holes WP83-6 and 7 are located 30m northeast of hole 3. These holes were drilled to investigate the up-dip grade of mineralization cut by holes 3 and 4. Hole 6 was drilled to I3I.6m at -45 degrees along a 040 degree bearing and hole 7 was drilled to I35.Im at -45 degrees in an easterly direction. Visible gold was encountered in hole 6 at the following intervals: 37.6 - I sight, 43.0 - I sight, and 56.5 - I5 sights. Assays over 0.0I oz/ton are: 43.0-43.I(0.I55 oz/ton) and 56.5 - 56.6(I3.80 oz/ton). This hole confirmed the up-dip continuity of mineralization cut in holes 3 and 4. Hole 7 was drilled to check strike continuity of the zone towards the east.

Visible gold was reported from two sections of this hole: 29.6-2 sights and 38.8-I sight. Assays over 0.0I oz/ton are 29.6-29.7I(0.45 oz/ton), 38.73-38.80(0.0I4) and 72.8-73.5(0.040 oz/ton). The assay at 38.73m is almost certainly low. The hole confirmed however the presence of a strong series of quartz veins which host coarse gold in adjacent holes. Favorable sections cut include: 26.0-33.0 m.,, 38.0-43.0m, 56.0-79.0m and 87.0-97.0m. The lower 35 metres of the hole cut highly sheared greywackes and schists (similiar to hole 2) with the lowermost section being foliated leucocratic granite.

WP83-8 and 9 were drilled under the Highland shaft and the adjacent trench from which a bulk sample was extracted. No visible gold was found in these holes and no gold values of interest were detected by assaying.

Hole WP83-I0 was drilled to a depth of I06.7m at -60 degrees under the old workings near the shore and 350m northwest of the Highland shaft. No visible gold was seen in the core, but good quality quartz veining was cut in the following sections: 42.0-60.0m and 76.0-83.0m. The only significant assay reported was 0.03 oz/ton gold from the section 52.5-53.9m.

Hole WP83-II was drilled 95m north-northwest of hole 3 at -60 degrees to a depth of I3I.4m. Although no gold was seen in the core, an excellent sequence of quartz veins was cut at the following intervals: I6.0-46.0m and 52.0-80.0m. More than 90 quartz veins were cut varying in width from Icm-65cm. Numerous additional veinlets were also encountered in the chlorite schist bands.

Auger holes 3I and 32 were drilled vertically into the gold-bearing zone cut by holes 3 and 6. These holes were put down to confirm the grades of the zone. An exceptionally rich quartz vein was encountered in Auger 3I at a depth of I3.4m. This I5cm vein assayed 66.3 oz/ton gold. Visible gold was also observed at I6.5m in a 30cm vein and assayed 0.22oz/ton over the interval I6.46-I7.07m. The section 20.43-2I.95 returned an assay of 0.042 oz/ton with no visible gold reported. Auger 32 was drilled 5 metres south of 3I. This hole cut an excellent sequence of quartz veins with visible gold at 22.4m-4 sights and 26.2m-I2 sights. Assays reported are remarkably low with values of 0.08 oz/ton over the interval 22.4-23.4 and 0.II0 oz/ton over the interval 26.2-27.I.

(D) BULK SAMPLING

50 tons of ore were extracted from a trench dug to the immediate west of the Highland shaft. This material was put through the company's mobile gold mill and a gravity concentrate produced. This was the first test by the mill and gave inconclusive results because the tailings were relatively high in gold. Assays of the heads gave highly variable results from trace to 0.4I oz/ton. The tailings ran from trace to 0.09 oz/ton gold. The concentrate returned a grade of approximately I oz/ton indicating a head of 0.02 oz/ton.

Approximately 5 tons of quartz and schist were tested from a trench over the Lynch Showing. Although a considerable amount of arsenopyrite was obtained in the concentrate, very little gold was recovered.

CONCLUSIONS

Work completed over the property strongly suggests the presence of economic quantities of gold. Past prospecting was unsuccessful due to the thick overburden cover. Diamond drilling 100 metres northwest of the Highland shaft resulted in the discovery of ore-grade mineralization in a number of leads from near surface to a minimum vertical depth of 140 metres. Four drill holes cut what appears to be an ore shoot carrying an average of 0.50 oz/ton gold over a width of 2.0 metres. The complete lack of outcrop precludes an evaluation of the structural conditions responsible for this enrichment. It appears probable that the ore is related to a flexure or drag structure of undetermined extent. Wide zones of quartz veining were cut along the strike of this probable flexure, but carry little visible gold. Further flexures or rolls along these zones are almost certainly present as gold has been panned in the soils and streams to the east and west of this area.

Auger drilling revealed the presence of a previously unmapped stock of granite to the immediate east of the Highland shaft. This granite is similiar to the Bull Ridge pluton and cuts off the eastern extension of the Highland Zone.

The strong magnetic and electromagnetic anomalies in the South Zones were investigated and found to be related to graphitic-pyrrhotitic phyllites of the Halifax Formation. The source of the anomalous soil gold values here was not traced to bedrock.

RECOMMENDATIONS

Further work is strongly recommended on the property. The orientation and dimensions of the ore zone cut by holes 3,4,6 and Auger 3I has not been defined and should be followed up by an intensive program of detailed diamond drilling and subsequent underground exploration. Excavation of overburden to expose the zone would probably be very expensive and environmentally undesirable.

The recommended program is two phase and directed to developing ore reserves on the property. Additional work on the South Zone and other areas of the property is of secondary importance, but should be included in a subsequent program of exploration.

Phase I involves detailed diamond drilling at I0-I5m. intervals in the vicinity of holes 3,4, and 6. 20-30 holes, 50-I00m. in length should be sufficient to outline the zone. Several deeper holes will be necessary to investigate depth continuity.

Phase 2 involves driving a 2m. x I.5m exploration tunnel from the old workings on the shore of Country Harbour 250m. to the ~~north~~ south east. This tunnel will follow the favorable structure and cut potential cross structures or flexures which probably host the mineralization discovered by drilling. About 2500 tonnes of rock would be removed during this work. Bulk sampling and milling of ore encountered is the only way of establishing a meaningful grade for this type of deposit. Revenue from the production of gold should partly offset the cost of this work. It is almost certain that the "jewellery box" effect common to this type of deposit will be encountered underground.

ESTIMATE OF COSTS - PROPOSED PROGRAM

Phase I Diamond Drilling

20-30 short holes - allow 2000m. at 75.00...I50,000.00

3 deep holes - allow 900m. at 75.00.....67,500.00

Total for phase I 217,500.00

Phase 2 Underground Exploration

250m. tunnelling and 50m. lateral

work - 300m. at I,500.00.....450,000.00

milling/bullion production..... 50,000.00

Total for phase 2..... 500,000.00

Ancilliary costs (office expenditures, transport, accommodation, surveying, reports, supervision).....I50,000.00

Total estimated cost..... 867,000.00

REFERENCES

I. Forgeron, D. (I983) Geotechnical Report on the Highland Gold Property of Outland Resources Corp. Map Ref. - II-F-4-C

2. Wright, J.F. (I946) Report on the Copper Gold Mines Ltd. Dept. of Mines and Energy, A.F. IIF/4C, 2I-G-07(07).

Sept/84

Consulting Geologist

APPENDIX I

DIAMOND DRILL LOGS

84 093

DIAMOND DRILL RECORD

NAME OF PROPERTY Wilson Pt.
HOLE NO. WP83-1 LENGTH 210.3 m.
LOCATION
LATITUDE 9816 DEPARTURE 1030E
ELEVATION 43.0 m AZIMUTH 040° DIP -45°
STARTED June 29/83 FINISHED July 1/83 Dropped Sept 14-16 (152m - 210.3m)

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	048°			
152 m	-40½°	048°?			
210.3m	-38°	048°?			

HOLE NO. WP83-1 SHEET NO. 1
REMARKS
LOGGED BY D. Fraserson

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE SIZE INCHES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL (m)	ASSAYS %	ASSAYS %	ASSAYS oz/TON	ASSAYS oz/TON	
0	7	Overburden										
7	15.3	Gabbro/Diorite: Schistose green-black. Banded cream 7.0-8.0	79351		7.0	8.0	1.0			0.001		
		8.3 – 1cm quartz vein @ 45° to c.a.										
		8.4-8.5 – Healed breccia with ½cm qtz veins (stretched - boudinaged) @ 40° to c.a.	79352		8.0	9.0	1.0			0.001		
			79353		9.0	10.0	1.0			0.001		
		10.65 – Granodiorite stock? Lenses										
		10.65 - 11.6 – Banded and sheared	79354		10.0	11.0	1.0			<0.001		
		11.2 – 1cm quartz vein	79355		11.0	12.0	1.0			0.001		
		11.6 - 12.6 – Spots of garnet and staurolite	79356		12.0	13.0	1.0			0.001		
		13.1 – Narrow quartz-carb. veinlets										
		13.9 – 1cm quartz vein @ 65° to c.a.	79357		13.0	14.0	1.0			<0.001		
		14.3 – 1cm quartz vein	79358		14.0	15.0	1.0			0.001		
		14.9 - 15.1 – 3 quartz veins (0.5 - 1cm wide)										
		V-G @ 15.0' - 1 right Aspy lenses 2-5 & 1cm barren vein.	79359		15.0	16.0	1.0			0.050		
		15.85 – 2cm quartz vein										
15.3	18.8	Chlorite schist:										
		15.6 - 16.3 – 4 quartz veins (2-5cm) @ 60° to c.a.; Fuchy diseem. Py + Cpy in veins	79360		16.0	17.0	1.0			0.010		
		16.5 - 16.6 – Quartz stringers										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wimco Point

HOLE NO. WPB3-1 SHEET NO: 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. DOES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS oz/ton	ASSAYS oz/ton	ASSAYS
		Chlorite schist:										
		16.6 - 17.7 - Broken & sheared										
		17.3 - 2 cm quartz vein										
		17.2 - 1½ cm quartz vein @ 35° to c.a.	79361		17.0	18.0	1.0			0.001		
18.8	19.7	Greywacke: Partly silicified - fine-medium grained.	79362		18.0	19.0	1.0			<0.001		
		19.4 - 19.7 - Milky quartz vein @ 45° to c.a.	79363		19.0	20.0	1.0			0.002		
19.7	20.5	Chlorite schist:										
		19.7 - 19.9 - 4-5 quartz veins (0.5-1cm thick) @ 40° to c.a.	79385		20.0	22.5	2.5			<0.001		
20.5	29.0	Greywacke:										
		22.1 - 22.3 - Quartz stringers										
		24.3 - 25.2 - Foliation @ 35° to c.a.	79386		22.5	24.0	1.5			<0.001		
		25.6 - 1 cm quartz vein @ 45° to c.a.	79387		24.0	25.5	1.5			<0.001		
		26.1 - 26.6 - Quartz - carbonate stringers	79388		25.5	28.0	2.5			<0.001		
		27.0 - 3cm wide shear band	79389		28.0	29.0	1.0			0.002		
29.0	31.5	Chlorite schist:										
		29.2 - 2cm quartz vein	79390		29.0	30.0	1.0					
		30.3 - 3cm quartz vein @ 15° to c.a.	79365		30.0	31.5	1.5	> 2.5		0.047		
		30.6 - 30.7 - Quartz stringers.										
31.5	38.3	Greywacke: Poorly chloritic. Commonly grey - silicic bands cut core. Foliation @ 45° to c.a.	79390		31.5	33.0	1.5			<0.001		
		33.0 - 3cm quartz vein @ 20° to c.a.	79391		33.0	34.5	1.5			<0.001		
		35.5 - 37.5 - (Lost core)	79392		34.5	35.5	1.0			<0.001		
38.3	40.6	Chlorite schist: Broken - No equigrant quartz veins	79393		37.5	38.5	1.0			0.001		
			79394		38.5	40.6	2.1			<0.001		
40.6	43.0	Greywacke: Chloritic	79394		40.6	43.0	2.4			<0.001		

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wawa Pt.

HOLE NO. WP82-1 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
43.0	45.0	Chlorite schist: Scattered ovulets of garnets. 44.7 - 45.4 - Quartz veinlets @ 30° to c.a. Minor Cpy/py/galena.
45.0	49.0	Greywacke: Chloritic. 46.4 - 5 cm quartz vein @ 40° to c.a.
49.0	49.6	Chlorite schist: 49.3 - 1 cm quartz vein
49.6	67.0	Greywacke: Highly chloritic. Locally siliceous minor shaley beds. 50.3 - 50.4 - Chlorite schist. 56.0 - 2 cm quartz vein @ 45° to c.a.
67.0	68.5	Chlorite schist: 67.6 - Fault gouge - 8 cm wide
68.5	69.2	Greywacke: 68.9 - 69.2 - Shaley band
69.2	70.1	Chlorite schist:
70.1	78.6	Greywacke: 71.2 - 71.7 + Narrow quartz stringers @ 45° Large flesh-colored garnets.
78.6	79.8	Chlorite schist: 78.6 - 78.9 - Narrow quartz stringers @ 45°
79.8	83.8	Greywacke:
83.8	85.1	Chlorite schist: Minor quartz stringers @ 83.0
85.1	88.3	Greywacke:
88.3	90.2	Chlorite schist: 88.7 - 5cm quartz vein with garnets and minor py.
90.2	94.4	Greywacke:

SAMPLE NO.	% SULPH IDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
79315		43.0	45.7	2.7			0.001	
79316		46.7	48.7	1.0			<0.001	
79317		46.7	48.0	1.3			0.001	
79318		48.0	49.0	1.0			<0.001	
79319		49.0	49.6	0.6			<0.001	
79320		49.6	50.5	0.9			<0.001	
19440		50.5	51.5	1.0			0.005	
19401		51.5	53.0	1.5			0.001	
19402		53.0	54.5	1.5			0.001	
19403		54.5	56.0	1.5			0.003	
19404		56.0	59.0	3.0			<0.001	
19405		59.0	62.0	3.0			<0.001	
19406		62.0	65.0	3.0			<0.001	
19407		65.0	67.0	2.0			<0.001	
79321		67.0	68.5	1.5			<0.001	
79322		68.5	70.0	1.5			<0.001	
19408		70.0	73.0	3.0			<0.001	
19409		73.0	76.0	3.0			0.001	
19410		76.0	77.5	1.5			<0.001	
19411		77.5	78.5	1.0			<0.001	
79330		78.5	79.8	1.3			0.003	
79412		79.8	83.0	3.2			<0.001	
79413		83.0	83.8	0.8			<0.001	
79331		83.8	85.1	1.3			<0.001	
79414		85.1	88.3	3.2			<0.001	
79332		88.3	90.2	1.9			<0.001	
79415		90.2	93.0	2.8			<0.001	

LANGPORDES = TORONTO = 366-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wheeo 74.
HOLE NO.: WP83-1 SHEET NO.: 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
94.4	96.9	Chlorite schist: 94.8-95.1 – Spotted with staurolite & garnet. Foliation @ 45° to c.a.
96.9	99.5	Greywacke: Pretty silicic
99.5	100.0	Chlorite schist:
100.0	102.2	Greywacke: Pretty chloritic @ 45° to c.a.
102.2	103.5	Chlorite schist: 103.5 – Quartz vein 2cm wide
103.5	129.0	Greywacke: 117.2 – 1cm quartz vein. 118.5-118.7 – Shear zone with 5cm quartz vein @ 60° to c.a. 121.9 – Quartz stringers @ 60° to c.a.
129.0	133.8	Chlorite schist: 129.0-129.2 – Spotted with garnets/staurolite @ 60° to c.a. 130.2 – Quartz vein (3 cm) @ 60°. 130.3-130.7 – Spotted with garnets.
133.8	141.4	Greywacke: 135.1 – Quartz vein 2cm wide. 136.1 – 138.6-139.1 – Chlorite schist
141.4	142.4	Chlorite schist: 141.4-141.6 – Narrow quartz stringers @ 65°
142.4	144.9	Greywacke:

SAMPLE NO.	% SULPH. (DES)	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
79416		93.0	94.4	1.4			<0.001	
79373		94.4	95.4	1.0			<0.001	
79374		95.4	96.9	1.5			<0.001	
79417		96.9	98.7	1.8			<0.001	
79418		98.7	99.5	0.8			0.001	
79375		99.5	101.0	1.5			0.001	
79376		101.0	102.0	1.0			<0.001	
79377		102.0	103.5	1.5			<0.001	
79420A		103.5	105.0	1.5			<0.001	
79419A		105.0	106.5	1.5			<0.001	
79420B		106.5	108.0	1.5			<0.001	
79419B		108.0	108.5	0.5			<0.001	
79421		108.5	111.0	2.5			<0.001	
79422		111.0	114.0	3.0			<0.001	
79423		114.0	117.0	3.0			<0.001	
79424		117.0	120.0	3.0			<0.001	
79425		120.0	123.0	3.0			<0.001	
79426		123.0	126.0	3.0			<0.001	
79427		126.0	129.0	3.0			<0.001	
79378		129.0	130.0	1.0			0.002	
79379		130.0	131.0	1.0			0.003	
79380		131.0	132.0	1.0			0.004	
79381		132.0	133.8	1.8			0.009	
79428		133.8	136.5	2.7			<0.001	
79429		136.5	139.5	3.0			<0.001	
79430		139.5	141.4	1.9			<0.001	
79382		141.4	142.4	1.0			<0.001	
79431		142.4	144.9	2.5			<0.001	

DIAMOND DRILL RECORD

NAME OF PROPERTY Wilmus Pt.

HOLE NO. WP 83-1 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
144.9	149.8	Chlorite schist: 145.2-146.6 – Quartz stringers common 146.9-147.3 – Spotted with garnets 147.8, 150.3 – .5 cm garnets common.
149.8	152.4	Pseudo breccia: Greywacke - partly broken. py. common.
152.4	152.95	Chlorite schist:
152.95	153.6	Pseudo breccia: 153.1 – 2mm garnets stringer 153.1-153.2 – Skarn bands @ 60°
153.6	153.9	Chlorite schist:
153.9	154.3	Greywacke:
154.3	154.6	Pseudo breccia: 154.6 – 2mm Quartz vein @ 60°
154.6	155.3	Greywacke: 154.7 – 1mm Quartz vein @ 40° - Minor py.
155.3	156.3	Chlorite schist: 156.2 – 5mm garnets vein @ 60° - Minor cpy.
156.3	158.6	Pseudo breccia: 156.9 – 3mm garnets vein @ 65° 157.1 – 1mm garnets vein @ 62° 157.9-158.3 – Chlorite schist
158.6	160.0	Chlorite schist: 158.7 – 1cm "s" folded garnets vein 158.8 – 3mm garnets vein @ 67° 159 - 159.7 - 4 garnets veins 1cm - 3cm @ 60° Minor py / cpy / sph.
160.6	161.2	Pseudo breccia: 160.1 – 1cm garnets vein, minor cpy 160.4 – 1cm disturbed garnets vein 160.9 – 1cm garnets vein, @ 20° to c.a

SAMPLE NO.	% SULPH IDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	oz/Ton	oz/Ton
79393		144.9	147.9	3.0			<0.001	
79394		147.9	150.9	3.0			<0.001	
79432		150.9	152.4	1.5			<0.001	
79433		152.4	153.4	1.0			<0.001	
79434		156.1	157.1	1.0			<0.001	
79435		158.2	161.2	3.0			<0.001	

DIAMOND DRILL RECORD

NAME OF PROPERTY Wrenn Pt.

HOLE NO. WPB3-1 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
161.2	162.8	Chlorite schist: 161.7-162.3 - Narrow qtz stringers @ 70°									
162.8	165.3	Pseudo Breccia: 163.4 - 1cm broken quartz vein-minor py. 163.6 - 2mm broken quartz vein. 163.8 - Skarn band 10 cm wide @ 60° 164.3 - 1 cm quartz vein @ 70° 164.7 - 5 cm quartz vein @ 55°-minor py.	79496		164.0	165.0	1.0			0.001	
165.3	166.6	Chlorite schist: Staurolites spot core.									
166.6	167.3	Pseudo breccia:									
167.3	168.6	Chlorite schist: 167.4 - 168.2 - 4 quartz veins @ 45-70° and 2mm - 1cm wide - minor "Z" folding.	79497		167.2	168.4	1.2			0.001	
168.6	172.6	Pseudo breccia: 169.0 - 169.7 - Chlorite schist 170.8 - 171.0 - Skarn band @ 50° 171.6 - 171.7 - Skarn band.									
172.6	176.8	Mixed pseudo breccia and chlorite schist: 176.1 - Quartz vein - 2mm - @ 60° to c.a. 176.5 - Skarn band - 8cm wide									
176.8	178.8	Chlorite schist: 177.1 - 6mm quartz vein @ 55° 178.6 - 7mm quartz vein @ 55°									
178.8	182.6	Pseudo breccia: 179.6 - 179.8 - Chlorite schist 180.5 - 2cm quartz vein @ 52° 181.2 - 4cm skarn band @ 70° 181.6 - 181.7 - Chlorite schist									
182.6	187.7	Mixed pseudo breccia and chlorite schist: 186.8 - 2mm quartz vein @ 60°									

FORM 1 LAMBRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wawa Pt

HOLE NO.: WP83-1 SHEET NO.: 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
187.7	189.4	Chlorite schist:
		188.5 – 7mm quartz vein @ 70° to c.a.
189.4	191.7	Pseudo breccia: Several silicic bands
191.7	192.0	Chlorite schist:
192.0	193.1	Pseudo breccia:
		192.6 – Quartz vein – 3 mm @ 60°
		193.1 – Quartz vein – 7mm @ 40°
193.1	193.7	Chlorite schist:
193.7	196.8	Pseudo breccia: Several silicic bands 5–10 cm wide
196.8	200.2	Chlorite schist: Pseudo breccia in several sections
		200.2 – Quartz vein – 2 cm @ 70°
200.2	204.5	Pseudo breccia: Slightly chloritic with several silicic bands @ 75° to c.a
204.5	205.6	Chlorite schist:
205.6	206.6	Pseudo breccia.
206.6	209.1	Chlorite schist
		207.5 – 5mm quartz vein – broken
		208.9 – 1cm quartz vein @ 75° – minor py.
209.1	209.6	Pseudo breccia: Minor silicic bands.
209.6	210.3	Chlorite schist: 2cm quartz vein @ 70° minor py/cpy.
210.3		End of hole

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	

LANDSCOPES – TORONTO – 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wawa Point
HOLE NO.: WP83-2 LENGTH: 142.7 m
LOCATION:
LATITUDE: 9733-S DEPARTURE: 10527-3
ELEVATION: 89.9 m. AZIMUTH: 040°T DIP: -45°
STARTED: July 2/83 FINISHED: July 3/83 Deepened July 14-15 (88.4-142.7m)

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	040°			
88.4m	-46½°	044°?			

HOLE NO. WP83-2 SHEET NO. 1
REMARKS:
LOGGED BY D. Forgeron / R. McNeil

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE SIZE (INCHES)	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	10.1	OVERBURDEN									
10.1	12.8	GREYWACKE: Foliated @ 40° to c.a.	99520		10.1	12.1	2.0			0.060	
12.8	13.4	CHLORITE SCHIST: 12.9 — 4cm quartz vein @ 70° to c.a.	99522		12.1	15.1	3.0		<	0.001	
13.4	16.5	"GREYWACKE": Chloritized	99524		15.1	18.1	3.0			0.001	
16.5	18.0	CHLORITE SCHIST:									
18.0	20.6	PSEUDO BRECCIA: Minor fg.	99529		18.1	21.0	2.9			0.001	
20.6	21.0	CHLORITE SCHIST: 20.5, 20.6 — quartz stringers @ 70° to c.a.	99530		21.0	23.5	2.5			0.002	
21.0	29.9	GREYWACKE: Grey - siliceous. 21.7 — 1cm quartz vein 24.2-24.3 — 3 quartz veins 1cm wide - glassy 24.0 — Several veins with soil structure 26.2 — 1cm quartz vein @ 75° to c.a. 26.5-27.0 — Broken zone 27.3 — 3cm quartz vein 29.4 — Stringers of quartz 4 1cm wide	99531		23.5	26.5	3.0			0.001	
			99532		26.5	29.0	2.5		<	0.001	
29.9	30.8	CHLORITE SCHIST Foliated @ 65°. Minor fine quartz veining. Cuprey. Only minor quartz as eyelets and stringers.	99533		29.0	31.7	2.7		<	0.001	

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wasa Pt

HOLE NO. WA83-2 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
30.9	31.9	PSEUDO BRECCIA - SILICIC									
31.9	33.1	CHLORITE SCHIST: HIGHLY SHEARED @ 82.5 OVER 8cm.	99534		31.7	34.5	2.8			0.003	
		33.0 - 33.1 - QUARTZ VEIN - GLASSY @ 60°									
33.1	34.5	GREYWACKE: BANDED - SILICIC.									
		33.8 - 33.9 - SHEAR BAND									
34.5	36.2	CHLORITE SCHIST: NUMEROUS QUARTZ STRINGERS (1mm - 3cm) @ 65° to c.a. STRINGERS OF PY & MINOR CPY.	99535		34.5	37.0	2.5			0.001	
36.2	37.7	GREYWACKE:									
		36.6, 37.0 - SHEAR BANDS WITH GARNET + BIOTITE + STAUROLITE @ 60° to ca									
		37.3 - QUARTZ VEIN (4cm)	99536		37.0	40.0	3.0			0.004	
37.7	38.9	CHLORITE SCHIST: NUMEROUS QUARTZ STRINGERS.									
		38.5 - 1cm QUARTZ VEIN - 5 SIGHTS V.G									
38.9	40.5	GREYWACKE:									
		39.0, 39.2 - SHEAR BANDS 5-10 cm WIDE	99537		40.0	43.0	3.0			0.030	
		39.7 - QUARTZ VEIN (2 cm) @ 60° to c.a.									
40.5	41.5	CHLORITE SCHIST: NUMEROUS QUARTZ STRINGERS @ 65-70°.									
		40.6 - QUARTZ VEIN (7cm) - 6 SIGHTS V.G									
41.5	42.8	GREYWACKE:									
42.8	44.6	QUARTZ: PREDOM A LARGE BLOCK OF QUARTZ	99538		43.0	46.3	3.3			0.003	
44.6	46.3	GREYWACKE: 45.2 - 10 cm MILKY QUARTZ - ALDCITE VEIN									
46.3	50.3	CHLORITE SCHIST: NUMEROUS QUARTZ VEINS AND STRINGERS	99539		46.3	48.3	2.0			0.028	
		46.4m - 30 cm QUARTZ VEIN @ 45-50°	99540		48.3	50.3	2.0			0.007	

DIAMOND DRILL RECORD

NAME OF PROPERTY: Illaweo Pr.

HOLE NO. WP83-2 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON	
		48.3 - 49.5 - 20 cm quartz vein @ 70° Considerable py (1-2%) in section. Also po and minor Cupy.	99541		50.3	53.4	3.1			<0.001		
		50.0 - 50.1 - 10 cm rose quartz										
		50.5 - .8 cm quartz vein @ 68° to c.a.										
50.5	53.4	Greywacke - Silicic -										
		53.0 - 53.1 - Skarn band										
53.4	56.0	Chlorite schist: Numerous quartz stringers @ 80° to c.a.	99542		53.4	56.0	2.6			0.001		
		54.1 - Rose quartz vein (5 cm). Py common										
56.0	58.0	Greywacke: Silicic - 5 cm quartz vein	99543		56.0	59.0	3.0			<0.001		
		56.8 - Skarn band 10 cm wide										
		57.1 - 2 cm quartz vein										
58.0	59.0	Chlorite schist: Several quartz stringers cut @ 65° to c.a.										
59.0	69.3	Greywacke:										
		59.7 - 8cm quartz vein @ 60° to c.a.	99544		59.0	62.0	3.0			0.002	1	
		61.3 - 61.8 - Chlorite schist										
		62.6, 62.8 - 1cm quartz veins @ 80° to c.a.										
		62.8 - 63.2 - Pseudo Breccia										
		63.6 - 3cm quartz vein										
		63.8 - 64.9 - 5 - 1cm quartz veins @ 70°	99545		62.0	65.0	3.0			<0.001		
		67.0 - 67.3 - Veins of quartz 1-3cm wide										
		67.3 - 68.0 - Breccia with coarse py stalls	99546		65.0	68.0	3.0			<0.001		
		68.0 - 69.3 - 4 quartz veins 1-2 cm wide "S" folds in quartz veins. Py/po common										

LAKEROGES – TORONTO – 366-1158

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wrenn Pt.

HOLE NO. WP82-2 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % W/LPN IBES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
69.3	69.7	CHLORITE SCHIST: Numerous quartz stringers. Py/po Common in quartz and schist. Strong shear @ 70.5 + 50° to c.a.	99547		68.0	69.3	1.3			0.006	
			99548		68.3	69.7	0.4			0.008	
69.7	71.2	GREYWACKE:	99549		69.7	71.2	0.5			<0.001	
71.2	71.8	CHLORITE SCHIST: Numerous quartz stringers	99550		71.2	71.8	0.6			0.006	
71.8	74.3	PSEUDO BRECCIA: 4 quartz veins 8-10 cm wide @ 55° to c.a. Continuous py/po.	99551		71.8	74.3	2.5			<0.001	
74.3	75.7	CHLORITE SCHIST: Strong shear @ 74.4. Quartz stringers show py/po	99552		74.3	76.0	1.7			0.006	
75.7	77.1	BRECCIA	99553		76.0	77.1	1.1			<0.001	
77.1	78.5	CHLORITE SCHIST: Strong sugar @ 77.3 - 77.4 77.7 - 7 cm quartz vein	99554		77.1	78.5	1.4			0.001	
78.5	80.8	PSEUDO BRECCIA: 5-(3-8 cm) quartz veins @ 68°	99555		78.5	80.8	2.3			<0.001	
80.8	81.2	CHLORITE SCHIST: 80.8 - 80.9 - Several quartz veins	99556		80.8	81.2	0.4			0.350	
81.2	84.1	GREYWACKE: 81.4 - 81.7 - Pseudo Breccia 82.8 - 5 cm quartz vein @ 75° 83.2 - 84.1 - Pseudo Breccia	99557		81.2	82.7	1.5			0.004	
			99558		82.7	84.1	1.4			0.001	
			99559		84.1	84.6	0.5			0.005	
84.1	84.6	CHLORITE SCHIST Minor quartz stringers with py. @ 75°	99560		84.6	86.0	1.4			<0.001	
84.6	85.4	PSEUDO BRECCIA: Cut by 2 cm quartz vein @ 75°	99561		86.0	87.5	1.5			<0.001	
85.4	86.9	GREYWACKE: Cut by 4 narrow quartz veins. Minor py	99562		87.5	88.0	0.5			0.001	
86.9	88.4	PSEUDO BRECCIA:									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiems Pt.

HOLE NO. WP83-2 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS oz/ton	ASSAYS oz/ton	
88.4	89.6	CHLORITE SCHIST: 88.9 – 8 cm qtz vein 3 sights U.G @ 65° to c.a.	99106		88.0	88.4	0.4		<	0.001		
			99107		88.4	89.0	0.6			0.150		
89.0	90.0	GREYWACKE – Numerous quartz stringers. Minor py.	99108		89.0	90.0	1.0			0.002		
90.0	91.8	CHLORITE SCHIST: Highly folded – much py/po. 90.1 – 1cm quartz vein @ 70°. Numerous veinlets throughout.	99109		90.0	91.8	1.8			0.010		
91.8	96.1	PSEUDO BRECCIA:	99110		91.8	93.3	1.5		<	0.001		
		92.7 – 92.9 – CHLORITE SCHIST @ 70° cut by 2 cm wide quartz vein	99111		93.3	94.6	1.3		<	0.001		
			99112		94.6	96.1	1.5			0.002		
		94.6 – 94.8 – CHLORITE SCHIST – 2 quartz veins @ 70°.										
		95.1 – 1-3 cm quartz vein @ 80°										
		LARGE BLEBS OF py – (2 x 2 cm)										
96.1	97.3	CHLORITE SCHIST:	99113		96.1	97.3	1.2			0.002		
		96.2 – 3 cm quartz vein @ 80° to c.a.										
		97.2 – 97.4 – 4 quartz veins 1 cm wide. "S" Folds with py and minor Cupy.										
97.3	103.7	PSEUDO BRECCIA:	99114		97.3	98.8	1.5		<	0.001		
		98.2 – 5 cm quartz vein @ 50°										
		98.5 – 2 cm quartz vein with 2mm blebs of py. bordering.	99115		98.8	100.3	1.5			0.003		
		99.1 – 2cm quartz vein @ 60°										
		99.6 – 5 cm quartz vein @ 40°										
		99.7 – 100.3 – Blebs of py to 1cm common 2 quartz veins 2-3 cm wide.	99116		100.3	101.8	1.5		<	0.001		
		103.7 – 2cm quartz vein										

DIAMOND DRILL RECORD

NAME OF PROPERTY Wilson Pt.

HOLE NO. WP83-2 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
103.7	105.0	CHLORITE SCHIST:									
		103.7 – 5 cm quartz vein @ 60°	99911		101.8	103.7	1.9		<	0.001	
		104.7 – 4 cm shear band	99918		103.7	105.0	1.3		<	0.001	
105.0	110.7	PEGMATOID BRECCIA:									
		106.3 – 5cm shear band @ 40°									
		106.7 – 2cm shear band @ 50°									
		110.5 – 1-3cm shear band @ 50°									
110.7	111.2	CHLORITE SCHIST: HIGHLY BROKEN									
111.2	116.5	PEGMATOID BRECCIA: Cut by numerous shear bands (1-3cm)									
		114.2 – 114.8 – Chlorite schist									
		115.7 – 116.3 – chlorite schist. more quartz stringers.									
116.5	119.8	PEGMATITE: Cuts @ 50° at top and 40° at bottom. Coarse Feldspar xtals to 3 cm. Light pink in color. 5-10% muscovite.	99926		116.5	118.0	1.5		<	0.001	
119.8	124.6	PEGMATOID BRECCIA: Light green - chlorite									
124.6	127.1	CHLORITE SCHIST:									
		125.2 – 3 x 1cm vein @ 50°. Biotite inclusions common. Highly broken and sheared	99931		124.6	127.1	2.5		<	0.001	
127.1	142.7	Pegmatitic Granite: Cut @ 35° to c.a.	99933		127.9	130.0	2.1		<	0.001	
		130.5 – 10 cm schist inclusion									
		GRANITE IS PEGMATOID MINERALOGICALLY TO C.A. Brittle shears highlight the foliation @ 45-50° to C.A. (probably the later fabric related to Country Harbour fault)									

DIAMOND DRILL RECORD

NAME OF PROPERTY Wiconi Point
HOLE NO. W83-3 LENGTH 142.4 m.
LOCATION
LATITUDE 9781-9 DEPARTURE 10470.4
ELEVATION 48-97 AZIMUTH 040° DIP -45°
STARTED July 3/83 FINISHED July 7/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	040°			
142.4	-42°	040°?			

HOLE NO. W83-3 SHEET NO. 1
REMARKS

LOGGED BY D. Forgeron

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	24.5	OVERBURDEN
24.5	26.5	CHLORITE SCHIST: Several ribbon quartz stringers @ 60° to c.a.
26.5	26.9	Pseudo Breccia:
26.9	28.0	Greywacke:
28.0	31.0	Breccia Broken quartz vein (10 cm wide) @ 29.7 Quartz veins @ 29.5 & 30.0 m.
31.0	31.6	Greywacke: Silicic
31.6	32.2	CHLORITE SCHIST: 6-8 quartz stringers @ 60-70°
32.2	33.8	Greywacke: 33.2 - 2cm quartz vein @ 50°
33.8	34.4	CHLORITE SCHIST: 33.9 - 1cm quartz vein
34.4	36.0	34.1 - 2cm quartz vein @ 60° Greywacke: 35.2, 35.7 - 1-2cm quartz veins
36.0	37.0	CHLORITE SCHIST: Cut by several veinlets 36.5-36.8 - Quartz vein @ 60° to c.a. Slight U.G @ 36.6m.
37.0	38.6	Greywacke
38.6	39.4	CHLORITE SCHIST: Cut by several veinlets 39.2-39.4 - Quartz vein @ 60° to c.a.
39.4	44.7	Greywacke: 39.9 - 4cm quartz vein 40.9, 40.8 - 2cm quartz veins 40.9-41.2 - Quartz vein

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
90301		24.5	26.0	1.5			0.001	
90302		26.0	27.5	1.5			0.001	
90303		27.5	29.0	1.5			<0.001	
90304		29.0	31.0	2.0			<0.001	
90305		31.0	32.5	1.5			<0.001	
90306		32.5	34.5	2.0			<0.001	
90307		34.5	36.0	1.5			<0.001	
90308		36.0	37.5	1.5			0.012	
90309		37.5	39.0	1.5			0.002	
90310		39.0	40.5	1.5			0.012	
90311		40.5	42.0	1.5			0.008	

LANGFORDCES — TORONTO — 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wream Point

HOLE NO. WP83-3 SHEET NO. 2.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		42.5, 43.0, 43.6 — 1-3cm quartz veins.	90312		42.0	43.5	1.5			0.005		
44.7	47.0	CHLORITE SCHIST:-	90313		43.5	45.5	2.0			0.003		
		45.0 – 45.1 — Quartz with soil structure	90314		45.5	47.0	1.5			0.002		
		45.9 — 1cm quartz vein - minor Cupy										
47.0	49.6	GREYWACKE: Approximately 30% quartz veins	90315		47.0	48.5	1.5			0.010		
		47.3 – 47.5 — Quartz										
		47.6 – 47.8 — "	90316		48.5	50.0	1.5			0.001		
		48.2 – 48.4 — "										
		48.5 — 10 cm Quartz vein	90317		50.0	51.5	1.5			0.001		
		48.8 — 6 cm Quartz vein										
		49.0, 49.4, 49.6 — Quartz	90318		51.5	53.0	1.5			0.024		
49.6	50.9	CHLORITE SCHIST: 10-12 quartz stringers @ 70° to c.a.										
50.9	51.4	GREYWACKE:										
51.4	52.4	CHLORITE SCHIST: Several quartz veins 1-2cm wide @ 70°										
		51.9 — V.G in quartz vein = 1 sight	90319		53.0	54.5	1.5			<0.001		
52.4	57.6	GREYWACKE:										
		52.4 — 5 cm quartz vein										
		52.5 – 52.7 — Psuedo Breccia	90320		54.5	56.0	1.5			<0.001		
		55.2 — 3cm quartz vein										
		56.1 — 2cm quartz vein	90321		56.0	58.0	2.0			0.001		
		56.7 — 4 cm quartz vein										
57.6	58.0	CHLORITE SCHIST:										
		57.7, 57.8 — Quartz veins 1-2 cm wide										
58.0	63.6	GREYWACKE: Silicic	90322		58.0	60.0	2.0			0.004		
		58.7 – 58.8 — Skarn band @ 70°										
		59.4 – 59.5 — CHLORITE SCHIST										

DIAMOND DRILL RECORD

NAME OF PROPERTY Wilson Pt.

HOLE NO. WP83-3 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		59.5 - 61.6 — Pseudo Breccia	90323		60.0	62.0	2.0			0.002	
		59.9, 60.3, 60.5, 60.6 — Quartz veins 1-2cm wide									
		60.9 - 61.2 — chlorite schist @ 70° - minor quartz veins									
63.6	64.2	Chlorite schist: 3 quartz veins of 1cm @ 70°	90324		62.0	64.5	2.5			<0.001	
64.2	66.7	Greywacke: 65.3 — 1cm quartz vein	90325		64.5	66.5	2.0			<0.001	
66.7	67.0	Chlorite schist: Several quartz veins @ 70° to c.a.	90326		66.5	68.5	2.0			0.004	
67.0	67.6	Pseudo Breccia:									
67.6	68.1	Chlorite schist - 3-4 quartz veins @ 75°									
68.1	68.5	Pseudo Breccia:									
68.5	71.2	Greywacke:	90327		68.5	71.0	2.5			0.010	
		69.4 — 5 cm quartz vein									
		70.5 — 5 cm quartz vein									
		70.6 - 71.2 — Pseudo Breccia									
71.2	71.5	Chlorite schist:									
71.5	82.1	Greywacke: Has several Pseudo Breccia and chlorite schist bands.	90328		71.0	73.0	2.0			0.003	
		72.3 — 4 cm quartz vein									
		72.9 — 1cm " "									
		73.1 — 1cm " "									
		76.3 - 77.4 — Broken zone with quartz @ 76.5 - 76.9	90329		73.0	74.5	1.5			<0.001	
			90330		74.5	76.5	2.0			<0.001	
		78.0 — 5cm quartz vein	90331		76.5	78.5	2.0			0.002	
		78.7 — 5cm " "									
		79.1 - 79.5 — 2 quartz veins on 10 cm width	90332		78.5	79.5	1.0			<0.001	
		79.6 - 80.2 — Pseudo Breccia	90333		79.5	81.0	1.5			<0.001	
		81.6 — 10 cm quartz vein @ 75°	90334		81.0	82.0	1.0			<0.001	
82.1	83.0	Shear zone: Talc - schist:									
		82.1 - 82.3 — Quartz vein.									
		82.5 — Quartz vein — 1 sight VG	90335		82.0	83.0				0.010	

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiow Pt.

HOLE NO.: WP83-3 SHEET NO.: 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON	
83.0	84.5	GREYWACKE: Broken with much Pseudo breccia	90336		83.0	84.1	1.0			0.002		
		83.4 – 5cm quartz vein										
		83.5 – 2cm " "										
		83.9 – 10 cm quartz vein										
84.5	86.4	CHLORITE SCHIST: Cut by quartz vein 2-5 cm wide @ 60°	90337		84.1	85.0	0.9			0.001		
86.4	90.0	GREYWACKE:	90338		85.0	86.0	1.0			0.002		
		87.2 – 1cm quartz vein. V.G 2 sights	90339		86.0	87.0	1.0			0.228		
		89.4 – 3cm quartz vein V.G 1 sight.	90340		87.0	88.0	1.0			0.006		
90.0	90.9	CHLORITE SCHIST: Numerous Quartz veins	90341		88.0	89.5	1.5			0.005		
		90.5 – 1 good sight V.G	90342		89.5	90.9	1.4			0.018		
90.9	92.7	GREYWACKE: 92.5 – 8 cm quartz vein										
		92.6 – 5 cm quartz vein	90343		90.9	91.9	1.0			0.003		
92.7	93.4	CHLORITE SCHIST: Minor quartz veining @ 70°	90344		91.9	92.7	0.8			0.001		
93.4	94.1	PSEUDO BRECCIA:	90345		92.7	93.4	0.7			0.002		
94.1	95.8	CHLORITE SCHIST:	90346		93.4	94.4	1.0			0.001		
		95.2-95.3 – stringers of quartz	90347		94.4	95.4	1.0			0.002		
95.8	101.8	GREYWACKE:										
		96.6 – 2cm quartz vein 3 sights V.G	99501		95.4	97.4	2.0			0.031		
		96.7 – 97.1 – Stringers of calcite common										
		97.2 – 98.2 – Broken	99502		97.4	99.4	2.0			0.015		
		98.3 – 4cm quartz vein	99503		99.4	101.8	2.4			0.003		
		98.3 – 99.4 – Pseudo Breccia										
		99.4 – Quartz vein in chlorite schist band 20 cm wide										
		99.6 – 100.4 – Broken										
		100.7 – 7cm quartz vein V.G – 1 sight.										
		100.7 – 101.8 – Pseudo Breccia										

LANGRIDGES – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Wicoom Pt.
HOLE NO. WP83-3 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	TOTAL	ASSAYS %	%	OZ/TON	OZ TON
101.8	106.1	CHLORITE SCHIST: Cut by numerous quartz stringers	99504		101.8	103.8	2.0			0.082	
		AND VEINS FROM < 1mm – 8cm. "S" FOLDS	99505		103.8	106.1	2.3			0.293	
		in veins. Also swirls of py/cpy minor galena.	99506		106.1	109.0	2.9			< 0.001	
		103.9 – 104.5 – Numerous sights VG from									
		.01mm – 5mm. In quartz as well as in schist itself (as smears)									
106.1	114.2	PSEUDO BRECCIA:									
		106.7 – 10cm quartz vein	99507		109.0	112.0	3.0			0.003	
		106.9 – " " "									
		107.1 – 5cm " "									
		108.4 – 4cm " "									
		108.9 – 2cm " "									
		109.3 – 60 cm " "									
		110.4 – 8 cm " "									
		110.7 – 1 cm " "									
		111.0 – 1 cm " "									
		112.6 – 10cm " "									
		113.9 – 3cm " "	99508		112.0	115.0	3.0		1	0.002	
114.2	114.9	CHLORITE SCHIST: Foliated @ 50° to c.a.									
		114.5 – 8-10 quartz stringers < .1mm – 6cm									
		114.8 – 10 cm quartz vein									
114.9	121.7	PSEUDO BRECCIA: Minor quartz veins to 117m.	99509		115.0	117.5	2.5			0.001	
		117 – 5cm vein									
		118 – 1cm quartz vein – 2 sights VG									
		118 – 121.7 – mixed pseudo-breccia, greywacke and chlorite schist	99510		117.5	121.5	4.0			0.012	

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: Niaou Pt.

HOLE NO.: NP87-3 SHEET NO.: 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH (DES)	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
121.7	122.2	Chlorite schist: Scattered narrow stringers of quartz Hangnet. Minor Cupy. Foliation @ 70°	99511		121.5	124.0	2.5			0.002	
122.2	122.9	Pseudo Breccia:									
122.9	124.0	Chlorite schist: Scattered quartz veinlets & eyelets. Py veinlets to 5mm.									
124.0	126.6	Pseudo Breccia: 125.6 – 8 cm quartz vein	99512		124.0	128.0	4.0			0.001	
126.6	126.9	Chlorite schist: 126.8 – 3 cm quartz vein									
126.9	127.9	Pseudo Breccia:									
127.9	128.4	Chlorite schist: 128.0 – 3 cm quartz vein - glassy Au grs Foliation @ 65° to c.a.	99513		128.0	131.0	3.0			<0.001	
128.4	139.8	Mixed Chlorite schist - greywacke - Pseudo Breccia 134 – 1cm quartz vein 136.4 – 2cm quartz vein	99514		131.0	134.0	3.0			0.001	
			99515		134.0	137.0	3.0			0.003	
			99516		137.0	140.0	3.0			<0.001	
139.8	140.6	Chlorite Schist: 139.8 – 140.0 – Scattered quartz veinlets	99517		140.0	142.4	2.4			<0.001	
140.6	142.4	Pseudo Breccia									
	142.4	End of Hole									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Willow Pt.
HOLE NO.: WP83-4 LENGTH: 196.7 m.
LOCATION: -
LATITUDE: 9761.9 DEPARTURE: 10,490.4
ELEVATION: 48.97 AZIMUTH: 040° DIP: -60°
STARTED: July 19/83 FINISHED: July 22/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60	040			
196.6	-56°30'	040?			

HOLE NO. WP83-4 SHEET NO. 1
REMARKS

LOGGED BY A. Gourlay / D. McNeil

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	18.3	OVERBURDEN										
18.3	33.4	PSEUDO BRECCIA:										
		18.3-19.3 – Silicic – Staurolite xtals to 3mm.	99801		18.3	21.0	2.7			0.003		
		21.0 – Shear band – 2cm										
		21.9 – 4mm quartz stringer @ 60° to c.a	99802		21.0	22.0	1.0			0.010		
		23.1 – 23.2 – 2 quartz veins, <4mm thick										
		23.8 – 23.9 – SILICIC	99803		22.0	25.1	3.1			0.020		
		24.9 – QUARTZ FAULT BRECCIA, MINOR PY										
		25.1 – BLEBS OF QUARTZ TO 2CM	99804		25.1	28.0	2.9			0.003		
		25.7 – 26.4 – QUARTZ – MINOR PY/PO/GAL. Irregular BLEBS OF CHLORITE IN QUARTZ. BROKEN.										
		28.1 – 3 mm quartz vein @ 45° to c.a	99805		28.0	29.0	1.0			0.003		
		28.7 – 3 mm quartz vein – wall staurolite										
		29.6 – 2mm quartz vein @45°										
		31.0 – 2 + 3mm quartz vein @ 55°	99806		29.0	31.8	2.8			TRACE		
33.4	42.7	CHLORITE SCHIST:										
		33.6 – 5mm quartz vein @ 50°	99807		31.8	33.4	1.6			TRACE		
		33.8 – 6mm " " minor Cpy	99808		33.4	34.8	1.4			TRACE		
		34.1 – 34.8 – Silicified.										
		37.9 – 38.6 – STAUROLITE-RICH ZONE	99809		34.8	38.6	3.8			TRACE		
		40.8 – 2mm quartz vein @60°	99810		38.6	41.2	2.6			0.003		
		42.7 – Well developed staurolite xtals.	99811		41.2	42.7	1.5			0.010		

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wigwam Pt.

HOLE NO. WP83-4 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. (OES)	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
42.7	56.6	PSEUDO BARREN: well developed chloritic talc	99812		42.7	45.5	2.8			TRACE	
		45.5 – 5cm shear @ 70°	99813		45.5	48.5	3.0			TRACE	
		46.5 – 3cm quartz vein @ 55°									
		47.5, 47.5 – Irregular quartz blebs in shear zone									
		48.4 – scarce band (4cm) intensely sheared	99814		48.5	51.5	3.0			TRACE	
		49.9 – 6 mm quartz vein @ 60°									
		50.1 – 3 mm quartz vein – minor py –	99815		51.5	54.5	3.0			NIL	
		53.5 – 1 cm quartz vein – blebs to 2cm									
56.6	76.5	GREYWACKE									
		56.1–57.1 – sheared quartz veins to 4mm in chlorite schist – minor Cupy	99816		54.5	56.7	2.2			NIL	
		57.1 – 10 cm quartz vein @ 60°	99817		56.7	57.9	1.2			TRACE	
		57.9 – 4 mm quartz veins "S" fold, minor po.									
		58.0 – 2 mm quartz vein – "S fold" @ 45°	99818		57.9	60.9	3.0			TRACE	
		58.5 – 1 cm quartz vein minor py.									
		60.1 – 10 cm silicic zone – stringers									
		60.9 – 7mm quartz with minor py.	99819		60.9	63.9	3.0			0.003	
		62.5–63.2 – Chlorite schist									
		62.6 – 1 cm quartz vein @ 35°									
		62.7 – 1 cm quartz vein with "S" fold									
		63.2 – " " "									
		63.9 – 10 cm quartz vein @ 45°, minor po, py	99820		63.9	65.5	1.6			0.007	
		64.2 – 2mm quartz vein									
		64.3 – 5cm quartz vein "S" fold. Minor py, sphy, po.									
		65.5 – 5mm quartz vein "S" fold.	99821		65.5	67.7	2.2			0.001	
		66.6 – 5cm quartz vein									
		67.6 – 5mm " "									
		67.2 – 5cm " " @ 35° to c.a.									

LANCHBRIDGES — (UTONTO — 360 1160)

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.

HOLE NO. WP83-4 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH EDGES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		GREYWACKE (cont.)	99822		67.7	68.7	1.0			(0.065)		? 78s Low
		68.1 – 1cm quartz vein @ 90°										
		68.2 – 3cm quartz vein – "S" fold. Slight V-E (patch-like size) – Minor Cupy., pyrite										
		68.7 – 2 x 1cm qtz. veins – Minor Cupy, py.	99823		68.7	70.8	2.1			0.006		
		69.0 – 10 cm quartz vein – Minor Cupy, po, py.										
		69.9 – 2 cm quartz vein										
		70.2 – 1 cm quartz vein @ 60° to c.a.										
		70.8 – 9 cm disrupted quartz vein.										
		70.8–71.2 – Pseudo Breccia	99824		70.8	72.9	2.1			TRACE		
		70.9 – 3cm quartz vein – "S" fold										
		71.4 – 2cm " " @ 25° to c.a.										
		71.5 – 8cm " " minor py/Cupy.										
		72.5–72.9 – CHLORITE SCHIST WITH 2cm quartz vein.										
		73.2 – 1cm quartz vein	99825		72.9	73.7	0.8			.003		
		73.7–74.2 – Py enriched with numerous quartz veinlets										
		74.6 – 2cm quartz vein @ 60°										
74.6	76.5	CHLORITE SCHIST:										
		74.6 – 76.2 – Numerous quartz veins 1mm – 5cm @ 60°										
76.5	77.8	GREYWACKE: Numerous quartz stringers @ 60°.										
77.9	80.2	Pseudo Breccia: Numerous quartz stringers and veins sheared and broken.										
		78.6 – 2cm quartz vein @ 50° + py + po										
		79.0 – 2cm " "										
		79.3 – 3 cm quartz vein @ 40°										
80.2	82.0	CHLORITE SCHIST: Numerous quartz stringers various @ 45°	99826		80.2	82.0	1.8			0.007		

LANGFIELDS – TORONTO – 268-1184

FORM 4

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow #1

HOLE NO. WP83-4 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
82.0	82.5	Pseudo Breccia: Cut by 2 x 2cm quartz vein @ 45°	88730								
82.5	83.2	CHLORITE SCHIST:									
		83.0 – 10 cm quartz vein (45° at top, 0° at bottom)									
		83.3 – 3 cm quartz vein @ 60°									
83.2	86.4	Pseudo Breccia:									
		84.1 – 84.3 – 2 x 3cm quartz veins @ 65°									
		84.4 – 5cm quartz vein – 5/4 folds									
		85.2 – 2cm quartz vein @ 70°									
		85.7 – 1 cm " "									
		86.2 – 4cm quartz vein									
86.4	88.0	Greywacke:									
		87.0 – 1cm quartz vein. Minor Cpy/po/py.									
88.0	88.3	CHLORITE SCHIST: Numerous quartz veinlets @ 50° to c.a.									
88.3	94.9	Greywacke:									
		89.0 – 1cm quartz vein minor Cpy/py									
		89.2 – 1cm " " " "									
		89.5 – 4cm " " " "									
		90.6 – 2cm " " " "									
		90.6 – 90.8 – Pseudo Breccia									
		90.9 – 1cm quartz vein @ 50° to c.a.									
		91.8 – 7cm " " @ 45° " "									
		92.4 – 1cm " "									
		93.5 – .5cm quartz vein									
		94.2 – 4cm strong banded. Minor py @ 55°	88730		94.9	97.9	3.0			0.002	
94.9	97.9	CHLORITE SCHIST									
		96.1 – strong qtz vein @ 60°									
		96.5 – 2 x 1cm quartz veins @ 50°									
		97.5 – 10 cm quartz vein @ 45°									
		97.7 – 1 cm quartz vein @ 50°									

LANDRIDGES — TORONTO — 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.

HOLE NO. WP83-4 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ. TON	ASSAYS OZ. TON	
97.9	99.5	**GREYWACKE:**										
		97.9 – 7 cm quartz vein @ 60°										
		98.2 – 5cm skarn band (10cm wide)										
		98.5 – 1cm quartz vein										
		98.8 – 25 cm quartz vein @ 45°										
		99.4 – 1cm quartz vein - Folded.										
99.5	101.1	**Breccia Basalt:**										
		100.2 – 2cm quartz vein - minor py/cpy										
101.1	105.8	**GREYWACKE:**										
		101.4 – 15cm quartz vein @ 50°										
		101.7 – 1cm " " @ 10°										
		101.9 – 10 cm - CHLORITE SCHIST.										
		102.2 – 2 & 2cm quartz veins - minor cpy/py										
		102.7 – 1cm quartz vein - minor skarn/fs										
		103.8 – 3 cm " "										
		103.7 – 1 cm " " @ 45°										
		104.4 – 3cm " "										
		104.5 – 5cm skarn band										
		105.3 – 2cm quartz vein @ 60°										
		105.7 – 1cm " " @ 45°										
105.8	110.5	**Breccia:**										
		105.8 – 10 cm skarn band @ 50° - py common										
		106.3 – 1cm quartz vein @ 50°										
		106.7 – 3cm skarn band. @ 50°										
		107.5 – 1cm quartz vein @ 60°										
		107.8 – " " " @ 45°										
		108.4 – 1cm " "										
		108.5 – 109 – CHLORITE SCHIST										
		109.6 – 3cm quartz vein @ 60°										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiggan Pt

HOLE NO. WP83-4 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
110.5	112.4	GREYWACKE:									
		110.5 – 7cm quartz vein @ 60°									
		110.7 – 25 cm " " – highly filled.									
		111.3 – 3 x 10 cm " " @ 30°									
		112.2 – 3 cm " " @ 55°									
112.4	113.5	PEMOD BRECCIA:									
		112.7 – 3 x 1cm quartz veins @ 35°, minor py.									
113.5	114.3	CHLORITE SCHIST:									
		113.7 – 1cm quartz vein @ 30° – py/po/cpy.	99844		113.5	114.3	0.8			0.049	
		114.1 – 3 cm " " @ 45° slight VG									
114.3	119.7	PEMOD BRECCIA:									
		114.5 – 3cm quartz vein @ 55°	99845		114.3	117.3	3.0			0.002	
		115.2 – 115.3 – CHLORITE SCHIST – 5cm quartz vein blebs of po & py common									
		116.2 – 4cm quartz vein @ 30° – minor py.									
		116.0 – 8cm " " @ 40° " "									
		116.1 – 2cm " " @ 20° " "									
		116.4 – 2cm " "									
		116.8 – 2cm " " @ 60°									
		116.9 – 117.0 – Chlorite schist									
		117.2 – Small veinlets of quartz @ 50°, minor Py, po, Aspy.									
		117.3 – 117.5 – Chlorite schist, 4 cm qtz. vein @ 45°	99846		117.3	118.3	1.0			0.003	
		118.3 – 3cm quartz vein									
		118.4 – 2cm quartz vein – minor py.									
		118.4 – 119.1 – Chlorite schist – minor quartz veining	99847		118.3	119.7	1.4			< 0.001	
		119.5 – 1cm quartz vein @ 45°,									

LANGRIDGE'S – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.
HOLE NO.: WP#3-4 SHEET NO.: 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ. TON	ASSAYS OZ. TON
119.7	122.7	CHLORITE SCHIST:									
		120.0 - 120.1 - 2 x 1 cm quartz veins @ 40°, minor py, po, Cpy, Aspy.	99848		119.7	120.7	1.0			<0.001	
		120.1 - 120.3 - Shear zone									
		121.2 - 2cm quartz vein @ 45°	99849		120.7	121.7	1.0			<0.001	
		121.4 - 5cm " " @ 40° - minor py/Cpy									
		122.3 - 3cm " " @ 40° - " " "	99850		121.7	122.7	1.0			0.008	
122.7	128.0	Pseudo Breccia:									
		122.8 - 122.9 - 2 x 2cm quartz veins @ 50°									
		123.2 - 3 cm " " "3" fold & 6 sights VG (<1mm size) + py/Cpy.	99851		122.7	123.7	1.0			0.121	
		123.5 - 15 cm silicic zone									
		124.6 - 124.8 - 2 x 3cm quartz vein fractured	99852		123.7	124.7	1.0			0.030	
		125.2 - 10 cm silicic zone	99853		124.7	125.7	1.0			TRACE	
		127.8 - 127.9 - Chlorite schist - sheared	99854		125.7	126.7	1.0			TRACE	
128.0	130.9	CHLORITE SCHIST:	99855		126.7	128.0	1.3			TRACE	
		128.4 - 1cm quartz vein @ 40° - po - Cpy.									
		129.1 - 129.2 - Fractured quartz veins - Minor py/Cpy/galena.									
		129.9 - 130.5 - Several narrow quartz stringers @ 50°	99856		128.0	130.9	2.9			0.003	
		130.5 - 2cm quartz vein - minor po/py/Cpy.									
130.9	135.0	Pseudo Breccia:									
		131.5 - 2cm quartz vein @ 60°									
		131.9 - 2cm " " " "									
		131.9 - 132.1 - 2 x 1cm qtz @ 50°									
		133.1 - 2cm quartz vein @ 50° - py/Aspy	99859		133.9	135.0	1.1			.058	
		134.5 - Fractured 3cm vein VG 1 sight (1mm)									
		134.6 - 3 cm quartz vein @ 50°	99860		135.0	136.0	1.0			.006	

LANGRIDGES - TORONTO - 366-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wilroy Pt.

HOLE NO. WP83-4 SHEET NO. 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE %SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
135.0	136.7	CHLORITE SCHIST:									
		135.0 - 135.2 - SHEAR ZONE									
		135.2 - 135.3 - 2% 1cm qtz veins									
		135.7 - 136.1 - PSEUDO BRECCIA									
		136.2 - 2cm qtz vein - minor py.									
		136.3 - 136.4 - 2% 1cm qtz veins @60° minor py/Cpy									
		137.2 - 10 cm broken qtz									
		137.8 - 138.3 - (Massive core)									
		138.6 - 3 cm qtz @60° - Minor py/Po/Cpy.									
		138.7 - 2cm qtz @45° " "									
138.7	145.2	PSEUDO BRECCIA:									
		138.7 - 138.8 - Narrow qtz stringers									
		139.7 - 6cm qtz vein @40°									
		139.8 - 4cm " " "									
		141.5 - 141.7 - Greywacke									
		141.7 - 144.1 - Scattered qtz veinlets .5 - 3 cm									
145.2	147.8	GREYWACKE:									
		146.2 - 3 Cm qtz vein - fractured - minor py.									
		148.3 - 149.7 - Pseudo breccia.									
		147.7 - 8 cm qtz vein @ 30°									
147.8	160.8	PSEUDO BRECCIA:									
		149.2 - 3 cm qtz vein - fractured - minor py.	99869		149.3	150.8	1.5			TRACE	
		149.6 - 149.9 - Chlorite schist with 2 qtz veinlets	99870								
		150.2 - 3 cm qtz vein - minor py, aspy.									
		150.2 - 150.3 - Qtz vein - disturbed - Aspy/py/po.									
		150.8 - 151.3 - Greywacke.									
		151.7 - 1 cm qtz. vein - disturbed @ 30° + py/po									
		151.9 - " " "									

LANGFORDGES — TORONTO — 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wilson Pk

HOLE NO. WP87-4 SHEET NO. 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		152.9 – Schistose zone										
		153.4 – 1cm gtz vein - Fractured & Folded @ 70° to c.a.										
		153.9–153.9 – 2 X 9cm clean bands.										
		155.5 – 5cm gtz vein										
		156.2–156.4 – 3 x 2cm gtz veins - Folded & Fractured; py/po.										
		157.2 – 22 cm gtz vein - Fractured										
		157.4 – 157.6 – Chlorite schist.										
		159.7 – 2cm Fractured gtz vein @ 45°										
160.8	162.8	Chlorite schist: 160.8 – 2cm gtz vein @ 60°										
		161.2 – 2cm " "										
		161.3 – 2 x 2mm " "										
		161.4 – 3 cm " "										
		161.4–161.7 – Shear zone										
		161.8 – 2cm gtz vein @ 90°										
		161.9 – 2 x 1cm gtz veins @ 60°										
		162.1 – Shear band - 3cm										
		162.5 – 2 cm gtz vein @ 45°										
162.8	165.9	Fuchsite Breccia: 163.4 – 1cm gtz vein @ 45°										
		164.7 – 5cm " " @ 45° – fractured										
		165.9 – 2cm " " @ 90°										
165.9	167.3	Chlorite schist: 166.1 – .5cm gtz vein – "s" fold. Mem py/cpy/po										
		166.2 – 2cm gtz vein @ 45° " " "										
		166.4 – 2cm " " @ 40°										
		166.6 – 3cm " " @ 60°										
		166.7 – 167.2 – < 1cm veinlets - "s" fold common										

LANGREKES – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Wrong Pt.

HOLE NO. WP83-4 SHEET NO. 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH ISES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON	ASSAYS
167.5	169.0	Greywacke: only narrow qtz veinlets, highly contorted.										
169.0	169.6	Chlorite schist:										
		169.2 – 10 cm qtz vein – Folded as "s" fold. Minor py/cpy/po. @ 40°	99881		169.0	169.6	0.6			Trace		
169.6	170.3	Pseudo breccia: 2 x 2mm qtz stringers.										
170.3	172.6	Chlorite schist:										
		170.3 – 1 cm qtz vein @ 70° – small veins.										
		170.7 – 171.6 – Pseudo Breccia										
		171.1 – 2cm qtz vein @ 40°	99884		171.4	172.5	1.1			0.005		
		171.2 – qtz stringers										
		171.3 – 4 cm qtz vein – "S" fold – minor py/cpy										
		171.4 – Contorted qtz vein @ 45°										
		171.5 – 20 cm qtz vein – minor py/po.										
		171.7 – 172.4 – Shear zone – 7 qtz veins 4 cm.										
		172.6 – 5mm qtz vein @ 45° – Lower contact	99885		172.5	173.5	1.0			0.870		
172.6	177.6	Pseudo Breccia:										
		172.9 – Highly contorted 6cm zone of qtz. 6 sights of stringers of VG – Minor cpy/py.										
		173.4 – Contorted veins (8 @ 4mm)										
		173.3 – 4mm qtz vein @ 40°	99886		173.5	174.5	1.0			0.002		
		175.2 – 1 cm qtz vein. 2 sights – VG	99887		174.5	175.5	1.0			0.007	?	Too low?
		176.2 – 8 cm qtz vein @ 60°										
177.6	178.1	Quartz – minor py/po – partly shattered	99888		177.0	179.6	2.0			0.001		
178.1	179.0	Greywacke										
179.0	179.1	Quartz – Irregular shape @ 60°. Minor py/cpy.										
179.1	180.1	Pseudo Breccia:										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.

HOLE NO. WP 83-4 SHEET NO. 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	%	%	OZ/TON	OZ/TON	
180.1	180.3	CHLORITE SCHIST: Highly sheared – minor qtz veining										
180.3	180.9	Breccia										
180.9	182.8	CHLORITE SCHIST:										
		180.9 – 1cm disrupted qtz vein	99892		180.9	181.9	1.0			0.003		
		181.3-181.5 – 6 qtz veins <4mm, well developed "Z" folds. @ 55°										
		181.7 – 1cm qtz vein @55°. Microfaulting offsets vein slightly										
		181.8-181.9 – 2× 5mm qtz veins @50°										
		182.5 – 1cm qtz vein @50° – 1 speck – VG	99893		181.9	182.8	0.9			0.423		
		182.6 – 5cm qtz vein @50°										
		182.7 – 2× <1mm veinlets @60°										
182.8	183.7	Pseudo Breccia:	99894		182.8	183.7	0.9			0.003		
183.7	184.4	CHLORITE SCHIST										
		183.8 – 2cm "Z" folded qtz vein										
		183.9 – Irregular qtz veins 4-6 cm. Minor py/po	99895		183.7	184.4	0.7			TRACE		
		184.1-184.3 – Shear band, minor py/po/Aspy.										
184.4	188.7	Pseudo Breccia:										
		184.7-184.9 – Breccia										
		185.1-185.2 – Quartz. Fills bx zone.										
		185.3-185.9 – Quartz										
		186.6 – 2cm qtz vein @85°										
		187.1 – 5cm qtz vein @70° minor py.										
		187.1-188.7 – 2× <5mm qtz veins.										
188.7	188.9	Quartz upper contact @70°, lower @50°	99896		188.7	189.3	0.6			0.007		
188.9	189.3	CHLORITE SCHIST:										
		189.1 – Irregular qtz vein "Z" folds.										

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wilson Pt.

HOLE NO. WP83-4 SHEET NO. 1.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH FDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS oz/Ton	ASSAYS oz/Ton	
189.3	191.7	Pseudo Breccia:-										
		191.6 – 191.2 – Broken quartz veins – highly sheared @ 40° – Minor Py/Cpy.										
191.7	191.9	Chlorite schist: Highly sheared. Minor qtz veining										
191.9	193.2	Pseudo Breccia:										
		192.7 – Discontinuous 5mm qtz veins @ 40°. Numerous offsets.										
		192.8 – 1cm qtz. vein – almost offsets numerous										
193.2	194.0	Chlorite schist: Highly sheared	[redacted] 99903		193.2	194.0	0.8			0.002		
		193.4 – 193.5 – Massive quartz lens, note of "s" fold ?										
194.0	196.7	Pseudo Breccia:										
	196.7	End of hole										

LANGRODGES – TORONTO – 368-1168

FORM 5

DIAMOND DRILL RECORD

NAME OF PROPERTY Widow Pt.
HOLE NO. AP83-5 LENGTH 183.8 m
LOCATION
LATITUDE 9791-9 DEPARTURE 10454-4
ELEVATION 47-0 AZIMUTH DIP -45°
STARTED July 15/83 FINISHED July 19/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	046° T			
183.8	-46°	046° T			

HOLE NO. AP83-5 SHEET NO. 1
REMARKS
LOGGED BY Gowling / Emerson / Bellhouse

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	24.1	OVERBURDEN :									
24.1	26.5	PSEUDO BRECCIA :									
		24.4 – FRACTURED 1cm qtz – Fe STAINED									
		25.0 – 2 cm SHEAR BAND									
		25.5 – 1 cm QUARTZ VEIN @ 90°									
26.5	32.1	GREYWACKE :									
		26.5 – 2cm qtz VEIN – irregular									
		27.1 – .5cm " "									
		27.7 – 1cm " " "2" BAND									
		28.3 – 1 cm " " @ 50°									
		28.5 – 1cm " " @ 55°									
		29.9 – 1cm " " @ 75°									
		30.2 – 2cm " " @ 35°									
		31.6 – 31.9 – CHLORITE SCHIST									
32.1	45.7	PSEUDO BRECCIA									
45.7	46.3	(MISSING CORE) – POSSIBLE FAULT									
46.3	51.6	PSEUDO BRECCIA : HEAVY Fe- STAIN – OXIDIZED									
		49.5 – 48.7 – CHLORITE SCHIST									
		49.5 – 1cm qtz VEIN @ 50°									
		50.5 – 51.0 – CHLORITIC SCHIST									
51.6	53.7	CHLORITE SCHIST :									
		52.7 – 52.8 – SHEAR BAND @ 50°									

LAMBRIDGES – TORONTO – 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY Uloaw Pt.

HOLE NO. W83-5 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
53.7	75.8	Pseudo Breccia:										
		53.7-54.1 – Breccia - Fe-stained										
		54.4 – 5 cm felsic zone – skarn?										
		56.2 – Quartz @ 80°										
		57.0 – 2cm felsic band – minor py.										
		57.8-58.0 – CHLORITE SCHIST										
		58.6 – 1cm qtz vein @ 40°										
		59.2 – 5cm skarn band @ 45°										
		60.3 – 15cm skarn band – minor py.										
		60.5 – 10 cm " " @ 40°										
		61.4 – 1cm qtz vein @ 45°										
		61.5 – " " " "										
		61.6 – 10cm skarn band – minor py.										
		62.1, 62.5 – 1-2cm skarn bands @ 80°										
		63.9-64.1 – CHLORITE SCHIST.										
		64.5 – 4cm qtz vein										
		66.1 – 3cm " " @ 45°										
		66.4-66.5 – CHLORITE SCHIST										
		67.5 – 2cm skarn band										
		68.2, 68.4, 68.5 – 3 skarn bands @ 90°										
		68.7-68.9 – 4 x 2cm skarn band										
		70.2-70.8 – 3 skarn bands (1-5cm wide)										
		75.1 – 4cm qtz vein @ 70°										
75.8	80.5	Greywacke: Numerous narrow chlorite schist bands.										
		76.2 – 5mm qtz vein @ 60°										
		77.3 – 1cm " " @ 60°										
		77.8 – 2cm " " @ 70°										
80.5	81.4	Pseudo Breccia:										

LANDRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiman Pt.

HOLE NO. WP83-5 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE %SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ, TON	ASSAYS OZ TON
81.4	84.2	CHLORITE SCHIST:	99791		81.4	82.4	1.0			0.007	
		91.7 – 10 cm qtz. vein @ 50°									
		81.9 – 82.7 – 3 qtz veins @ 50°									
		92.1 – 2 cm qtz vein	99792		82.4	83.4	1.0			0.009	
		83.2 – 5 cm shear band.	99793								
		83.6 – 5 cm qtz fault mineral py/sppy.	99794		83.4	84.4	1.0			NIL	
84.2	84.8	PEGMATOID BRECCIA:									
84.8	88.6	GREYWACKE:									
		85.2 – 6 cm qtz vein @ 60°									
		85.3 – 85.9 – Numerous narrow schist bands									
		86.9 – Shear band "s" plane" @ 60°									
		87.8 – 6 cm qtz vein @ 60°									
		87.8 – 87.9 – 2 qtz veins < 2cm – irregular									
88.6	88.9	CHLORITE SCHIST:									
		88.7 – 1cm qtz vein									
		88.4 – 3 qtz veins < 1cm @ 70°									
88.9	95.7	PEGMA BRECCIA:									
		89.8 – 90.0 – Chlorite schist with 4 qtz veins 1 – 3cm wide									
		91.1 – 5mm qtz vein @ 50° – minor py.									
		91.3 – 1 cm " " " "									
		91.5 – 7cm " " " "									
		91.7 – 10 cm " " " " py/po/sppy									
		92.1 – 1cm " " " "	99795		92.4	94.4	2.0			0.003	
		93.6 – 94.0 – Chlorite schist – Several qtz veinlets	99796		94.4	95.4	1.0			NIL	
		94.6 – 10 cm qtz & shear band									
		95.1 – 95.7 – Badly Broken – some qtz	99797		95.4	96.0	0.6			NIL	

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt

HOLE NO. WP83-5 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS DE. TON	
95.7	96.5	CHLORITE SCHIST: Alternating bands of chlorite schist and greywacke 96.8 - 96.2 - Disrupted & narrow qtz stringers @ 0°	99785		96.0	96.7	0.7			NIL		
96.5	97.3	PSEUDO BRECCIA: 97.1 - 4cm qtz vein @ 35° - HIGHLY FRACTURED										
97.3	97.9	CHLORITE SCHIST: 97.3 - 97.5 - NUMEROUS NARROW QTZ STRINGERS @ 20-70° to c.a.	99787		97.3	97.8	0.5			0.005		
97.9	100.1	PSEUDO BRECCIA: 97.3 - 98.5 - CHLORITE SCHIST WITH 8cm qtz vein irregular @ 30 - 90° to c.a.										
100.1	102.2	CHLORITE SCHIST: 100.2 - 100.3 - 3 qtz veins < 1cm @ 70° 101.0 - 101.3 - PSEUDO BRECCIA 101.3 - 2cm qtz vein 101.7 - Distorted qtz vein @ 60°	99789		100.1	101.1	1.0			NIL		
			99790		101.1	102.1	1.0			0.001		
102.2	103.9	PSEUDO BRECCIA: 102.3 - 10 cm qtz vein @ 60° 103.3 - 2 cm qtz vein - Fractured @ 35° 103.4 - 10 cm qtz vein @ 60° 103.7 - 15 cm qtz + skarn vein										
103.9	104.9	(MISSING CORE) - Pieces of chlorite schist only										
104.9	110.4	GREYWACKE: 105.0 - 2cm qtz vein @ 50°, mineralized 105.5 - 5cm " " @ 65° 105.6 - 106 - CHLORITE SCHIST. 106.5 - 107 - " " 108.2 - 8cm qtz vein - BROKEN										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wipeu Pt.

HOLE NO. WP83-5 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		108.6 – 2cm gtz veiu - minor py.									
		108.7 – 108.8 – Several Qtz veins - "s" folds @ 70°									
		109.1 – 10cm gtz vein @ 60°									
		109.5 – 5mm gtz vein @ 70°									
		108.8 – 20cm gtz vein @ 45°									
110.4	116.0	Pseudo Breccia:									
		111.1 – 111.4 – Chlorite schist - minor Qtz veinlets									
		111.6, 112.2, 112.4 – Irregular gtz veinlets									
		113.7 – 2cm gtz vein @ 60°									
		114.7 – 115.5 – Narrow gtz stringers									
116.0	117.1	Chlorite Schist: 6 discontinuous gtz veins < 5mm @ 50°									
		116.2 – 2cm Qtz vein @ 50°									
117.1	121.3	Pseudo Breccia:									
		117.3 – 3 gtz veins < 1cm @ 35°									
		118.3 – 5cm gtz vein @ 60° - minor py/cpy									
		118.3 – 118.8 – Chlorite schist - some Qtz-stringers - highly contorted									
		119.3 – 2cm gtz vein									
		119.3 – " " "s" fold	9920		119.2	120.3	1.1			Mic	
		119.9 – 4cm " "									
		120.6 – 20cm Qtz – seam and. Minor py/cpy									
121.3	122.3	Chlorite Schist:									
		121.3 – Qtz vein cut on nose of "s" fold.									
		121.3–121.5 – 3 Qtz veinlets @ 60° - contorted									
		121.5–121.9 – Chlorite schist highly contorted									
		121.9–122.0 – Irregular Qtz frag. Minor py/po									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiggins Pt.

HOLE NO.: WP83-5 SHEET NO.: 6a

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
122.5	133.4	Ramba Breccia:	99704		122.5	124.2	1.7			NIL	
		122.5 – 2 cm gtz vein @ 60°									
		123.7 – 123.9 – Chlorite schist with minor Qtz veins @ 55°									
		124.3 – 124.5 – 4 Qtz veins < 5mm @ 55°									
		124.8 – 1 cm Qtz vein @ 70°									
		125.0 – 125.2 – Broken Qtz									
		125.9 – 7 cm gtz vein @ 55°									
		127.5 – 128.1 (Lost core)									
		128.15 – 130.8 (Lost core)	99708		130.8	133.0	2.2			NIL	
		131.1 – 131.2 – Chlorite schist – disrupted Qtz veins									
		133.0 – 5mm Qtz vein									
		133.1 – 4 cm " " distorted									
		133.1 – 133.4 – Chlorite schist – minor Qtz veins	99710		134.0	135.5	1.5			NIL	
133.4	135.0	Greywacke:									
135.0	136.4	Chlorite Schist: Highly distorted									
		135.9 – 3 gtz veins @ 50°. 2 sulphs V-C	99711		135.9	135.9	0.1			TRACE	?
		136.0 – 136.1 – 4 gtz veins ½ 2cm – Distorted	99713		135.9	136.5	0.6			NIL	
		136.1 – 136.4 – 3 gtz veins < 1cm @ 50°									
136.4	139.0	Pseudo – Breccia: Narrow chlorite schist bands @ 137.2, 137.8, 137.9 & 138.3 – 138.5. Minor gtz veining @ 30° to c.a.									
139.0	140.9	(Lost Core)									
140.9	145.0	Pseudo Breccia: Cuts core @ 10–15° to c.a.									
		143.1 – 3 cm gtz vein									
145.0	146.5	Chlorite schist: @ 60–70° to c.a. Cut by numerous stringers of gtz 1mm – 5cm									

LANGRIDGE – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.

HOLE NO.: WP82-5 SHEET NO.: 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON	
146.5	152.0	GREYWACKE: Partly brecciated. 146.6 – Qtz. vein (5cm wide) @ 40°										
152.0	153.1	CHLORITE SCHIST: Several veins 1cm – 3cm wide. Minor py/cpy. Actinolite blades in gtz. – Biotite – rich streaks.	99722		152.1	153.1	1.0			NIL		
153.1	154.3	GREYWACKE:										
154.3	159.8	PSEUDO BRECCIA: 158.5 – 3 gtz veins 1–2cm wide @ 30° to c.a.										
159.8	161.1	CHLORITE SCHIST: Numerous gtz stringers 1mm – 4cm. Good gold-quartz with biotite-chlorite stringers in gtz.										
161.1	170.5	GREYWACKE: Scattered bands of chlorite schist 1–2cm. 164.5 – 5cm gtz vein @ 60° 166.1 – CHLORITE SCHIST (20 cm) 169–169.4 – Pseudo breccia 169.1–169.9 – Chlorite schist @ 30°										
170.5	170.9	CHLORITE SCHIST:										
170.9	171.6	GREYWACKE: @ 40° to c.a.										
171.6	172.1	CHLORITE SCHIST: Numerous gtz stringers @ 60°										
172.1	173.6	GREYWACKE?										
173.6	174.1	CHLORITE SCHIST:										
174.1	176.6	GREYWACKE – SCHISTOSE @ 60° to c.a.										
176.6	177.7	CHLORITE SCHIST: 177.1 – 8cm gtz vein										
177.7	183.8	PSEUDO BRECCIA: Strongly brecciated – chloritic streaks from 177.7–179.8										
	183.8	END OF HOLE.										

DIAMOND DRILL RECORD

NAME OF PROPERTY Widow Point
HOLE NO. WP83-6 LENGTH 131.6
LOCATION
LATITUDE 9786.5 DEPARTURE 10510.4
ELEVATION 41.2 AZIMUTH 040°T DIP -45°
STARTED July 19/83 FINISHED July 22/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	040°			
131.6	-43°	040°T			

HOLE NO. WP83-6 SHEET NO. 1
REMARKS

LOGGED BY A. Gourlay / R. McNeil

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE SUP. PH-DES.	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	19.2	OVERBURDEN										
19.2	29.3	Pseudo Breccia:										
		19.7 - Quartz vein (1.5cm) @ 65°										
		19.8-19.9 - Fe-stained sil'd & gtz veins 5cm & 5mm @ 65°										
		20.9-21.4 - chlorite schist with 7 gtz veinlets 1mm-2cm. @ 55°	99677		20.9	21.9	1.0			0.002		
		21.8 - 4cm gtz vein @ 70°										
		22.3 - 3cm gtz vein - magnetite - Fe stained										
		22.9-23 - Quartz @ 50°										
		23.5-23.8 - 3 gtz veins - 5" apart @ 50°										
		25.4-25.5 - Shear band	99678		24.9	27.9	3.0			0.003		
		26.1 - 1cm gtz vein @ 70°										
		26.2 - 2cm shear band - offset 6cm - mag py/hpy.										
		26.4 - 5cm gtz vein										
		26.9-27.1 - 3 gtz veins 5mm-1cm @ 55° - mag py/hpy										
		27.2 - Shear band (4cm) @ 50°										
		27.4 - 4cm Qtz vein @ 60°										
		27.9 - 1cm " " @ 50°										
		28.3-28.7 - chlorite schist - 2 gtz veins @ 40°										
		29-29.1 - Broken chlorite schist										
		29.3 - 8cm gtz vein @ 50°										
29.3	32.1	Greywacke:										
		30.6-30.8 - Quartz @ 60°	99682		30.5	31.5	1.0			0.001		
		30.8-31.2 - Broken chlorite schist										
		31.5-31.6 - " " "										

LAYCHOCKS - TORONTO - 360 1168
FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wheaw 24

HOLE NO. WP83-6 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE %SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
32.1	36.2	Pseudo Breccia:									
		32.2 - 33.3 } chlorite schist	99683		31.5	33.0	1.5			< 0.001	
		33.5 - 33.6 }	99684		33.0	33.9	0.9			0.055	
		35.9 - 2cm Qtz vein @ 60°	99685		33.9	36.4	2.5			< 0.001	
36.2	38.4	Chlorite schist:									
		36.6 - 2 + 2cm qtz veins @ 60°	99686		36.4	37.1	0.7			0.001	
		36.8 - 1cm " " @ 50°									
		36.9-37.2 - Greywacke - minor py.									
		37.5 - 3cm folded qtz vein "S" fold	99687		37.1	38.1	1.0			0.003	
		37.6 - 3cm vein of qtz + stain @ 85° Bleed on pr 3mm x 5mm. Right VG < 0.5mm.	99688		37.5	37.6	0.1			0.005	
		37.7 - 1 cm Qtz vein @ 60°									
38.4	43.0	Pseudo Breccia:									
		38.5 - 3 broken qtz veins (1-4cm thick) @ 40°	99689		38.1	39.1	1.0			0.007	
		39.3 - 2 cm qtz + stain vein @ 50° minor py	99690		39.1	42.6	3.5			0.001	
		39.4, 40.2 - 1-2cm stain bands @ 45°									
		41.1 - 1cm qtz vein @ 70° - vuggy.									
		41.5 - 7cm Felsic (stain) Band @ 50° cut by shear zone @ 75°									
43.0	45.4	Chlorite schist: Cut by numerous quartz stringers	99692		42.6	43.6	1.0			< 0.001	
		43.0 - 2 cm qtz vein @ 45°. Right of VG (1mm)	99691		43.0	43.1	0.1			0.155	
		43.3 - 3 cm qtz vein @ 70° - Py - stringers	99690		43.6	46.6	3.0			0.003	
		43.6 - 44.1 - Pseudo Breccia.									
		44.5 - 1cm "S" folded qtz vein @ 40°									
		44.7 - " " " "									
45.4	52.2	Pseudo Breccia:									
		46.1 - 2cm stain band @ 70°	99691		46.6	49.6	3.0			No Assay	
		46.3 - 1cm qtz vein @ 90°									
		46.8-46.9 - Chlorite schist - Cut by qtz stringers @ 90°									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiconi PT

HOLE NO. WPB3-6 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		47.0 – 10 cm SKARN BAND @ 55°									
		48.0 – 2cm qtz + SKARN band @ 60°									
		48.2–48.3 – 4cm & 2cm qtz VEINS @ 60° minor py									
		49.1 – 1-2 cm qtz VEIN @ 40°, blebs of py									
		49.7 – 5cm SKARN band @ 60°									
		49.9 – 1cm qtz VEIN @ 70° – Continuous PY.									
		50.4 – 4cm qtz VEIN @ 60° – Blebs of py in greywacke									
		51.7, 52.1 – 1-2cm qtz VEINS @ 60°									
52.2	54.0	CHLORITE SCHIST:									
		52.5 – 2cm qtz VEIN @ 60°									
		53.4 – 1cm qtz " "									
		53.8 – 3cm SKARN band									
54.0	57.5	PSEUDO BRECCIA:									
		55.7 – 3cm SKARN BAND @ 70° – BLEBS OF PY	99696		54.7	56.0	1.3			0.001	
		56.4 – 56.7 – CHLORITE SCHIST, 2cm qtz VEIN	99576		56.0	56.5	0.5			0.002	
		@ 40° – AT LEAST 15 SPOTS OF VG	99578		56.5	56.6	0.1			18.810	
		0.5 – 1mm.	[illegible]								
			99577		56.6	57.0	0.4			0.001	
		57.5 – Blebs of py, common	99697		57.0	58.5	1.5			0.001	
57.5	58.4	CHLORITE SCHIST: Kinked @ 60°									
58.4	60.4	PSEUDO BRECCIA:	99698		58.5	61.5	3.0			0.002	
		58.7 – 6 cm SKARN band @ 70° – py stringers									
		59.0 – 1cm qtz + SKARN band @ 30°									
		59 – 59.3 – CHLORITE SCHIST @ 60°									
60.4	62.0	CHLORITE SCHIST:									
		60.5 – 61.1 – greywacke									
		61.2 – 1cm qtz + SKARN band @ 70°. Minor py/cpy									
		61.6 – 2cm qtz VEIN @ 50°									
62.0	62.5	PSEUDO BRECCIA:	99699		61.5	62.5	1.0			0.001	
		62.4 – 1cm qtz VEIN @ 70°									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiessu Pt

HOLE NO. WP83-6 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS oz TON	ASSAYS oz TON
62.5	64.7	CHLORITE SCHIST:	99700		62.5'	63.5'	1.0			0.005	
		62.9 – 4 cm gtz vein @ 30°									
		63.0 – 1mm gtz vein – Filled									
		63.2 – 1-2cm stkwk gtz vein @ 60°									
		63.4 – 2cm gtz vein @ 70°	99751		63.5'	64.8	1.3			< 0.001	
		63.6 – 4mm gtz vein @ 60° – minor py/cpy									
		64.0-64.1 – Pseudo BRECCIA									
		64.6 – 5cm gtz vein @ 60°									
64.7	67.9	Pseudo Breccia:									
		65.3 – 7cm gtz vein – brecciated, minor py/cpy									
		67.5 – 8cm gtz vein " "	99753		67.8	70.3	2.5'			0.005	
67.4	69.0	SKARN ZONE									
69.0	75.4	CHLORITE SCHIST									
		69.1 – 3mm gtz vein – "S" fold @ 50°									
		69.6 – 7cm " " – minor py/po	99754		70.3	72.1	1.8			< 0.001	
		69.7 – 70.4 – Pseudo BRECCIA									
		70.4 – 70.8 – Series of "S" folds in quartz (6mm – 1cm)									
		70.9 – 71.3 – GREENWACKE									
		71.3 – 1cm gtz vein @ 50°									
		71.3 – 72.0 – Pseudo Breccia, minor py/galena									
		72.2 – Irregular 2cm gtz vein @ 70°	99755		72.1	73.2	1.1			0.001	
		72.3 – 2 gtz veins (6cm & 1cm) "S" folds									
		72.8-73.0 – 4 gtz stringers – discontinuous									
		73.2-73.6 – Qtz veins 3mm – 6cm "S" folds									
		73.9-75.4 – 19 gtz stringers well-developed "S" folds minor py/cpy/po/gal @ 45°	99756		73.2	74.2	1.0			0.002	
			99757		74.2	75.3	1.1			< 0.001	

LANGBROEKS — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wigwam Pt.
HOLE NO.: WP83-6
SHEET NO.: 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	TOTAL	ASSAYS %	%	OZ TON	OZ TON
75.4	90.3	Pseudo breccia: Minor py/po scattered throughout									
		76.4 - 4cm qtz vein in narrow schist band									
		76.8 - Shear zone - gouge									
		78.0 - 78.3 - 3 qtz veins (1cm, 5cm, 6cm) @ 50°									
		78.3 - 7cm qtz vein									
		78.4 - 10cm " " @ 50°									
		78.5 - 1cm " " @ 30°									
		80.2 - 4cm schist band @ 65°									
		81.8 - 4cm qtz vein @ 50°	98760		81.3	82.9	1.6		No	Assays	
		82.7 - 2cm " " @ 65°	98761		82.9	83.9	1.0			<0.001	
		82.8 - 7cm " " @ 60°									
		82.8 - 83.6 - Chlorite schist - minor qtz veining @ 70°									
		83.2 - 5cm qtz vein @ 60°									
		83.4 - 8 cm " " @ 75°									
		84.5 - 3cm " " @ 70°									
		87.1 - 4cm " " @ 80°									
		88.1 - 1cm " "									
		89.7 - 2cm " "									
		90.2 - 1cm " " @ 65°									
90.3	93.2	Chlorite schist:									
		90.5 - 1cm qtz vein @ 55°	98766		90.7	92.3	1.6			<0.001	
		91.1 - 91.5 - Pseudo Breccia	98767		92.3	93.3	1.0			<0.001	
		92.1 - 5mm qtz vein @ 60°									
		92.4 - 5cm " " @ 30°									
		92.5 - 5cm " " @ 50°									
		92.6 - 1cm " " @ 65°									
		92.6 - 93.2 - 4 stringers of qtz < 4mm									
93.2	98.7	Pseudo breccia:									
		98.7 - 2cm qtz vein @ 40°									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wesmar Pt.

HOLE NO. NP83-6 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		94.9 – 5mm gtz vein @ 45°									
		95.2 – Qtz vein - broken									
		95.2-95.5 – Chlorite schist									
		95.5 – 4cm gtz vein - minor py/cpy - @ 70°									
		96.2 – 3cm gtz vein "S" fold, minor py/cpy.									
		96.5 – Broken quartz vein									
		96.7-97.2 – Greywacke.									
		97.2 – 7cm gtz vein @ 60°									
		97.9 – 3cm gtz vein @ 60°									
98.2	99.5	CHLORITE SCHIST:									
		98.7 – 99.3 – 4 gtz veins 24mm @ 60° – ½" bands	99772		98.2	99.7	1.5			<0.001	
		99.3 – 4cm gtz vein									
		99.6 – 2cm – "									
		99.7 – 8cm gtz vein @ 55° - minor py.									
99.5	116.5	Pebble breccia. Highly brecciated. Broken gtz veins @ 100.2, 100.5, 101.4.									
		101.6 – 1cm gtz vein @ 90°									
		102.5-102.7 – CHLORITE SCHIST - BADLY BROKEN									
		104.0-104.2 – CHLORITE SCHIST									
		104.7 – 2cm gtz vein @ 50°									
		104.7-104.9 – CHLORITE SCHIST.									
		104.9 – Highly fractured gtz vein									
		109.2-109.7 – Greywacke									
		111.8-112.0 – CHLORITE SCHIST									
116.5	122.2	CHLORITE SCHIST: Highly schisted - Fault zone with gouge & blocks of greywacke									
122.2	131.6	GRANITE: Contact @ 60°									
	131.6	END OF HOLE									

DIAMOND DRILL RECORD

NAME OF PROPERTY Wilson Point
HOLE NO. WP83-7 LENGTH 135.1 m
LOCATION
LATITUDE 9786.5 DEPARTURE 10510.4
ELEVATION 41.2 m AZIMUTH 085° DIP -45°
STARTED July 23/83 FINISHED July 25/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	085°			
135.1	-43°	085°?			

HOLE NO. WP83-7 SHEET NO. 1
REMARKS

LOGGED BY R. McNeil / A. Fowley

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	17.9	OVERBURDEN									
17.9	20.1	PSEUDO BRECCIA:	99649		17.9	20.1	2.2			<0.001	
20.1	21.1	CHLORITE SCHIST: BLEBS OF Py. 2×5 mm common. Also numerous Py stringers.	99650		20.1	21.1	1.0			<0.001	
21.1	21.7	PSEUDO BRECCIA: 21.6 – 2cm qtz vein @ 30° = "S" fold	99651		21.1	21.7	0.6			<0.001	
21.7	25.0	CHLORITE SCHIST: 21.9 – 2cm qtz vein @ 70° - minor py/po 22.2 – 4cm felsic (skarn) band. @ 80°	99652		21.7	25.0	1.3			<0.001	
25.0	25.7	PSEUDO BRECCIA: 25.7 – 2cm qtz vein @ 65° - Contains ~1% py/po	99653		25.0	25.7	0.7			<0.001	
25.7	26.5	(LOST CORE)									
26.5	27.9	PSEUDO BRECCIA: 26.6 – 2cm qtz vein – "S" fold @ 40°. Large stringers of Py. 27.3 – 10 cm skarn band.	99654		26.5	27.9	1.4			<0.001	
27.9	29.7	CHLORITE SCHIST: 27.9 – 2 × 1cm qtz veins @ 45°. Bleb of Py 28.2 – 4cm qtz vein – "S" folded @ 50°	99657		27.9	29.6	1.7			<0.001	
29.7	29.9	PSEUDO BRECCIA: Py. stringers common									
29.9	29.7	CHLORITE SCHIST: 29.6 – 3 cm qtz vein @ 50°. 2 sights VG one piece 0.5mm, other 1/2 mm.	99658		29.6	29.71	0.11			0.45	
29.7	31.2	GREENSTONE: 30.2 – 1cm qtz vein @ 50° 30.5–30.8 – CHLORITE SCHIST									

DIAMOND DRILL RECORD

NAME OF PROPERTY: WIDGEW POINT

HOLE NO: WPB3-7 SHEET NO: 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON	
31.2	34.8	PSEUDO BRECCIA:										
		31.6 - 31.8 - CHLORITE SCHIST @ 50°										
		32.1 - FAULT ZONE (30 cm wide)										
		33.1 - 3 cm Felsic qtz vein @ 55°, Massive py - stringers.										
		33.3 - 2cm qtz vein @ 30°										
34.8	35.7	GREYWACKE: Foliation @ 40°										
35.7	36.3	CHLORITE SCHIST:										
		36.1 - 2½ 1cm qtz vein @ 60° - py. stringers										
36.3	38.2	GREYWACKE:										
		37.4 - 4 cm qtz vein @ 30° - biotite stringers										
38.2	39.9	CHLORITE SCHIST:										
		38.3 - 1cm qtz vein @ 20°										
		38.7 - 6cm qtz vein @ 55°										
		38.8 - 1cm qtz vein @ 45° - 0.1mm slight dF VG	99665		38.73	38.80	0.07			0.014	~ ?	Too low
		39.8 - 2cm shear band @ 50° - Stringers of py Cpy/galena	99666		38.8	39.9	1.1			<0.001		
39.9	40.8	PSEUDO BRECCIA: Py - stringers	99667		39.9	40.8	0.9			<0.001		
40.8	41.8	GREYWACKE:										
		41.0 - 8 cm qtz vein @ 35°	99668		40.8	41.8	1.0			<0.001		
		41.2 - 2cm qtz vein @ 40° - py blebs with galena										
41.8	43.6	CHLORITE SCHIST:										
		42.0 - 2cm qtz vein @ 60° - minor py/po	99669		41.8	42.7	0.9			<0.001		
		42.9 - 1cm qtz vein - "S" fold										
43.6	45.1	PSEUDO BRECCIA:	99670 99669		42.7	43.6	0.9			<0.001		
45.1	46.1	GREYWACKE: 14 cm shear band @ 45° & 60° to C.A.										
46.1	47.5	PSEUDO BRECCIA: Several shear bands @ 80° to C.A.										

LANGRIDGES – TORONTO – 366-1168

FORM 8

DIAMOND DRILL RECORD

NAME OF PROPERTY: Willoaw Point

HOLE NO. WP83-7 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON	
47.5	49.5	CHLORITE SCHIST:										
		47.6 – 2cm gtz vein @ 55°										
		48.0 – 2cm " " @ 50° - 1% blebs of py common										
		48.5 – 1cm " " @ 50°										
		48.6-49.0 – Pseudo BRECCIA										
		49.2-49.4 – 2cm gtz vein + 3cm basic (skarn) band										
49.5	50.1	GREYWACKE:										
		50.0 – 3 cm gtz vein @ 65° – py stringers										
50.1	50.5	CHLORITE SCHIST:										
		50.2 – 1cm gtz vein @ 40°										
50.5	56.2	PSEUDO BRECCIA:										
		51.1 – 1-4 cm gtz vein "a" bands @ 55°										
		52.5 – 5cm skarn band @ 40°										
		53.7 – 2cm gtz vein @ 40°	99603		53.5	56.2	2.7			<0.001		
		55.1 – 2cm gtz vein @ 50°										
		55.1-56.5 – CHLORITIZED GREYWACKE										
56.2	59.0	CHLORITE SCHIST:										
		56.2 – 3cm skarn band @ 35°. Minor py. blebs										
		56.4 – 4cm gtz vein @ 55° – py/Cupy.										
		56.5 – 1cm gtz vein @ 30°	99604		56.2	57.1	0.9			<0.001		
		57.8 – 1cm gtz vein @ 40° – Minor py/py/Cupy.										
59.0	60.6	PSEUDO BRECCIA:	99605		57.1	58.0	0.9			<0.001		
		59.0-59.3 – Chloritized with minor gtz veining @ 15°	99606		58.0	59.0	1.0			<0.001		
		60.2 – 20 cm gtz vein @ 45°. 3% of py.										
60.6	62.1	GREYWACKE: Minor gtz veining @ 40-45°										
		62.1 – 4cm gtz vein @ 40°										
62.1	62.7	CHLORITE SCHIST:										
		62.3 – 1cm gtz vein @ 30°										

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wawa Pt.

HOLE NO: WPR3-7 SHEET NO: 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS 03 TON
62.7	72.8	PERIDOTITE BRECCIA:									
		62.8, 63.4 – (2-4)cm stringer bands @45°									
		64.4 – 1cm qtz vein @45°									
		64.5 – 64.7 – Breccia									
		65.2 – 2cm stringer band @45°									
		(66.7–67.3) CHLORITE SCHIST – 4 QTZ veins < 8mm "S" FOLDS – discontinuous veining									
		67.6 – 2cm QTZ vein @50° – minor py									
		67.8 – 1cm " "									
		68.0 – 2cm " " @30°									
		68.5 – 1cm " " @50°									
		68.8–68.8 – CHLORITE SCHIST									
		69.1–69.3 – CHLORITE SCHIST									
		70.1–70.5 – CHLORITE SCHIST – BROKEN									
		71.8 – 4cm qtz – stringer band	99613		70.4	72.8	2.4			0.003	
72.8	73.5	CHLORITE SCHIST: Biotite content increases									
		well-developed chlorite–biotite schistosity @40°	99614		72.8	73.5	0.7			0.040	
		Numerous qtz stringers									
		73.5 – 1cm qtz vein @45°									
73.5	76.5	GRANOPHYRE:									
		74.8 – 5cm qtz vein @40° – Schistose									
		76.3–76.5 – Numerous qtz stringers @50°	99615		73.5	76.5	3.0			<0.001	
76.5	79.0	CHLORITE SCHIST:	99616		76.5	77.1	0.6			<0.001	
		77.3 – Shear zone @ 15°									
		77.6–78.2 – PERIDOTITE BRECCIA	99617		77.1	78.2	1.1			<0.001	
		78.2–78.3 – 4 qtz stringers @60° – "S" FOLDS									
		78.7 – 2 qtz stringers – discontinuous	99618		78.2	79.0	0.8			<0.001	
79.0	81.9	PERIDOTITE BRECCIA:									
		80.5 – 4cm qtz vein @ 90°									
		80.8–80.9 – CHLORITE SCHIST									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiconi Pt

HOLE NO: WP83-7 SHEET NO.: 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SLEPH USED	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ PER	ASSAYS OZ PER
91.8	93.9	CHLORITE SCHIST:									
		91.9 – Qtz lens in chlorite schist									
		92.0 – 2mm gtz vein @ 60° – "S" FOLDS									
		92.2 – 1cm gtz vein @ 40°									
		92.9–93.0 – 3 gtz veins – highly folded @ 40°									
		93.1–93.6 – Discontinuous gtz lenses in chlorite schist									
93.9	96.8	ROUND BRECCIA:									
		95.0 – 2cm gtz vein – broken @ 40°									
96.8	97.9	CHLORITE SCHIST:									
		96.9–97.2 – Qtz with 2 chlorite schist bands @ 70°									
		97.3 – 10 cm gtz vein – minor py.									
		97.5 – 2cm gtz vein – @ 50°									
		97.8–97.9 – 3 gtz veins 4mm – 5cm @ 60°									
97.9	96.7	ROUND BRECCIA:									
		99.0–89.3 – 2 gtz veins (4 – 8cm) @ 40°									
		90.3 – 6mm gtz vein @ 45°									
		90.5 – 2 cm gtz vein – broken @ 40°									
		91.0 – 3 cm gtz vein @ 30°									
		91.0–91.4 – CHLORITE SCHIST									
		91.2 – 10 cm gtz vein @ 50°	3429		91.0	92.0	1.0			<0.001	
		92.5 – 1cm " "									
		93.3 – Highly broken 1cm gtz vein @ 30°									
		93.3–93.6 – SHEAR ZONE									
		93.6–96.7 – FAULT ZONE									
96.7	98.2	CHLORITE SCHIST Highly sheared	3434		96.7	97.7	1.0			<0.001	
98.2	99.4	ROUND BRECCIA:	3435		97.7	98.2	0.5			<0.001	

FORM B

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.

HOLE NO. WP83-7 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON	
99.4	101.0	Chlorite schist: Highly sheared & broken @ 35°										
		100.3 – Broken qtz	3437		99.4	100.2	0.9			<0.001		
		101.1 – 6cm shear band. @ 40°										
101.0	104.2	Pseudo breccia:										
104.2	106.3	CHLORITE SCHIST:										
		105.1 – SHEAR ZONE – HEALED @ 80° to c.a.	3440		104.1	105.2	1.1			<0.001		
106.3	107.0	Pseudo Breccia: True breccia – broken 1cm qtz vein	3441		105.2	106.3	1.1			<0.001		
107.0	108.9	Granite: Highly sheared. Upper contact @ 20°										
		Foliation @ 40-50° to c.a.										
		Muscovite ≫ biotite. Granite locally sericitized										
		Lower contact @ 20°										
108.9	109.7	CHLORITE SCHIST: Highly sheared @ 40° to c.a.										
109.7	113.3	Pseudo breccia:										
		111.4–111.6 – CHLORITE SCHIST @ 45°	3447		113.1	113.5	0.4			<0.001		
		112.4 – Pegmatite – qtz vein (1cm) @ 20°. Minor Py/cpy/galena.	3448		113.5	114.3	0.8			<0.001		
		112.6 – 5cm pegmatite @ 20° – broken										
		113.1 – pegmatite vein (1cm) @ 35° also @ 113.3										
113.3	116.1	CHLORITE SCHIST: Foliated @ 40°										
		(113.8–114.2) granite lens – 2cm wide // to c.a.										
		114.2 – 115.1 – Pseudo breccia	3449		114.3	115.1	0.8			<0.001		
116.1	117.3	Pseudo breccia.										
117.3	124.0	CHLORITE SCHIST:	3450		116.1	117.3	1.2			<0.001		
		117.9 – QTZ LENS @ 30° also @ 119.6										
		119.2 – QTZ – SERICITE lens – sheared										
		119.4 – BROKEN QTZ VEIN										
		(121.0–121.2) – 3 BROKEN QTZ VEINS <1cm @ 30°										
		121 – 124 – BADLY BROKEN CORE										

LANGRIDGE'S TORONTO

DIAMOND DRILL RECORD

NAME OF PROPERTY Wawa Pt

HOLE NO. WP83-7 SHEET NO. 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ IDS
124.0	135.1	GRANITE- Qtz - FELDSPAR - MUSCOVITE GRANITE. FOLIATED @ 90° to c.a.									
		127.8 - 129.2 - PEGS DK. PINKISH represents an inclusion in the granite - sediment contact.									
	135.1	END OF HOLE									

LAWSON BROS. - TORONTO - 366-1165

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Wiconi Pt.
HOLE NO. WP83-5 LENGTH 43.3 m.
LOCATION 10 m. North of HIGHLAND SHAFT
LATITUDE Not surveyed DEPARTURE
ELEVATION ± 30 m. AZIMUTH ~~210°~~ 210°T DIP -45°
STARTED Sept 7/83 FINISHED Sept 8/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	210°			

HOLE NO. WP83-5 SHEET NO. 1
REMARKS

LOGGED BY R. McNeil / D. Fergeson

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	3.8	OVERBURDEN									
3.8	5.1	PEGMATITE: Light pink to white in color. Highly sheared Qtz - Feldspar - sericite rich.									
5.1	6.4	GREYWACKE: SHEARED									
6.4	10.4	PEGMA BRECCIA: 7.5-7.6 - CHLORITE SCHIST 8.3 - SHEAR BAND @ 50° 9.2 - " - @ 45° 10.1-10.2 - SHEAR ZONE @ 45°									
10.4	10.8	CHLORITE SCHIST: 10.5-10.7 - Massive qtz - vein @ 10° - Minor stringers	90255		10.4	12.5	2.1			0.001	
10.8	11.8	PEGMA BRECCIA: 11.4-11.6 - 1cm qtz vein @ 0°									
11.8	12.5	CHLORITE SCHIST: @ 30°. 12.2 - 15 cm qtz vein @ 30°									
12.5	17.3	PEGMA BRECCIA: Open with vugs to 3mm- 13.2 - SHEAR ZONE @ 5-10° - Minor calcite veining 13.8-14.3 - CHLORITE SCHIST 16.3-16.4 - CHLORITE SCHIST. Qtz. veins 1-2cm @ 60°. Minor py/po.									
17.3	21.8	CHLORITE SCHIST: 17.4-17.6 - 3½ cm qtz veins @ 35° 19.0-20.5 - Numerous qtz. veins 1mm-5cm @ 20°	90256		17.3	19.3	2.0			NIL	
			90257		19.3	21.8	2.5			0.001	

LANGRIDGES — TORONTO — 366-1165

DIAMOND DRILL RECORD

NAME OF PROPERTY Alcona Pt.

HOLE NO. WP83-5 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
21-9	24-5	Pseudo breccia: Much sheared material from 23-8 – 23.7. Cut by late calcite veining										
24-5	26-9	Greywacke: 25-9 - 26.2 — Qtz veining @ 40°. Veins 1mm - 5cm.										
26-9	30-6	Pseudo breccia: Vuggy openings. Much calc-silicate										
30-6	31-6	Greywacke @ 40° to c.a.										
31-6	34-2	Pseudo Breccia. Minor chlorite schist @ 32-9 – 33.2 @ 30° to c.a.										
34-2	34-7	Chlorite Schist										
34-7	37-5	Pseudo Breccia										
37-5	37-9	Chlorite schist:										
37-9	43-3	Pseudo Breccia: 38.6 - 39.3 – chlorite schist – 2qtz veins (1cm-2cm) @ 25° to c.a. Minor py. 39 – 43.3 Foliation @ 40° to c.a.										
	43-3	End of Hole										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wawa Pt.
HOLE NO.: WP83-9 LENGTH: 39.6 m.
LOCATION: 10 m. North of Highland Shaft
LATITUDE: Not surveyed DEPARTURE:
ELEVATION: ~30m AZIMUTH: 255° DIP: -45°
STARTED: Sept 9/83 FINISHED: Sept 10/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	255°			

HOLE NO. WP83-9 SHEET NO. 1
REMARKS:

LOGGED BY: D. Fedorowich

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	3.5	Overburden										
3.5	3.6	Pegmatite										
3.6	10.1	Pseudo Breccia. 5.1-5.2 - Minor qtz veins (1-2cm) @ 40° 5.7-5.9 - Chlorite schist @ 80° 6.8-6.9 - Minor broken qtz veins (< 1cm)										
10.1	11.1	Greywacke: Cut by numerous calc-silicate bands										
11.1	19.0	Pseudo Breccia: " " " " " @ 40° to c.a.										
19.0	22.0	Chlorite Schist: Foliated @ 15-20° to c.a. from 19 - 19.3 m. 19.4-19.6 - Qtz veins 1mm - 2cm @ 25°, "S" folds. Much stringers [illegible] section. Several stringers throughout section @ 25-30°	90258		19.0	22.0	3.0			NIL		
22.0	27.0	Greywacke: Foliated @ 45° to 26m then @ 15° to 27m										
27.0	29.5	Pseudo Breccia. @ 45° to c.a.										
29.5	32.5	Chlorite Schist: Foliated @ 20-30°. 29.5-29.7 - Several qtz veins (2-3cm). Stringers of qtz common to 31.0 m. Minor py/cpy.	90259		29.5	32.5	3.0			NIL		
32.5	35.1	Pseudo Breccia: Foliated @ 25° to c.a.										
35.1	36.5	Chlorite Schist										
36.5	39.6	Pseudo Breccia - Silicic. Foliation @ 30° to c.a.										
	39.6	End of Hole										

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Wood Point
HOLE NO. WPB3-10 LENGTH 186.7m
LOCATION 112 m. @ 049°T FROM WPB2-1
LATITUDE not surveyed DEPARTURE
ELEVATION ≈ 14 m. AZIMUTH 040° DIP -60
STARTED Sept 10/83 FINISHED Sept 11/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60°				
186.7m	-60°				

HOLE NO. WPB3-10 SHEET NO. 1
REMARKS

LOGGED BY B. Mitchell

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	8.5	OVERBURDEN
8.5	11.7	CHLORITE SCHIST 8.0 – 8mm gtz veins @ 30° 9.2 – 9.5 – Breakup – Re-stained 9.9 – 2 cm gtz vein @ 35° 11.1 – 8cm " " @ 30° minor py
11.7	12.0	Pseudo - Breccia
12.0	13.1	GREYWACKE:
13.1	18.2	CHLORITE SCHIST: Narrow gtz stringers < 1cm @ 30-40° 14.8 – 4 cm gtz vein 16.4 – 3cm " " @ 40° 17.6 – 17.9 – Qtz stringers @ 30-40°
18.2	19.0	GREYWACKE:
19.0	19.2	Pseudo Breccia
19.2	20.8	CHLORITE SCHIST:
20.8	21.3	Pseudo Breccia:
21.3	26.5	CHLORITE SCHIST: 23.0 – 1cm gtz vein @ 30° 23.8 – 24.1 – Pseudo Breccia
26.5	27.0	GREYWACKE
27.0	29.0	Pseudo Breccia: 27.5 – 1cm gtz vein @ 40° 27.9 – 5cm skarn band 28.5 – 28.8 – CHLORITE SCHIST – AUK EARNED SPOT CORE

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
78770		9.6	10.4	0.8			0.001		
78771		11.3	12.3	1.0			0.001		
78772		13.0	14.0	1.0			0.001		
78773		14.3	15.3	1.0			NIL		
78780		15.8	17.0	1.2			NIL		
78781		17.3	18.3	1.0			NIL		
78782		21.0	22.0	1.0			0.001		
78783		22.6	23.6	1.0			NIL		
78784		24.2	25.1	0.9			NIL		
78785		27.0	28.0	1.0			NIL		

LANGRIDGE – TORONTO – 366-1118

DIAMOND DRILL RECORD

NAME OF PROPERTY: WIDGEW PT.

HOLE NO.: WP82-10 SHEET NO.: 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ. PER TON	ASSAYS OZ. PER TON	ASSAYS
29.0	33.4	CHLORITE SCHIST: Commonly spotted with pink garnets and staurolites.	78786		29.6	30.6	1.0			NIL		
		30.3 – 3 cm qtz vein – minor py/cupy										
		30.7 – 31.0 – Pseudo Breccia										
		32.2 – 32.4 – Greywacke										
		32.4 – 32.5 – Schist band – numerous garnets										
		32.8 – 32.4 – Pseudo breccia										
33.4	33.7	Greywacke										
33.7	33.8	Pseudo Breccia: Garnet-rich – minor Py/Cupy.										
33.8	34.9	Chlorite Schist: Garnet/staurolite spot zone										
34.9	35.2	Pseudo Breccia: Minor Py/Cupy.										
35.2	38.8	Chlorite Schist:										
		35.6 – 2 x 2 cm qtz veins @ 40°. Garnets/staurolites common	78787		35.2	35.7	0.5			0.001		
		36.4 – 37.4 – Pseudo Breccia										
		37.3 – 2 cm qtz vein @ 30° – minor py/cupy										
		38.2 – 2 cm qtz vein @ 40° " " "										
38.8	39.5	Pseudo Breccia: Sharp – garnet rich bands 4 to 5 cm.	78788		37.3	38.6	1.3			NIL		
39.5	40.2	Chlorite Schist: Minor qtz veining.										
40.2	41.0	Pseudo Breccia: Numerous garnets										
41.0	42.0	Chlorite Schist: Minor bands of pseudo br.	78789		39.5	40.5	1.0			NIL		
		41.9 – 1 cm qtz vein @ 35° – Minor py/cupy.										
42.0	58.7	Pseudo Breccia: Mixed assemblage with schist & greywacke	78790		41.3	42.1	0.8			NIL		
		44 – 44.7 – garnet-rich										
		45.8 – Qtz vein – 1 cm @ 35° in schist										
		45.4 – " " " " " "										
		46.6 – " " " " minor Py/Cupy/Asp.	78791		45.2	46.2	1.0			NIL		
		47.2 – 3 cm " " " " " "										
		48.4 – " " " " " " "	78792		46.4	48.0	1.6			NIL		
		48.9 – " " " " " " "										
		50.2 – 2 cm " " " " " "	78793		48.2	49.2	1.0			0.001		

LANGFORDES – TORONTO – 360 5184

DIAMOND DRILL RECORD

NAME OF PROPERTY: Willowy P.T.

HOLE NO. WP83-10 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. ORES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
		51.1 – 1cm qtz vein @ 30° - minor py / Aspy.	78791		49.9	50.8	0.9			0.003	
		51.4-52.7 – Several qtz stringers <1cm @ 35°	78792		50.9	52.1	1.2			0.003	
		53.5 – 1cm qtz vein @ 30°									
		53.7 – " " " " minor py/Aspy	78796		52.5	53.9	1.4			0.030	
		54.7 – 2cm " " " " "									
		54.9 – 2cm " " " " "	78797		54.0	55.1	0.9			0.001	
		56.1 – 1cm " " " " "	78798		55.7	56.5	0.8			Nil	
		57.8-58.1 – Chlorite schist									
58.7	60.0	Chlorite schist: garnets common									
60.0	65.5	Pseudo Breccia:									
		60.4 – 1cm qtz vein @ 40° - minor py/po	78799		60.3	61.3	1.0			Nil	
		62.3 – " " " " "	78800		62.0	62.9	0.9			Nil	
		63.8-64.2 – CHLORITE SCHIST									
65.5	66.5	CHLORITE SCHIST:									
		65.8-65.9 – 5 x 5mm qtz stringers @ 35°									
		66.3 – 1cm qtz vein.									
66.5	75.0	Pseudo Breccia:	81926		65.7	66.7	1.0			Nil	
		67-67.3 – CHLORITE SCHIST	81927		67.1	68.0	0.9			Nil	
		68.9-71.2 – " "									
		71.6-71.9 – " "									
		74.1-74.4 – CHLORITE SCHIST									
		74.4-74.7 " " Qtz (1cm) @ 74.6 @ 35°	81929		71.0	72.0	1.0			0.002	
			81930		72.4	73.4	1.0			Nil	
75.0	76.4	CHLORITE SCHIST: Cut by several stringers of qtz	81931		73.9	74.8	0.9			Nil	
		73.4 – garnets common									
		76.3 – Qtz vein (1cm) @ 40° - minor py/Cupy									
76.4	79.6	Pseudo Breccia:	81932		75.1	76.5	1.4			Nil	
		76.9 – 8cm Qtz vein - 3" blobs minor py/Cupy									
		77.0 – 3cm " " Broken " " "									
		77.2 – 25cm " " " " @ 20°									
		77.4-77.5 – CHLORITE SCHIST									
		78.7 – 2cm qtz vein @ 30° minor po/Aspy.	81933		76.7	77.7	1.0			Nil	
			81934		78.1	79.0	0.9			Nil	

LANGFORDGES – TORONTO – 368-1188

FORM 5

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wilson Pt.

HOLE NO. WP83-10 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. ZONES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS oz/Ton	ASSAYS oz/Ton
		79.0 – 2cm Qtz vein @ 40°	81934		79.0	80.0	1.0			NIL	
79.6	81.7	CHLORITE SCHIST:	81935		80.8	81.9	1.1			NIL	
		79.7 – 24 2cm Qtz veins @ 45°: Minor py/cpy									
81.7	101.3	PEGMATOID DIABASE:	81936		82.3	83.2	1.0			NIL	
		82.3 – 40cm Skarn Band + Qtz veins - Minor py/cpy									
		83.0 – 2cm Qtz vein									
		83.6 – 84.7 – (FAULT ZONE)	81937		83.2	84.2	1.0			NIL	
		85.5 – 85.4 – CHLORITE SCHIST	81938		86.5	87.4	0.9			NIL	
		87.0 – 87.2 " "									
		87.4 – 1cm Qtz vein @ 35°	81939		87.4	88.3	0.9			0.001	
		88.1 – 89.3 – SKARN BANDS 10–15 cm thick @ 40°	81940		89.3	90.1	0.8			NIL	
		90.6 – 91.3 – CHLORITE SCHIST. minor Qtz-veining	81941		90.3	91.3	1.0			0.001	
		91.4 – 92.9 – SKARN BANDS 10–15 cm	81942		91.5	92.8	1.3			0.001	
		93.1 – 93.3 – CHLORITE SCHIST.	81943		95.0	96.0	1.0			0.001	
		94.2 – 94.6 – " "	81944		97.3	98.3	1.0			NIL	
		94.8 – 94.9 " "	81945		98.6	99.8	1.2			NIL	
		95.6 – 96.2 " "									
		96.2 – 99.3 – 4 Skarn bands @ 30° (10–15cm)									
		98.3 – 98.8 – CHLORITE SCHIST									
		99.2 – 98.6 – " " minor Qtz veining									
		99.6 – 100.2 – CHLORITE SCHIST – Minor Cpy & Py									
101.3	106.7	CHLORITE SCHIST	81946		99.9	101.0	1.1			NIL	
		101.9 – 1cm Qtz vein @ 35°	81947		101.2	102.3	1.1			0.001	
		102.3 – 102.7 – pinch & Gx.	81948		103.7	104.6	0.9			0.002	
		104.0 – 2cm Qtz vein @ 40°	81949		105.4	106.4	1.0			0.001	
		104.6 – 106.2 – Stockwork skarn bands 1–10 cm									
	106.7	END OF HOLE									

LAMUNROGED – TORONTO – 365-1108

DIAMOND DRILL RECORD

NAME OF PROPERTY Widow Point
HOLE NO. WP83-11 LENGTH 131.4
LOCATION 71m. @ 022° FROM WP83-5
LATITUDE All SURVEYED DEPARTURE
ELEVATION AZIMUTH DIP -60°
STARTED Sept 10/83 FINISHED Sept 14/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60°				

HOLE NO. WP83-11 SHEET NO. 1
REMARKS

LOGGED BY A. Gowans / B. Mitchell

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	15.2	OVERBURDEN										
15.2	19.2	CHLORITE SCHIST:	81951		19.2	20.8	5.6			0.003		
		15.5 - 3 qtz veins (<3mm)										
		15.6-15.8 - 3 qtz veins (<8mm)										
		15.9 - 1cm qtz vein @ 30°										
		16.5 - 2x3mm qtz veins @ 50°										
		17.5 - 9cm steam buck minor py/po										
		18.4-19.2 - Numerous qtz veins to 5cm - irregular, contorted py common										
19.2	21.8	PERIDOTITE BRECCIA:	81952		20.8	24.7	3.9			NIL		
		19.5-19.7 - 3 qtz veins 4/cm @ 60°										
		19.7-20 - Breccia - 20cm qtz vein @ 60° "S" veins										
		20.2-20.4 - 2 cm qtz veins @ 40°										
		20.5 - 1cm qtz vein @ 60°										
		20.7 - 5cm qtz vein @ 55°										
21.8	21.95	QUARTZ: @ 70°										
21.95	23.9	CHLORITE SCHIST:										
		22.2 - 3 cm qtz vein @ 50° - minor py.										
		22.3 - 2cm qtz vein @ 60°										
		22.4 - 10cm qtz - pyroxenite vein - minor calcite										
		22.7-23.2 - 5 qtz veinlets <3mm @ 55°										
		23.6 - 0-2cm qtz veins @ 50°										
		23.7-23.8 - 2-<5mm qtz veins @ 50°										
23.9	24.5	FELDSPATHIC:										
24.5	25.8	CHLORITE SCHIST:	81953		24.7	26.7	2.0			NIL		
		24.5 - 3cm qtz vein @ 50°										

LANGROSES — TORONTO — 366-1186

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wigwam Pt.

HOLE NO. WP83-11 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH (OES)	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON
		24.5 – 24.7 – 7 small qtz veinlets < 1mm @ 60°									
		24.9 – 5mm qtz veinlet – "S" folds									
		25.7 – 2cm qtz vein @ 50° – minor py									
25.9	28.3	Pseudo Bx:									
		26.3 – 27.0 – 3 x 2cm silicified bands @ 55°									
28.3	31.3	CHLORITE SCHIST:	P1954		28.3	30.6	2.3			TRACE	
		29.5 – 3 qtz veins < 3mm – "S" folds									
		29.1 – 3cm qtz vein @ 70°									
		29.6 – 29.7 – 2 x 5mm qtz veins @ 40° – minor py									
		30.4 – 3cm qtz vein @ 45°	P1955		30.6	31.4	2.1			NIL	
31.3	32.4	Pseudo Bx:									
		32.4 – 3cm qtz vein @ 40°									
32.4	33.1	CHLORITE SCHIST:									
		32.5 – 7cm qtz vein									
		32.6 – 32.8 – 3-4 qtz veins < 5mm – contorted									
		32.9 – 10 cm qtz vein, minor calcite veining									
33.1	36.1	Pseudo Bx:									
		33.5 – 8cm qtz vein – disrupted									
		34.2 – 1cm " "									
		35.0 – 15cm qtz vein @ 40°	P1956		33.5	36.4	2.9			NIL	
		35.2 – 1cm " " @ 40°									
		35.6 – 2cm " " @ 45°									
		35.9 – 36.1 – Broken core with numerous pieces of qtz									
36.1	36.9	CHLORITE SCHIST:									
		36.5 – 10 cm qtz veins (4mm – 5cm) minor py	P1957		36.5	40.3	3.8			NIL	
		36.9 – 2cm qtz vein @ 35°									
36.9	43.0	Pseudo Bx:									
		37.0 – 7cm silicified band @ 70°									

LANGFEDES — TORONTO — 368-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: Willow PT

HOLE NO.: W83-11 SHEET NO.: 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON	
		37.3 – 2cm gtz vein @ 70°										
		38.0 – 5cm gtz vein @ 55°										
		38.4 – 3cm " " @ 65°										
		38.5 – 1cm " " "										
		38.9 – 2½ 3mm " " @ 45°										
		39.1 – 2½ 2cm " " @ 50°										
		39.4 – 15 cm " " @ 55°										
		40.1 – 4 cm " " @ 60°										
		41.0 – 20 cm " " @ 40°										
		41.7 – 20 cm " " @ 65° minor py/cpy/galena										
		41.9 – 42.1 – CHLORITE SCHIST										
		42.1 – 2cm gtz vein @ 50°	81958		40.8	43.0	2.2			TRACE		
		42.5 – 42.7 – SKARN BANDS 1–2cm @ 50°										
		42.8 – 2cm gtz vein @ 45°										
43.0	45.2	CHLORITE SCHIST:										
		43.0 – 43.15 – BROKEN CORE – FRAGS. OF QTZ	81959		43.0	45.4	2.4			NIL		
		43.5 – 44.0 – BROKEN CORE – " " "										
		44.8 – 5cm zone of skarn/gtz @ 45°										
45.2	46.4	PSEUDO BX:										
		46.0 – 1cm gtz vein @ 40°	81960		45.8	49.8	3.8			TRACE		
		46.4 – 2cm " " @ 60°										
46.4	48.7	CHLORITE SCHIST:										
		46.9 – 6cm gtz vein @ 55°										
		48.1 – 2cm gtz " @ 55°										
48.7	49.3	PSEUDO BX:										
		48.7 – 49.0 – 2 skarn bands 5–10cm @ 40°										
		49.3 – SKARN BAND @ 55°. Minor py/galena										
49.3	49.8	CHLORITE SCHIST:										

LANGFEDGES – TORONTO – 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Willow Pt.

HOLE NO. WP83-11 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
49.8	51.7	Breccia Bx:									
		50.2 – 2cm qtz vein @ 60°	81961		50.0	52.0	2.0			TRACE	
		50.2–50.5 – Chlorite schist									
		50.4–51.3 – Shear bands (3–7cm) @ 50°									
		51.7 – 4cm qtz vein									
51.7	55.9	Chlorite schist:									
		52.4 – 2 "s" folded qtz veins ≤ 3mm @ 60°	81962		52.0	55.6	3.6			NIL	
		53.2–53.6 – Breccia Bx									
		53.6 – 1cm qtz vein @ 55°									
		54.2 – 3mm "s" folded qtz vein @ 60°									
		54.4–55.7 – Shear bands 1–6cm @ 55°									
		55.4 – 2cm qtz vein @ 40°									
55.9	60.5	Breccia Bx:									
		57.5–56.6 – Chlorite schist – minor qtz veining	81963		55.6	58.0	2.4			.002	
		58.2 – Irregular qtz in broken core									
		58.9 – 10 cm shear band									
		59.2 – 5cm qtz vein @ 45°									
		59.2–59.3 – Chlorite schist									
		60.0 – 1cm qtz vein @ 50°	81964		58.0	60.3	2.3			NIL	
60.5	64.2	Chlorite schist:									
		60.5 – 4cm qtz vein @ 70°									
		60.6–60.8 – 1–2cm shear beds.									
		61.4 – 1cm qtz vein @ 50°									
		61.5 – 4mm "s" folded qtz vein									
		61.7–62.1 – Breccia bx.									
		61.2, 61.3 – Narrow qtz veinlets @ 57°									
		61.4 – 1cm qtz vein – "s" folds									
		2cm qtz vein @ 45°									
		61.6 – 1cm qtz vein – "s" folds	81965		60.3	62.3	2.0			0.01	
		62.4 – 4cm shear band.									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wedge Pt.

HOLE NO. WP83-11 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		62.4 - 62.7 - Numerous qtz veinlets									
		63.3 - 10cm qtz vein @ 35°									
		63.6 - 1cm qtz vein @ 50°									
		63.7 - 1cm qtz vein @ 45°									
		64.0 - 2& 2cm qtz veins @ 50°									
64.7	69.7	Pseudo by:									
		65.7 - 7cm qtz vein @ 70°	#1966		62.3	64.5	2.2			NIL	
		66.2 - 1cm " " @ 60°									
		66.4 - " " "									
		66.5 1cm " " @ 55°									
		68.7 - 1cm " " @ 60°									
		67.5 - 6cm skarn band @ 57°									
		67.8 - SHATTERED QTZ									
69.7	70.0	Quartz Upper contact @ 50° Lower contact showed @ 47°	#1967		67.7	69.5	1.8			NIL	
70.0	71.2	Chlorite schist:									
		70.3 - 1cm & 3cm qtz veins - "S" folds.									
		70.6 - 2cm qtz vein									
		70.8 - 2+1cm qtz veins - well developed "S" folds.	#1968		69.5	71.7	2.2			0.01	
71.2	73.5	Fault zone: Highly sheared - Mixed pseudo by/schist									
		71.5 - 1cm distorted qtz vein									
		72.5-73.3 - Qtz veins - broken - 1cm - 3cm. Minor Py/Cpy.	#1970		71.7	74.3	2.6			NIL	
73.5	74.5	Pseudo by:									
74.5	75.0	Chlorite schist:									
75.0	80.2	Pseudo by:	#1971		74.3	77.0	2.7			TRACE	
		75.2 - 2cm qtz vein @ 35°									
		75.7 - 15cm " " minor Py/Cpy/po.									
		76.0 - 4cm " " @ 80° Py/galena.									
		76.6-77.2 - Narrow qtz veins < 5mm									
		77.7 - 1cm qtz vein									

LANGBRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wawa Pt.

HOLE NO. WP83-11 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH FOES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON
		78.5 – 65 cm qtz vein – minor py/po									
		79.3 – 25 cm " " "	81972		77.0	79.3	2.3			TRACE	
80.2	81.2	PSEUDO BX. Highly chloritized & sheared									
81.2	85.4	CHLORITE SCHIST:	81973		79.3	82.5	3.2			TRACE	
		81.6 – 82.1 – Qtz frags									
		83.0 – 1cm qtz vein	81974		82.8	85.2	2.4			NIL	
85.4	89.7	PSEUDO BX:									
		SHEAR BANDS @ 86.9 – 87.2									
89.7	94.0	CHLORITE SCHIST:	81975		89.3	91.0	1.7			NIL	
		89.9 – 1cm qtz vein – minor cpy/py									
		90.1 " – " " "									
		93.9 – 2mm qtz vein @ 30°									
94.0	96.8	PSEUDO BX:	90251		93.0	94.4	1.4			NIL	
96.8	98.0	CHLORITE SCHIST:									
98.0	101.4	PSEUDO BX:	90252		110.5	112.5	2.0			NIL	
		SHEAR BANDS @ 99.3, 99.4, 100.8 & 101.2									
101.4	102.6	SHEAR ZONE:									
102.6	103.5	CHLORITE SCHIST:									
103.5	104.4	PSEUDO BX:									
104.4	106.4	CHLORITE SCHIST: Minor shear bands @ 45°									
106.4	108.2	GREYWACKE - Slightly brecciated									
108.2	109.2	CHLORITE SCHIST:									
109.2	110.7	PSEUDO BX. Cut by 1-8cm shear bands									
110.7	112.7	CHLORITE SCHIST:									
		111.5 – 4cm qtz vein @ 45°									
		111.5 – 8cm qtz vein @ 60°									

LANGRIDGE – TORONTO – 364-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY Widow Pt.

HOLE NO. WP83-11 SHEET NO. 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS		ASSAYS	ASSAYS	
								%	%	OZ/TON	OZ TON	
112.7	114.7	PSEUDO BX: SHEAR BANDS @ 113.2 & 113.7 113.9 – 6mm QTZ VEIN										
114.7	115.8	CHLORITE SCHIST:										
115.8	121.6	PSEUDO BX: SHEAR BANDS @ 116.1, 116.8, 117.3, 118.5, 120.2 120.2 – 121 – CHLORITE SCHIST 121.2 – 121.4 – CHLORITE SCHIST										
121.6	125.2	CHLORITE SCHIST: 123.4, 123.5, 123.5, 123.7 – SHEAR BANDS										
125.2	125.7	PSEUDO BX:										
125.7	126.7	CHLORITE SCHIST:										
126.7	127.9	PSEUDO BX:										
127.9	129.7	CHLORITE SCHIST:										
129.7	131.4	PSEUDO BX	902574		129.5	131.0	1.5			NIL		
	131.4	END OF HOLE										

LANGPORTS – TORONTO – 366-1161

APPENDIX 2

AUGER DRILL LOGS

DIAMOND DRILL RECORD

Record of Augur Drilling

Augers 1-9

NAME OF PROPERTY Widgeon Point

HOLE NO. _____ SHEET NO. 1

LENGTH _____

LOCATION See MAP

REMARKS _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP Vertical (-90°)

STARTED July 19/83 FINISHED Sept 16/83

LOGGED BY D. Ferguson / B. Mitchell / R. Meyers

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

FOOTAGE METERS FROM	TO	DESCRIPTION	SAMPLE NO.	SAMPLE SKETCHES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	oz/TON	oz/TON	
Auger 1	0	8.8		Overburden								
	8.8	10.4		Greywacke								
#2	0	7.3		Overburden								
	7.3	8.2		Greywacke - minor py. stringers								
#3	0	13.3		Overburden								
	13.3	13.7		Greywacke								
#4	0	4.9		Overburden								
	4.9	6.4		Granite								
#5	0	4.3		Overburden								
	4.3	4.9		Granite								
#6	0	4.6		Overburden:								
	4.6	5.8		Granite								
#7	0	4.0		Overburden								
	4.0	5.2		Granite								
#8	0	4.0		Overburden								
	4.0	5.2		Granite-Greywacke								
#9	0	5.2		Overburden								
	5.2	5.7		Chlorite schist: minor qtz veining								
	5.7	7.4		Greywacke								
	7.4	8.6		Schist								
	8.6	12.5		Greywacke								

LANDRIDGES TORONTO 366-1166

FORM 1

Aiger Holes:

DIAMOND DRILL RECORD

NAME OF PROPERTY *Aiger Pt*

HOLE NO. *Aiger 10 - 12.* SHEET NO. *2*

Hole	Footage From	Footage To	Description	Sample No.	% Sulphides	Sample Footage From	Sample Footage To	Sample Footage Total	Assays %	Assays %	Assays OZ/TON	Assays OZ/TON	
#10	0	1.0	GREYWACKE:										
			0.5m – 2cm qtz vein – minor py/Cpy										
	1.0	1.2	CHLORITE SCHIST:										
			1.1m – 3mm qtz vein										
	1.2	3.6	GREYWACKE:										
			1.8 – 8cm qtz vein										
			2.0 – 1cm " "										
			2.4 – 3cm " "										
			3.5 – 9cm " "										
#11	0	4.3	OVERBURDEN:										
	4.3	5.1	Pseudo Bx:										
			5.0 – 1cm qtz vein. 1 small sight V.G @40° tca.	78768		4.3	5.9	1.6			NIL (?)		
	5.1	5.4	CHLORITE SCHIST:										
	5.4	6.0	Pseudo Bx:										
			5.7 – 1cm qtz vein @40° tca.										
#12	0	5.2	OVERBURDEN										
	5.2	7.3	GREYWACKE:										
			6.7 – 1cm qtz vein @10°	78766		6.7	8.2	1.5			NIL		
			6.9 – 2cm " " "	78767		8.2	10.1	1.9			NIL		
			7.3 – 2cm " " "										
	7.3	8.6	CHLORITE SCHIST: Minor qtz veining with minor py/Cpy.										
	8.6	9.7	Greywacke:										
			9.4 – 10 cm qtz vein @45° – minor py/Cpy.										
	9.7	11.0	CHLORITE SCHIST:										
			9.9 – 10.4 – QTZ vein 11 to c.a. Minor py/Cpy										

LANGRIDGES – TORONTO – 366-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow #4.

HOLE NO. Augs 13 – 24 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH ORES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS $	ASSAYS $	ASSAYS OZ/TON	ASSAYS OZ/TON	
#13 0	6.7	OVERBURDEN										
6.7	7.4	GRANITE										
#14 0	7.6	OVERBURDEN										
7.6	10	GRANITE										
#15 0	8.5	OVERBURDEN										
8.5	9.2	GRANITE										
#16 0	9.9	OVERBURDEN										
9.9	10.5	GRANITE										
#17 0	10.1	OVERBURDEN										
10.1	12.3	GRANITE – DARK – DIRTY GRANITE (NEAR CONTACT?)										
#18 0	10.7	OVERBURDEN:										
10.7	11.5	GRANITE – DARK – BIOTITE GRANITE										
#19 0	8.8	OVERBURDEN										
8.8	9.6	GRANITE										
#20 0	9.2	OVERBURDEN										
9.2	9.5	GRANITE										
#21 0	5.8	OVERBURDEN										
5.8	9.2	GREYWACKE										
#22 0	5.2	OVERBURDEN										
5.2	7.9	GREYWACKE										
#23 0	4.3	OVERBURDEN										
4.3	7.3	GREYWACKE										
#24 0	4.2	OVERBURDEN										
4.2	7.3	GREYWACKE										

DIAMOND DRILL RECORD

NAME OF PROPERTY Wiseau Pt.

HOLE NO. Wpa 25 — 27 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. (DES)	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
#25 0	6.2	OVERBURDEN										
6.2	7.2	GREYWACKE: Skarn Bands 1–5cm wide @ 6.8, 7.1, 7.4, 8.8 & 9.1 @15–25° to c.a										
9.2	9.8	Pegmatite:										
9.8	11.0	GREYWACKE: 10.4 – 10 cm skarn band spotted with almandite minor py. @ 15° to c.a										
11.0	11.6	Pegmatite: Quartz skarn band @ 11.5 & 20° to c.a										
11.6	11.9	GREYWACKE:										
#26 0	6.1	OVERBURDEN										
6.1	6.5	GREYWACKE: Badly sheared										
6.5	8.3	Pegmatite: 6.7 – Skarn band @ 25°										
8.3	8.9	CHLORITE SCHIST:										
8.9	9.5	GREYWACKE										
9.5	9.7	CHLORITE SCHIST – Broken. Foliated @ 40° to c.a										
9.7	10.1	Pegmatite										
10.1	10.4	Hornblite										
10.4	18.0	CHLORITE SCHIST:										
#27 0	3.1	OVERBURDEN										
3.1	4.3	CHLORITE SCHIST: 3.1 – 3.6 – Rusty – oxidized										
4.3	4.7	GREYWACKE @ 30° to c.a										
4.7	5.6	CHLORITE SCHIST: 4.9 – 2cm – granite dike @ 40°										
5.6	7.0	GREYWACKE: Skarn Bands 1–5cm @ 5.7, 5.9										
7.0	7.6	CHLORITE SCHIST:										
7.6	8.6	Pegmatite: Cut @ 20° to c.a										

LANGRIDGES — TORONTO — 300-1(6)

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow Pt.

HOLE NO. Auger 27 – 30 SHEET NO. 5

Hole	FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	OZ/TON	OZ/TON
#27 (Cont)	8.6	9.5	Greywacke – Cut @ 15° to c-a									
	9.5	10.3	Chlorite schist – Cut @ 30° to c-a.									
	10.3	11.2	Greywacke: Shear bands @ 35-40° to c-a.									
	11.2	12.4	Chlorite schist. 11.6 – 1cm qtz vein @ 40° – Blobs of Cpy to 2mm.									
	12.4	12.8	Pseudo Bx.									
	12.8	13.5	Greywacke: cut @ 35°									
	13.5	14.9	Chlorite schist: cut @ 35-40° to c-a.									
#28	0	3.7	Overburden									
	3.7	4.6	Chlorite schist: sheared and broken									
	4.6	6.6	Pseudo Bx:									
	6.6	7.0	Chlorite schist: 1cm qtz vein @ 60° – "S" fold									
	7.0	7.3	Pseudo Bx:									
	7.3	7.5	Chlorite schist									
	7.5	8.2	Pseudo Bx:									
	8.2	8.8	Chlorite schist:									
	8.8	9.4	Pseudo Bx:									
	9.4	9.6	Chlorite schist:									
	9.6	13.1	Pseudo Bx. Shear bands @ 10.4, 11.6 @ 60°									
#29	0	12.8	Overburden – No bedrock encountered – drilling stopped due to equip. loss.									
#30	0.	9.8	Overburden									
	9.8	10.4	Greywacke									
	10.4	13.7	Greywacke with numerous shear bands @ 10-20°									
	13.7	13.9	Quartz – broken – minor Py.									
	13.9	14.0	Greywacke									
	14.0	14.6	Chlorite schist @ 10° to c-a									
	14.6	15.6	Greywacke									

DIAMOND DRILL RECORD

NAME OF PROPERTY [illegible] Pt.
HOLE NO. Argus # 31 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	12.5	OVERBURDEN										
12.5	13.2	Pseudo BX:	3458		12.5	13.4	0.9			NIL		
13.2	14.5	CHLORITE SCHIST:	B1982		13.41	13.56	0.15			66.3		
		13.4 – 15 cm qtz vein - Probably a vase of qtz. 7 sights - V.G. (1mm – 2mm)	3459		13.56	15.24	1.68			0.004		
		14.3 – 1cm qtz + tkow vein @ 15° to c.a.										
14.5	16.5	Pseudo BX:	3460		15.24	16.46	1.22			NIL		
16.5	17.1	CHLORITE SCHIST:										
		16.5 – 30 cm qtz vein @ 60°. 15 sights V.G. 11 of which are in schist. Galena stringers common.	3461		16.46	17.07	0.61			0.220		
17.1	18.6	GREYWACKE: Several Tkow bands with Cpy/py.	3462		17.07	18.90	1.83			NIL		
18.6	19.2	Pseudo BX:	3463		18.90	20.43	1.53			NIL		
19.2	20.3	GREYWACKE:										
		20.1 – 0.5 cm qtz vein @ 20° - highly folded.										
20.3	22.3	CHLORITE SCHIST:	3464		20.43	21.95	1.52			0.042		
		21.3 – 0.5 cm qtz vein @ 20°										
		21.6 – 30cm qtz vein @ 30°	3465		21.95	23.78	1.83			NIL		
22.3	30.2	GREYWACKE:										
		23.8 – 1cm qtz vein - Laminated @ 30°										
		24.0 – 2cm qtz vein @ 30°	3466		23.78	24.54	0.76			NIL		
		24.2 – 24.7 – CHLORITE SCHIST. Minor py stringers										
		28.2 – 28.5 – QTZ stringers, highly folded @ 45°										
		28.6 – 2cm qtz vein @ 20° - Blebs of py to 3mm										
		28.8 – 29.1 – CHLORITE SCHIST - 0.5cm qtz vein										
		29.9 – 1cm qtz vein @ 20°										
30.2	30.5	CHLORITE SCHIST:										

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wiwow Pt

HOLE NO. Argus #32 SHEET NO. 7

FOOTAGE FROM	TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	TO	TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
0	12-2	OVERBURDEN									
12-2	13-9	GREYWACKE: with narrow stringers of qtz @ 12-2, 12-5, 13-5 @ 25° to c.a. Minor py- stringers.									
13.9	14-5	PSEUDO DY: Cut @ 5° to c.a									
14-5	17.2	GREYWACKE:									
		14-6 – 0.5 cm qtz vein @ 70°	3467		14.6	15.9	1-3			NIL	
		14.6-14.7 – CHLORITE SCHIST									
		14.9 – 1cm qtz vein @ 20°									
		15.4 – 45 cm qtz vein @ 5°. Minor py / galena;	3468		17.2	18-2	1-0			NIL	
17.2	17-7	CHLORITE SCHIST:									
		17.7 – 3cm skarn band @ 30°									
17-7	19-7	PSEUDO DY: Minor blebs of py to 3cm in width.									
19-7	21-1	GREYWACKE: Cut @ 45°									
21-1	21-2	PSEUDO DY									
21-2	22-2	GREYWACKE: Blebs of py to 5mm along fractures									
		22-2 – Shear with py stringers @ 30°									
22-2	23-4	CHLORITE SCHIST:									
		22.4 – 0-5cm qtz vein @ 20°. 4 sights VG largest 0.5mm. Py blebs to 2mm.	3469		22.4	23.4	1.0			0.08 (?)	
		23.0 – 0-5 cm qtz vein @ 30° - minor py.									
23-4	26-2	PSEUDO DY:	3470		23.4	26.2	2-8			NIL	
		23.7-24.0 – CHLORITE SCHIST @ C-10°									
		24.5 – Breccia – cherty									
26-2	26-8	CHLORITE SCHIST:									
		26.2 – 7cm qtz vein 12 sights VG (.2-1mm) Py blebs to 6mm - minor Cpy.	3471		26.2	27-1	0-9			0.110	
26-8	27-1	PSEUDO DY: Cut @ 10° ~ py stringers									

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wigwam Pt.

HOLE NO. Aug 4 #32 (cont.) SHEET NO. 8

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
27.1	28.4	Greywacke:
		27.4 – 5cm stringer band @ 90° – stringers + blebs
28.4	30.6	Chlorite schist:
		30.4 – 10 cm gtz vein – cut on base of 4" core
30.6	32.5	Greywacke: Cut @ 25–30° to c.a.
32.5	33.2	Chlorite schist: Cut @ 15°
		32.6 – 8cm gtz vein @ 40°
33.2	33.9	Pyrrhotite: Cut @ 20°
33.9	34.8	Greywacke: 2% stringers common @ 25–30° to c.a.
34.8	36.6	Pyrrhotite:
36.6	46.2	Chlorite schist:
		36.7 – 4cm gtz vein @ 35°. Blebs of py to 3mm.
		38.1 – 1cm gtz vein @ 15° – minor py.
46.2	41.9	Banded breccia:
		41.6 – 0.5 cm gtz vein @ 25° – granular gtz
41.9	46.9	Chlorite schist:
		41.9 – 0.2 cm gtz vein @ 45° – 1cm blob of py
		45.8 – 60 cm gtz vein @ 20° – minor py/galena.
46.9	48.2	Greywacke: cut @ 15° to c.a.
48.2	49.3	Chlorite schist:
		48.5 – 25 cm gtz vein (fine width – 2cm) @ 5° to c.a. minor py/galena
49.3	50.1	Greywacke:
50.1	52.7	Chlorite schist:
		50.1 – 50.5 – 2 gtz veins (1–2cm thick) Blebs of py common to 1cm in thickness
50.7	51.4	Pyrrhotite: Small veins. Cut @ 10° to c.a.
51.4	52.0	Greywacke:
		51.6 – 10 cm stringer band @ 40°. py blebs to 3mm
52.0	52.5	Chlorite schist: Cut @ 15° to c.a.

SAMPLE NO.	% SULPH IDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
3472		27.1	28.4	1.3			0.001		
3473		28.4	30.6	2.2			0.001		
3474		32.5	33.5	1.0			0.001		
3475		36.6	38.3	1.7			NIL		
78751		38.3	40.2	1.9			NIL		
78752		41.9	43.6	1.7			NIL		
78753		43.6	45.3	1.7			0.001		
78754		45.3	46.9	1.6			0.001		
78755		48.2	49.3	1.1			NIL		
78756		50.1	51.1	1.0			0.004		
78757		52.0	54.1	2.1			NIL		

LANGSTROOES — TORONTO — 366-1158

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wrenn Pt.

HOLE NO. Aegon 72 (cont) SHEET NO. 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH ORES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS oz/ton	ASSAYS oz/ton	ASSAYS
52.5	53.7	Pseudo BX: Choppy. Cut @ 20°										
53.7	54.1	Chlorite Schist: Silica bands 1-4cm thick @ 25° to c.a.	78758		54.1	56.3	2.2			NIL		
54.1	54.9	Greywacke: Cut @ 30°										
54.9	56.3	Pseudo BX: Silica bands cut @ 5 - 30°										
56.3	57.2	Chlorite Schist:	78759		56.3	57.2	0.9			0.002		
		56.5 - 56.8 - qtz veins (1-3cm thick) @ 15-20° to c.a.										
		0.6 ? (possibly Cupy) <1mm.										
57.2	66.5	Pseudo BX:										
		58.8 - 2mm qtz veins @ 30° - minor py/Cupy	78760		59.1	60.7	1.6			0.001		
		59.1 - 6cm " " @ 35° - " "										
		59.9 - 20cm " " @ 40° - " "										
		62.9 - 5mm qtz veins @ 30° - " "	78761		63.1	64.6	1.5			NIL		
		63.5 - 5cm " " @ 25° - " " + galena										
		64.5 - Breccia (20 cm)										
		66.6 - Stringers of qtz - Associated minor py/po/Cupy/galena.										
66.5	69.2	Chlorite Schist: Qtz veins (2mm-3cm) @ 10-15° to c.a. - minor py/Cupy.	78762		66.2	68.2	2.0			0.001		
69.2	69.5	Pseudo BX:	78763		69.4	71.0	1.6			0.001		
		69.4 - 2cm qtz veins @ 40° minor py/Cupy										
69.5	74.3	Chlorite Schist:										
		69.8 - 70.1 - 3 @ (1cm-5cm) qtz veins highly folded										
		70.8 - 2cm qtz veins @ 25° - minor py/Cupy	78764		71.0	72.7	1.7			0.001		
		71.2 - 71.8 - 8% 1cm qtz veins @ 15°										
		72.1 - 6cm qtz vein @ 15°										
		72.7 - 73.7 - 3 @ 1cm qtz veins @ 10° minor py/Cupy.	78765		72.7	74.3	1.6			NIL		
74.3	76.0	Pseudo BX:										
		75.9 - 6cm ± chlorite schist										

LANGRODGES – TORONTO – 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow #4

HOLE NO. Aug #33 – 44 SHEET NO. 10

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
Aug #33 0	2.0	OVERBURDEN										
2.0	9.5	GRANITE										
#34 0	3.7	OVERBURDEN										
3.7	6.1	Phyllite to 4.9', GRANITE TO 6.1	78804		3.7	5.2	1.5					
#35 0	2.4	OVERBURDEN										
2.4	7.6	GRANITE										
#36 0	2.4	OVERBURDEN	78801		2.4	4.4	2.0					
2.4	6.8	GRAPHITIC – PHYRROTITIC SLATE	78802		4.4	5.4	1.0					
			78803		5.4	6.8	1.4					
#37 0	2.3	OVERBURDEN										
2.3	4.6	GRAPHITIC SLATE: @ 30° - Minor py/Cpy - Carbo. py/stringers	78805		2.3	4.3	2.0					
#38 0	2.4	OVERBURDEN										
2.4	3.7	GRANITE										
#39 0	3.0	OVERBURDEN										
3.0	4.0	GRANITE:										
#40 0	1.8	OVERBURDEN										
1.8	4.3	GRAPHITIC SLATE: w 20% stringers pegmatite - Rock po.	78806		1.8	3.8	2.0					
#41 0	2.4	OVERBURDEN										
2.4	3.4	GRANITE:										
#42 0	2.3	OVERBURDEN:										
2.3	3.4	GRANITE – HIGHLY SHEARED										
#43 0	1.5	OVERBURDEN										
1.5	6.7	SLATE: Po/STRINGERS HCAT	78807		1.5	3.5	2.0					
			78808		3.5	5.0	1.5					
#44 0	0.9	OVERBURDEN-										
0.9	1.2	GRAPHITIC SLATE: Cut @ 30°										
1.2	5.2	GREYWACKE: HIGHLY BROKEN - MINOR QTZ STRINGERS										

LAST PAGE – CONTD

DIAMOND DRILL RECORD

NAME OF PROPERTY: Widow #1

HOLE NO. Boyer 45 - 54 SHEET NO. 11

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
#45 0	0.9	OVERBURDEN
0.9	1.8	GREYWACKE: Highly sheared
#46 0	1.9	OVERBURDEN:
1.9	3.4	PSEUDO BX:
		2.3 – 20 cm chlorite schist @ 20°
3.4	4.3	GREYWACKE: Cut @ 25°
4.3	6.4	PSEUDO BX:
		5.8-6.1 – CHLORITE SCHIST cut @ 10-15°
#47 0	1.8	OVERBURDEN
1.8	2.7	GRANITE.
#48 0	3.7	"OVERBURDEN"
3.7	6.1	PSEUDO BX: Cut @ 30° to c.a. Pretty broken
#49 0	3.4	OVERBURDEN
3.4	6.1	GRANITE
#50 0	2.0	OVERBURDEN
2.0	2.3	GRANITE
#51 0	5.2	OVERBURDEN
5.2	12.2	~~FRACTURE~~ GREYWACKE.
#52 0	4.6	OVERBURDEN
4.6	11.6	Greywacke – Fibration sub-parallel to c.a.
#53 0	4.8	OVERBURDEN
4.8	10.7	GREYWACKE
#54 0	7.9	OVERBURDEN
7.9	8.1	GRANITE.

SAMPLE NO.	% SULPH. ORES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON

DIAMOND DRILL RECORD

NAME OF PROPERTY: Wheaw Pt.

HOLE NO. Aqua 55-57 SHEET NO: 12

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
Aqua 55 0	8.5	OVERBURDEN										
8.5	10.4	GRAPHITIC – ARGILLITIC SCATE										
#56 0	5.5	OVERBURDEN										
5.5	9.1	GREYWACKE										
#57 0	3.7	OVERBURDEN										
3.7	7.0	GREYWACKE - Minor schist bands - subparallel to c.a.										

Aqua Drilling: STATS.

OVERBURDEN DRILLED : 305.4 m.

BEDROCK DRILLED : 208.1 m.

TOTAL 513.5 m.

APPENDIX 3

RESULTS OF ASSAYS AND ACID LEACHES

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

Done Rm

TO Outland Resources
704-535 Thurlow Street
Vancouver, British Columbia

84 093

REPORT NO. 413-1661
DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au		MARKED		oz/ton Au		MARKED		oz/ton Au	
79342 A	0.004	AS 2/18	79355 A		0.002		79362 A		LO.001	
B	0.003		B		0.001		B		LO.001	
C	0.003		C		0.001		C		0.001	
79351 A	LO.001		79356 A		0.002		79363 A		0.001	
B	LO.001		B		0.001		B		0.002	
79351 C	LO.001		79356 C		0.001		79363 C		0.002	
79352 A	0.001		79357 A		LO.001		79364+65 A		0.001	
B	LO.001		B		LO.001			B	0.230	
C	0.001		C		LO.001			C	0.001	
79353 A	0.001		79358 A	AS 1/64	0.001		79366 A		LO.001	
79353 B	0.001		79358 B		0.001		79366 B		0.001	
C	0.002		C		0.002		C		LO.001	
79354 A	LO.001		79361 A		LO.001		79367 A		LO.001	
B	LO.001		B		LO.001		B		LO.001	
C	LO.001		C		0.002		C		LO.001	

✓ 3/6/237

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NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1661

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
79368 A	L0.001	79373 A	L0.001	79378 A	L0.001
B	L0.001	B	L0.001	B	0.001
C	L0.001	C	L0.001	C	L0.001
79369 A	L0.001	79374 A	0.001	79379 A	0.001
B	L0.001	B	0.001	B	0.002
79369 C	L0.001	79374 C	0.001	79379 C	0.002
79370 A	0.006	79375 A	0.001	79380 A	0.004
B	0.002	B	0.001	B	0.002
C	0.001	C	0.001	C	0.003
79371 A	L0.001	79376 A	L0.001	79381 A	0.003
79371 B	L0.001	79376 B	L0.001	79381 B	0.003
C	L0.001	C	L0.001	C	0.004
79372 A	L0.001	79377 A	L0.001	79382 A	L0.001
B	L0.001	B	L0.001	B	L0.001
C	L0.001	C	L0.001	C	L0.001

As 139

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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W. Wong

D-21

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1661

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
79383 A	L0.001	79388 A	L0.001	79393 A	0.001
B	L0.001	B	L0.001	B	0.001
C	L0.001	C	0.001	C	L0.001
79384 A	L0.001	79389 A	0.002	79394 A	L0.001
B	L0.001	B	0.002	B	L0.001
79384 C	L0.001	79389 C	L0.001	79394 C	L0.001
79385 A	0.001	79390 A	L0.001	79395 A	L0.001
B	L0.001	B	L0.001	B	L0.001
C	L0.001	C	L0.001	C	L0.001
79386 A	L0.001	79391 A	0.001	79396 A	L0.001
79386 B	0.001	79391 B	L0.001	79396 B	0.001
C	L0.001	C	L0.001	C	L0.001
79387 A	L0.001	79392 A	L0.001	79397 A	0.001
B	L0.001	B	L0.001	B	0.001
C	L0.001	C	L0.001	C	L0.001

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A. Wong

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1661

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
79398 A	L0.001	79403 A	0.002	79408 A	L0.001
B	L0.001	B	0.003	B	L0.001
C	L0.001	C	0.005	C	L0.001
79399 A	L0.001	79404 A	L0.001	79409 A	0.001
B	L0.001	B	L0.001	B	L0.001
79399 C	L0.001	79404 C	L0.001	79409 C	0.002
79400 A	0.005	79405 A	L0.001	79410 A	0.001
B	0.005	B	L0.001	B	L0.001
C	0.006	C	L0.001	C	L0.001
79401 A	0.001	79406 A	L0.001	79411 A	L0.001
79401 B	L0.001	79406 B	L0.001	79411 B	L0.001
C	L0.001	C	L0.001	C	L0.001
79402 A	0.001	79407 A	0.001	79412 A	L0.001
B	0.001	B	L0.001	B	L0.001
C	0.002	C	L0.001	C	L0.001

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1661

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au		MARKED		oz/ton Au		MARKED		oz/ton Au
79413 A	L0.001		79418 A	As	0.001		79423 A		L0.001
B	L0.001		B	53	0.001		B		L0.001
C	L0.001		C		0.002		C		0.001
79414 A	L0.001		79419 A		0.001		79424 A		0.001
B	L0.001		B		L0.001		B		0.002
79414 C	L0.001		79419 C		L0.001		79424 C		0.001
79415 A	L0.001		79420 A		L0.001		79425 A		L0.001
B	L0.001		B		L0.001		B		L0.001
C	L0.001		C		L0.001		C		L0.001
79416 A	L0.001		79421 A		L0.001		79426 A		L0.001
79416 B	L0.001		79421 B		L0.001		79426 B		L0.001
C	L0.001		C		L0.001		C		L0.001
79417 A	L0.001		79422 A		L0.001		79427 A		L0.001
B	L0.001		B		L0.001		B		L0.001
C	L0.001		C		L0.001		C		L0.001

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W. Wong

NOTE:
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Pulps retained three months
unless otherwise arranged.

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1661

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au
79428 A	L0.001
B	L0.001
C	L0.001
79429 A	L0.001
B	L0.001
79429 C	L0.001
79430 A	L0.001
B	L0.001
C	L0.001
79431 A	L0.001
79431 B	0.001
C	0.001
79364/365 D	0.004
E	0.002
F	L0.001

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W. Wong

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

704-535 Thurlow Street,

Vancouver, B.C.

REPORT NO. 413-1270

DATE June 29, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

Copy to Smith F.D.F.

MARKED		ozs/ton Au	gms weight of +150 fraction						
65626		Nil							
68230		Nil	0.06						
237		Nil	0.12						
244		0.025							
245		Nil							
247		Nil							
248		Nil	0.06						
249		Nil	0.20						
250		Nil							
251		Nil							
252		Nil	0.04						
253		Nil							
255		Nil	0.07						
256		Nil	0.14						
278		L0.001	0.42						
286		Nil							
287		Nil							
288		Nil							
			L means less than						

BONDAR-CLEGG & COMPANY LTD.

Frank Doran

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

BONDAR-CLEGG & COMPANY LTD.

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Done Rm

Certificate of Analysis

TO Outland Resources
704-535 Thurlow Street
Vancouver, British Columbia

REPORT NO. . . 413-1625 . . . . . .
DATE . . . . July. 19, .1983 . . . . . .

I hereby certify that the following are the results of analyses made by us upon the herein described . . . . . core . . . . . samples

MARKED	oz/ton Au			Marked	oz/ton Au	Lakefield		Marked	oz/ton Au
79359 A	0.05			90342 A	0.06			99537 A	0.04
79359 B	0.05	> 2000 Ap		90342 B	0.06			99537 B	0.05
79359 C	0.05			90342 C	0.06			99537 C	0.04
79360 A	0.01			99501 A	0.03			99536 A	0.01
79360 B	0.01			99501 B	0.04			99536 B	L0.01
79360 C	0.01			99501 C	0.04			99536 C	L0.01
90318 A	0.14			99503 A	0.01				
90318 B	0.14			99503 B	0.01				
90318 C	0.14			99503 C	0.01				
90335 A	0.01			99505 A	0.11	0.31 oz/T			
90335 B	0.01			99505 B	0.10				
90335 C	0.01			99505 C	0.16				
90341 A	0.01			99510 A	0.02				
90341 B	0.02			99510 B	0.01		370		
90341 C	0.01			99510 C	0.01				

109 39 87 80 101/376 66

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NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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Certificate of Analysis

TO Outland Resources
704-535 Thurlow Street
Vancouver, British Columbia

REPORT NO. 413-1764
DATE July 28, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED		oz/ton Au								
WP83-6										
99577-A		0.001								
99577-B		0.001	56.6	57.0	—	.40	X.001	+ 0.0004		
99577-C		0.001								
99578-A		0.002								
99578-B		0.002	56.0	56.50	—	.50	X.002	+ 0.0010		1.382/1.0m.
99578-C		0.003								
99576		13.810 *	56.5	56.60	—	.10	X13.81	+ 1.3810		0.691/2m.

* Sample 99576 was entirely consumed in the fire assay process, and the 13.810 oz/ton concentration represents all of the gold in the submitted sample.

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NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

784 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Done

Certificate of Analysis

TO Outland Resources

704-535 Thurlow Street

Vancouver, British Columbia

REPORT NO. 413-1659

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	Cu	Pb	MARKED	oz/ton Au	MARKED	oz/ton Au
90301 A	0.001			90306 A	L0.001	90311 A	0.009
B	0.001			B	L0.001	B	0.007
C	L0.001			C	L0.001	C	0.007
90302 A	0.001			90307 A	L0.001	90312 A	0.001
B	0.001			B	L0.001	B	L0.001
90302 C	0.001			90307 C	L0.001	90312 C	0.025
90303 A	L0.001			90308 A	0.059	90313 A	0.001
B	L0.001			B	0.004	B	L0.001
C	L0.001			C	L0.001	C	0.001
90304 A	L0.001			90309 A	0.001	90314 A	0.001
90304 B	L0.001			90309 B	0.003	90314 B	0.001
C	L0.001			C	0.001	C	0.002
90305 A	L0.001			90310 A	0.009	90315 A	0.012
B	L0.001			B	0.012	B	0.009
C	0.001			C	0.012	C	0.010

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NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1659

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
90316 A	0.001	90322 A	0.001	90327 A	0.056
B	LO.001	B	LO.001	B	LO.001
C	0.001	C	0.011	C	LO.001
90317 A	LO.001	90323 A	0.004	90328 A	0.002
B	LO.001	B	LO.001	B	0.002
90317 C	LO.001	90323 C	LO.001	90328 C	0.005
90319 A	LO.001	90324 A	LO.001	90329 A	0.001
B	LO.001	B	LO.001	B	LO.001
C	LO.001	C	LO.001	C	LO.001
90320 A	LO.001	90325 A	LO.001	90330 A	LO.001
90320 B	LO.001	90325 B	LO.001	90330 B	LO.001
C	LO.001	C	0.001	C	LO.001
90321 A	0.001	90326 A	0.003	90331 A	0.001
B	0.001	B	0.006	B	0.002
C	0.001	C	0.003	C	LO.001

BONDAR-CLEGG & COMPANY LTD.

W. Wong

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1659

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
90332 A	L0.001	90338 A	0.001	90345 A	L0.001
B	L0.001	B	0.001	B	L0.001
C	L0.001	C	0.002	C	L0.001
90333 A	L0.001	90339 A	0.285	90346 A	L0.001
B	L0.001	B	0.324	B	L0.001
90338 C	L0.001	90339 C	0.302	90346 C	L0.001
90334 A	L0.001	90340 A	L0.001	90347 A	0.001
B	L0.001	B	L0.001	B	0.001
C	L0.001	C	L0.001	C	0.001
90336 A	L0.001	90343 A	0.003	90312 D	0.001
90336 B	L0.001	90343 B	0.004	90312 E	0.003
C	L0.001	C	L0.001	F	L0.001
90337 A	0.001	90344 A	L0.001	90308 D	0.006
B	L0.001	B	L0.001	E	0.001
C	L0.001	C	L0.001	F	0.002

NOTE:
Rejects retained two weeks
Pulps retained three months
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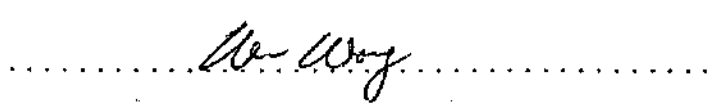
BONDAR-CLEGG & COMPANY LTD.



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Certificate of Analysis

TO Outland Resources

Page 4

REPORT NO. 413-1659

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au									
90327 D	L0.001			"						
E	L0.001	"		"						
F	L0.001	"		"						

BONDAR-CLEGG & COMPANY LTD.

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

Done
Km

TO Outland Resources
704-535 Thurlow Street
Vancouver, British Columbia

REPORT NO. 413-1660

DATE August 1, 1981

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au		MARKED	oz/ton Au		MARKED	oz/ton Au	
99502 A	0.013		99509 A	0.002		99515 A	L0.001	
B	0.011		B	0.001		B	0.001	
C	0.007		C	0.001		C	0.007	
99504 A	0.002		99511 A	0.002		99516 A	L0.001	
B	0.004		B	0.003	770 As	B	L0.001	
99504 C	0.003		99511 C	0.002		99516 C	L0.001	.37 6)2.24 1.8 44
99506 A	L0.001		99512 A	0.001		99517 A	L0.001	
B	L0.001		B	L0.001		B	L0.001	
C	0.001		C	L0.001		C	L0.001	
99507 A	L0.001		99513 A	L0.001		99526 A	2.22	# WP83-2
99507 B	0.005		99513 B	L0.001		99526 B	0.002	9.1 – 12.1 m
C	0.001		C	L0.001		C	L0.001	
99508 A	0.001	As	99514 A	L0.001		99527 A	L0.001	
B	L0.001	163	B	0.001		B	0.001	
C	0.001		C	0.002		C	0.001	

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

BONDAR-CLEGG & COMPANY LTD.

[signature]

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO **Outland Resources**

REPORT NO. **413-1660**

DATE **August 1, 1983**

I hereby certify that the following are the results of analyses made by us upon the herein described **core** samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
99528 A	0.002	99533 A	LO.001	99540 A	0.007
B	0.001	B	LO.001	B	0.010
C	0.001	C	LO.001	C	0.005
99529 A	0.002	99534 A	0.002	99541 A	0.001
B	LO.001	B	0.003	B	LO.001
99529 C	0.001	99534 C	0.003	99541 C	0.001
99530 A	0.002	99535 A	0.001	99542 A	0.001
B	0.002	B	0.002	B	0.001
C	0.002	C	0.002	C	0.002
99531 A	0.001	99538 A	LO.001	99543 A	LO.001
99531 B	0.001	99538 B	LO.001	99543 B	LO.001
C	0.002	C	0.038	C	LO.001
99532 A	LO.001	99539 A	0.109	99544 A	0.002
B	LO.001	B	0.039	B	0.002
C	LO.001	C	0.087	C	0.001

46.3 / 48.3

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Au-Wong

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

REPORT NO. 413-1660

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au	MARKED	oz/ton Au	MARKED	oz/ton Au
99545 A	L0.001	99550 A	0.006	99555 A	L0.001
B	L0.001	B	0.005	B	L0.001
C	L0.001	C	0.006	C	L0.001
99546 A	L0.001	99551 A	L0.001	99556 A	0.062
B	L0.001	B	L0.001	B	0.196
99546 C	L0.001	99551 C	L0.001	99556 C	1.220
99547 A	0.014	99552 A	0.005	99557 A	0.001
B	0.002	B	0.008	B	0.001
C	0.001	C	0.005	C	0.009
99548 A	0.009	99553 A	L0.001	99558 A	0.001
99548 B	0.003	99553 B	L0.001	99558 B	0.001
C	0.003	C	L0.001	C	0.001
99549 A	L0.001	99554 A	0.002	99559 A	0.003
B	L0.001	B	0.001	B	0.004
C	L0.001	C	0.001	C	0.006

80.8 - 81.2

1.436

.993

BONDAR-CLEGG & COMPANY LTD.

W. Wong

NOTE:

Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

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BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110

Certificate of Analysis

TO Outland Resources

Page 4

REPORT NO. 413-1660

DATE August 1, 1983

I hereby certify that the following are the results of analyses made by us upon the herein described core samples

MARKED	oz/ton Au		MARKED	oz/ton Au
99560 A	L0.001		99526 D	L0.001
B	L0.001		E	0.001
C	L0.001		F	L0.001
99561 A	L0.001			
B	L0.001			
99561 C	L0.001			
99562 A	0.001			
B	0.002			
C	0.001			
99538 D	0.002			
99538 E	0.003			
F	0.002			
99539 D	0.030	46.3		
E	0.030			
F	0.101	48.3		

Note: Three additional splits on 99556 to follow

BONDAR-CLEGG & COMPANY LTD.

A. Wong

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

0-21

CALEDONIA ASSAY OFFICE

Site #1, Box 40, Waverley, N.S. B0N 2S0
(902) 861-4501

Date:September 30 1983
Report # : 83-158

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 12 core samples received from D.Forgeron:

Sample #		split	Sample weight,grams	Total oz/ton Au
97710		1	2040	nil
97710		2	1815	nil
97710		3	2120	nil
97722		1	2040	nil
97722		2	2200	nil
97726		1	2350	nil
97726		2	2420	nil
3426	X	1	2040	nil
3426		2	2395	nil
3427		1	1815	0.001
3427		2	1695	nil
3428	X	1	1815	nil
3428		2	1910	nil
3429		1	1815	nil
3429		2	1955	nil
3430		1	1815	nil
3430	X	2	2040	nil
3431		1	2350	nil
3431		2	2270	nil
3432		1	2610	nil
3432		2	2640	nil
3433		1	1815	nil
3433		2	1305	nil
3438		1	2175	nil

D.M.Wolfe, B.Sc.
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

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(902) 242-2783

Date: August 17 1983
Report # : 83-118
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Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 6 core samples received from D. Forgeron:

Sample no.		Sample weight,grams		Acid leach oz/ton Au	Residue oz/ton Au	Total oz/ton Au
Hole #4						
99851	122.7-123.7	1900	1m	0.03	nil	0.03
99852	123.7-124.7	3790	1m	0.03	nil	0.03
99853	124.7-125.7	3830	1m	TRACE	nil	TRACE
99854	125.7-126.7	4035	1m	TRACE	NIL	TRACE
99855	126.7-128.0	4150	1.3m	TRACE	TRACE	TRACE
99856	A 128.0-130.9	3800		0.010	TRACE	0.010
99856	B	3510		TRACE	nil	TRACE
99856	C	2670		TRACE	TRACE	TRACE
		9980	2.9m			

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

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(902) 242-2783

Date: August 22 1983
Report # : 83-122
Page 1 of 1

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of analyses of 7 core samples received from D. Forgeron:

Sample #	wt.,kgs.		wt.+150	oz/ton Au+150	wt.-150	oz/ton Au-150
99818 A	12.2	#4	20	TRACE	300	TRACE
99818 B			2	TRACE	245	TRACE
99818 C			4	TRACE	295	nil
99819 A	12.2	#4	12	TRACE	305	TRACE
99819 B			3	nil	330	TRACE
99819 C			7	0.01	200	0.01
99820 A	6.4	#4	16	TRACE	345	TRACE
99820 B			21	TRACE	250	0.01
99820 C			32	TRACE	270	0.01
99821 A	9.1	#4	23	nil	420	nil
99821 B			23	TRACE	245	TRACE
99821 C			3	nil	340	nil
99823 A	8.5		11	0.04	310	0.02
99823 B		#4	2	TRACE	285	0.01
99823 C			3	nil	405	0.01
99824 A	8.9	#4	30	TRACE	315	TRACE
99824 B			14	TRACE	390	TRACE
99824 C			4	nil	385	TRACE
99825 A	3.4	#4	3	nil	345	0.01
99825 B			2	nil	230	nil
99825 C			2	nil	420	nil

C.R. Dunphy

C.R.Dunphy,Chief Assayer
Member C.M.A.

CALEDONIA ASSAY OFFICE
P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date: August 17 1983
Report # : 83-117
Page 1 of 1

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 5 core samples received from D. Forgeron:

Sample no.	Sample weight,grams	Acid leach oz/ton Au	Residue oz/ton Au	Total oz/ton Au
99820 A	2880	0.004	0.003	0.007
99820 B	2480	0.005	nil	0.005
	5360			
99822	3360	0.015	nil	0.015
99829 A	2650	0.004	0.015	0.019
99829 B	2830	0.004	nil	0.004
99829 C	3080	0.004	nil	0.004
	8560			
99836 A	3120	nil	nil	nil
99836 B	2950	0.002	nil	0.002
99836 C	3150	0.001	nil	0.001
99836 D	2930	0.002	nil	0.002
99836 E	3050	0.001	0.001	0.002
	15200			
99844	2660	0.043	0.006	0.049

D.M.Wolfe

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE
P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date: August 9 1983
Report # : 83-109

Outland resources
General Delivery,
Isaacs Harbour,N.S. B0H 1S0

Results of analyses of 7 core samples received from Dennis Forgeron:

Hole #4

Sample no.	oz/ton Gold	Wt.+150,grams	Total Wt.,kg
99822 A	TRACE		3.39
67-7 68-7 99822 A +150	TRACE | .015	0.29	
99822 B	TRACE		
99822 C	0.01		
99851 A	NIL		1.45
4 99851 B	TRACE | Acid Leach = 0.03		
99851 C	NIL		
99859 A	0.115; 0.05		4.42
4 99859 B	TRACE; 0.015		
99859 C	TRACE; TRACE		
99859 C +150	TRACE	2.3	
99885 A	NIL		3.96
99885 B	TRACE		
4 99885 B +150	TRACE	4.0	
99885 C	TRACE		
99885 C +150	TRACE	11.2	
99887 A	NIL		3.12
4 99887 B	TRACE		
99887 C	TRACE		
99893 A	TRACE		3.32
99893 B	TRACE		
4 99893 B +150	0.01	1.89	
99893 C	TRACE		
99893 C +150	TRACE	0.47	
99907 A	TRACE		1.27
99907 B	TRACE		
2 99907 C	TRACE		
99907 C +150	TRACE	0.28	

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

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(902) 242-2783

Date: August 25 1983
Report # : 83-131
Page 1 of 1

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 5 core and 1 rock sample received from D.Forgeron:

Sample #	Sample weight,grams	Acid leach oz/ton Au	Residue oz/ton	Total oz/ton Au
4 99869 A	2105	TRACE	nil	TRACE
99869 B	2380	TRACE	nil	TRACE
	4485			
4 99881	1870	TRACE	nil	TRACE
4 99885 A	2155	0.005	nil	0.005
99885 B	1780	0.005	nil	0.005
	3935			
4 99887	3090	TRACE	nil	TRACE
4 99895	2700	TRACE	nil	TRACE
Trench sample 50m. W of shaft 3457 B	286.5	11.45	TRACE	11.45

C.R.Dunphy

C.R.Dunphy,Chief Assayer
Member C.M.A.

3773-1
19.67
3812.78

CALEDONIA ASSAY OFFICE

P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date: August 5 1983
Report # : 83-108

Outland resources
General Delivery,
Isaacs Harbour,N.S. B0H 1S0

Results of analyses of 7 V.G. core samples received from Dennis Forgeron:

Hole # 4

		Sample no.		oz/ton Gold	Total wt	Total (m)	Sample width
3360 ms	67.7-68.7	V.G L 99822	= 398.12	0.49 / .106 m	3758.1	1.00	.106 m
1900 ms	122.7-123.7	V.G L 99851	= 429.13	0.78 / .184 m	2329.1	1.00	.184 m
4420 ms	133.9-135.0	V.G L 99859	322.07	0.21 / .075 m	4742-1	1.10	.075 m
3960		V.G L 99885	415.07	9.14 / .095 m	4375.07	1.0	.0949 m
3120		V.G L 99887	516-5	0.045 / .142	3636-5	1-0	.142 m
3320		V.G L 99893	363.3	0.100 / .089	3683.3	0.9	.089 m
1270		V.G. 99907	308-31	0.70 / .117 m	1578-31	0.6	.117 m

Results are based on fire assay of total sample submitted:

Details of results and calculations attached.

9.1403 / .095 m
-914 / .95 m

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

Sample #	Fraction	(A) Wt.,grams	(B) oz/ton Gold	(C) Col.AxCol.B	Col.C/Col.A Sample oz/t Au
V.G.99822	+ 150	0.12	4.86	0.5832	?
	- 150	380.00	0.50	190.0	
	- 150	18.00	0.29	5.22	
Total		398.12		195.8032	0.49
V.G.99851	+ 150	0.13	TRACE	0	
	- 150	400.00	0.78	312.0	
	- 150	29.00	0.85	24.65	
Total		429.13		336.65	0.78
V.G.99859	+ 150	4.05	0.845	3.42225	
	- 150	300.00	0.20	60.0	
	- 150	18.00	0.196	3.528	
Total		322.05		66.95025	0.21
V.G.99885	+ 150	16.03	86.55	1387.3965	
	- 150	380.00	6.04	2295.20	
	- 150	19.00	5.75	109.25	
Total		415.03		3791.8465	9.14
V.G.99887	+ 150	0.0	0.0	0.0	
	- 150	540.00	0.045	24.3	
	- 150	21.50	0.060	1.29	
Total		561.50		25.59	0.045
V.G.99893	+ 150	1.80	2.69	4.842	
	- 150	340.00	0.06	20.4	
	- 150	21.50	0.494	10.621	
Total		363.30		35.863	0.100
V.G.99907	+ 150	4.31	14.99	64.6069	
	- 150	280.00	0.51	142.8	
	- 150	24.00	0.395	9.48	
Total		308.31		216.8869	0.70

CALEDONIA ASSAY OFFICE

Date: August 5 1983
Report # : 83-108

SAMPLE #	Fraction	Wt.,grams	oz/ton Gold
V.G.99822	+ 150	0.12 ?	4.86 ?
	- 150	380.00	0.26; 0.38; 0.35; 0.26; 0.255; 0.335; 0.265; 0.32; 0.28; 0.46; 0.25; 0.35; 0.275; 0.18; 0.27; 3.71;0.495;0.29;0.45
	- 150	18.00	0.29
V.G.99851	+ 150	0.13	TRACE
	- 150	400.00	0.93; 0.815; 0.815; 0.895; 0.860; 0.785; 0.685; 0.665; 0.655; 0.785; 0.785; 0.845; 0.775; 0.87; 0.815; 0.73; 0.61; 0.625; 0.79; 0.825
	- 150	29.00	0.85
V.G.99859	+ 150	4.05	0.845
	- 150	300.00	0.145; 0.205; 0.125; 0.28; 0.205;0.195; 0.215; 0.145; 0.25; 0.225; 0.205; 0.29; 0.14; 0.105; 0.29
	- 150	18.00	0.196
V.G.99885	+ 150	16.03	86.55
	- 150	380.00	6.45; 5.95; 5.42; 5.65; 6.20;5.30;6.00; 5.80; 6.35; 6.55; 5.70; 6.10;6.15;6.40; 5.15; 6.10; 6.35; 6.15; 7.00
	- 150	19.00	5.75
V.G.99887	+ 150	NIL	0.0
	- 150	540.00	0.047; 0.048; 0.125; 0.070;0.060;0.040; 0.050; 0.060; 0.050; 0.060;0.055;0.065; 0.070; 0.050; 0.040; 0.065;0.055;0.045; 0.070; 0.040; 0.050; 0.050;0.060;0.050; 0.060; 0.040; 0.045
	- 150	21.50	0.060
V.G.99893	+ 150	1.80	2.69
	- 150	340.00	0.048; 0.036; 0.125; 0.075;0.045;0.055; 0.040; 0.075; 0.080; 0.090;0.055;0.070; 0.050; 0.040; 0.050; 0.060; 0.035
	- 150	21.50	0.494
V.G.99907	+ 150	4.31	14.99
	- 150	280.00	0.605; 0.445; 0.506; 0.315; 0.52; 0.81; 0.595; 0.58; 0.36; 0.315; 0.615; 0.47; 0.625; 0.42
	- 150	24.00	0.395

CALEDONIA ASSAY OFFICE
P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date: August 5 1983
Report # : 83-108

Outland resources
General Delivery,
Isaacs Harbour,N.S. B0H 1S0

Results of analyses of 7 V.G. core samples received from Dennis Forgeron:

Sample no.	oz/ton Gold
V.G. 99822	0.49
V.G. 99851	0.78
V.G. 99859	0.21
V.G. 99885	9.14
V.G. 99887	0.045
V.G. 99893	0.100
V.G. 99907	0.70

Results are based on fire assay of total sample submitted:

Details of results and calculations attached.

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

Sample #	Fraction	(A) Wt.,grams	(B) oz/ton Gold	(C) Col.AxCol.B	Col.C/Col.A Sample oz/t Au
V.G.99822	+ 150	0.12	4.86	0.5832	
	- 150	380.00	0.50	190.0	
	- 150	18.00	0.29	5.22	
Total		398.12		195.8032	0.49
V.G.99851	+ 150	0.13	TRACE	0	
	- 150	400.00	0.78	312.0	
	- 150	29.00	0.85	24.65	
Total		429.13		336.65	0.78
V.G.99859	+ 150	4.05	0.845	3.42225	
	- 150	300.00	0.20	60.0	
	- 150	18.00	0.196	3.528	
Total		322.05		66.95025	0.21
G.99885	+ 150	16.03	86.55	1387.3965	
	- 150	380.00	6.04	2295.20	
	- 150	19.00	5.75	109.25	
Total		415.03		3791.8465	9.14
V.G.99887	+ 150	0.0	0.0	0.0	
	- 150	540.00	0.045	24.3	
	- 150	21.50	0.060	1.29	
Total		561.50		25.59	0.045
V.G.99893	+ 150	1.80	2.69	4.842	
	- 150	340.00	0.06	20.4	
	- 150	21.50	0.494	10.621	
Total		363.30		35.863	0.100
V.G.99907	+ 150	4.31	14.99	64.6069	
	- 150	280.00	0.51	142.8	
	- 150	24.00	0.395	9.48	
Total		308.31		216.8869	0.70

OFFICE ------ CALEDONIA ASSAY

Date: August 5 1983
Report # : 83-108

SAMPLE #	Fraction	Wt.,grams	oz/ton Gold
V.G.99822	+ 150	0.12	4.86
	- 150	380.00	0.26; 0.38; 0.35; 0.26; 0.255; 0.335; 0.265; 0.32; 0.28; 0.46; 0.25; 0.35; 0.275; 0.18; 0.27; 3.71;0.495;0.29;0.45
	- 150	18.00	0.29
V.G.99851	+ 150	0.13	TRACE
	- 150	400.00	0.93; 0.815; 0.815; 0.895; 0.860; 0.785; 0.685; 0.665; 0.655; 0.785; 0.785; 0.845; 0.775; 0.87; 0.815; 0.73; 0.61; 0.625; 0.79; 0.825
	- 150	29.00	0.85
V.G.99859	+ 150	4.05	0.845
	- 150	300.00	0.145; 0.205; 0.125; 0.28; 0.205;0.195; 0.215; 0.145; 0.25; 0.225; 0.205; 0.29; 0.14; 0.105; 0.29
	- 150	18.00	0.196
V.G.99885	+ 150	16.03	86.55
	- 150	380.00	6.45; 5.95; 5.42; 5.65; 6.20;5.30;6.00; 5.80; 6.35; 6.55; 5.70; 6.10;6.15;6.40; 5.15; 6.10; 6.35; 6.15; 7.00
	- 150	19.00	5.75
V.G.99887	+ 150	NIL	0.0
	- 150	540.00	0.047; 0.048; 0.125; 0.070;0.060;0.040; 0.050; 0.060; 0.050; 0.060;0.055;0.065; 0.070; 0.050; 0.040; 0.065;0.055;0.045; 0.070; 0.040; 0.050; 0.050;0.060;0.050; 0.060; 0.040; 0.045
	- 150	21.50	0.060
V.G.99893	+ 150	1.80	2.69
	- 150	340.00	0.048; 0.036; 0.125; 0.075;0.045;0.055; 0.040; 0.075; 0.080; 0.090;0.055;0.070; 0.050; 0.040; 0.050; 0.060; 0.035
	- 150	21.50	0.494
V.G.99907	+ 150	4.31	14.99
	- 150	280.00	0.605; 0.445; 0.506; 0.315; 0.52; 0.81; 0.595; 0.58; 0.36; 0.315; 0.615; 0.47; 0.625; 0.42
	- 150	24.00	0.395

CALEDONIA ASSAY OFFICE

P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date: August 18 1983
Report # : 83-120

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of analyses of 17 core samples received from D. Forgeron:

Sample #	wt.,kgs.	wt.+150	oz/ton Au+150	wt.-150	oz/ton Au-150
99801 A	12.4	9	0.01	245	TRACE
99801 B		32	TRACE	220	TRACE
99801 C		15	TRACE	214	0.01
99802 A	6.4	14	TRACE	190	TRACE
99802 B		16	TRACE	270	0.01
99802 C		0	-	305	0.01
99803 A	11.8	19	TRACE	180	0.02
99803 B		0	-	325	0.02
99803 C		12	0.02	215	0.01
99804 A	12.3	22	0.02	365	0.01
99804 B		36	0.02	380	TRACE
99804 C		9	TRACE	215	TRACE
99805 A	2.7	8	TRACE	320	TRACE
99805 B		9	0.01	285	0.01
99805 C		30	TRACE	225	TRACE
99806 A	12.0	0	-	510	TRACE
99806 B		29	TRACE	260	TRACE
99806 C		0	-	240	TRACE
99807 A	6.3	4	TRACE	270	nil
99807 B		8	TRACE	250	TRACE
99807 C		10	TRACE	300	TRACE
99808 A	6.1	0	-	420	TRACE
99808 B		0	-	325	TRACE
99808 C		38	TRACE	285	TRACE
99809 A	14.0	45	0.01	440	TRACE
99809 B		24	TRACE	260	TRACE
99809 C		25	TRACE	270	TRACE

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE
P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date: August 18 1983
Report # : 83-120

Dutland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Cont'd results of analyses of 17 samples received from D. Forgeron:

Sample #	wt.,kgs.	wt.+150	oz/ton Au+150	wt.-150	oz/ton Au-150
99810 A	12.1	24	TRACE	230	TRACE
99810 B		32	TRACE	220	TRACE
99810 C		38	TRACE	290	0.01
99811 A	6.2	11	TRACE	320	0.01
99811 B		16	0.01	340	0.01
99811 C		21	TRACE	360	TRACE
99812 A	11.8	33	TRACE	320	TRACE
99812 B		27.5	TRACE	160	TRACE
99812 C		6.5	TRACE	345	nil
99813 A	11.3	14	nil	245	TRACE
99813 B		11.25	TRACE	385	TRACE
99813 C		25.5	TRACE	380	TRACE
99814 A	12.1	26.5	TRACE	270	TRACE
99814 B		22.5	nil	150	TRACE
99814 C		37	TRACE	185	TRACE
99815 A	12.4	10	TRACE	265	nil
99815 B		7.5	nil	260	nil
99815 C		34	nil	100	nil
99816 A	8.0	7.5	nil	170	nil
99816 B		9.5	TRACE	330	nil
99816 C		20	nil	310	nil
99817 A	4.8	9.5	nil	210	TRACE
99817 B		32	TRACE	180	TRACE
99817 C		33	TRACE	285	nil

D.M.WOLFE,B.Sc.,Laboratory Manager
Member C.M.A.; M.S.N.S.

D.M.Wolfe,B.Sc.,
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date:September 14 1983
Report # : 83-137

Outland Resources Corp.
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 13 core samples received from D.Forgeron:

	Sample #	split	Sample weight,grams	Total oz/ton Au
	99889	1	2295	0.001
4	99889	2	2695	nil
	99889	3	3130	nil
4	99899	-	2410	0.002
4	99903	-	2840	0.002
4	99893	1	1590	0.004
	99893	2	1705	0.024
5	99974	1	2870	0.010
	99974	2	2990	0.004
	99823	1	2325	0.001
4	99823	2	2295	nil
	99823	3	2415 ~~4035~~	0.001
5	99975	1	2045	0.007
	99975	2	2070	0.011
	99976	1	1550	nil
5	99976	2	1925	nil
5	99782 A	1	2460	0.002
	99782 A	2	2610	0.002
5	99782 B	1	2390	0.001
	99782 B	2	1930	nil
5	99783	1	1815	nil
	99783	2	2005	nil
5	99784	-	1625	nil
5	99785	-	2700	nil

D.M.Wolfe,B.Sc.,
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE
P.O.Box 45,Caledonia,Queens Co.,N.S. B0T 1B0
(902) 242-2783

Date:September 14 1983
Report # : 83-138

Outland Resources Corp.
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 8 core samples received from D.Forgeron:

	Sample #	split	Sample weight,grams	Total oz/ton Au
4	99850	1	1625	0.006
	99850	2	1890	0.010
4	99859	1	2125	0.020
	99859	2	2275	0.066
4	99884	1	2010	0.004
	99884	2	1925	0.006
	99886	1	1495	0.001
4	99886	2	1420	0.004
	99886	3	1900	0.001
4	99892	1	1890	0.002
	99892	2	1730	0.003
4	99894	1	1730	0.004
	99894	2	1495	0.001
6	99677	1	1645	0.002
	99677	2	1820	0.002
	99679 A	1	1985	0.008
6	99679 A	2	1880	0.009
	99679 A	3	2175	0.010

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CALEDONIA ASSAY OFFICE

Site #1, Box 40, Waverley, N.S. B0N 2S0
Temporary (902) 861-1366

Date:September 23 1983
Report # : 83-143

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 6 samples of drill core received from D.Forgeron:

	Sample #	split	Sample weight,grams	Total oz/ton Au
6	99696	1	4280	0.002
	99696	2	3770	nil
6	99580	-	2685	0.003
6	99582	-	3010	nil
5	99787	-	3105	0.005
5	99789	-	3160	NIL ?
5	99790	1	1590	nil
	99790	2	1695	0.001

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(902) 242-2783

Date:September 14 1983
Report # : 83-140

Outland Resources Corp.
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 12 core samples received from D.Forgeron:

	Sample #	split	Sample weight,grams	Total oz/ton Au
	99679 B	1	1595	0.001
6	99679 B	2	1955	0.001
	99679 B	3	1865	0.001
6	99682	-	3000	0.001
	99684	1	2425	0.062
6	99684	2	2535	0.048
6	99686	-	1940	0.001
	99687	1	1730	0.009
6	99687	2	1500	0.005
	99688 A	1	1940	0.001
6	99688 A	2	2150	0.001
	99688 A	3	1885	0.001
6	99688 B	1	2430	nil
	99688 B	2	2410	nil
6	99690 A	1	2365	0.006
	99690 A	2	1870	0.006
	99690 B	1	2340	nil
6	99690 B	2	2340	nil
	99699	1	2360	nil
6	99699	2	2235	nil
	99699	3	1985	nil
6	99700	1	2010	0.005
	99700	2	1980	0.004
6	99756	-	3720	0.002

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(902) 861-4501

Date:October 31 1983
Report # : 83-207
Page 1 of 1

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 11 core samples received from D.Forgeron:

Hole #	Sample #	split	Sample wt.,gms	Total oz/ton Au
	99683	1	1955	nil
6	99683	2	1955	nil
	99683	3	1995	nil
	99685	1	2270	nil
6	99685	2	2280	nil
	99685	3	2140	nil
	99702	1	2595	nil
5	99702	2	2530	nil
	99703	1	1900	nil
5	99703	2	1900	nil
	99703	3	1930	nil
	99704	1	2160	nil
5	99704	2	2175	nil
	99704	3	2495	nil
5	99708A	1	2495	nil
	99708A	2	2465	nil
5	99708B	1	2445	nil
	99708B	2	2380	nil
5	99713	1	2345	nil
	99846	1	2465	0.002
4	99846	2	2330	0.001
	99847	1	1985	nil
4	99847	2	2135	nil
	99847	3	1820	nil
4	99848	1	1735	nil
	99848	2	1715	nil

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Date:September 14 1983
Report # : 83-142

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 13 samples of drill core received from D.Forseron:

Sample #	split	Sample weight,grams	Total oz/ton Au
99697	1	2340	0.008
99697	2	2475	0.006
99698 A	1	2445	0.002
99698 A	2	2800	0.002
99751	1	2355	nil
99751	2	2090	nil
99755	-	3925	0.001
99757	1	1865	nil
99757	2	2070	nil
99761	-	3935	nil
99766	1	2545	nil
99766	2	3595	nil
99767	-	3615	nil
99772	-	3260	nil
99753	-	7185	0.005
99754	-	6860	nil
99698 B	-	5720	nil

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(902) 861-4501

Date:September 30 1983
Report # : 83-160

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 13 core samples received from D.Forgeron:

Sample #	split	Sample weight,grams	Total oz/ton Au
3434	1	1595	nil
3434	2	1600	nil
3437	1	2110	nil
3440	1	1915	nil
3440	2	1865	nil
3441	1	2255	nil
3441	2	2200	nil
3447	1	1375	nil
3448	1	1850	nil
3448	2	1765	nil
3449	1	2740	nil
3451	1	2440	nil
3451	2	2355	nil
99604	1	1830	nil
99604	2	1810	nil
99615B	1	2110	nil
99615B	2	2055	nil
99615B	3	2070	nil
99616	1	2210	nil
99617	1	1830	nil
99617	2	1815	nil
99618	1	1500	nil
99618	2	1460	nil

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CALEDONIA ASSAY OFFICE

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(902) 242-2783

Date: August 15 1983
Report # : 83-113
Page 1 of 1

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of total sample analyses of 5 core samples received from D.Forgeron:

	Sample #	Au oz/ton
	V.G. 99658 #7	0.45 ✓
	V.G. 99665 #7	0.014 ✓
37.5-37.6	V.G. 99579 #6	0.005 ✓
43.0-43.1	V.G. 99581 #6	0.155 ✓
	V.G. 99712 #5	TRACE ✓

Plot in book

D.M.WOLFE,B.Sc.,Laboratory Manager
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CALEDONIA ASSAY OFFICE

Date: August 16 1983
Report # : 83-113

SAMPLE #	Fraction	Wt.,grams	oz/ton Gold
V.G.99658	+ 150	139	0.63; 0.75; 1.20; 0.72; 1.00; 0.55; 0.72
	- 150	332	0.28; 0.27; 0.31; 0.27; 0.325; 0.30; 0.36
			0.28; 0.30; 0.29; 0.26; 0.255; 0.34; 0.25
			0.405; 0.285
V.G.99665	+ 150	101	0.01; 0.015; 0.02; 0.015; 0.01
	- 150	140	0.01; 0.01; 0.015; 0.02; 0.01
			0.03; 0.02
V.G.99579	+ 150	136.5	Trace; 0.03; 0.03; Trace; 0.02; Trace; Trace
	- 150	332.5	Trace; Trace; Trace; Trace; Trace; Trace
			0.01; Trace; Trace; Trace; Trace; Trace
			0.01; Trace; Trace; Trace
V.G.99581	+ 150	102	0.44; 0.27; 0.34; 0.39; 0.43
	- 150	246.5	0.065; 0.045; 0.035; 0.05; 0.07; 0.06
			0.075; 0.06; 0.05; 0.08; 0.07; 0.095
V.G.99712	+ 150	121.5	Trace; Trace; 0.01; Trace; 0.01; Trace
	- 150	286.5	0.015; Trace; 0.01; Trace; Trace; Trace
			Trace; Trace; Trace; Trace; 0.01; Trace
			Trace; 0.015

DW

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(902) 861-4501

Date:September 30 1983
Report # : 83-159

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 12 core samples received from D.Forgeron:

Sample #	split	Sample weight,grams	Total oz/ton Au
99651	1	2325	nil
99651	2	2270	nil
99651	3	2130	nil
99652	1	1815	nil
99652	2	1490	nil
99653	1	1600	nil
99654	1	1815	nil
99654	2	2350	nil
99655	1	1965	nil
99656	1	2270	nil
99656	2	2270	nil
99656	3	2005	nil
99657	1	2440	nil
99657	2	2390	nil
99666	1	1930	nil
99666	2	1780	nil
99667	1	2100	nil
99667	2	2195	nil
99668	1	2040	nil
99668	2	1785	nil
99669	1	2040	nil
99669	2	2050	nil
99670	1	2330	nil
3435	1	2295	nil

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Site #1, Box 40, Waverley, N.S. B0N 2S0
(902) 861-4501

Date:October 12 1983
Report # : 83-175

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 32 core samples received from D.Forgeron:

Sample #	split	Sample weight,grams	Total oz/ton Au
#7 99619A	1	2680	nil
99619A	2	2685	nil
99619B	3	2700	0.02
99619B	4	2665	0.03
99613A	1	2380	0.001
99613A	2	2420	0.006
99613B	3	2400	nil
99613B	4	2400	0.001
99620	1	1450	nil
99620	2	1520	nil
99621	1	1880	nil
99621	2	1820	nil
99621	3	1890	nil
99624	1	1920	nil
99624	2	1850	nil
7 99625	1	1980	0.001
99625	2	1920	0.002
2 99906	1	2330	nil
99918	1	1970	nil
2 99918	2	1960	nil
99918	3	1990	nil
99605	1	1940	nil
7 99605	2	1920	nil
99931	1	2360	nil
2 99931	2	2410	nil

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Date:October 12 1983
Report # : 83-175

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 32 core samples received from D.Forgeron:

	Sample #	split	Sample weight,grams	Total oz/ton Au
7	99603	1	1840	nil
	99603	2	1850	nil
7	99614	1	1740	0.02
	99614	2	1650	0.03
7	99615A	1	2430	nil
	99615A	2	2380	0.002
7	99606	1	2210	nil
	99606	2	2180	nil
2	99908	1	2200	0.001
	99908	2	2150	0.001
2	99909A	1	1800	0.008
	99909A	2	1820	0.007
	99909B	1	2010	0.008
	99909B	2	1980	0.006
	99910	1	2050	nil
2	99910	2	2040	nil
	99910	3	1920	nil
2	99911	1	2400	nil
	99911	2	2400	nil
2	99912	1	2820	0.001
	99912	2	2810	0.001
	99913	1	1990	0.001
2	99913	2	1980	0.001
	99913	3	2000	0.001

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(902) 861-4501

Date:October 12 1983
Report # : 83-175

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 32 core samples received from D.Forgeron:

Sample #	split	Sample weight,grams	Total oz/ton Au
99914	1	2010	nil
2 99914	2	2020	nil
99914	3	2030	nil
99915	1	1930	0.003
2 99915	2	1920	0.001
99915	3	1970	0.004
99916	1	2190	nil
2 99916	2	2190	nil
99916	3	2230	nil
99917A	1	2220	nil
2 99917A	2	2250	nil
99917B	1	1790	nil
2 99917B	2	1780	nil
99933A	1	2450	nil
2 99933A	2	2460	nil
99933B	1	2500	nil
2 99933B	2	2500	nil
7 3452	1	2010	nil
7 3444	1	2700	nil
99926	1	2150	nil
2 99926	2	2150	nil
7 3453	1	1720	nil
3453	2	1770	nil

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CALEDONIA ASSAY OFFICE
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(902) 861-4501

Date:October 31 1983
Report # : 83-206

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 42 core samples received from D.Forgeron:

	Sample #	split	Sample wt.,gms	Total oz/ton Au
8	90257A	1	4160	nil
	90257A	2	3835	0.004
	90257B	1	2870	nil
9	90258A	1	3785	nil
	90258A	2	3690	nil
9	90258B	1	3465	nil
	90258B	2	3460	nil
9	90259A	1	3345	nil
	90259A	2	3585	nil
9	90259B	1	3785	nil
	90259B	2	3740	nil
Augas 12	78766	1	5060	nil
" 12	78767	1	4450	nil
" 12	78768	1	3825	nil
WP83-1	79433	1	4265	nil
1	79434	1	4700	nil
1	79435A	1	4340	nil
1	79435A	2	3330	nil
1	79435B	1	5955	nil
1	79436	1	4315	0.001
1	79437	1	4550	0.001

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CALEDONIA ASSAY OFFICE
RR#1 Site #1, Box 40, Waverley, N.S. B0N 2S0
(902) 861-4501

Date:October 25 1983
Report # : 83-197

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of BULK analyses of 23 core samples received from D.Forgeron:

Hole	Sample #	split	Sample weight,grams	Total oz/ton
	81941	1	2155	0.001
10	81941	2	2155	nil
	81942	1	2495	0.001
10	81942	2	2515	0.001
	81943	1	2495	0.001
10	81943	2	2495	0.001
	81944	1	2175	nil
10	81944	2	2125	nil
	81945	1	2695	nil
10	81945	2	2665	nil
	81946	1	2465	nil
10	81946	2	2440	nil
10	81947	1	2610	0.001
	81947	2	2695	0.001
	81948	1	2100	0.001
10	81948	2	2100	0.003
Hole 10				
10	81949	1	2170	0.001
	81949	2	2120	0.001
	99843	1	2170	0.002
Hole 44	99843	2	2210	0.001
	99843	3	2160	0.001
	99849	1	1730	0.001
4	99849	2	1780	0.001

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Date:October 25 1983
Report # : 83-197

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of BULK analyses of 23 core samples received from D.Forgeron:

Hole	Sample #	split	Sample weight,grams	Total oz/ton
10	81929	1	2270	nil
	81929	2	2245	nil
10	81930	1	1965	nil
	81930	2	1955	nil
10	81931	1	2910	nil
	81931	2	2855	nil
10	81932	1	2225	nil
	81932	2	2205	nil
10	81933	1	1610	nil
	81933	2	1625	nil
10	81934	1	2155	nil
	81934	2	2175	nil
10	81935	1	2000	nil
	81935	2	1955	nil
10	81936	1	1530	nil
	81936	2	1585	nil
10	81937	1	1870	nil
	81937	2	1870	nil
10	81938	1	2005	nil
	81938	2	1970	nil
10	81939	1	2240	0.001
	81939	2	2260	0.001
10	81940	1	2100	nil
	81940	2	2075	nil

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Date:October 12 1983
Report # : 83-176

Outland resources
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Vancouver, B.C. V6E 3L2

Results of bulk leach of 30 core samples received from D.Forgeron:

Sample #	Sample weight,grams	Total oz/ton Au
7 3450	3180	nil
7 3454	6050	nil
10 78776	3340	0.001
10 78777	2850	0.001
10 78778	4420	0.001
10 78779	4010	nil
10 78780	3890	nil
10 78781	4250	nil
78782	4780	0.001
78783	3840	nil
78784	3930	nil
78785	3720	nil
78786	4160	nil
78787	2980	0.001
10 78788	4580	nil
10 78789	3450	nil
78790	4180	nil
78791	4520	nil
78792	6600	nil
78793	4760	0.001
78794	3080	0.003
78795	4520	0.003
78796	6270	0.03
78797	4110	0.001
78798	3960	nil
78799	3950	nil
78800	4410	nil
81926	4110	nil
81927	4230	nil
10 81928	4620	0.002

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Date:October 17 1983
Report # : 83-182
Page 1 of 1

Outland Resources
604-689-3188:704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of analysis of 13 core samples received from D.Forgeron:

	Sample #	Sample split	Total weight,grams	oz/ton Au
	81951A	1	5910	nil
//	81951A	2	5780	nil
	81951B	1	5530	0.005
	81951B	2	5500	0.007
	81952A	1	4435	nil
//	81952A	2	4435	nil
	81952B	1	4080	nil
	81952B	2	4080	nil
	90253	1	4890	nil
//	90253	2	4875	nil
	81954	1	5330	TRACE
# //	81954	2	5300	TRACE
	81955	1	4510	nil
//	81955	2	4510	nil
	81956A	1	3230	nil
//	81956A	2	3180	nil
	81956B	1	5045	TRACE
	81953	1	4400	TRACE
//	81953	2	4400	TRACE
	81957A	1	4590	nil
//	81957A	2	4620	nil
	81957B	1	4515	nil
//	81957B	2	4530	TRACE
	81958	1	4990	TRACE
//	81958	2	4990	TRACE
	81959	1	5640	nil
//	81959	2	5670	nil
2	99907	-	700	nil

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Date:October 31 1983
Report # : 83-206

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 42 core samples received from D.Forgeron:

	Sample #	split	Sample wt.,gms	Total oz/ton Au
//	81967	1	4565	nil
	81967	2	4685	nil
//	81968	1	4105	nil
	81968	2	4155	nil
//	81969	1	4380	0.003
	81969	2	4735	0.008
//	81970	1	5435	nil
	81970	2	5365	nil
//	81971	1	5215	TRACE
	81971	2	5230	TRACE
//	81972	1	4565	TRACE
	81972	2	4395	TRACE
//	81973	1	6130	TRACE
	81973	2	6050	nil
//	81974	1	4980	nil
	81974	2	5260	nil
//	81975	1	3615	nil
	81975	2	3805	nil
//	90251	1	3485	nil
	90251	2	3375	nil
//	90252	1	4735	nil
	90252	2	4705	nil
//	90254	1	3560	nil
	90254	2	3615	nil
8	90255A	1	3375	0.001
	90255A	2	3315	0.002
	90255B	1	3935	nil
8	90256	1	4775	nil
	90256	2	4790	nil

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(902) 861-4501

Date:October 31 1983
Report # : 83-206

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 42 core samples received from D.Forgeron:

	Sample #	split	Sample wt.,gms	Total oz/ton Au
4	99888	1	5620	nil
Hole 4 →	99858	1	5820	0.002
Hole 4 —	99845A	1	6535	0.002
—	99845B	1	6600	0.001
〃	81960B	1	3975	TRACE
	81960B	2	4300	nil
〃	81961	1	4380	TRACE
	81961	2	4350	0.001
〃	81962A	1	4195	nil
	81962A	2	4180	nil
〃	81962B	1	3515	nil
	81962B	2	3545	nil
〃	81963	1	5315	0.004
	81963	2	5200	nil
〃	81964	1	5015	nil
	81964	2	5030	nil
〃	81965	1	4190	0.007
	81965	2	4270	0.004
〃	81966	1	5160	TRACE
	81966	2	5105	nil

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Date:September 14 1983
Report # : 83-139

Outland Resources Corp.
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk leach of 9 core samples received from D.Forgeron:

Auger 3

Sample #	split	Sample weight,grams	Total oz/ton Au
3458	-	2640	nil
	0.15m		66.30
3459	-	3960	0.004
3460	-	2885	nil
3461	-	1460	0.22
3462	-	4870	nil
3463	-	4095	nil
3464	-	4505	0.042
3465	-	4465	nil
3466	-	2260	nil

Auger 31

D.M.Wolfe,B.Sc.,
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

Site #1, Box 40, Waverley, N.S. B0N 2S0
Temporary (902) 861-1366

Date:September 23 1983
Report # : 83-145

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 13 samples of drill core received from D.Forgeron:

Sample #	split	Sample weight,grams	Total oz/ton Au
78756	-	2260	0.004
78757	1	2950	nil
78757	2	2940	nil
78758	1	1930	nil
78758	2	1615	nil
78758	3	1985	nil
78759	-	1830	0.002
78760	1	2270	0.001
78760	2	2130	0.001
78761	1	1590	nil
78761	2	1785	nil
78762	1	2495	0.001
78762	2	2670	0.001
78763	1	1700	0.001
78763	2	1480	nil
78764	1	2635	nil
78764	2	2610	0.001
78765	1	2155	nil
78765	2	1745	nil
99703	1	2270	0.043
99703	2	2610	0.043
99709	1	2270	0.034
99709	2	1850	0.018
99711	-	1330	nil

D.M.Wolfe,B.Sc.,
Member C.M.A.; M.S.N.S.

CALEDONIA ASSAY OFFICE

Site #1, Box 40, Waverley, N.S. B0N 2S0
Temporary (902) 861-1366

Date:September 23 1983
Report # : 83-144

Outland resources
704-535 Thurlow St.,
Vancouver, B.C. V6E 3L2

Results of bulk analyses of 14 samples of drill core received from D.Forgeron:

Sample #	split	Sample weight,grams	Total oz/ton Au
3467	-	2495	nil
3468	-	2540	nil
3469	-	2495	0.08
3470	1	2550	nil
3470	2	1840	nil
3470	3	2340	nil
3471	-	2085	0.11
3472	1	1990	0.001
3472	2	1670	nil
3473	1	1985	0.001
3473	2	1645	0.001
3473	3	1900	0.001
3474	-	2040	0.001
3475	1	2380	nil
3475	2	2665	nil
78751	1	2185	nil
78751	2	2155	nil
78752	1	2695	nil
78752	2	2190	nil
78753	1	2410	0.001
78753	2	2000	nil
78754	1	2635	nil
78754	2	1955	0.001
78755	-	3160	nil

D.M.Wolfe,B.Sc.,
Member C.M.A.; M.S.N.S.

Bondar-Clegg & Company Ltd.
[illegible] Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: 423-2583 PROJECT: HIGHLAND GOLD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	wt/Au gm	NOTES
D 81982		269.5	118.4	7%

Assays 31 - 13.41 - 13.56

66.3 oz/ton Au

LAKEFIELD RESEARCH OF CANADA LIMITED
185 CONCESSION ST., P.O. BOX 430, LAKEFIELD, ONTARIO, CANADA K0L 2H0

PHONE (705) 652-3341
TELEX NO. 06 962842

September 20, 1983

Assay / Bulk Sample
Highland - Shaft Area

Mr. J.N. Hembling
Outland Resources Corporation
740, 535 Thurlow St.
Vancouver, B.C.
V6E 3L2

Dear Mr. Hembling:

I have enclosed a gold bead recovered from the clean-up concentrates sent to us by Mr. F. Forgeron. The button weighs 12.7 g.

The clean-up concentrate was treated by tabling and the table concentrate was further upgraded by using a superpanner. The resulting gravity concentrate weighing 39.3 g was fused and the gold bead recovered.

The results of the separation were:

	Weight, g	Assay g/t	% Distribution
Gold Bead	12.7	-	84.9
Superpanner Tail.	7985	189.0	10.1
Concentrate Oversize	1818.2	17.5	0.2
Table Tailing	375,000	1.93	4.8
Feed(Calculated)	375,000	38.9	100.0

Yours sincerely,
LAKEFIELD RESEARCH OF CANADA LIMITED

Keith Sarbutt/slk

K.W. Sarbutt
Chief Project Engineer

KWS:slk
Enc.
c.c. Mr. F. Forgeron

APPENDIX 4

RESULTS OF CYANIDE LEACHES

Report on

THE DETERMINATION OF GOLD

from samples

submitted by

OUTLAND RESOURCES CORPORATION

Progress Report No. 1

Project No. L.R. 2712

NOTE:

This report refers to the samples as received.

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 9, 1983

INTRODUCTION

In a letter dated July 28, 1983, Mr. D. Forgeron instructed us to determine the gold in samples 99504 and 99505 by a method of direct cyanidation.

The samples were supplied by Bondar-Clegg and represented N-Q core samples, crushed to about 6 mesh.

LAKEFIELD RESEARCH OF CANADA LIMITED

D. M. Wyslouzil

D.M. Wyslouzil, P. Eng.

Manager

W.T. Yen

W.T. Yen, Ph.D

Senior Project Engineer

S U M M A R Y

Samples 99504 and 99505 were ground in a rod mill and the pulp was thickened to 50 % solids. Cyanidation was carried out in a plastic tank fitted with a variable speed agitator. After 24 hours the samples were filtered, washed and the residue dried. The solution volume was measured and the gold was determined by precipitation, fire assay and atomic absorption. The residues were sampled twice to get duplicate assays. From the material balance the following head assays were calculated:

	Au g/tonne	oz/ton
Sample No. 99504	0.06	0.0017
Sample No. 99505	10.66	0.31

The cyanidation results indicated that from Sample 99505 98.3 % of the gold was dissolved in 24 hours.

All samples will be stored, awaiting further instructions.

DETAILS OF TESTS

Sample No. 99504

Purpose: To cyanide N-Q core samples to obtain a better head assay.

Procedure: The ground pulp was thickened to 50 % solids in a 20 litre pail. Cyanide and lime were added and the cyanidation was carried out with a mechanical mixer for 24 hours. One litre of pulp was removed, filtered and washed three times with fresh water.

Feed: 7.8 kg sample No. 99504

Solution Volume: 7.8 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-12	15.6	4.00	14.82	3.04	12.09	-	2.73	-	11.2-10.6
12-24	2.87	-	2.73	-	12.87	0.78	1.95	2.26	10.6-10.6
Total	18.47	4.00	17.55	3.04	12.87	0.78	4.68	2.26	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.60 CaO: 0.29

Sample No. 99504 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n Wash	1380 mL	0.027	67.3
24 h Cyanide Residue	902.7 g	0.02	32.7
Head (Calculated)	902.7 g	0.06	100.0

Screen Analyses

24 Hour Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.9	0.9	99.1
100	4.8	5.7	94.3
150	10.3	16.0	84.0
200	14.5	30.5	69.5
270	18.0	48.5	51.5
400	14.5	63.0	37.0
- 400	37.0	100.0	-
Total	100.0	-	-

Sample No. 99505

Purpose: Same as test No. 1.

Procedure: Same as test No. 1.

Feed: 8.7 kg Sample No. 99505

Solution Volume: 8.7 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11 with $Ca(OH)_2$

Grind: 20 minutes a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-12	17.4	4.40	16.53	3.34	14.35	-	2.18	-	11.2-10.8
12-24	2.29	-	2.18	-	14.79	0.78	1.74	2.56	10.8-10.8
Total	19.69	4.40	18.71	3.34	14.79	0.78	3.92	2.56	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.45 CaO: 0.29

Sample No. 99505 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	1360 mL	7.00	98.3
24 h Cy. Residue	908.7 g	0.185	1.7
Head (Calculated)	908.7 g	10.66	100.0

Screen Analyses

24 Hour Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	3.4	3.4	96.6
100	9.8	13.2	86.8
150	13.2	26.4	73.6
200	14.4	40.8	59.2
270	14.6	55.4	44.6
400	12.6	68.0	32.0
- 400	32.0	100.0	-
Total	100.0	-	-

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 9, 1983 / slk

Report on

THE DETERMINATION OF GOLD

from samples

submitted by

OUTLAND RESOURCES CORPORATION

Progress Report No. 2

Project No. L.R. 2712

NOTE:

This report refers to the samples as received.

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 15, 1983

I N T R O D U C T I O N

Mr. D. Forgeron of Outland Resources Corporation instructed us to continue with cyanidation tests on samples submitted by Bondar-Clegg. The same method was to be applied as that reported in Progress Report No. 1.

LAKEFIELD RESEARCH OF CANADA LIMITED

D.M. Wyslouzil, P. Eng.

Manager

W.T. Yen, Ph.D

Senior Project Engineer

S U M M A R Y

Samples 99501 to 99503 and 90339 to 90342 were ground in a rod mill and the pulp was thickened to 50 % solids. Cyanidation was carried out in a plastic tank fitted with a variable speed agitator. After 24 hours the samples were filtered, washed and the residue dried. The solution volume was measured and the gold was determined by precipitation, fire assay and atomic absorption. The residues were sampled twice to get duplicate assays. From the material balance the following head assays were calculated:

Sample No.	Calculated Head g/t	oz/t
99501	1.04	0.030
99502	0.53	0.015
99503	0.067	0.002
90339	7.08	0.207
90340	0.20	0.006
90341	0.14	0.004
90342	0.39	0.011

All samples will be stored, awaiting further instructions.

DETAILS OF TESTS

Sample No. 99501

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 8.44 kg Sample No. 95501

Solution Volume: 8.44 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	17.77	4.00	16.88	3.04	15.61	0.76	1.27	2.28	11.2-11.2
Total	17.77	4.00	16.88	3.04	15.61	0.76	1.27	2.28	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.15 CaO: 0.27

Sample No. 99501 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	1950 mL	0.52	97.6
24 h Cy. Residue	995.3 g	0.025	2.4
Head (Calculated)	995.3 g	1.04	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	1.0	1.0	99.0
100	4.7	5.7	94.3
150	10.1	15.8	84.2
200	15.5	31.3	68.7
270	17.1	48.4	51.6
400	14.6	63.0	37.0
- 400	37.0	100.0	-
Total	100.0	-	-

Sample No. 99502

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 95504.

Feed: 8.12 kg Sample No. 99502.

Solution Volume: 8.12 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	17.09	4.0	16.24	3.04	13.40	0.57	2.84	2.47	11.2-11.2
Total	17.09	4.0	16.24	3.04	13.40	0.57	2.84	2.47	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.35 CaO: 0.31

Sample No. 99502 - Continued

Metallurgical Results

Product	Amount	Assays, g/t, mg/L	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	1710 mL	0.29	92.5
24 h Cy. Residue	1006.5 g	0.04	7.5
Head (Calculated)	1006.5 g	0.53	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.7	0.7	99.3
100	3.8	4.5	95.5
150	9.8	14.3	85.7
200	15.2	29.5	70.5
270	17.5	47.0	53.0
400	13.4	60.4	39.6
- 400	39.6	100.0	-
Total	100.0	-	-

Sample No. 99503

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 7.75 kg Sample No. 99503

Solution Volume: 7.75 L Pulp Density 50 % solids

Solution Composition: 2.0 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	16.31	4.00	15.50	3.04	12.79	0.62	2.71	2.42	11.3-11.3
Total	16.31	4.00	15.50	3.04	12.79	0.62	2.71	2.42	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.35 CaO: 0.31

Sample No. 99503 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	2030 mL	0.02	63.1
24 h Cy. Residue	962.4 g	0.025	36.9
Head (Calculated)	962.4 g	0.067	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	1.8	1.8	98.2
150	11.8	13.6	86.4
200	15.4	29.0	71.0
270	16.5	45.5	54.5
400	14.8	60.3	39.7
- 400	39.7	100.0	-
Total	100.0	-	-

Sample No. 90339

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 3.34 kg Sample No. 90339.

Solution Volume: 3.34 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 15 minutes in a 12" x 15" ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	7.03	4.00	6.68	3.04	6.18	0.40	0.50	2.64	11.5-11.5
Total	7.03	4.00	6.68	3.04	6.18	0.40	0.50	2.64	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.15 CaO: 0.79

Sample No. 90339 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	1820 mL	3.82	98.9
24 h Cy. Residue	992.8 g	0.075	1.1
Head (Calculated)	992.8 g	7.08	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.6	0.6	99.4
150	3.4	4.0	96.0
200	7.5	11.5	88.5
270	14.3	25.8	74.2
400	17.8	43.6	57.4
- 400	57.4	100.0	-
Total	100.0	-	-

Sample No. 90340

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 4.45 kg Sample No. 90340.

Solution Volume: 4.45 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 15 minutes in a 12" x 15" ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	9.37	3.00	8.90	2.28	6.90	0.49	2.00	1.79	11.5-11.1
Total	9.37	3.00	8.90	2.28	6.90	0.49	2.00	1.79	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.45 CaO: 0.40

Sample No. 90340 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	1660 mL	0.10	90.2
24 h Cy. Residue	921.8 g	0.02	9.8
Head (Calculated)	921.8 g	0.20	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	1.3	1.5	98.5
150	5.0	6.5	93.5
200	11.4	17.9	82.1
270	17.0	34.9	65.1
400	16.8	51.7	48.3
- 400	48.3	100.0	-
Total	100.0	-	-

Sample No. 90341

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 5.50 kg Sample No. 90341.

Solution Volume: 5.50 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 15 minutes in 12" x 15" ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	11.58	3.00	11.00	2.28	9.63	0.55	1.37	1.73	11.5-11.1
Total	11.58	3.00	11.00	2.28	9.63	0.55	1.37	1.73	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.25 CaO: 0.31

Sample No. 90341 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	2000 mL	0.061	86.5
24 h Cy. Residue	980.1 g	0.02	13.5
Head (Calculated)	980.1 g	0.14	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.8	0.8	99.2
100	3.3	4.1	95.9
150	8.4	12.5	87.5
200	14.2	26.7	73.3
270	17.9	44.6	55.4
400	13.9	58.5	41.5
- 400	41.5	100.0	-
Total	100.0	-	-

Sample No. 90342

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 6.05 kg Sample No. 90342.

Solution Volume: 6.05 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 15 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	12.74	3.00	12.10	2.28	9.68	0.61	2.42	1.67	11.5-11.1
Total	12.74	3.00	12.10	2.28	9.68	0.61	2.42	1.67	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.40 CaO: 0.28

Sample No. 90342 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
24 h Cy. Preg'n+Wash	2000 mL	0.18	92.3
24 h Cy. Residue	992.2 g	0.03	7.7
Head (Calculated)	992.2 g	0.39	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.1	0.1	99.9
100	3.5	3.6	96.4
150	11.4	15.0	85.0
200	13.8	28.8	71.2
270	15.5	44.3	55.7
400	14.6	58.9	41.1
- 400	41.1	100.0	-
Total	100.0	-	-

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 15, 1983 / slk

Report on

THE DETERMINATION OF GOLD

from samples

submitted by

OUTLAND RESOURCES CORPORATION

Progress Report No. 3

Project No. L.R. 2712

NOTE:

This report refers to the samples as received.

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 23, 1983

I N T R O D U C T I O N

Mr. D. Forgeron of Outland Resources Corporation instructed us to continue with cyanidation tests on samples submitted by Bondar-Clegg. The same method was to be applied as that reported in Progress Reports No. 1 and 2.

LAKEFIELD RESEARCH OF CANADA LIMITED

D. M. Wyslouzil

D.M. Wyslouzil, P. Eng.

Manager

W.T. Yen

W.T. Yen, Ph.D.

Senior Project Engineer

S U M M A R Y

Samples 99535 to 99540, 79378 to 79381, 90313, 90318 and 99556 were ground in a rod mill and the pulp was thickened to 50 % solids. Cyanidation was carried out in a plastic tank fitted with a variable speed agitator. After 24 hours the samples were filtered, washed and the residue dried. The solution volume was measured and the gold was determined by precipitation, fire assay and atomic absorption. The residues were sampled twice to get duplicate assays. From the material balance the following head assays were calculated:

Sample No.	Assay g/t	Assay oz/t
99535	0.036	0.001
99536	0.127	0.004
99537	1.044	0.030
99538	0.051	0.0015
99539	0.639	0.019
99540	0.237	0.007
79378	0.08	0.002
79379	0.107	0.003
79380	0.150	0.004
79381	0.169	0.005
90313	0.118	0.003
90318	0.130	0.004
99556	2.11	0.062

All samples will be stored, awaiting further instructions.

DETAILS OF TESTS

Sample No. 99535

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 9.61 kg Sample No. 99535.

Solution Volume: 9.61 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill at 65 % solids.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	20.23	4.0	19.22	3.04	16.34	0.86	2.88	2.18	11.5-11.3
Total	20.23	4.0	19.22	3.04	16.34	0.86	2.88	2.18	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.30 CaO: 0.23

Sample No. 99535 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1770 mL	0.008	44.4
Cyanide Residue	892.1 g	<0.02	55.6
Head (Calculated)	892.1 g	0.036	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	3.3	3.3	96.7
100	9.8	13.1	86.9
150	14.0	27.1	72.9
200	14.9	42.0	58.0
270	14.5	56.5	43.5
400	12.1	68.6	31.4
- 400	31.4	100.0	-
Total	100.0	-	-

Sample No. 99536

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 9.50 kg Sample No. 99536.

Solution Volume: 9.50 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	20.00	4.00	19.00	3.04	14.96	1.14	4.04	1.9	11.5-11.4
Total	20.00	4.00	19.00	3.04	14.96	1.14	4.04	1.9	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.42 CaO: 0.20

Sample No. 99536 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1700 mL	0.075	84.3
Cyanide Residue	1192.4 g	0.02	15.7
Head (Calculated)	1192.4 g	0.127	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	11.8	11.8	88.2
100	12.4	24.2	75.8
150	12.8	37.0	63.0
200	11.3	48.3	51.7
270	12.8	61.1	38.9
400	11.2	72.3	27.7
- 400	27.7	100.0	-
Total	100.0	-	-

Sample No. 99537

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 10.86 kg Sample No. 99537.

Solution Volume: 10.86 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	22.86	4.00	21.72	3.04	10.32	1.52	11.4	1.52	11.7-11.5
Total	22.86	4.00	21.72	3.04	10.32	1.52	11.4	1.52	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.05 CaO: 0.14

Sample No. 99537 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1720 mL	0.51	95.2
Cyanide Residue	882.6 g	0.95	4.8
Head (Calculated)	882.6 g	1.044	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	6.0	6.0	94.0
100	11.9	17.9	82.1
150	14.3	32.3	67.8
200	13.1	45.3	54.7
270	13.5	58.8	41.2
400	12.1	70.9	29.1
- 400	29.1	100.0	-
Total	100.0	-	-

Sample No. 99538

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 11.97 kg Sample No. 99538.

Solution Volume: 11.97 L Pulp Density 50 % solids

Solution Composition: 2.0 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 30 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	25.20	4.00	23.94	3.04	20.35	1.20	3.59	1.84	11.5-11.3
Total	25.20	4.00	23.94	3.04	20.35	1.20	3.59	1.84	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.30 CaO: 0.15

Sample No. 99538 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1850 mL	0.016	61.2
Cyanide Residue	941.8 g	<0.02	38.8
Head (Calculated)	941.8 g	0.051	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	17.4	17.4	82.6
100	16.3	33.7	66.3
150	17.5	51.2	48.8
200	11.1	62.3	37.7
270	10.0	72.3	27.7
400	8.0	80.3	19.7
- 400	19.7	100.0	-
Total	100.0	-	-

Sample No. 99539

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 7.23 kg Sample No. 99539.

Solution Volume: 7.23 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	15.22	3.00	14.46	2.28	1.45	1.08	13.01	1.20	11.6-11.2
Total	15.22	3.00	14.46	2.28	1.45	1.08	13.01	1.20	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.80 CaO: 0.17

Sample No. 99539 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1860 mL	0.048	14.7
Cyanide Residue	948.6 g	0.545	85.3
Head (Calculated)	948.6 g	0.639	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	1.9	1.9	98.1
100	6.8	8.7	91.3
150	13.5	22.2	77.8
200	14.8	37.0	63.0
270	15.9	52.9	47.1
400	14.0	66.9	33.1
- 400	33.1	100.0	-
Total	100.0	-	-

Sample No. 99540

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 7.31 kg Sample No. 99540.

Solution Volume: 7.31 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	15.39	3.00	14.62	2.28	1.83	1.24	12.79	1.04	11.6-11.4
Total	15.39	3.00	14.62	2.28	1.83	1.24	12.79	1.04	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.75 CaO: 0.14

Sample No. 99540 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1730 mL	0.061	51.4
Cyanide Residue	867.1 g	0.115	48.6
Head (Calculated)	867.1 g	0.237	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.9	0.9	99.1
100	6.4	7.3	92.7
150	14.0	21.3	78.7
200	18.7	40.0	60.0
270	17.9	57.9	42.1
400	14.0	71.9	28.1
- 400	28.1	100.0	-
Total	100.0	-	-

Sample No. 79378

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 2.13 kg Sample No. 79378.

Solution Volume: 2.13 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 11-11.5 with $Ca(OH)_2$.

Grind: 10 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	4.48	2.00	4.26	1.52	2.66	0.28	1.60	1.24	11.6-11.0
Total	4.48	2.00	42.6	1.52	2.66	0.28	1.60	1.24	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.75 CaO: 0.58

Sample No. 79378 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1800 mL	0.022	56.5
Cyanide Residue	870.9 g	0.035	43.5
Head (Calculated)	870.9 g	0.08	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.1	0.1	99.9
100	1.2	1.3	98.7
150	4.8	6.1	93.9
200	11.1	17.2	82.8
270	18.5	35.7	64.3
400	16.1	51.8	48.2
- 400	48.2	100.0	-
Total	100.0	-	-

Sample No. 79379

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 3.84 kg Sample No. 79379.

Solution Volume: 3.84 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 10 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	8.08	3.00	7.68	2.28	1.54	0.61	6.14	1.67	11.5-11.4
Total	8.08	3.00	7.68	2.28	1.54	0.61	6.14	1.67	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.60 CaO: 0.43

Sample No. 79379 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1690 mL	0.020	34.5
Cyanide Residue	915.6 g	0.07	65.5
Head (Calculated)	915.6 g	0.107	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.4	0.4	99.6
100	3.6	4.0	96.0
150	8.9	12.9	87.1
200	15.5	28.4	71.6
270	16.8	34.2	54.8
400	14.5	59.7	40.3
- 400	40.3	100.0	-
Total	100.0	-	-

Sample No. 79380

Purpose: Same as Sample No. 95504.

Procedure: Same as Sample No. 99504.

Feed: 2.80 kg Sample No. 79380.

Solution Volume: 2.80 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 10 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	5.89	3.00	5.60	2.28	0.84	0.34	4.76	1.94	11.5-11.2
Total	5.89	3.00	5.60	2.28	0.84	0.34	4.76	1.94	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.7 CaO: 0.69

Sample No. 79380 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash	1600 mL	0.022	26.5
Cyanide Residue	886.3 g	0.11	73.5
Head (Calc.)	886.3 g	0.150	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.1	0.1	99.9
100	1.4	1.5	98.5
150	6.2	7.7	92.3
200	11.9	19.6	80.4
270	18.2	37.8	62.2
400	16.9	54.7	45.3
- 400	45.3	100.0	-
Total	100.0	-	-

Sample No. 79381

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 6.34 kg Sample No. 79381.

Solution Volume: 6.34 L Pulp Density 50 % solids

Solution Composition: 2.0 g/L NaCN

pH Range: 11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	13.35	4.00	12.68	3.04	1.90	2.41	10.78	0.63	11.8-11.5
Total	13.35	4.00	12.68	3.04	1.90	2.41	10.78	0.63	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.70 CaO: 0.10

Sample No. 79381 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1750 mL	0.040	43.5
Cyanide Residue	952.4 g	0.095	56.5
Head (Calculated)	952.4 g	0.169	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	3.0	3.2	96.8
150	10.2	13.4	86.6
200	16.1	29.5	70.5
270	17.3	46.8	53.2
400	12.9	59.7	40.3
- 400	40.3	100.0	-
Total	100.0	-	-

Sample No. 90313

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 7.74 kg Sample No. 90313.

Solution Volume: 7.74 L Pulp Density 50 % solids.

Solution Composition: 2 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	16.29	4.00	15.48	3.04	13.93	1.85	1.53	1.19	11.5-11.3
Total	16.29	4.00	15.48	3.04	13.93	1.85	1.53	1.19	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.20 CaO: 0.15

Sample No. 90313 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1760 mL	0.013	20.0
Cyanide Residue	968.5 g	0.095	80.0
Head (Calculated)	968.5 g	0.118	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.3	0.3	99.7
150	10.5	10.8	89.2
200	14.5	25.3	74.7
270	18.0	43.3	56.7
400	15.5	58.8	41.2
- 400	41.2	100.0	-
Total	100.0	-	-

Sample No. 90318

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 5.12 kg Sample No. 90318

Solution Volume: 5.12 L Pulp Density 50 % solids

Solution Composition: 2.0 g/L NaCN

pH Range: 10-11.5 with $Ca(OH)_2$

Grind: 10 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	10.78	3.0	10.24	2.28	2.05	1.38	8.19	0.90	11.5-10.7
Total	10.78	3.0	10.24	2.28	2.05	1.38	8.19	0.90	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.60 CaO: 0.18

Sample No. 90318 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1600 mL	0.038	46.3
Cyanide Residue	1007.0 g	0.070	53.7
Head (Calculated)	1007.0 g	0.130	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	1.1	1.1	98.9
100	6.1	7.2	92.8
150	12.0	19.2	80.8
200	16.6	35.8	64.2
270	16.9	52.7	47.3
400	14.0	66.7	33.3
- 400	33.3	100.0	-
Total	100.0	-	-

Sample No. 99556

Purpose: Same as Sample No. 99504.

Procedure: The sample was pulped with water in a 2 litre bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 460 g Sample No. 99556.

Solution Volume: 460 mL Pulp Density 50 % solids

Solution Composition: 2.0 g/L NaCN

pH Range: > 11.0 with $Ca(OH)_2$

Grind: 10 minutes in a small rod mill at 50 % solids.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	0.97	0.5	0.92	0.38	0.09	0.07	0.83	0.31	12.0-12.0
Total	0.97	0.5	0.92	0.38	0.09	0.07	0.83	0.31	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.80 CaO: 0.67

Sample No. 99556 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1200 mL	0.51	62.6
Cyanide Residue	463.4 g	0.79	37.4
Head (Calculated)	463.4 g	2.11	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 150	1.3	1.3	98.7
200	4.2	5.5	94.5
270	13.6	19.1	80.9
400	23.5	42.6	57.4
- 400	57.4	100.0	-
Total	100.0	-	-

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 23, 1983 / slk

Report on

THE DETERMINATION OF GOLD

from samples

submitted by

OUTLAND RESOURCES CORPORATION

Progress Report No. 4

Project No. L.R. 2712

NOTE:

This report refers to the samples as received.

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 30, 1983

I N T R O D U C T I O N

Mr. D. Forgeron of Outland Resources Corporation instructed us to continue with cyanidation tests on samples submitted by Bondar-Clegg. The same method was to be applied as that reported in Progress Reports No. 1,2 and 3.

LAKEFIELD RESEARCH OF CANADA LIMITED

D. M. Wyslouzil

D.M. Wyslouzil, P. Eng.

Manager

W.T. Yen

W.T. Yen, Ph.D

Senior Project Engineer

S U M M A R Y

Samples 90334 to 90338, 90343 to 90347, 90314 to 90317, 90508, 99510, 99512, 99526, 79358 to 79360 and 79395 were ground in a rod mill and the pulp was thickened to 50 % solids. Cyanidation was carried out in a plastic tank fitted with a variable speed agitator. After 24 hours the samples were filtered, washed and the residue dried. The solution volume was measured and the gold was determined by precipitation, fire assay and atomic absorption. The residues were sampled twice to get duplicate assays. From the material balance the following head assays were calculated:

Sample No.	Assay g/t	Assay oz/t
90334	0.080	0.002
90335	0.541	0.016
90336	0.063	0.0018
90337	0.030	0.0009
90338	0.050	0.0015
90343	0.102	0.003
90344	0.032	0.0009
90345	0.053	0.0015
90346	0.027	0.0008
90347	0.051	0.0015
90314	0.041	0.0012
90315	0.306	0.009
90316	0.047	0.0014
90317	0.0027	0.0008
99508	0.074	0.002
99510	0.405	0.012
99512	0.033	0.001
99526	0.026	0.0007
79358	0.060	0.0017
79359	0.731	0.021
79360	0.108	0.003
79395	0.028	0.0008

All samples will be stored, awaiting further instructions.

DETAILS OF TESTS

Sample No. 90334

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 4.22 kg sample No. 90334.

Solution Volume: 4.22 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 15 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	8.88	3.00	8.44	2.28	6.54	1.10	1.90	1.18	11.5-11.2
Total	8.88	3.00	8.44	2.28	6.54	1.10	1.90	1.18	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.45 CaO: 0.28

Sample No. 90334 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1650 mL	0.032	75.0
Cyanide Residue	879.5 g	0.02	25.0
Head (Calculated)	879.5 g	0.08	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 35	0.7	0.7	99.3
48	8.2	8.9	91.1
65	11.9	20.8	79.2
100	16.7	37.5	62.5
150	12.6	50.1	49.9
200	11.5	61.6	38.4
270	11.1	72.7	27.3
400	9.2	81.9	18.1
- 400	18.1	100.0	-
Total	100.0	-	-

Sample No. 90335

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 4.52 kg Sample No. 90335.

Solution Volume: 4.52 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 15 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	9.52	3.00	9.04	2.28	4.97	0.99	4.07	1.29	11.5-11.1
Total	9.52	3.00	9.04	2.28	4.97	0.99	4.07	1.29	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.90 CaO: 0.28

Sample No. 90335 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1550 mL	0.32	94.5
Cyanide Residue	970.3 g	0.03	5.5
Head (Calculated)	970.3 g	0.54	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.2	0.2	99.8
100	2.8	3.0	97.0
150	10.2	13.2	86.8
200	16.7	29.9	70.1
270	18.9	48.8	51.2
400	14.3	63.1	36.9
- 400	36.9	100.0	-
Total	100.0	-	-

Sample No. 90336

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 2945 g Sample No. 90336.

Solution Volume: 2945 mL Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 10 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	6.20	3.00	5.89	2.28	1.77	1.03	4.12	1.25	11.5-11.0
Total	6.20	3.00	5.89	2.28	1.77	1.03	4.12	1.25	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.40 CaO: 0.42

Sample No. 90336 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1650 mL	0.023	69.1
Cyanide Residue	866.6 g	<0.02	30.9
Head (Calculated)	866.6 g	0.063	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.5	0.5	99.5
150	5.6	6.1	93.9
200	14.6	20.7	79.3
270	20.1	40.8	59.2
400	16.2	57.0	43.0
- 400	43.0	100.0	-
Total	100.0	-	-

Sample No. 90337

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 3.93 kg Sample No. 90337.

Solution Volume: 3.93 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 12 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	8.27	3.00	7.86	2.28	3.73	1.14	4.13	1.14	11.5-11.1
Total	8.27	3.00	7.86	2.28	3.73	1.14	4.13	1.14	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.05 CaO: 0.29

Sample No. 90337 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1420 mL	0.007	35.7
Cyanide Residue	919.6 g	<0.02	64.3
Head (Calculated)	919.6 g	0.030	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 100	0.2	0.2	99.8
150	11.1	11.3	88.7
200	17.1	28.4	71.6
270	18.1	46.5	53.5
400	14.4	60.9	39.1
- 400	39.1	100.0	-
Total	100.0	-	-

Sample No. 90338

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 3.27 kg Sample No. 90338.

Solution Volume: 3.27 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 12 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	6.88	3.00	6.54	2.28	3.92	0.72	2.62	1.56	11.5-11.1
Total	6.88	3.00	6.54	2.28	3.92	0.72	2.62	1.56	-

Reagent Consumption (kg/t of cyanide feed) NaCN:0.80 CaO: 0.48

Sample No. 90338 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1650 mL	0.016	60.1
Cyanide Residue	873.3 g	<0.02	39.9
Head (Calculated)	873.3 g	0.050	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	1.9	2.1	97.9
150	5.3	7.4	92.6
200	13.8	21.2	78.8
270	19.2	40.4	59.6
400	16.8	57.2	42.8
- 400	42.8	100.0	-
Total	100.0	-	-

Sample No. 90343

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 3.13 kg Sample No. 90343.

Solution Volume: 3.13 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 12 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	6.59	3.00	6.26	2.28	3.13	0.81	3.13	1.47	11.5-11.0
Total	6.59	3.00	6.26	2.28	3.13	0.81	3.13	1.47	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.00 CaO: 0.47

Sample No. 90343 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1580 mL	0.046	80.5
Cyanide Residue	882.5 g	<0.02	19.5
Head (Calculated)	882.5 g	0.102	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.5	0.5	99.5
150	4.0	4.5	95.5
200	11.6	16.1	83.9
270	18.8	34.9	65.1
400	16.2	51.1	48.9
- 400	48.9	100.0	-
Total	100.0	-	

Sample No. 90344

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 2715 g Sample No. 90344.

Solution Volume: 2715 mL Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 10 minutes in a 12" x 15" rod mill

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	5.72	3.00	5.43	2.28	2.04	0.54	3.39	1.74	11.5-11.0
Total	5.72	3.00	5.43	2.28	2.04	0.54	3.39	1.74	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.25 CaO: 0.64

Sample No. 90344 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1570 mL	0.006	36.9
Cyanide Residue	805.6 g	<0.02	63.1
Head (Calculated)	805.6 g	0.032	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.4	0.4	99.6
150	4.7	5.1	94.9
200	14.0	19.1	80.9
270	20.5	39.6	60.4
400	17.0	56.6	43.4
- 400	43.4	100.0	-
Total	100.0	-	-

Sample No. 90345

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 2130 g Sample No. 90345.

Solution Volume: 2130 mL Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 10 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	4.48	2.00	4.26	1.52	1.92	0.77	2.34	0.75	11.5-11.3
Total	4.48	2.00	4.26	1.52	1.92	0.77	2.34	0.75	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.10 CaO: 0.35

Sample No. 90345 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1650 mL	0.018	62.5
Cyanide Residue	893.2 g	<0.02	37.5
Head (Calculated)	893.2 g	0.053	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.3	0.3	99.7
150	3.5	3.8	96.2
200	9.0	12.8	87.2
270	18.0	30.8	69.2
400	18.7	49.5	50.5
- 400	50.5	100.0	-
Total	100.0	-	-

Sample No. 90346

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 3.74 kg Sample No. 90346.

Solution Volume: 3.74 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 12 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	7.87	3.00	7.48	2.28	2.81	1.12	4.67	1.16	11.5-11.1
Total	7.87	3.00	7.48	2.28	2.81	1.12	4.67	1.16	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.25 CaO: 0.31

Sample No. 90346 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1620 mL	0.004	25.6
Cyanide Residue	947.9 g	<0.02	74.4
Head (Calculated)	947.9 g	0.027	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	2.1	2.3	97.7
150	5.9	8.2	91.8
200	12.9	21.1	78.9
270	18.6	39.7	60.3
400	17.3	57.0	43.0
- 400	43.0	100.0	-
Total	100.0	-	-

Sample No. 90347

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 4.17 kg Sample No. 90347.

Solution Volume: 4.17 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 15 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	8.78	3.00	8.34	2.28	2.50	1.96	5.84	0.32	11.5-11.1
Total	8.78	3.00	8.34	2.28	2.50	1.96	5.84	0.32	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.40 CaO: 0.08

Sample No. 90347 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1730 mL	0.018	60.7
Cyanide Residue	1006.8 g	<0.02	39.3
Head (Calculated)	1006.8 g	0.051	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.1	0.1	99.9
100	1.9	2.0	98.0
150	5.9	7.9	92.1
200	11.4	19.3	80.7
270	18.7	38.0	62.0
400	16.3	54.3	45.7
- 400	45.7	100.0	-
Total	100.0	-	-

Sample No. 90314

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 4.73 kg Sample No. 90314.

Solution Volume: 4.73 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 17 minutes in a 12" x 15"rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	9.96	3.00	9.46	2.28	7.10	0.85	2.36	1.43	11.5-11.2
Total	9.96	3.00	9.46	2.28	7.10	0.85	2.36	1.43	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.50 CaO: 0.30

Sample No. 90314 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1800 mL	0.012	51.7
Cyanide Residue	1011.2 g	<0.02	48.3
Head (Calculated)	1011.2 g	0.041	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.9	0.9	99.1
150	4.8	5.7	94.3
200	11.9	17.6	82.4
270	19.8	37.4	62.6
400	17.6	55.0	45.0
- 400	45.0	100.0	-
Total	100.0	-	-

Sample No. 90315

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 5.03 kg Sample No. 90315.

Solution Volume: 5.03 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 17 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	10.59	3.00	10.06	2.28	0.50	1.01	9.56	1.27	11.5-11.1
Total	10.59	3.00	10.06	2.28	0.50	1.01	9.56	1.27	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.90 CaO: 0.25

Sample No. 90315 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1760 mL	0.10	57.5
Cyanide Residue	999.4 g	0.13	42.5
Head (Calculated)	999.4 g	0.306	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+100	0.1	0.1	99.9
150	9.0	9.1	90.9
200	16.7	25.8	74.2
270	19.2	45.0	55.0
400	16.0	61.0	39.0
- 400	39.0	100.0	-
Total	100.0	-	-

Sample No. 90316

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 5.41 kg Sample No. 90316.

Solution Volume: 5.41 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 17 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	11.39	3.00	10.82	2.28	1.08	0.97	9.74	1.31	11.5-11.0
Total	11.39	3.00	10.82	2.28	1.08	0.97	9.74	1.31	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.80 CaO: 0.24

Sample No. 90316 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1790 mL	0.009	35.9
Cyanide Residue	957.9 g	0.03	64.1
Head (Calculated)	957.9 g	0.047	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.1	0.1	99.9
100	1.5	1.6	98.4
150	7.6	9.2	90.8
200	16.5	25.7	74.3
270	18.5	44.2	55.8
400	15.8	60.0	40.0
- 400	40.0	100.0	-
Total	100.0	-	-

Sample No. 90317

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 5.64 kg Sample No. 90317.

Solution Volume: 5.64 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 17 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	11.87	3.00	11.27	2.28	0.56	0.73	10.71	1.55	11.5-10.8
Total	11.87	3.00	11.27	2.28	0.56	0.73	10.71	1.55	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.90 CaO: 0.27

Sample No. 90317 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1770 mL	0.004	26.8
Cyanide Residue	967.7 g	0.02	73.2
Head (Calculated)	967.7 g	0.027	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	2.5	2.7	97.3
150	7.9	10.6	89.4
200	14.5	25.1	74.9
270	18.3	43.4	56.6
400	14.7	58.1	41.9
- 400	41.9	100.0	-
Total	100.0	-	-

Sample No. 99508

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 7.79 kg Sample No. 99508.

Solution Volume: 7.79 L Pulp Density 50 % solids.

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 20 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	16.40	3.00	15.58	2.28	1.95	1.48	13.63	0.80	11.8-11.5
Total	16.40	3.00	15.58	2.28	1.95	1.48	13.63	0.80	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.75 CaO: 0.10

Sample No. 99508 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1710 mL	0.022	52.9
Cyanide Residue	958.1 g	0.035	47.1
Head (Calculated)	958.1 g	0.074	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 48	0.1	0.1	99.9
65	1.5	1.6	98.4
100	5.6	7.2	92.8
150	14.1	21.3	78.7
200	15.8	37.1	62.9
270	15.6	52.7	47.3
400	13.0	65.7	34.3
- 400	34.3	100.0	-
Total	100.0	-	-

Sample No. 99510

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 15.14 kg Sample No. 99510.

Solution Volume: 15.14 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 40 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	31.87	5.00	30.28	3.80	15.90	1.97	14.38	1.83	11.6-11.4
Total	31.87	5.00	30.28	3.80	15.90	1.97	14.38	1.83	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.95 CaO: 0.12

Sample No. 99510 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1600 mL	0.22	93.8
Cyanide Residue	927.2 g	0.025	6.2
Head (Calculated)	927.2 g	0.405	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 48	0.2	0.2	99.8
65	3.5	3.7	96.3
100	12.9	16.6	83.4
150	15.4	32.0	68.0
200	12.7	44.7	55.3
270	12.9	57.6	42.4
400	10.3	67.9	32.1
- 400	32.1	100.0	-
Total	100.0	-	-

Sample No. 99512

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 10.66 kg Sample No. 99512.

Solution Volume: 10.66 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 30 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	22.44	4.00	21.32	3.04	10.66	1.60	10.66	1.44	11.6-11.4
Total	22.44	4.00	21.32	3.04	10.66	1.60	10.66	1.44	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 1.00 CaO: 0.14

Sample No. 99512 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1780 mL	0.007	38.9
Cyanide Residue	977.6 g	<0.02	61.1
Head (Calculated)	977.6 g	0.033	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	3.7	3.9	96.1
150	12.1	16.0	84.0
200	16.4	32.4	67.6
270	17.4	49.8	50.2
400	13.8	63.6	36.4
- 400	36.4	100.0	-
Total	100.0	-	-

Sample No. 99526

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 9.50 kg Sample No. 99526.

Solution Volume: 9.50 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 25 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	20.00	4.00	19.00	3.04	14.73	0.95	4.27	2.09	11.5-11.2
Total	20.00	4.00	19.00	3.04	14.73	0.95	4.27	2.09	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.45 CaO: 0.22

Sample No. 99526 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1820 mL	0.003	23.5
Cyanide Residue	891.3 g	<0.02	76.5
Head (Calculated)	891.3 g	0.026	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 100	0.5	0.5	99.5
150	13.1	13.6	86.4
200	16.2	29.8	70.2
270	17.3	47.1	52.9
400	15.0	62.1	37.9
- 400	37.9	100.0	-
Total	100.0	-	-

Sample No. 79358

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 2.17 kg Sample No. 79358.

Solution Volume: 2.17 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 30 minutes in a laboratory ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	4.57	2.00	4.34	1.52	3.67	0.20	0.67	1.32	11.5-11.2
Total	4.57	2.00	4.34	1.52	3.67	0.20	0.67	1.32	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.31 CaO: 0.61

Sample No. 79358 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1740 mL	0.024	66.7
Cyanide Residue	1043.9 g	0.02	33.3
Head (Calculated)	1043.9 g	0.060	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.1	0.1	99.9
100	1.1	1.2	98.8
150	7.1	8.3	91.7
200	13.8	22.1	77.9
270	16.2	38.3	61.7
400	14.2	52.5	47.5
- 400	47.5	100.0	-
Total	100.0	-	-

Sample No. 79359

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample Nl. 99504.

Feed: 2.12 kg Sample No. 79359.

Solution Volume: 2.12 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 30 minutes in a laboratory ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	4.46	2.00	4.24	1.52	2.97	0.21	1.27	1.31	11.5-11.1
Total	4.46	2.00	42.4	1.52	2.97	0.21	1.27	1.31	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.60 CaO: 0.62

Sample No. 79359 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1680 mL	0.39	93.9
Cyanide Residue	954.6 g	0.045	6.1
Head (Calculated)	954.6 g	0.731	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	1.0	1.2	98.8
150	5.2	6.4	93.6
200	11.8	18.2	81.8
270	18.5	36.7	63.3
400	16.1	52.8	47.2
- 400	47.2	100.0	-
Total	100.0	-	-

Sample No. 79360

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 1.63 kg Sample No. 79360.

Solution Volume: 1.63 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 20 minutes in a laboratory ball mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	3.43	1.00	3.26	0.76	3.00	0.13	0.26	0.63	11.5-11.1
Total	3.43	1.00	3.26	0.76	3.00	0.13	0.26	0.63	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.16 CaO: 0.39

Sample No. 79360 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1730 mL	0.042	72.1
Cyanide Residue	934.9 g	0.03	27.9
Head (Calculated)	934.9 g	0.108	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	0.8	1.0	99.0
150	3.9	4.9	95.1
200	11.0	15.9	84.1
270	17.8	33.7	66.3
400	17.2	50.9	49.1
- 400	49.1	100.0	-
Total	100.0	-	-

Sample No. 79395

Purpose: Same as Sample No. 99504.

Procedure: Same as Sample No. 99504.

Feed: 5.63 kg Sample No. 79395.

Solution Volume: 5.63 L Pulp Density 50 % solids

Solution Composition: 2 g/L NaCN

pH Range: > 11 with $Ca(OH)_2$

Grind: 17 minutes in a 12" x 15" rod mill.

Reagent Balance:

Time	Added, Grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
Hours	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-24	11.85	3.00	11.26	2.28	6.76	0.51	4.50	1.77	11.6-11.2
Total	11.85	3.00	11.26	2.28	6.76	0.51	4.50	1.77	-

Reagent Consumption (kg/t of cyanide feed) NaCN: 0.80 CaO: 0.31

Sample No. 79395 - Continued

Metallurgical Results

Product	Amount	Assays, mg/L, g/t	% Distribution
		Au	Au
Cy. Preg'n+Wash Sol'n	1580 mL	0.005	29.3
Cyanide Residue	953.7 g	<0.02	70.7
Head (Calculated)	953.7 g	0.028	100.0

Screen Analyses

Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing
	Individual	Cumulative	Cumulative
+ 65	0.2	0.2	99.8
100	2.7	2.9	97.1
150	8.0	10.9	89.1
200	14.8	25.7	74.3
270	17.3	43.0	57.0
400	15.2	58.2	41.8
- 400	41.8	100.0	-
Total	100.0	-	-

LAKEFIELD RESEARCH OF CANADA LIMITED
Lakefield, Ontario
August 30, 1983 / slk

18120

Province of Nova Scotia
Department of Mines and Energy

RECEIVED
AUG 15 36'84
MINES
AND ENERGY

Report of Work Performed

I, the undersigned, holder of/agent for, Exploration License No. 5646 issued on the 15th day of August 19 83, hereby report work as follows:

I have, under said License, and in conformity with the provisions of The Mineral Resources Act, performed or caused to be performed on the licensed area 24462 days' work (eight-hour days) not reported before, totalling $ 409,249.62 as per the attached list of expenditures. (Rate is one day's work for each $20.00 spent.)

Expenditures relating to office overhead, transportation, lodging, freight, express, construction of roads, erection of buildings, etc., will be accepted up to a maximum of ten percent (10%) of the required work.

The said work consisted of Trenching, Diamond Drilling, Auger drilling, surveying, bulk sampling, mill test.

Attached is a geological report with applicable maps, sample results, drill logs, etc., which is submitted as evidence and initialed by me.

My Post Office address is Overseas Resources Corp. 704-535 Thurlow St. Vancouver B.C. V6E 3L2 Tel. No. 604-681-5823

Dated this 15th day of August 19 84.

N Jonyuon per Oakland
Signature of Licensee/Agent Overseas Corp.

I hereby make oath and say that the above statement is true and correct.

N Jonyuon
Signature of Licensee/Agent

Sworn to
at Halifax
in the County of Halifax
Province Nova Scotia
this 30th day of August A.D. 19 84
Before me
a Barrister in and
for Nova Scotia

F U W Pennick

1409A

OUTLAND RESOURCES CORP.

STATEMENT OF EXPENDITURES

WIDOW POINT PROPERTY

NOVA SCOTIA

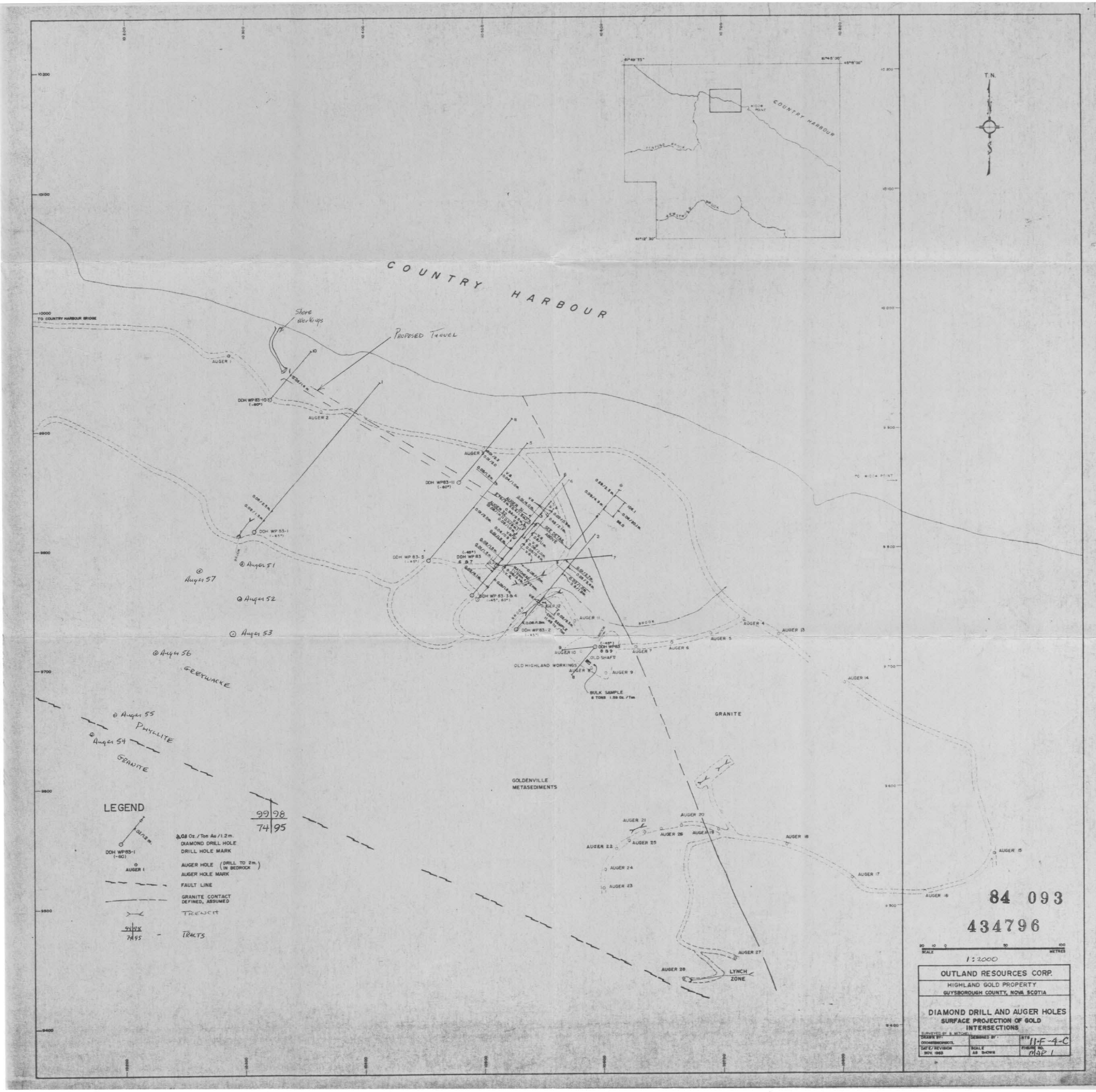
	June 1,1983 to Oct.31,1983 $	Nov.1,1983 to Apr.30,1984 $	Total $
Assays and tests	62,012.25		62,012.25 ✓
Assessment work	220.00	146.00	366.00 ✓
Automobile -Truck (Fuel & Gas)	10,804.62	577.28	11,381.90
Automotive -Lease	12,341.46	--	12,341.46 ✓
Consulting and Geol. Reports	23,523.72	7,258.88	30,782.60
Drilling	131,955.77	--	131,955.77 ✓
Meals and accommodations	15,592.45	4,845.33	20,437.78
Field supplies	6,548.27	7.68	6,555.95 ✓
Geological supplies	6,047.36	713.38	6,760.74 ✓
Insurance	2,613.96	—	2,613.96 ✓
Repairs and maintenance	2,495.32	--	2,495.32 ✓
Travel-field	9,941.54		9,941.54 ✓
Rental equipment(Geol & Bulldozer)	7,600.00	525.00	8,125.00 ✓
Line cutting	1,690.00	--	1,690.00 ✓
Telephone	2,181.49	267.47	2,448.96
Wages and benefits	83,556.11	14,800.06	98,356.17 ✓
Freight	984.22	--	984.22
	380,108.54	29,141.08	409,249.62

~~Contingency 10%~~ ..... ~~40,924.96~~

Widow Pt Lic No. 8646 ~~450,174.58~~ 409,249.62

HIGHLAND GOLD LIC. 8923 52,321.33

TOTAL..... 502,495.91



COUNTRY HARBOUR
TO COUNTRY HARBOUR BRIDGE
Shore Workings
Proposed Tunnel
AUGER 1
AUGER 2
DDH WP83-10 (-60°)
DDH WP83-11 (-60°)
DDH WP83-1
DDH WP83-5
DDH WP83-2
OLD SHAFT
OLD HIGHLAND WORKINGS
BULK SAMPLE
Auger 51
Auger 52
Auger 53
Auger 54
Auger 55
Auger 56
Auger 57
GREYWACKE
PHYLLITE
GRANITE
GOLDENVILLE METASEDIMENTS
LYNCH ZONE
T.N.
99 98
74 95
LEGEND
.01 Oz./Ton Au/1.2m.
DIAMOND DRILL HOLE
DRILL HOLE MARK
DDH WP83-1 (-60)
AUGER HOLE (DRILL TO 2m. IN BEDROCK)
AUGER HOLE MARK
FAULT LINE
GRANITE CONTACT DEFINED, ASSUMED
TRENCH
TRACTS
84 093
434796
SCALE
METRES
1:2000
OUTLAND RESOURCES CORP.
HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA
DIAMOND DRILL AND AUGER HOLES
SURFACE PROJECTION OF GOLD INTERSECTIONS
DATE/REVISION NOV. 1983
SCALE AS SHOWN
NTS 11-F-4-C
FIGURE NO. MAP 1

L-24-W

L-20-W

L-16-W

24+00S

24+00S N.S

8+25W

6+00W

2+25W

4+50W

TL 9 S

TL 10 S

TL 11 S (Metres)

31+00S

GRANITE

PHYLLITE - TOP
GRANITE - BOTTOM

AUGER 33

AUGER 34

AUGER 35

AUGER 36
85
PHYLLITE

AUGER 37
60
PHYLLITE

AUGER 38
GRANITE

AUGER 39
L2

AUGER 40
L1
PHYLLITE

AUGER 41
GRANITE (SHEARED)

AUGER 42
SHEARED GRANITE

AUGER 43
ND
GREYWACKE

AUGER 44
SHEARED GREYWACKE
85
66°

AUGER 45
470
GOLDENVILLE (CATACLASTIC SHEAR)

AUGER 46
GREYWACKE

AUGER 47
SHEARED GRANITE
65°
60°

AUGER 48
GREYWACKE

AUGER 49
GRANITE

AUGER 50
GRANITE

PYRRHOTITIZED HALIFAX FORMATION PHYLLITES

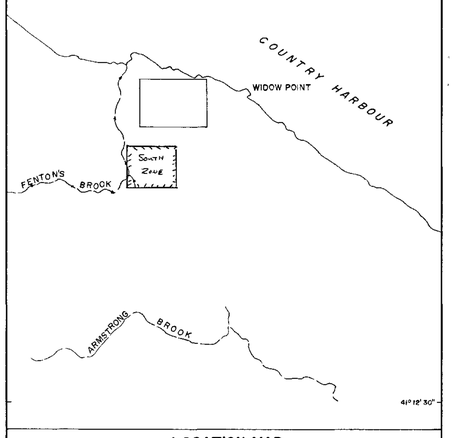
GOLDENVILLE FORMATION GREYWACKES

SKI DOO TRAIL

ND

1015

LOCATION MAP



LEGEND

L-20-W — GRID MARK

GRID LINE

25 — Au GOLD IN SOILS (ppb)

AUGER HOLE

VLF PROFILE (1 cm. = 20%)

84 093

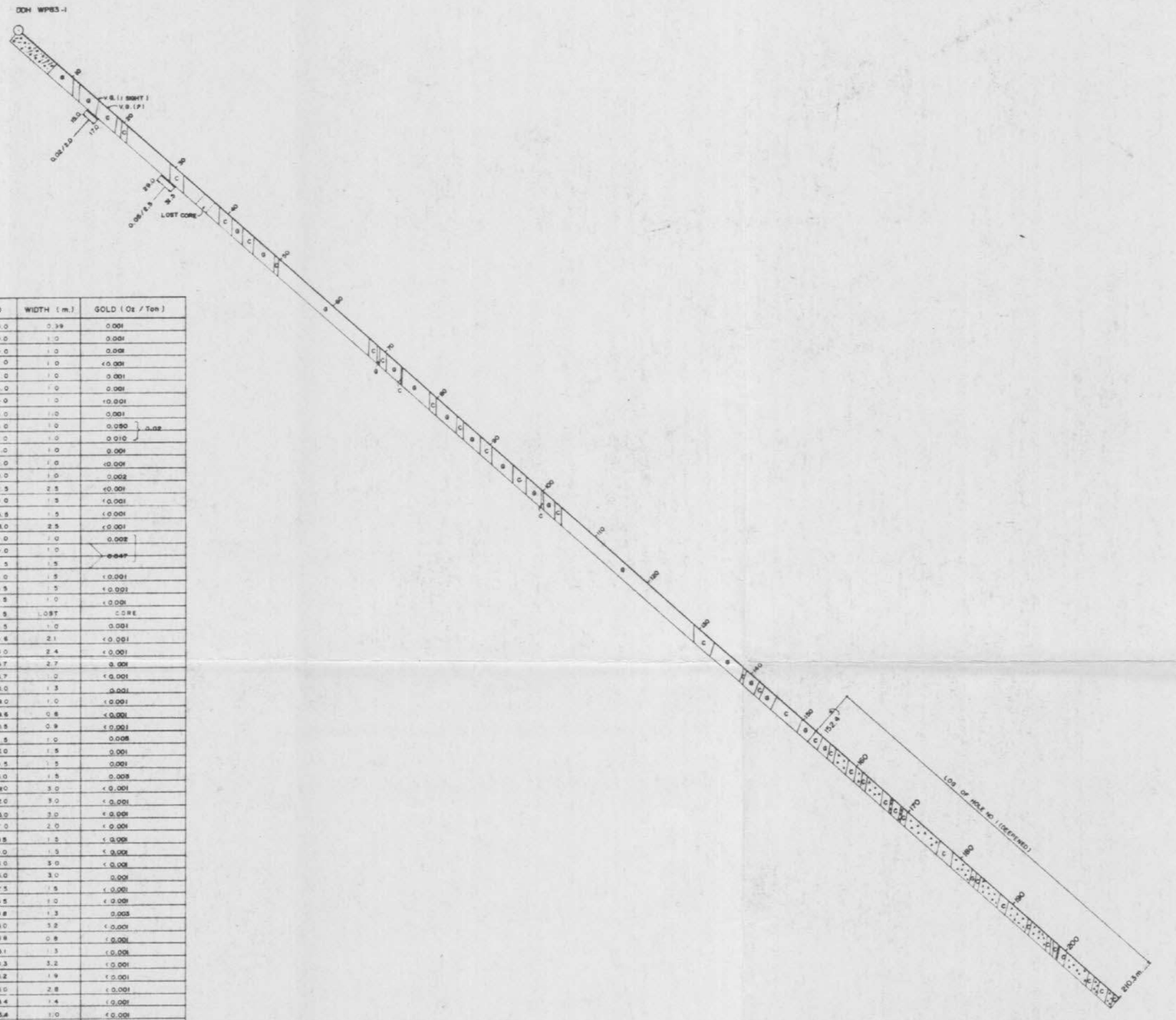
434796

OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

WIDOW POINT SOUTH ZONE
AUGER HOLES (33 TO 50)

DRAWN BY: OIOI2838DONGOL	DESIGNED BY:	NTS 11-F-4-C
DATE / REVISION OCT. 1983	SCALE 1 : 500	FIGURE NO MAP #2



WP 83 - 1

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
79351	7.01	8.0	0.99	0.001
2	9.0	9.0	1.0	0.001
3	9.0	10.0	1.0	0.001
4	10.0	11.0	1.0	<0.001
5	11.0	12.0	1.0	0.001
6	12.0	13.0	1.0	0.001
7	13.0	14.0	1.0	<0.001
8	14.0	5.0	1.0	0.001
9	15.0	16.0	1.0	0.050 } 0.02
79360	16.0	17.0	1.0	0.010
1	17.0	18.0	1.0	0.001
2	18.0	19.0	1.0	<0.001
3	19.0	20.0	1.0	0.002
79385	20.0	22.5	2.5	<0.001
79386	22.5	24.0	1.5	<0.001
7	24.0	25.5	1.5	<0.001
8	25.0	28.0	2.5	<0.001
9	28.0	29.0	1.0	0.002
79364	29.0	30.0	1.0	0.047
5	30.0	31.5	1.5	
79390	31.5	33.0	1.5	<0.001
1	33.0	34.5	1.5	<0.001
2	34.5	35.5	1.0	<0.001
-	35.5	37.5	LOST	CORE
3	37.5	38.5	1.0	0.001
79396	38.5	40.6	2.1	<0.001
79394	40.6	43.0	2.4	<0.001
5	43.0	45.7	2.7	0.001
6	45.7	46.7	1.0	<0.001
7	46.7	48.0	1.3	0.001
8	48.0	49.0	1.0	<0.001
79397	49.0	49.6	0.6	<0.001
79398	49.6	50.5	0.9	<0.001
79400	50.5	51.5	1.0	0.008
1	51.5	53.0	1.5	0.001
2	53.0	54.5	1.5	0.001
3	54.5	56.0	1.5	0.003
4	56.0	59.0	3.0	<0.001
5	59.0	62.0	3.0	<0.001
6	62.0	65.0	3.0	<0.001
7	65.0	67.0	2.0	<0.001
79368	67.0	68.5	1.5	<0.001
9	68.5	70.0	1.5	<0.001
79408	70.0	73.0	3.0	<0.001
09	73.0	76.0	3.0	0.001
79410	76.0	77.5	1.5	<0.001
1	77.5	78.5	1.0	<0.001
79370	78.5	79.8	1.3	0.003
79412	79.8	83.0	3.2	<0.001
3	83.0	83.8	0.8	<0.001
79371	83.8	85.1	1.3	<0.001
79414	85.1	88.3	3.2	<0.001
79372	88.3	90.2	1.9	<0.001
79415	90.2	93.0	2.8	<0.001
6	93.0	94.4	1.4	<0.001
79373	94.4	95.4	1.0	<0.001
4	95.4	96.9	1.5	0.001
79417	96.9	98.7	1.8	<0.001
8	98.7	99.5	0.8	0.001
79375	99.5	101.0	1.5	0.001
79376	101.0	102.0	1.0	<0.001
7	102.0	103.5	1.5	<0.001
79420 A	103.5	105.0	1.5	<0.001
79419 A	105.0	106.5	1.5	<0.001
79420 B	106.5	108.0	1.5	<0.001
[illegible]	108.0	108.5	0.5	<0.001
79421	108.5	111.0	2.5	<0.001
2	111.0	114.0	3.0	<0.001
3	114.0	117.0	3.0	<0.001
4	117.0	120.0	3.0	0.001
5	120.0	123.0	3.0	<0.001
6	123.0	126.0	3.0	<0.001
7	126.0	129.0	3.0	<0.001
79378	129.0	130.0	1.0	0.002
9	130.0	131.0	1.0	0.003
79380	131.0	132.0	1.0	0.004
1	132.0	133.8	1.8	0.008
79428	133.8	136.5	2.7	<0.001
9	136.5	139.5	3.0	<0.001
79430	139.5	141.4	1.9	<0.001
79382	141.4	142.4	1.0	<0.001
79431	142.4	144.9	2.5	<0.001
79383	144.9	147.9	3.0	<0.001
4	147.9	150.9	3.0	<0.001
79432	150.9	152.4	2.5	
5	152.4	153.4	1.0	<0.001
4	156.1	157.1	1.0	<0.001
5	158.2	161.2	3.0	<0.001
6	164.0	165.0	1.0	0.001
7	167.2	168.4	1.2	0.001

LEGEND

- OVERBURDEN
- G — GREYWACKE
- C — CHLORITE SCHIST
- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V G — VISIBLE GOLD

NOTE :
DIP AT COLLAR FOR WP83-1 -49°, DIP AT 152.4 , -37½°
LOCATION GLD GRID 11+ 50 W / 10+ 00 N.

434796

84 093

OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. 1
DDH NO WP 83 - 1
SECTION LOOKING NORTHWEST

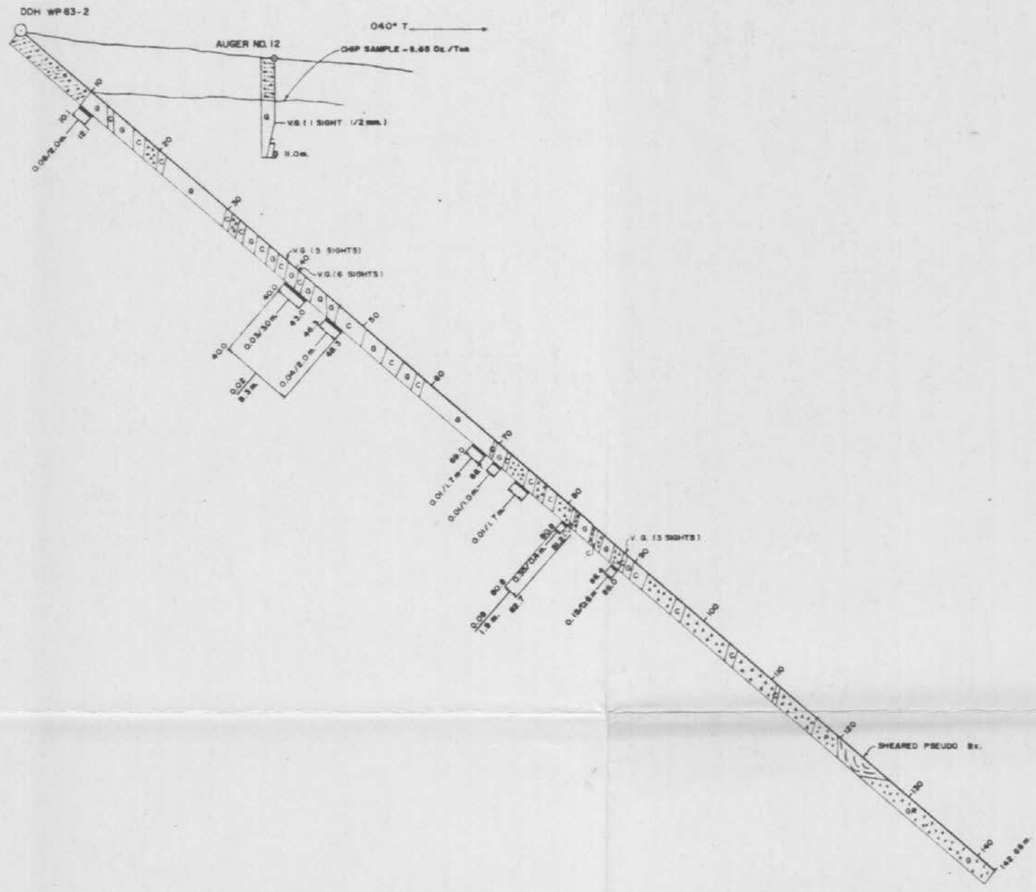
DRAWN BY.	DES:GNED BY	NTS
DATE/REVISION OCT 1983	SCALE 1:500	FIGURE NO.

WP 83 - 2

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
99526	10.1	12.1	2.0	0.060
7	12.1	15.1	3.0	< 0.001
8	15.1	18.1	3.0	0.001
9	18.1	21.0	2.9	0.001
99530	21.0	23.5	2.5	0.002
1	23.5	26.5	3.0	0.002
2	26.5	29.0	2.5	< 0.001
3	29.0	31.7	2.7	< 0.001
4	31.7	34.5	2.8	0.003
5	34.5	37.0	2.5	0.001
6	37.0	40.0	3.0	0.004
7	40.0	43.0	3.0	0.030
8	43.0	46.3	3.3	0.003
9	46.3	48.3	2.0	0.028
99540	48.3	50.3	2.0	0.007
1	50.3	53.4	3.1	< 0.001
2	53.4	56.0	2.6	0.001
3	56.0	59.0	3.0	< 0.001
4	59.0	62.0	3.0	0.002
5	62.0	65.0	3.0	< 0.001
6	65.0	68.0	3.0	< 0.001
7	68.0	69.3	1.3	0.008
8	69.3	69.7	0.4	0.005
9	69.7	71.2	1.5	< 0.001
99550	71.2	71.8	0.6	0.006
1	71.8	74.3	2.5	< 0.001
2	74.3	76.0	1.7	0.006
3	76.0	77.1	1.1	< 0.001
4	77.1	78.5	1.4	0.001
5	78.5	80.8	2.3	< 0.001
6	80.8	81.2	0.4	0.350
7	81.2	82.7	1.5	0.004
8	82.7	84.1	1.4	0.001
9	84.1	84.6	0.5	0.006
99560	84.6	86.0	1.4	< 0.001
1	86.0	87.5	1.5	< 0.001
2	87.5	88.0	0.5	0.001
99904	88.0	88.4	0.4	< 0.001
7	88.4	89.0	0.6	0.150
8	89.0	90.0	1.0	0.002
9	90.0	91.8	1.8	0.010
99910	91.8	93.3	1.5	< 0.001
1	93.3	94.6	1.3	< 0.001
2	94.6	96.1	1.5	0.002
3	96.1	97.3	1.2	0.008
4	97.3	98.8	1.5	< 0.001
5	98.8	100.3	1.5	0.008
6	100.3	101.8	1.5	< 0.001
7	101.8	103.7	1.9	< 0.001
8	103.7	105.0	1.3	< 0.001
9	105.0	106.5	1.5	
99920	106.5	108.0	1.5	
1	108.0	110.7	2.7	
2	110.7	112.2	1.5	
3	112.2	112.7	0.5	
4	112.7	114.2	1.5	
5	114.2	116.5	2.3	
6	116.5	118.0	1.5	< 0.001
7	118.0	119.5	1.5	
8	119.5	121.0	1.5	
9	121.0	122.5	1.5	
99930	122.5	124.6	2.1	
1	124.6	127.1	2.5	< 0.001
2	127.1	127.9	0.8	
3	127.9	130.0	2.2	< 0.001
4	130.1	131.6	1.5	
5	131.6	133.1	1.5	
6	133.1	134.6	1.5	
7	134.6	136.1	1.5	
8	136.1	137.6	1.5	
9	137.6	139.1	1.5	
99940	139.1	141.6	2.5	
1	141.6	142.7	1.1	

AUGER NO. 12

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
78766	6.7	8.2	1.5	NIL ? V.G.
78767	8.2	10.1	1.9	NIL ?



LEGEND

- OVERBURDEN
- G — GREYWACKE
- C — CHLORITE SCHIST
- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V.G. — VISIBLE GOLD

NOTE
DIP AT COLLAR FOR WP83-2 -45°, DIP AT 142.68m -40.5°
LOCATION 78 m WEST OF HIGHLAND SHAFT.

434796

OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. 2
DDH NR -WP 83-2
SECTION LOOKING NORTHWEST

DRAWN BY: 07276/SBC/MGCOL	DESIGNED BY:	N.T.S.
DATE/ REVISION JULY 1983	SCALE 1:300	FIGURE NO.

84 093

WP 83-4

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)	
99801	18.3	21.0	2.7	0.003	
2	21.0	22.0	1.0	0.010	0.04/4.7m
3	22.0	25.1	3.1	0.020	
4	25.1	28.0	3.0	0.003	
5	28.0	29.0	1.0	0.003	
6	29.0	31.8	2.8	TRACE	
7	31.8	33.4	1.6	TRACE	
8	33.4	34.8	1.4	TRACE	
9	34.8	38.6	3.8	TRACE	
99810	38.6	41.2	2.6	0.003	
1	41.2	42.7	1.5	0.010	
2	42.7	45.5	2.8	TRACE	
3	45.5	48.5	3.0	TRACE	
4	48.5	51.5	3.0	TRACE	
5	51.5	54.5	3.0	NIL	
6	54.5	56.7	2.2	NIL	
7	56.7	57.9	1.2	TRACE	
8	57.9	60.9	3.0	TRACE	
9	60.9	63.9	3.0	0.003	
99820	63.9	65.5	1.6		0.007
1	65.5	67.7	2.2	0.001	
2	67.7	68.7	1.0	0.085	0.09/3.1
3	68.7	70.8	2.1	0.008	
4	70.8	72.9	2.1	TRACE	
5	72.9	73.7	0.8	0.003	
6	73.7	76.2	2.5		
7	76.2	77.2	1.0		
8	77.2	80.2	3.0		
9	80.2	82.0	1.8		0.007
99830	82.0	83.2	1.2		
1	83.2	86.4	3.3		
2	86.4	88.3	1.9		
3	88.3	89.3	1.0		
4	89.3	92.3	3.0		
5	92.3	94.9	1.6		
6	94.9	97.9	3.0		0.002
7	97.9	99.5	1.6		
8	99.5	101.1	1.6		
9	101.1	102.7	1.6		
99840	102.7	105.7	3.0		
1	105.7	108.7	3.0		
2	108.7	111.7	3.0		
3	111.7	113.5	1.8		
4	113.5	114.3	0.8		0.049
5	114.3	117.3	3.0		0.002
6	117.3	118.3	1.0		0.002
7	118.3	119.7	1.4		<0.001
8	119.7	120.7	1.0		<0.001
9	120.7	121.7	1.0		<0.001
99850	121.7	122.7	1.0		0.008
1	122.7	123.7	1.0	0.121	0.08/2m.
2	123.7	124.7	1.0	0.030	
3	124.7	125.7	1.0	TRACE	
4	125.7	126.7	1.0	TRACE	
5	126.7	128.0	1.3	TRACE	
6	128.0	130.9	2.9	0.003	
7	130.9	132.4	1.5		
8	132.4	133.9	1.5		
9	133.9	135.0	1.1	0.056	
99860	135.0	136.0	1.0		0.008
1	136.0	137.0	1.0		
2	137.0	138.7	1.7		
3	138.7	140.2	1.5		
4	140.2	141.7	1.5		
5	141.7	143.2	1.5		
6	143.2	145.2	2.0		
7	145.2	147.8	2.6		
8	147.8	149.3	1.5		
9	149.3	150.8	1.5	TRACE	
99870	150.8	152.3	1.5		
1	152.3	153.8	1.5		
2	153.8	155.3	1.5		
3	155.3	156.8	1.5		
4	156.8	158.3	1.5		
5	158.3	160.8	2.5		
6	160.8	162.8	2.0		
7	162.8	164.3	1.5		
8	164.3	165.9	1.6		
9	165.9	167.3	1.4		
99880	167.3	169.0	1.7		
1	169.0	169.6	0.6	TRACE	
2	169.6	170.3	0.7		
3	170.3	171.4	1.1		
4	171.4	172.5	1.1	0.005	0.48/2m
5	172.5	173.5	1.0	0.87	0.22/4.1m.
6	173.5	174.5	1.0	0.002	
7	174.5	175.5	1.0	0.007	
8	175.5	177.0	1.5		
9	177.0	179.0	2.0	0.001	
99890	179.0	180.1	1.1		
1	180.1	180.9	0.8		
2	180.9	181.9	1.0	0.002	
3	181.9	182.8	0.9	0.025	
4	182.8	183.7	0.9	0.003	
5	183.7	184.4	0.7	TRACE	
6	184.4	185.9	1.5		
7	185.9	187.4	1.5		
8	187.4	188.7	1.3		
9	188.7	189.3	0.6	0.002	
99900	189.3	190.8	1.5		
1	190.0	191.9	1.9		
2	191.9	193.2	1.3		
3	193.2	194.0	0.8	0.002	
4	194.0	195.3	1.3		
5	195.3	196.65	1.35		

AUGER 30

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
	NOT SAMPLED			

WP 83-3

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)	
90301	24.5	26.0	1.5	0.001	
2	26.0	27.5	1.5	0.001	
3	27.5	29.0	1.5	LO.001	
4	29.0	31.0	2.0	LO.001	
5	31.0	32.5	1.5	LO.001	
6	32.5	34.5	2.0	LO.001	
7	34.5	36.0	1.5	LO.001	
8	36.0	37.5	1.5	0.012	
9	37.5	39.0	1.5	0.002	
90310	39.0	40.5	1.5	0.011	
1	40.5	42.0	1.5	0.006	
2	42.0	43.5	1.5	0.005	
3	43.5	45.5	2.0		0.003
4	45.5	47.0	1.5		0.002
5	47.0	48.5	1.5		0.010
6	48.5	50.0	1.5		0.001
7	50.0	51.5	1.5		0.001
8	51.5	53.0	1.5		0.024
9	53.0	54.5	1.5	LO.001	
90320	54.5	56.0	1.5	LO.001	
1	56.0	58.0	1.5	0.001	
2	58.0	60.0	2.0	.004	
3	60.0	62.0	2.0	0.002	
4	62.0	64.5	2.5	LO.001	
5	64.5	66.5	2.0	LO.001	
6	66.5	68.5	2.0	0.004	
7	68.5	71.0	2.5	0.010	
8	71.0	73.0	2.0	0.003	
9	73.0	74.5	1.5	LO.001	
90330	74.5	76.5	1.5	LO.001	
1	76.5	78.5	2.5	0.002	
2	78.5	79.5	2.0	LO.001	
3	79.5	81.0	1.5	LO.001	
4	81.0	82.0	1.0	LO.002	
5	82.0	83.0	1.0		0.010
6	83.0	84.1	1.0		0.002
7	84.1	85.0	1.0		0.001
8	85.0	86.0	1.0		0.002
9	86.0	87.0	1.0		0.225
90340	87.0	88.0	1.0	0.09 / 4.9m.	0.005
1	88.0	89.5	1.5		0.005
2	89.5	90.9	1.4		0.018
3	90.9	91.9	1.0		0.003
4	91.9	92.7	0.8		0.001
5	92.7	93.4	0.7		0.002
6	93.4	94.4	1.0		0.001
7	94.4	95.4	1.0		0.002
99501	95.4	97.4	2.0		0.031
2	97.4	99.4	2.0		0.015
3	99.4	101.8	2.4	0.07 / 10.7 m.	0.003
4	101.8	103.8	2.0		0.002
5	103.8	106.1	2.3		0.293
6	106.1	109.0	2.9	LO.001	
7	109.0	112.0	3.0	0.003	
8	112.0	115.0	3.0		0.002
9	115.0	117.5	2.5	0.001	
99510	117.5	121.5	4.0		0.012
1	121.5	124.0	2.5	0.002	
2	124.0	128.0	4.0	LO.001	0.001
3	128.0	131.0	3.0	LO.001	
4	131.0	134.0	3.0	0.001	
5	134.0	137.0	3.0	0.003	
6	137.0	140.0	3.0	LO.001	
7	140.0	142.38	2.38	LO.001	

AUGER 31

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)	
N.S.	0	12.5	12.5	–	
3458	12.5	13.41	0.91	NIL	
	13.41	13.56	0.15	66.30	0.78 / 5.0 m.
3459	13.56	15.24	1.68	0.002	
3460	15.24	16.46	1.22	NIL	
3461	16.46	17.07	0.61	0.22	
3462	17.07	18.90	1.83	NIL	
3463	18.90	20.43	1.53	NIL	
3464	20.43	21.95	1.52	0.042	
3465	21.95	23.78	1.83	NIL	
3466	23.78	24.54	0.76	NIL	
N.S.	24.54	30.48	5.94	–	

WP 83-6

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)	
99678	19.2	20.8	1.6		
7	20.8	21.8	1.0	0.002	
8	21.8	24.8	3.0		
9	24.8	27.8	3.0	0.003	
99680	27.8	29.3	1.5		
1	29.3	30.5	1.2		
2	30.5	31.5	1.5	0.001	
3	31.5	33.0	1.5	<0.001	
4	33.0	33.9	0.9	0.055	
5	33.9	36.4	2.5	<0.001	
6	36.4	37.1	0.7	0.001	
99580	37.1	38.1	0.9	0.003	
99579	37.5	37.6	0.1	0.005	
99687	38.1	39.1	1.0	0.007	
99688	39.1	42.6	3.5	0.001	
99582	42.6	43.8	1.0	<0.001	
99581	43.0	43.1	0.1	0.155	
99689				NO SAMPLE	
99690	43.6	46.6	3.0	0.003	
1	46.6	49.6	3.0		
2	49.6	51.7	2.1		
3	51.7	52.7	1.0		
4	52.7	53.7	1.0		
5	53.7	54.7	1.0		
6	54.7	56.0	1.3	0.001	
99578	56.0	56.5	0.5	0.002	
99576	56.5	56.60	0.10	13.810	0.54 / 2.5m.
99577	56.60	57.00	0.40	0.001	
99697	57.0	58.5	1.50	0.001	
99698	58.5	61.5	3.0	0.002	
99699	61.5	62.5	1.0	<0.001	
99700	62.5	63.5	1.0	0.005	
99751	63.5	64.8	1.3	<0.001	
2	64.8	67.8	3.0		
3	67.8	70.3	2.5	0.005	
4	70.3	72.1	1.8	<0.001	
5	72.1	73.2	1.1	0.001	
6	73.2	74.2	1.0	0.002	
7	74.2	75.3	1.1	<0.001	
8	75.3	78.3	3.0		

NOTE: FOR CONTINUATION OF WP83-6 SAMPLE DATA SEE TOP RIGHT HAND CORNER.

AUGER 32

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)	
N.S.	0	14.6	14.6	–	
3467	14.6	15.85	1.25	NIL	
N.S.	15.85	17.2	1.35	–	
3468	17.2	1.0	18.2	NIL	
N.S.	18.2	22.4	4.2	–	
3469	22.4	23.4	1.0	0.080	0.04/4.7m.
3470	23.4	25.2	2.8	NIL	
3471	26.2	27.1	0.9	0.110	
3472	27.1	28.4	1.3	0.001	
3473	28.4	30.6	2.2	0.001	
N.S.	30.6	32.5	1.9	–	
3474	32.5	33.5	1.0	0.001	

FOR CONTINUATION SEE LOWER RIGHT HAND SIDE THIS SHEET.

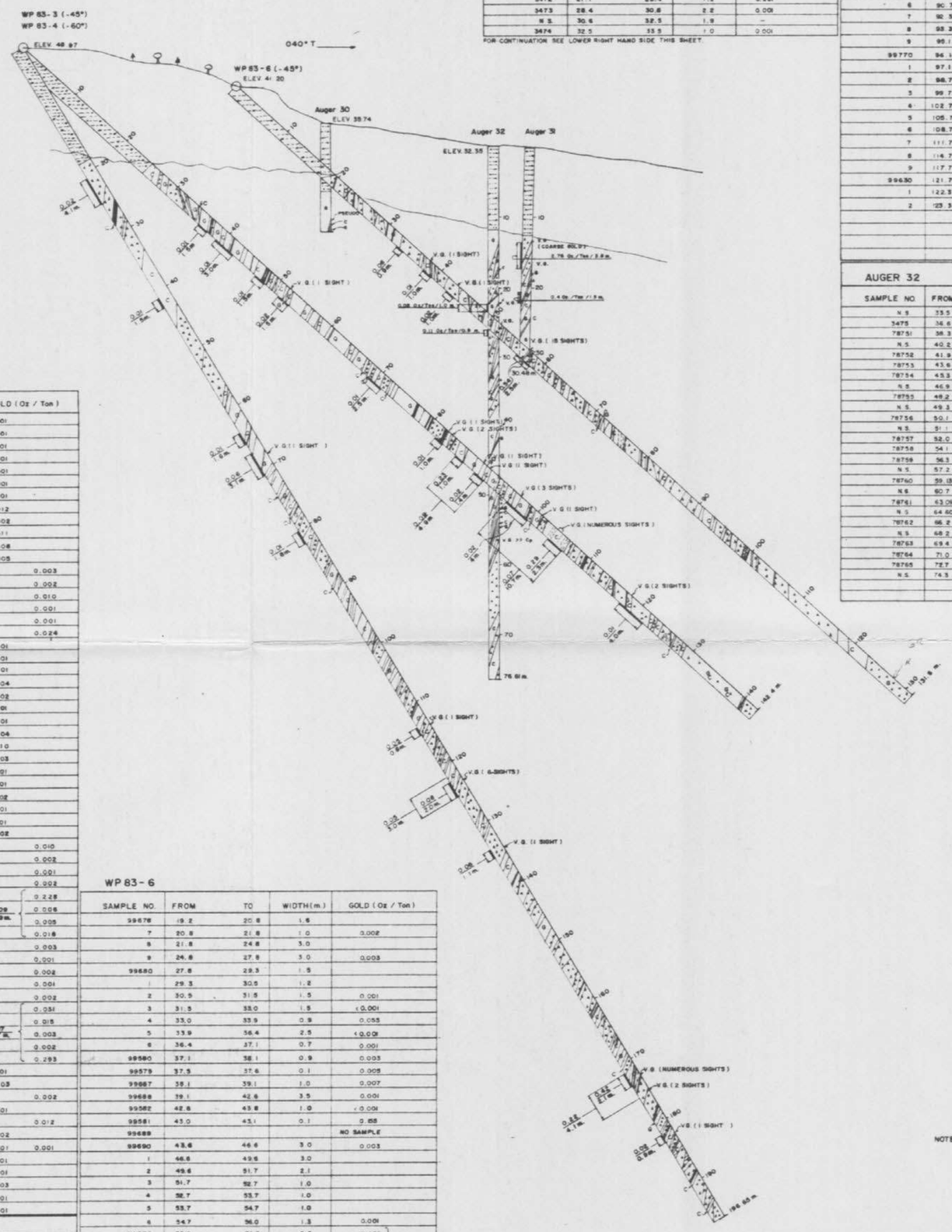
WP 83-6 CONTINUATION

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / TON)
99759	78.3	81.3	3.0	
99760	81.3	82.9	1.6	
1	82.9	83.9	1.0	<0.001
2	83.9	84.9	1.0	
3	84.9	87.9	3.0	
4	87.9	89.7	1.8	
5	89.7	90.7	1.0	
6	90.7	92.3	1.5	<0.001
7	92.5	93.5	1.0	<0.001
8	93.3	95.1	1.8	
9	95.1	96.1	1.0	
99770	96.1	97.1	1.0	
1	97.1	98.7	1.6	
2	98.7	99.7	1.0	<0.001
3	99.7	102.7	3.0	
4	102.7	105.7	3.0	
5	105.7	108.7	3.0	
6	108.7	111.7	3.0	
7	111.7	114.7	3.0	
8	114.7	117.7	3.0	
9	117.7	121.7	4.0	
99630	121.7	122.5	0.8	
1	122.5	123.3	1.0	
2	123.3	131.8	8.5	NOT SAMPLED

AUGER 32 CONTINUATION

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
N.S.	33.5	36.6	3.1	–
3475	36.6	38.3	1.7	NIL
78751	38.3	40.2	1.9	NIL
N.S.	40.2	41.9	1.7	–
78752	41.9	43.6	1.7	NIL
78753	43.6	45.3	1.7	0.001
78754	45.3	46.9	1.6	0.001
N.S.	46.9	48.2	1.3	–
78755	48.2	49.3	1.1	NIL
N.S.	49.3	50.1	0.8	–
78756	50.1	51.1	1.0	0.004
N.S.	51.1	52.0	0.9	–
78757	52.0	54.1	2.1	NIL
78758	54.1	56.3	2.2	NIL
78759	56.3	57.2	0.9	0.002
N.S.	57.2	59.13	1.93	–
78760	59.13	60.7	1.57	0.001
N.S.	60.7	63.09	2.2	–
78761	63.09	64.60	1.51	NIL
N.S.	64.60	66.2	1.6	–
78762	66.2	68.2	2.0	0.001
N.S.	68.2	69.4	1.2	–
78763	69.4	71.0	1.6	0.001
78764	71.0	72.7	1.7	0.001
78765	72.7	74.3	1.6	NIL
N.S.	74.3	76.61	2.31	–

VALUES PLOTTED ≥ 0.01 Oz./Ton



LEGEND

- OVERBURDEN
- G — GREYWACKE
- C — CHLORITE SCHIST
- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V.G. — VISIBLE GOLD
- QUARTZ STRINGERS
- < 5 cm. QUARTZ VEIN
- > 5 cm. QUARTZ VEIN

NOTE
DIP AT COLLAR FOR WP83-3, -45°, DIP AT 142.4m., -42°
DIP AT COLLAR FOR WP 83-4, -60°, DIP AT 196.65m., -56½°
LOCATION 130m. WEST OF HIGHLAND SHAFT

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84 093

OUTLAND RESOURCES CORP.

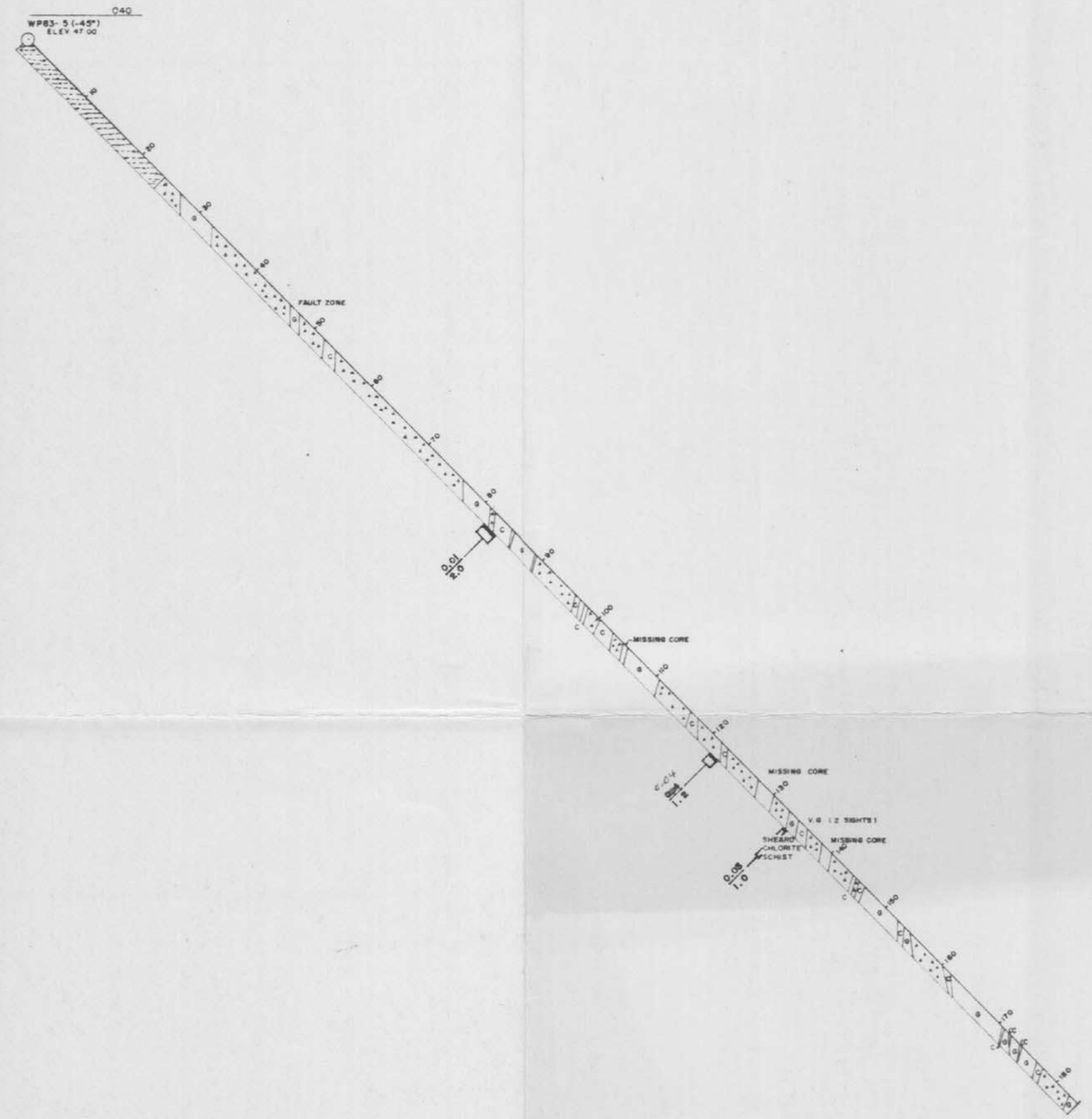
HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. 3
DDH WP 83-3; 4; & 6
AUGER 30; 31; & 32
SECTIONS LOOKING NORTHWEST

DRAWN BY: GT/BB/BB/MG/COL	DESIGNED BY: -	NTS
DATE / REVISION: SEPT. 1983	SCALE: 1:300	FIGURE NO.

WP 83 - 5

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
99651	24.1	26.5	2.4	
2	26.5	29.5	3.0	
3	29.5	32.1	2.6	
4	32.1	35.1	3.0	
5	35.1	38.1	3.0	
6	38.1	41.1	3.0	
7	41.1	44.1	3.0	
8	44.1	45.7	1.6	
9	45.7	46.3	0.6	
99660	46.3	49.3	3.0	
1	49.3	51.6	2.3	
2	51.6	53.7	2.1	
3	53.7	56.7	3.0	
4	56.7	59.7	3.0	
5	59.7	62.7	3.0	
6	62.7	65.7	3.0	
7	65.7	68.7	3.0	
8	68.7	71.7	3.0	
9	71.7	74.7	3.0	
99670	74.7	75.8	1.1	
1	75.8	78.8	3.0	
2	78.8	80.5	1.7	
3	80.5	81.4	0.9	
4	81.4	82.4	1.0	0.007
99775	82.4	83.4	1.0	0.009
6	83.4	84.4	1.0	NIL
7	84.4	85.4	1.0	
8	85.4	87.4	2.0	
9	87.4	88.4	1.0	
99780	88.4	91.4	3.0	
1	91.4	92.4	1.0	
2	92.4	94.4	2.0	0.002
3	94.4	95.4	1.0	NIL
4	95.4	96.0	0.6	NIL
5	96.0	96.7	0.7	NIL
6	96.7	97.3	0.6	
7	97.3	97.8	0.5	0.005
8	97.8	100.1	2.3	
9	100.1	101.1	1.0	NIL
99790	101.1	102.1	1.0	0.001
1	102.1	103.9	1.8	
	103.9	104.9	MISSING CORE	
2	104.9	106.4	1.5	
3	106.4	107.0	0.6	
4	107.0	109.0	2.0	
5	109.0	110.0	1.0	
6	110.0	113.0	3.0	
7	113.0	116.0	3.0	
8	116.0	117.1	1.1	
9	117.1	118.3	1.2	
99800	118.3	119.2	0.9	
99801	119.2	120.3	1.1	NIL
2	120.3	121.3	1.0	
3	121.3	122.5	1.2	0.04
4	122.5	124.2	1.7	NIL
5	124.2	125.2	1.0	
6	125.2	126.2	1.0	
7	126.2	126.05	1.85	
	126.05	130.8	MISSING CORE	
8	130.8	153.0	2.2	NIL
9	133.0	134.0	1.0	
99710	134.0	135.5	1.5	NIL
1	135.5	135.8	0.3	
2	135.8	135.9	0.1	TRACE
3	135.9	136.5	0.6	NIL
4	136.5	139.0	2.5	
	139.0	140.9	MISSING CORE	
5	140.9	143.9	3.0	
6	143.9	145.5	1.6	
7	145.5	146.5	1.0	
8	146.5	147.3	0.7	
9	147.3	148.0	0.7	
99720	148.0	151.0	3.0	
1	151.0	152.0	1.1	
2	152.1	153.1	1.0	NIL
3	153.1	154.1	1.0	
4	154.1	157.1	3.0	
5	157.1	159.8	2.7	
6	159.8	161.0	1.2	
7	161.0	162.0	1.0	
8	162.0	163.0	1.0	
9	163.0	166.0	3.0	
99730	166.0	167.0	1.0	
1	167.0	170.0	3.0	
2	170.0	173.0	3.0	
3	173.0	176.0	3.0	
4	176.0	177.0	1.0	
5	177.0	178.0	1.0	
6	178.0	181.0	3.0	
7	181.0	183.84	2.84	



LEGEND

- OVERBURDEN
- G — GREYWACKE
- C — CHLORITE SCHIST
- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V.G. — VISIBLE GOLD

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OUTLAND RESOURCES CORP.

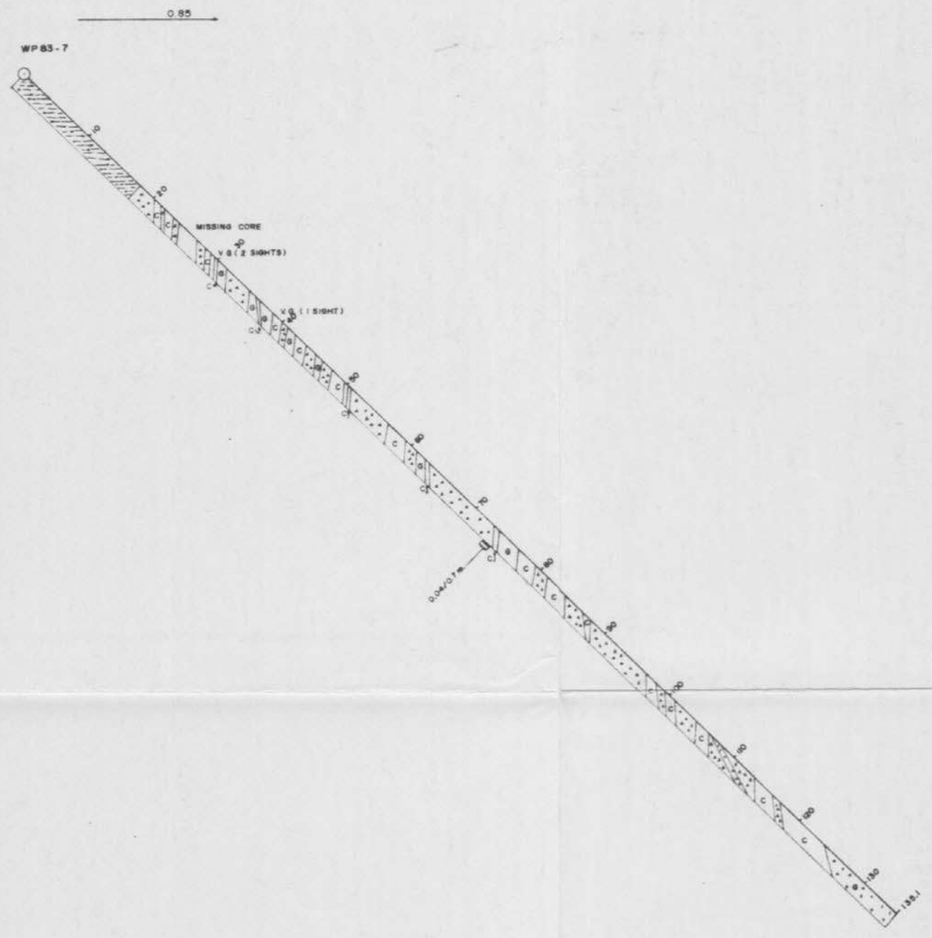
HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. 5
DDH. Nº WP 83 - 5
SECTION LOOKING NORTHWEST

DRAWN BY: OSBORNE/JOHNCOL	DESIGNED BY:	N.T.S.
DATE / REVISION: SEPT. 1983	SCALE: 1 : 300	FIGURE NO.

WP83-7

SAMPLE NO.	FROM	TO	WIDTH (m)	GOLD (Oz. / Ton)
99451	17.9	20.1	2.2	<0.001
2	20.1	21.1	1.0	<0.001
3	21.1	21.7	0.6	<0.001
4	21.7	23.0	1.3	<0.001
5	23.0	23.7	0.7	<0.001
	23.7	26.5	MISSING CORE	
6	26.5	27.9	1.4	<0.001
7	27.9	29.6	1.7	<0.001
8	29.6	29.71	0.11	0.46
9	29.21	31.7	1.99	
99680	31.7	34.7	3.0	
1	34.7	35.7	1.0	
2	35.7	36.3	0.6	
3	36.3	38.2	1.9	
4	38.2	38.73	0.53	
5	38.73	38.8	0.07	0.014
6	38.8	39.9	1.1	<0.001
7	39.9	40.8	0.9	<0.001
8	40.8	41.8	1.0	<0.001
9	41.8	42.7	0.9	<0.001
99670	42.7	43.6	0.9	<0.001
1	43.6	46.6	3.0	
2	46.6	47.5	0.9	
3	47.5	48.5	1.0	
4	48.5	49.5	1.0	
5	49.5	50.0	0.5	
99601	50.0	50.5	0.5	
2	50.5	53.5	3.0	
3	53.5	56.2	2.7	<0.001
4	56.2	57.1	0.9	<0.001
5	57.1	58.0	0.9	<0.001
6	58.0	59.0	1.0	<0.001
7	59.0	60.5	1.5	
8	60.5	62.7	2.2	
9	62.7	65.7	3.0	
99610	65.7	66.9	1.2	
1	66.9	67.4	0.5	
2	67.4	70.4	3.0	
3	70.4	72.8	2.4	0.003
4	72.8	73.5	0.7	0.040
5	73.5	76.5	3.0	<0.001
6	76.5	77.1	0.6	<0.001
7	77.1	78.2	1.1	<0.001
8	78.2	79.0	0.8	<0.001
9	79.0	81.8	2.8	
99620	81.8	82.8	1.0	
1	82.8	83.9	1.1	
2	83.9	85.0	1.1	
3	85.0	86.0	1.0	
4	86.0	87.0	1.0	
5	87.0	88.0	1.0	
3426	88.0	89.0	1.0	
7	89.0	90.0	1.0	
8	90.0	91.0	1.0	
9	91.0	92.0	1.0	<0.001
3430	92.0	93.0	1.0	
1	93.0	94.5	1.5	
2	94.5	95.7	1.2	
3	95.7	96.7	1.0	
4	96.7	97.7	1.0	<0.001
5	97.7	98.2	0.5	<0.001
6	98.2	99.4	1.2	
7	99.4	100.2	0.8	<0.001
8	100.2	101.0	0.8	
9	101.0	104.1	3.1	
3440	104.1	105.2	1.1	<0.001
1	105.2	106.3	1.1	<0.001
2	106.3	107.0	0.7	
3	107.0	108.9	1.9	
4	108.9	109.7	0.8	
5	109.7	111.5	1.8	
6	111.5	113.1	1.6	
7	113.1	113.5	0.4	<0.001
8	113.5	114.3	0.8	<0.001
9	114.3	115.1	0.8	<0.001
3450	115.1	116.1	1.0	
1	116.1	117.3	1.2	<0.001
2	117.3	118.0	0.7	
3	118.0	119.0	1.0	
4	119.0	120.0	1.0	
5	120.0	121.1	1.0	
6	121.0	122.0	1.0	



LEGEND

- OVERBURDEN
- G — GREYWACKE
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- PSEUDO BRECCIA
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- GR — GRANITE
- V.G. — VISIBLE GOLD

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OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. 7
DDH. NP-WP 83-7
SECTION LOOKING NORTH

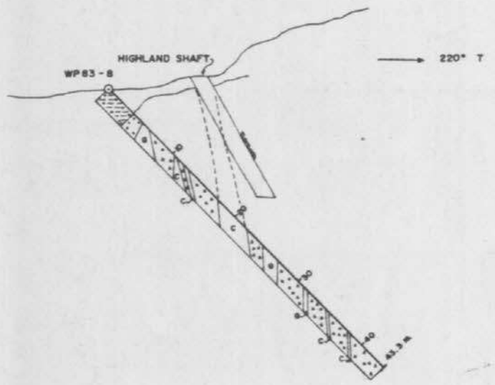
DRAWN BY: OSBORNE/DINGCOL	DESIGNED BY:	NTS
DATE / REVISION OCT/1983	SCALE 1:300	FIGURE NO.

WP 83 - 8

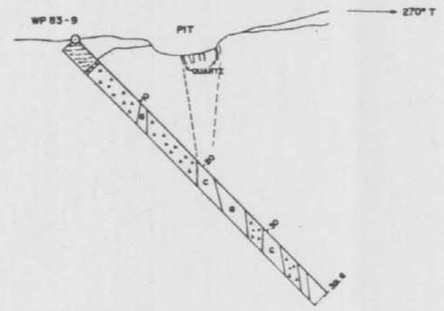
SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
90255	10.4	12.5	2.1	0.001
90256	17.3	19.3	2.0	NIL
90257	19.3	21.8	2.5	0.001

WP 83-9

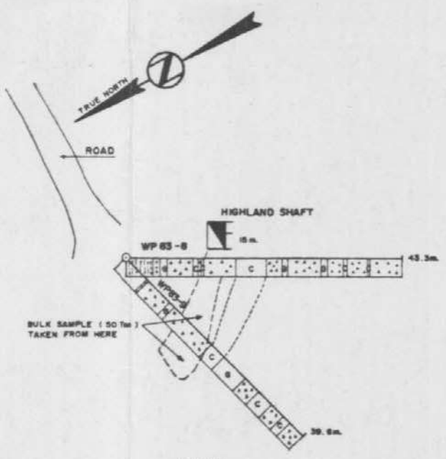
SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz. /Ton)
90258	19.0	22.0	3.0	NIL
90259	29.5	32.5	3.0	NIL



SECTION LOOKING EAST



SECTION LOOKING SOUTHEAST



PLAN

LEGEND

- OVERBURDEN
- G — GREYWACKE
- C — CHLORITE SCHIST
- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V.G. — VISIBLE GOLD
- ---- QUARTZ STRINGERS
- —— < 5 cm. QUARTZ VEIN
- —— > 5 cm. QUARTZ VEIN

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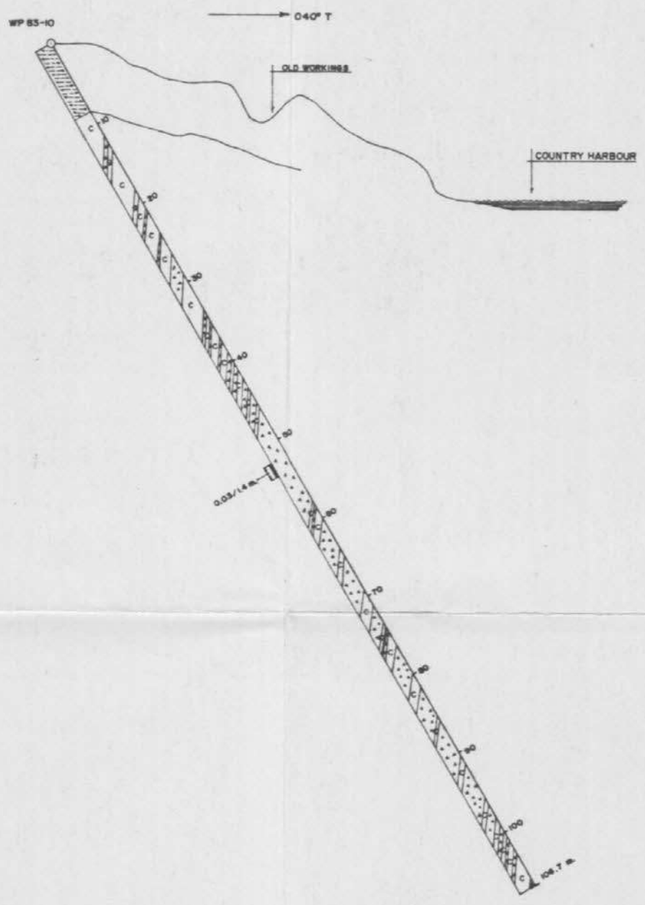
OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. 8
DDH WP 83 - 8 AND 9
SHOWING PLAN

Drawn BY: DG/KS/BB/HG/CDL	DESIGNED BY:	NTS
DATE / REVISION OCT, 1983	SCALE 1: 300	FIGURE NO.

WP 83 - 10				
SAMPLE NO.	FROM	TO	WIDTH (m)	GOLD (Oz / Ton)
78776	9.6	10.4	0.8	0.001
7	11.3	12.3	1.0	0.001
8	13.0	14.0	1.0	0.001
9	14.3	15.3	1.0	NIL
78780	15.8	17.0	1.2	NIL
1	17.3	18.3	1.0	NIL
2	21.0	22.0	1.0	0.001
3	22.6	23.6	1.0	NIL
4	24.2	25.1	0.9	NIL
5	27.0	28.0	1.0	NIL
6	29.8	30.8	1.0	NIL
7	35.2	35.7	0.5	0.001
8	37.3	38.6	1.3	NIL
9	39.5	40.5	1.0	NIL
78790	41.2	42.1	0.9	NIL
1	45.2	46.2	1.0	NIL
2	46.4	48.0	1.6	NIL
3	48.2	49.2	1.0	0.001
4	49.9	50.8	0.9	0.003
5	50.9	52.1	1.2	0.003
6	52.5	53.9	1.4	0.030
7	54.0	55.1	1.1	0.001
8	55.7	56.5	0.8	NIL
9	60.3	61.3	1.0	NIL
78800	62.0	62.9	0.9	NIL
81926	66.7	66.7	1.0	NIL
7	67.1	68.0	0.9	NIL
8	71.0	72.0	1.0	0.002
9	72.4	73.4	1.0	NIL
81930	73.9	74.8	0.9	NIL
1	75.1	76.5	1.4	NIL
2	76.7	77.7	1.0	NIL
3	78.1	79.0	0.9	NIL
4	79.0	80.0	1.0	NIL
5	80.8	81.9	1.1	NIL
6	82.3	83.2	1.0	NIL
7	83.2	84.2	1.0	NIL
8	86.5	87.4	0.8	NIL
9	87.4	88.3	0.9	0.001
81940	89.3	90.1	0.8	NIL
1	90.3	91.3	1.0	0.001
2	91.5	92.8	1.3	0.001
3	95.0	96.0	1.0	0.001
4	97.3	98.3	1.0	NIL
5	98.6	99.8	1.2	NIL
6	99.9	101.0	1.1	NIL
7	101.2	102.3	1.1	0.001
8	103.7	104.6	0.9	0.002
81949	105.4	106.4	1.0	0.001



LEGEND

- OVERBURDEN
- G — GREYWACKE
- C — CHLORITE SCHIST
- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V.G. — VISIBLE GOLD
- QUARTZ STRINGERS
- < 5 cm. QUARTZ VEIN
- > 5 cm. QUARTZ VEIN

NOTE:
LOCATION OF HOLE ON MAIN ACCESS ROAD 80 m AT 008° T FROM WP83-1

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OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

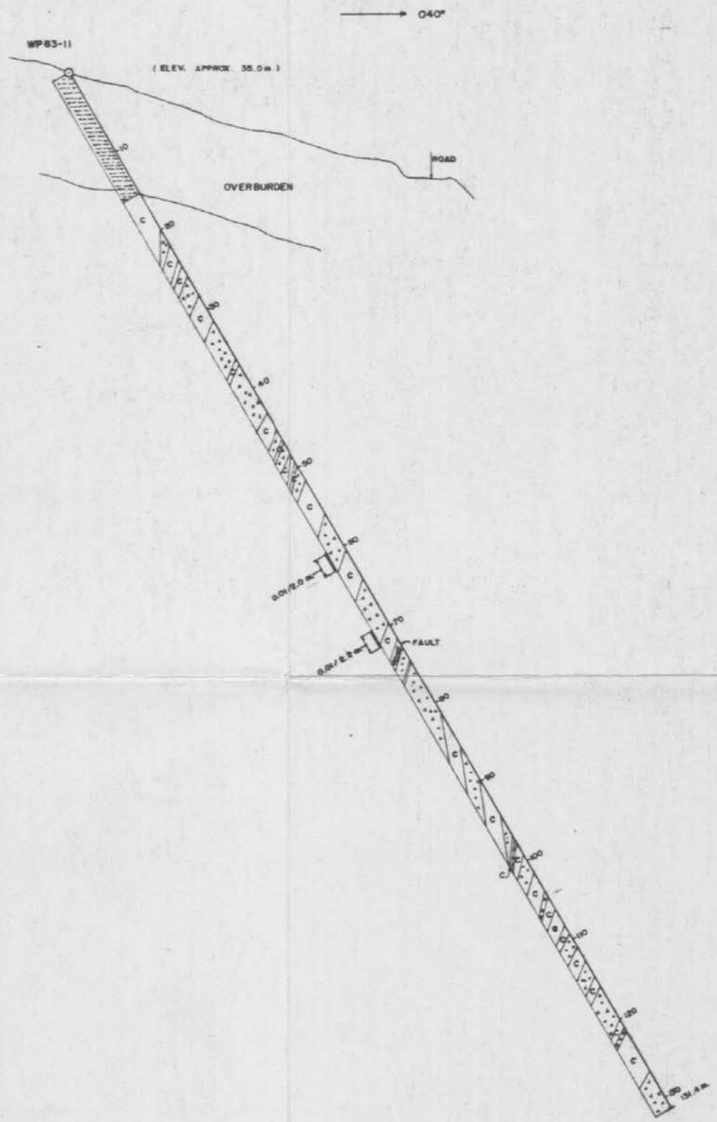
SECTION NO. 10
DDH- WP83 - 10
SECTION LOOKING NORTHWEST

DRAWN BY: CHOUDHRY/MACDOUGALL	DESIGNED BY:	NTS
DATE / REVISION OCT. 1983	SCALE 1 : 300 m.	FIGURE NO.

84 093

WP 83 - 11

SAMPLE NO.	FROM	TO	WIDTH (m.)	GOLD (Oz / Ton)
81931	19.2	20.8	5.6	0.003
2	20.8	24.7	3.9	NIL
3	24.7	26.7	2.0	NIL
4	26.3	30.6	5.3	TRACE
5	31.4	33.5	2.1	NIL
6	33.5	36.4	2.9	NIL
7	36.5	40.3	3.9	NIL
8	40.8	43.0	2.2	TRACE
9	43.0	45.4	2.4	NIL
81980	45.8	49.8	3.9	TRACE
1	50.0	52.0	2.0	TRACE
2	52.0	55.6	3.6	NIL
3	55.6	58.0	2.4	.002
4	58.0	60.5	2.5	NIL
5	60.3	62.3	2.0	.006 - 0.01
6	62.3	64.9	2.2	NIL
7	65.6	67.7	2.1	NIL
8	67.7	69.8	1.6	NIL
9	69.8	71.7	2.2	.006 - 0.01
81970	71.7	74.3	2.6	NIL
1	74.3	77.0	2.7	TRACE
2	77.00	79.3	2.1	TRACE
3	79.3	82.5	3.2	TRACE
4	82.8	85.2	2.4	NIL
5	89.3	91.0	1.7	NIL
90231	93.0	4.4	1.4	NIL
2	110.5	112.5	2.0	NIL
3	115.7	118.0	2.3	
4	129.5	131.0	1.5	NIL



LEGEND

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- G — GREYWACKE
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- PSEUDO BRECCIA
- P — PEGMATITE
- GR — GRANITE
- V.G. — VISIBLE GOLD
- QUARTZ STRINGERS
- < 5 cm. QUARTZ VEIN
- > 5 cm. QUARTZ VEIN

NOTE :
LOCATION OF HOLE 70m. AT 022° T FROM WP83-10

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OUTLAND RESOURCES CORP.

HIGHLAND GOLD PROPERTY
GUYSBOROUGH COUNTY, NOVA SCOTIA

SECTION NO. II
DDH - WP83-11
SECTION LOOKING NORTHWEST

DRAWN BY: DDI/BSB/PW/RCOL	DESIGNED BY:	NTS
DATE / REVISION OCT. 1983	SCALE 1:300	FIGURE NO.

84 093