

ASSESSMENT REPORT  
ROC PROPERTY (AP 67)

ASHTON MINING OF CANADA INC.

KITIKMEOT DISTRICT  
NUNAVUT  
2001

084411

Company: Ashton Mining (Northwest Territories) Ltd.  
Claims: Roc 13, Roc 27-Roc 41 (inclusive)  
Dates of Work: June 1999 to June 2001  
Location: West of Rockinghorse Lake  
NTS: 86 H/15  
Latitude: 65° 48' N  
Longitude: 112° 40' W  
  
Authors: Andrew Berry,  
Date: September 12, 2001

**RECEIVED**

SEP 13 2001

**D.I.A.N.D.**  
IQUALUIT, NT

THIS REPORT HAS BEEN EXAMINED AND  
APPROVED AS TO TECHNICAL WORTH UNDER  
SECTIONS 6 & 7 OF SCHEDULE II OF THE  
CANADA MINING REGULATIONS AND

VALUED IN THE AMOUNT OF \$ 48,924.00

DATE: Nov 6, 01 Robert Poyth

ENGINEER OF MINES FOR  
CHIEF, NUNAVUT MINERAL  
RESOURCES SECTION

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## **SUMMARY**

The Roc Property is situated in the territory of Nunavut, Canada, west of Rockinghorse Lake. It is approximately 230 kilometers southeast of the Kugluktuk and 380 kilometres north-northeast of the city of Yellowknife. The property comprises 21 mineral claims totaling 54,232.5 acres. In joint venture with Pure Gold Minerals Inc., Ashton Mining (Northwest Territories) Ltd. is the project operator.

Being the first assessment filing on contiguous claims Roc 27 to Roc 41 (Recorded 08/10/1999), expenditures totaling \$48,924.05, incurred with the collection and analysis of 41 heavy mineral samples collected during the 1999 and 2000 field seasons, are being applied across the claim block pro rata, to hold 2 mineral claims, Roc 28 and Roc 30 in good standing. Expenditures applied to mineral claim Roc 28 have been grouped with requirements on mineral claim Roc 13 to recover a \$3,684.02 security deposit placed in lieu of work with the 2000 Roc Property Assessment Filing.

The heavy mineral sampling program recovered low background level counts of chromite and olivine mineral grains. These mineral grains have sources other than kimberlite. It is considered that a non-kimberlitic source rock is contributing these grains to the glacial sampling media found in the Roc Property area.

## **INTRODUCTION**

This report summarizes the exploration program conducted on the Roc Property during the 1999-2001 assessment period. The property is located in the northern portion of the Slave Craton, a geological sub-province of the Canadian Shield. The Slave Craton has been the focus of extensive diamond exploration due to the discovery of diamondiferous kimberlites in 1991 and the 1998 fall opening of Canada's first diamond mine, the Ekati Mine.

Exploration on the Roc Property was conducted by Ashton Mining (Northwest Territories) Ltd. in joint venture with Pure Gold Minerals Inc.

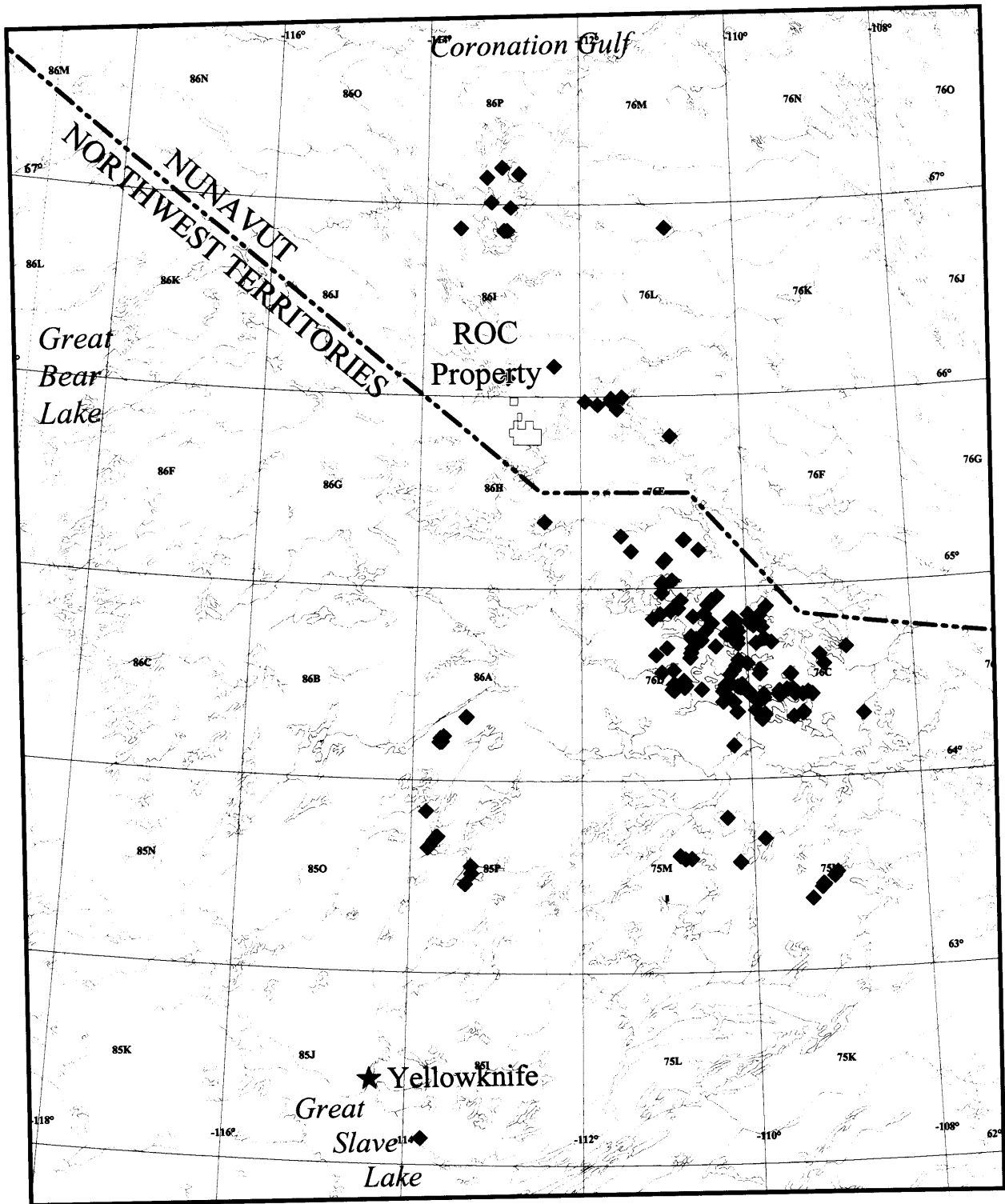
## **LOCATION AND ACCESS**

The property is located immediately west of Rockinghorse Lake in the North Mining District of Nunavut. Summer access to the property is by fixed-wing float plane or helicopter only. Charter aircraft are available from various air services based in Yellowknife. A winter road from Yellowknife terminates at Lupin Mine and a paved airstrip at the mine site, located 60 kilometres to the east of the property, can accommodate large aircraft. The 1999 exploration program was operated from Ashton's Contwoyto Lake field camp situated centrally on the eastern shore of Contwoyto Lake approximately 120 kilometres southeast of the property. The 2000 exploration program was conducted from Ashton's RJ camp at Kiglikavik Lake approximately 120 kilometers north of the property.

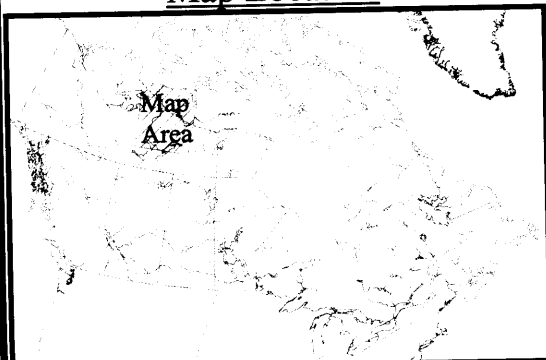
The claims are on the NTS map sheets 86 H/15. The co-ordinates of the center of the claim group are 65° 48' N and 112° 40' W. The claims are located approximately 240 kilometres southeast of Kugluktuk and 370 kilometres north-northeast of Yellowknife (Figure 1).

## **PHYSIOGRAPHY**

The property is situated north of the treeline. The region is characterized by moderate yet rugged bedrock relief in the order of 75 to 150 meters. Surficial deposits include large eskers several kilometres long, flat-lying sandy outwash plains, and sandy basal tills. The predominant ice direction is northwest. Vegetation is sparse in areas of exposed bedrock, and includes muskeg, mosses, lichen and low-lying shrubs.



Map Location




- ◆ Competitor Kimberlite
- ◆ Ashton Kimberlite

## Ashton Mining North West Territories

Figure 1

### ROC Property, Nunavut Property Location Map

  
 Date: Sept 13, 2001  
 Author: A Marshall  
 Office: Vancouver  
 Draw: Property Location Map  
 Proj: UTM Zone 12  
 NAD 21 for Canada

0 50 100  
 Kilometers  
 Scale 1 : 3 500 000

### **CLAIM STATUS**

The Roc Property is comprised of 21 claims, covering 54,232.5 acres in two non-contiguous blocks in the North Mining District of Nunavut, Canada (Table 1 and Appendix C). This assessment report is applying costs associated with 16 of these mineral claims, 15 of which were recorded in August 1999 and are subject to their first assessment filing.

The claims are registered to Ashton Mining (Northwest Territories) Ltd. and are part of the Slave Regional Joint Venture Agreement with Pure Gold Resources Inc.

**Table 1**  
**Schedule of Claims**

Claim	Permit	NTS	Title Holder	Area (ac.)	Recording Date	Anniversary Date
ROC013	F63736	086H15	AMNWT	2582.5	6/17/97	6/17/01
ROC027	F64294	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC028	F64295	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC029	F64296	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC030	F64297	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC031	F64298	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC032	F64299	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC033	F64300	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC034	F64301	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC035	F64302	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC036	F64303	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC037	F64304	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC038	F64305	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC039	F64306	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC040	F64307	086H15	AMNWT	2582.5	8/10/99	8/10/01
ROC041	F64308	086H15	AMNWT	2582.5	8/10/99	8/10/01

Total: 41,320.00

## REGIONAL GEOLOGY

The Rockinghorse Lake area lies within the Slave Structural Province, a part of the Precambrian craton that forms the Canadian Shield (Figure 2). Hoffman and Hall (1997) published a simplified geological map of the Slave Structural Province compiled from mapping performed by several geologists of the Geological Survey of Canada and NWT Geology Division of DIAND (Frith, R.A., 1987, GSC Memoir 417; Jackson, V.A., 1989, DIAND EGS 1989-11 and EGS 1990; King, J.E. et al., 1989, GSC Paper 89-C; McGlynn, J.C., 1977, GSC Open File 445; Thompson, P.H., 1989, *Geology*, v.17).

The oldest rock unit in the area is an Archean complex, the 3.96 Ga Acasta gneiss, commonly of tonalite composition and in part cataclastic. This complex forms the basement to the Archean Yellowknife Supergroup.

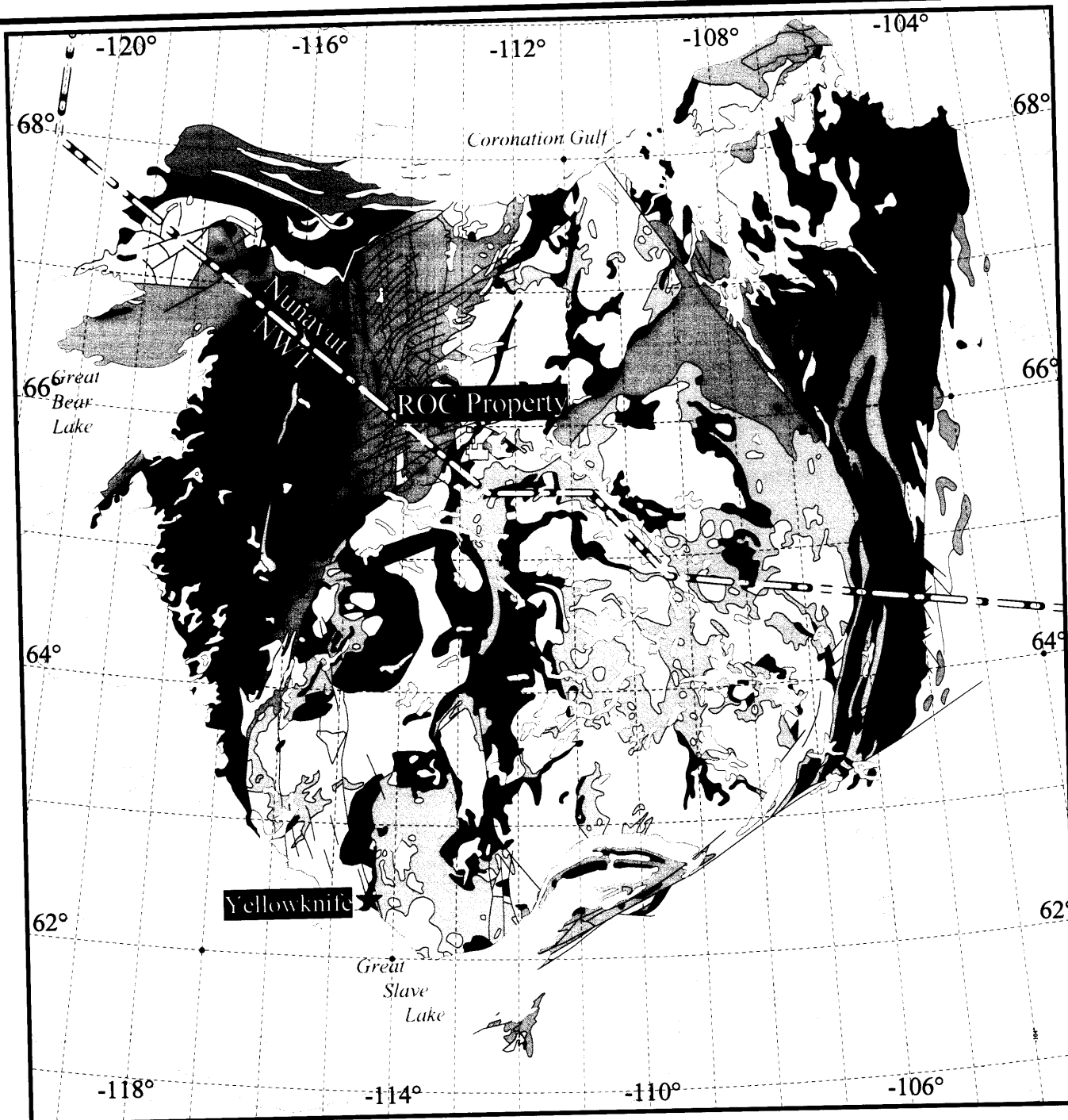
The Yellowknife Supergroup contains three units. The first unit consists of basic (basalt) to intermediate lava, tuff and agglomerate. Rhyolite and dacite flows, tuff, ash flow tuffs and agglomerates make up the second unit. Overlying the two volcanic units are greywacke to mudstone turbidites. Quartz-biotite schist and arkosic metasedimentary rocks were derived from the greywacke and mudstone turbidites. These schists and metasedimentary rocks are not differentiated from the turbidites on the compilation map.

Granitic gneiss, migmatites and massive granitoid rocks mainly derived from the Yellowknife Supergroup overlie the Supergroup in places. Two ages of granitoid rocks have intruded the older rocks. One is identified as post Yellowknife Supergroup and is comprised of porphyritic to pegmatitic quartz diorite, granodiorite, quartz monzonite and granite. The other granitoid rocks are post Archean and are made up of granodiorites and quartz monzonites.

Three different sets of diabase dykes are present in the Slave Province of the NWT: an easterly trending set dated at 2.15 billion years, a northeasterly trending set dated at 2.1 billion years, and the most dominant set in the Lac de Gras region, the 1.2 billion year old Mackenzie dyke swarm which trends north-northwesterly and parallels most of the dominant faults in the region. Many of the known Lac de Gras kimberlite pipes occur in close proximity with Mackenzie dykes indicating that the pipes may have come to surface along the same deep-seated structural weakness as the dykes.

The ages of the Lac de Gras kimberlites have been determined using two methods: radiographic isotopic measurements and paleontological studies. The Lac de Gras kimberlites have been dated at approximately 52 Ma, +/- 1.2 million years. Kimberlites outside of the Lac de Gras cluster appear to be much older. Tahera's Jericho pipes in the Contwoyto Lake area have returned dates around 172 Ma while the Cross Property kimberlites in the western Slave appear to be at least 450 Ma in age.





Recommended Citation:

Hoffman, P., and Hall, L.

1997: Geology, Slave craton and environs, District of Mackenzie, Northwest Territories; Geological Survey of Canada, Open file 2559, Scale 1 : 1 000 000

## Paleozoic

Sedimentary Rocks

## Proterozoic

### Neoproterozoic

Intrusive Rocks

### Mesoproterozoic

Meso-Neo Sedimentary Rocks  
Sedimentary Rocks

Intrusive and Volcanic Rocks

### Paleoproterozoic

Paleo-Meso Intrusive Rocks  
 Paleo-Meso Sedimentary Rocks  
 Intrusive Rocks  
 Metamorphic Rocks  
 Sedimentary Rocks  
 Volcanic Rocks

## Paleoproterozoic/Archean

Intrusive Rocks  
 Metamorphic Rocks  
 Sedimentary and Volcanic Rocks

## Archean

Intrusive Rocks  
 Metamorphic Rocks  
 Sedimentary Rocks  
 Volcanic Rocks  
 Ashton Property

## Ashton Mining of Canada Inc.



Date: Aug. 8, 2000

Author: S. Shroder

Office: Vancouver

Draw: Slave Regional

Geology Map

Proj: Nad 27

UTM Zone 12

## ROC Property, Nunavut Regional Geology Map



Scale 1 : 5 000 000

## PROPERTY GEOLOGY

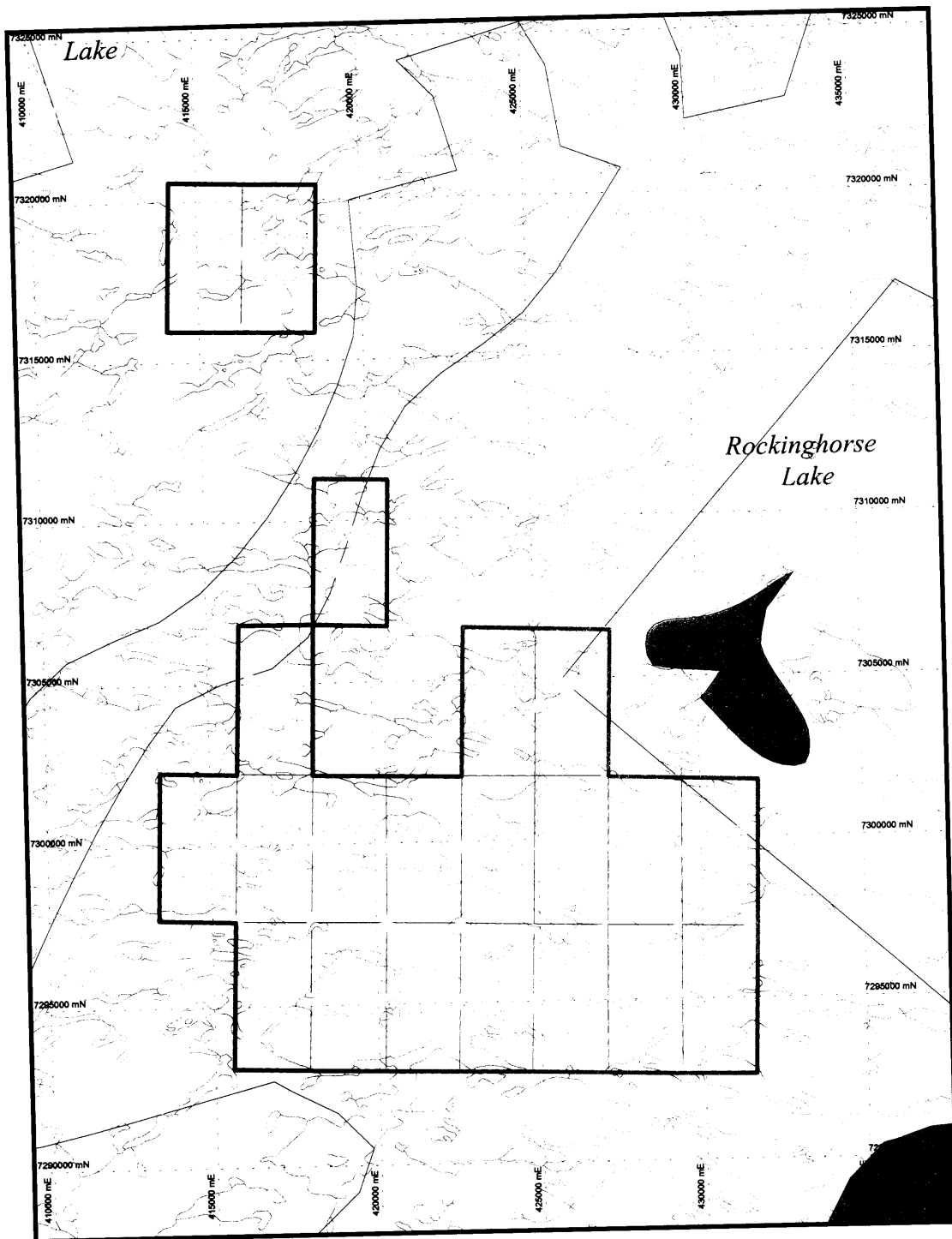
### Geology

Detailed geological mapping has not been conducted on the Roc Property by Ashton. Property geology is inferred from Hoffman and Hall's 1997 regional compilation of Slave geology. Undifferentiated and undeformed granitoid rocks or moderately foliated gneissic rocks of the Slave craton underlie most of the claim group. A northeast-trending belt, comprised of Yellowknife Supergroup mafic to felsic volcanic rocks, cut the southwest to central portion of the property. Isolated pods of the belt occur sporadically across the property as well. The eastern property boundary encompasses Proterozoic basin sediments of the Epworth/Recluse Group and gabbroic to diabase composition Morel sills (1.8 Ga). The Morel sills are considered to be non-kimberlitic source for chromite and olivine grains in found in local glacial debris.

### Mineral Occurrences

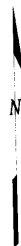
The current claim group lacks any record of economic mineral occurrences. The surrounding area hosts known volcanic massive sulphide (VMS) deposits and kimberlite occurrences. The Hood River deposit contained within the Napaktulik Lake Archean volcanic belt is 15 kilometres north of the Roc Property. It consists of stringer-type sulfide mineralization (copper, zinc and silver) hosted by a dacitic unit near the center of a highly metamorphosed felsic pile. The Izok is a zinc-copper volcanic massive sulfide occurrence located 35 kilometres south of the property. It lies near the top of a thick sequence of pyroclastic, felsic metavolcanic rocks. The Lupin Mine, operated by Echo Bay Mines and located 75 kilometres east-southeast of the Roc Property, was the only producing mine in the area. It is situated on the northwest shore of Contwoyto Lake. The gold-sulfide ore body occurs in a tightly folded amphibolite iron formation of the Yellowknife Supergroup.

In May of 2000, the Tahera/Kennecott Joint Venture announced the discovery of a kimberlite on the Rocking Horse Property in the vicinity north of the Roc Property. The new kimberlite has been named Nanurjuk. Kimberlite occurrences published (Armstrong, 1998) in the area include three pipes discovered by DeBeers Exploration, Canada and one by Tahera Corporation. The DeBeers pipes include the Rush (25 kilometres east of the Roc Property), the Muskox (35 kilometres east of the property) and the Peregrine (25 kilometres northeast of the property). The Jericho pipe, owned and operated by Tahera Corporation, is located just northwest of Contwoyto Lake 50 kilometres east of the Roc Property and is currently undergoing a mine feasibility study.




Recommended Citation:  
Hoffman, P., and Hall, L.  
1997: Geology, Slave craton and environs, District of Mackenzie, Northwest Territories;  
Geological Survey of Canada, Open file 2559, Scale 1 : 1 000 000

- ☐ Archean Volcanic Rocks
- ☐ Archean Intrusive Rocks
- ☐ Paleoproterozoic Sedimentary Rocks
- ☒ Paleoproterozoic Intrusive Rocks
- ☒ Morel Sills - Gabbro Diabase
- ☐ Property Outline
- ☐ Claim Outline



## Ashton Mining North West Territories Ltd.

  
Date: Aug. 8, 2000  
Author: S Shebridge  
Office: Vancouver  
Draw: Property  
Geology: Wor  
Proj: UTM Zone 12  
NAD27 for Canada

### ROC Property, Nunavut Property Geology Map

J:\Mapinfo\_Workspaces\NWT\Government  
\Assessments\AP67\Assessment 2000\Property Geology



Kilometers Scale: 1:200,000

## **PREVIOUS WORK**

The area was previously staked by Lytton Minerals Ltd. and affiliated companies (i.e. New Indigo, Banachee, Snowpipe) in mid 1993. The claims lapsed in 1996 and were subsequently staked by Ashton Mining of Canada Inc. in 1997 and added to in 1999. One assessment report was filed by Canamera Geological who performed the exploration on behalf of Lytton Mineral Ltd. and Ashton Mining of Canada Inc. filed an assessment for the first two year filing period in August of 1999. To the best of Ashton's knowledge, no other work has been filed on these specific claims. Kennecott and DeBeers Exploration, Canada, are currently conducting diamond exploration work in the area.

## **WORK PERFORMED AND RESULTS**

### **Heavy Mineral Sampling**

During the 1999 and 2000 summer seasons, 25 and 16 heavy mineral samples respectively, were collected by Ashton to assess the property. A Sample Location Map and Sample Description Table are included in Appendix D and provide sample locations and brief sample descriptions including a depositional classification.

### **Heavy Mineral Sampling Procedure**

Ashton's sampling procedure is to collect material from eskers, tills, frost boils and other surficial features representative of glacial deposition. The coarse constituent, pebbles, stones and cobbles, are removed by sieving at or near the sample site. The resulting samples, weighing 20 to 25 kilograms, are transported to Ashton Mining of Canada's laboratory facilities in North Vancouver, B.C., where reduction by Wilfley shaking table and sieving produces an initial concentrate weighing about 500 grams in the 0.4 to 1.3 millimetre size range. This fraction is further reduced by heavy liquid separation to about 30 grams of heavy minerals. Each sample is then carefully examined under a binocular microscope and the kimberlitic indicator minerals are isolated. These indicator grains are counted, examined for surface abrasions which may be indicative of transportation distance, and saved for additional testing if warranted.

The indicator mineral counts are plotted and a background value is established for the particular area under exploration. Anomalous concentrations are classified and these, together with the abrasion characteristics of the indicator minerals found and the local ice-flow direction, are used to trace potential kimberlite sources. Sample density in anomalous areas is increased to assist in the delineation of kimberlite targets.

### **Heavy Mineral Results**

A property map showing indicator counts plotted as pie diagrams and a table listing complete sample results are included in Appendix D. From the 41 samples collected, only low chromite and olivine counts were recovered. The highest mineral count was 6 chromite grains from AP67-0202 located in the eastern part of the property. Given that no pyrope garnets or picroilmenite grains, minerals specific to mantle derived rocks, were found in association with these low

counts it is considered that the source of the mineral grains recovered is likely a gabbroic Morel Sill occurring in a Proterozoic outlier immediately east of the property area

### **CONCLUSIONS AND RECOMMENDATIONS**

The Roc Property is located in the northern Slave Craton. The craton has been the focus of extensive diamond exploration efforts since the discovery of kimberlites in the Lac de Gras region in 1991. Ashton's exploration efforts on the Roc Property began in 1997 as a joint venture with Pure Gold Minerals Inc.

During the 1999 and 2000 exploration seasons, Ashton collected 41 heavy mineral samples on the Roc Property. The samples were intended to assess the potential of the property to host kimberlite occurrences. Sample results are marginally anomalous and given the proximity to a gabbroic Morel Sill, inconclusive. It is considered that the source of the minerals found with this exploration program is likely associated with a Morel Sill occurrence.

**CERTIFICATE OF QUALIFICATIONS – Andrew Berry**

I, Andrew D. Berry, of 1101 6<sup>th</sup> Avenue, New Westminster, British Columbia, hereby certify:

1. I am presently employed as a project geologist with Ashton Mining of Canada Inc. at Unit 123, 930 West First Street, North Vancouver, B.C. V7P 3N4
2. I am a graduate of Sir Sandford Fleming School of Resources and hold a geology diploma.
3. I have been employed in the mineral exploration industry since 1984.
4. That the information, conclusions and recommendations in this report are based on work in the N.W.T. and on the property, in collaboration with colleagues involved in various aspects of exploration.

DATED at Vancouver, British Columbia, this 12th day of September, 2001.

**ASHTON MINING OF CANADA INC.**

Andrew D. Berry



## BIBLIOGRAPHY

ARMSTRONG, J.P.

1998. NWT Kimberlite Occurrence Database. EGS 1998-113. NWT Geology Division, DIAND. Yellowknife

ASHTON MINING OF CANADA INC.

1993: Review of Exploration Projects in North America by Micon International Limited, August 26, 1993.

CAVEY, G., FREEZE, J.C., LEBEL, J.L.

1993: Report on the Diamond Properties for Pure Gold Resources Inc., Lac de Gras Area, Mackenzie District, Northwest Territories, May 3, 1993.

CAVEY, G., LEBEL, J.L.

1993: Addendum to the Report on the Diamond Properties for Pure Gold Resources Inc., Lac de Gras Area, Mackenzie District, NWT, June 1, 1993.

FIPKE, C.E., GURNEY, J.J., MOORE, R.O.

1995: Diamond Exploration Techniques Emphasizing Indicator Mineral Geochemistry and Canadian Examples, GSC Bulletin 423, 1995.

FIPKE, C.E.

1990a: The Development of Advanced Technology to Distinguish Between Diamondiferous and Barren Diatremes, GSC Open File 2124, Part I, 1990a.

HOFFMAN, P. AND HALL, L.

1997 Geology, Slave Craton and Environs, District of Mackenzie, Northwest Territories; Geological Survey of Canada, Open file D1860A, Scale 1:1,000,000.

MITCHELL, R.H.

1989: The Nature of Kimberlites, Lamproites and Lamprophyres; in "Modern Exploration Techniques"; Saskatchewan Geological Survey, Special Publication Number 10, pp. 137-138.

ROSS, J.

1986: Kimberlites and Related Rocks, Volume 1 and 2 Proceedings of the Fourth International Kimberlite Conference, Perth, 1986, Geological Society of Australia, Special Publication No. 14. Various Papers:

WARD, J and BURSEY, T.

1999 Assessment Report, ROC Property (AP67). Ashton Mining of Canada Inc., Assessment Report submitted to the Department of Indian and Northern Affairs.

**APPENDIX A**

**PROPERTY COSTS BREAKDOWN  
EXPENDITURE ALLOCATION  
MINING RECORDER SUMMARY  
CERTIFICATE OF EXTENSION  
STATEMENTS OF REPRESENTATION WORK**



ROC (AP67)  
Property Costs Breakdown

**HM Sampling**

**Jul.00 - Jun.01**

Air Support	\$12,839.78
Field Labour and Geologists' Salaries	3,949.75
Field Materials and Freight	169.07
Camp Costs	2,160.46
Office supplies (maps/photocopies) and other office expenses	1,068.91
Processing and Observing Laboratory	6,320.77
<b>Total costs</b>	<b><u>\$26,508.74</u></b>
Number of samples	16
<b>Cost per sample</b>	<b>\$1,656.80</b>

ROC (AP67)  
Property Costs Breakdown

**HM Sampling**  
**Jun.99 - Jun.00**

Air Support	\$4,828.45
Field Labour and Geologists' Salaries	970.98
Field Materials and Freight	265.55
Camp Costs	4,092.23
Office supplies (maps/photocopies) and other office expenses	2,030.36
Processing and Observing Laboratory	10,227.68
<b>Total costs</b>	<b><u>\$22,415.25</u></b>
Number of samples	25
<b>Cost per sample</b>	<b>\$896.61</b>

Roc Property Assessment 2001

Claim	Tag	NTS	Area (ac.)	Recording Date	Anniversary Date	Cash In Lieu from (2000)	Grouping	Grouped Allocation	Total New Work	New Excess	Status
ROC013	F63736	086H15	2582.5	6/17/97	6/17/01	\$3,684.02	Ric 28	\$ 8,849.02	\$ 8,849.02	\$ -	Advance to 2002 & Recover Cash in Lieu
ROC028	F64295	086H15	2582.5	8/10/99	8/10/01	\$0.00	Ric 13	\$ (8,849.02)	\$ 15,613.01	\$ 118.01	Advance to 2003
ROC030	F64297	086H15	2582.5	8/10/99	8/10/01	\$0.00			\$ 24,462.03	\$ 3,802.03	Advance to 2004
ROC032	F64299	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender
ROC009	F63732	086H15	2582.5	6/17/97	6/17/01	\$0.00					Surrender
ROC015	F63738	086H15	2582.5	6/17/97	6/17/01	\$994.19					Surrender
ROC016	F63739	086H15	2582.5	6/17/97	6/17/01	\$0.00					Surrender
ROC022	F63745	086H15	2582.5	6/17/97	6/17/01	\$97.58					Surrender
ROC023	F63746	086H15	2582.5	6/17/97	6/17/01	\$0.00					Surrender
ROC027	F64294	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC029	F64296	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC031	F64298	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC033	F64300	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC034	F64301	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC035	F64302	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC036	F64303	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC037	F64304	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC038	F64305	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC039	F64306	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC040	F64307	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline
ROC041	F64308	086H15	2582.5	8/10/99	8/10/01	\$0.00					Surrender at Deadline

Totals: 21 54,232.50

	Sample Total	Cost per sample	Total Work
Samples 1999-2000:	25	\$ 896.61	\$ 22,415.25
Samples 2000-2001:	16	\$ 1,656.80	\$ 26,508.80
			\$ 48,924.05

Pro-rated Allocation (2 claims): \$ 24,462.03

Claims Maintained:	3
Area Maintained:	7,747.50
Claims Surrendered:	18
Area Surrendered:	46,485.00
Grouping Certificates:	1
Extension Applications:	0
Cash in Lieu Required:	\$ -
Cash Recovered:	\$3,684.02

**APPENDIX B**

**PROJECT PERSONNEL AND WORK DATA**

## APPENDIX B

### ROC PROPERTY SUMMARY OF WORK PERFORMED AND PROJECT PERSONNEL

---

DESCRIPTION	DATE	LOCATION	PERFORMED BY
Sample Collection	July - August 1999	NWT	Ashton Geologists
Sample Processing	September-December 1999	North Vancouver	Ashton Laboratory Staff
Sample Observing	December - May 1999	North Vancouver	Ashton Laboratory Staff

#### 1999 Ashton Exploration Staff

Jeff Ward  
4424 W. 14<sup>th</sup> Street  
Vancouver, BC V6K 2V3

Scott Jardine  
1727 William Street  
Vancouver, BC V5L 2R5

Dave Pickston  
1528 Burrill Ave.  
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Dave Willis  
1727 William Street  
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Jim Rooke  
834 E. Georgia St  
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#### 1999 Ashton Laboratory Managers

Jeff Brendon  
1350 Riverside Dr.  
North Vancouver, BC V7H 1V5

## APPENDIX B – Addendum

### ROC PROPERTY SUMMARY OF WORK PERFORMED IN 2000 AND PROJECT PERSONNEL

DESCRIPTION	DATE	LOCATION	PERFORMED BY
Sample Collection	August 28, 2000	NWT	Ashton Geologists
Sample Processing	January – February, 2001	North Vancouver	Ashton Laboratory Staff
Sample Observing	March, 2001	North Vancouver	Ashton Laboratory Staff

#### **2000 Ashton Exploration Staff**

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3-2456 West 5<sup>th</sup> Avenue  
Vancouver B.C.

#### **2000 Ashton Laboratory Manager**

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Jeff Brendon  
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North Vancouver, BC V7H 1V5

**APPENDIX C**  
**CLAIM LOCATION PLAN**



**APPENDIX D**

**SAMPLE LOCATION MAP**  
**SAMPLE DESCRIPTION TABLE**  
**SAMPLE RESULTS MAP**  
**SAMPLE RESULTS TABLE**

## ROC Property, Nunavut Sample Location Table

Sample No	Type	Easting	Northing	Zone	Date	Topography
AP67-0192	Boil	429800	7301600	12	25-Aug-99	Moderate rolling with some local outcroppings
AP67-0193	Boil	429900	7298600	12	25-Aug-99	Moderate relief - an OC high with small lake at top - boulders and boils
AP67-0194	Boil	427800	7297650	12	25-Aug-99	Moderate rolling with some local outcrops
AP67-0195	Esker	427080	7296600	12	25-Aug-99	Moderate relief - long esker running along lake shore
AP67-0196	Boil	426100	7295294	12	25-Aug-99	Moderate rolling with some local outcropping
AP67-0197	Till Shoreline	421750	7293600	12	25-Aug-99	Low relief till slumping off small OC into lake shore; large boulders all around
AP67-0198	Boil	422600	7294900	12	25-Aug-99	Moderate rolling with some outcrops in area
AP67-0199	Till Shoreline	423650	7296675	12	25-Aug-99	Low-moderate relief - till coming down steep embankment at edge of small lake
AP67-0200	Boil	425825	7297900	12	25-Aug-99	Gently rolling
AP67-0201	Boil	426950	7299550	12	25-Aug-99	Low-moderate relief - till coming off cumbly OC into small bay of lake
AP67-0202	Boil	427475	7301225	12	25-Aug-99	Moderate rolling
AP67-0203	Till	422700	7302000	12	25-Aug-99	Low relief - small lake with bouldery OC for shoreline
AP67-0204	Boil	421500	7301300	12	25-Aug-99	Moderate rolling with some local outcrops and boulder fields
AP67-0205	Boil	422100	7300500	12	25-Aug-99	Low-moderate relief - till and boulders coming off OC into lakes edge
AP67-0206	Boil	421950	7299800	12	25-Aug-99	Gently rolling with some local outcrop
AP67-0207	Esker	421650	7297750	12	25-Aug-99	Moderate relief - large esker running between 4 small lakes
AP67-0208	Boil	420200	7296600	12	25-Aug-99	Gently rolling
AP67-0209	Boil	419050	7294950	12	25-Aug-99	Low-moderate relief - boulders and scant tills coming off crumbly OC into lake shore
AP67-0210	Boil	417400	7293950	12	25-Aug-99	Gently rolling with some local outcrops
AP67-0211	Boil	416215	7296700	12	25-Aug-99	Low relief - base of long arm leading into lake; boils at waters edge
AP67-0212	Boil	416975	7297950	12	29-Aug-99	Gently rolling with many boulder fields
AP67-0213	Till Shoreline	417710	7299690	12	25-Aug-99	Low relief - till coming off small mound into lakes edge; large sub-rounded boulders
AP67-0214	Boil	418675	7301200	12	25-Aug-99	Gently rolling with many outcrops and boulder fields
AP67-0215	Boil	420300	7301430	12	25-Aug-99	Moderate-low relief - under the face of fractured OC face; boil amongst the boulders
AP67-0216	Boil	418975	7302800	12	25-Aug-99	Moderate rolling with many outcrops
AP67-0256	Glacio-Fluvial	415211	7302358	12	28-Aug-00	Eskers to west, outcrop on lake shore
AP67-0257	Glacio-Fluvial	413950	7301625	12	28-Aug-00	Low rolling relief, rocky vegetated
AP67-0258	Boil	413855	7300777	12	28-Aug-00	Rolling hilly, boulders and outcrop
AP67-0259	Till	413515	7300000	12	28-Aug-00	Low rolling, rounded hills with till veneer
AP67-0260	Boil	413532	7299216	12	28-Aug-00	Small lake with low partly rocky hills surrounding
AP67-0261		414052	7298310	12	28-Aug-00	Small lake with low partly rocky hills surrounding

Sample No	Type	Easting	Northing	Zone	Date	Topography
AP67-0262		426556	7303726	12	28-Aug-00	Flatish till plain, 10% outcrop
AP67-0263		426866	7302381	12	28-Aug-00	Low rolling hille with till veneer
AP67-0264		428715	7301320	12	28-Aug-00	Rolling plain, 10% outcrop, site is marshy area
AP67-0265		428258	7301214	12	28-Aug-00	Low to moderate rolling, till veneer
AP67-0266		429374	7300279	12	28-Aug-00	Flat area, outcrop to south and east.
AP67-0267		429801	7299458	12	28-Aug-00	Nearly flat
AP67-0268		429761	7298261	12	28-Aug-00	Outcrop and boulder surrounds, rolling hilly
AP67-0269		431248	7299214	12	28-Aug-00	Flat in immediate vicinity, low rounded hills in area
AP67-0270		431625	7300534	12	28-Aug-00	Rolling till plain, oc to north
AP67-0271		430756	7301174	12	28-Aug-00	Flat plains with rounded moderate relief hills

**Total # of Samples 41**

## ROC Property, Nunavut Sample Results Table

Sample number	Total Diamonds	Total Peridotitic Pyrope	Total Eclogitic Pyrope	Total Chrome Diopside	Total Chromite	Total Picro-ilmenite	Total Kimberlitic Olivine	Total Indicator Minerals
AP67-0192	0	0	0	0	3	0	0	3
AP67-0193	0	0	0	0	0	0	0	0
AP67-0194	0	0	0	0	0	0	0	0
AP67-0195	0	0	0	0	1	0	0	1
AP67-0196	0	0	0	0	0	0	0	0
AP67-0196	0	0	0	0	1	0	0	1
AP67-0203	0	0	0	0	1	0	0	1
AP67-0205	0	0	0	0	0	0	0	0
AP67-0206	0	0	0	0	0	0	0	0
AP67-0207	0	0	0	0	0	0	0	0
AP67-0210	0	0	0	0	0	0	0	0
AP67-0214	0	0	0	0	0	0	0	0
AP67-0215	0	0	0	0	0	0	1	1
AP67-0216	0	0	0	0	0	0	0	0
AP67-0204	0	0	0	0	1	0	0	1
AP67-0197	0	0	0	0	0	0	0	0
AP67-0200	0	0	0	0	0	0	0	0
AP67-0201	0	0	0	0	1	0	0	1
AP67-0209	0	0	0	0	0	0	0	0
AP67-0211	0	0	0	0	1	0	0	1
AP67-0212	0	0	0	0	0	0	0	0
AP67-0213	0	0	0	0	0	0	0	0
AP67-0198	0	0	0	0	0	0	0	0
AP67-0199	0	0	0	0	6	0	0	6
AP67-0202	0	0	0	0	0	0	0	0
AP67-0208	0	0	0	0	0	0	0	0
AP67-0260	0	0	0	0	0	0	0	0
AP67-0261	0	0	0	0	2	0	0	2
AP67-0262	0	0	0	0	0	0	0	0
AP67-0263	0	0	0	0	0	0	0	0
AP67-0265	0	0	0	0	0	0	0	0
AP67-0268	0	0	0	0	0	0	0	0
AP67-0269	0	0	0	0	2	0	0	2
AP67-0256	0	0	0	0	1	0	0	1
AP67-0257	0	0	0	0	1	0	0	1
AP67-0258	0	0	0	0	0	0	0	0
AP67-0259	0	0	0	0	2	0	0	2
AP67-0264	0	0	0	0	2	0	0	2
AP67-0266	0	0	0	0	0	0	0	0
AP67-0267	0	0	0	0	0	0	0	0
AP67-0270	0	0	0	0	3	0	0	3
AP67-0271	0	0	0	0	3	0	0	3

**Total # of Samples 41**