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**ROYAL OAK MINES INC.
NIGHTHAWK LAKE
EAST PENINSULA
1995 ASSESSMENT REPORT
DIAMOND DRILLING**

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1.0) Introduction and Summary

During the fall of 1995, Royal Oak Mines Inc. completed a series of 30 diamond drill holes totalling 25,002.5 feet on the East Peninsula of Nighthawk Lake. Four drill holes, RN95-152, RN95-153, RN95-154 and RN95-155, were completed to test for the eastern extent of the South Ronnoco deposit. The remaining drill holes were drilled to test for favourable geology along the Nighthawk Lake Break, a splay fault trending at 070° Az from the Destor-Porcupine Fault. This splay fault extends through the Aquarius, Ronnoco and Nighthawk Lake Mine deposits.

The four diamond drill holes completed east of the South Ronnoco deposit intersected a series of serpentized and talcose ultramafics and pillowed and massive mafic volcanics intruded by narrow feldspar porphyry, syenite and felsite dikes. Several anomalous gold values were returned but none over economic widths. The other twenty-six holes also intersected mafic and ultramafic volcanics, and cored varying widths of favourable carbonate alteration and narrow felsite dikes with some interesting gold values.

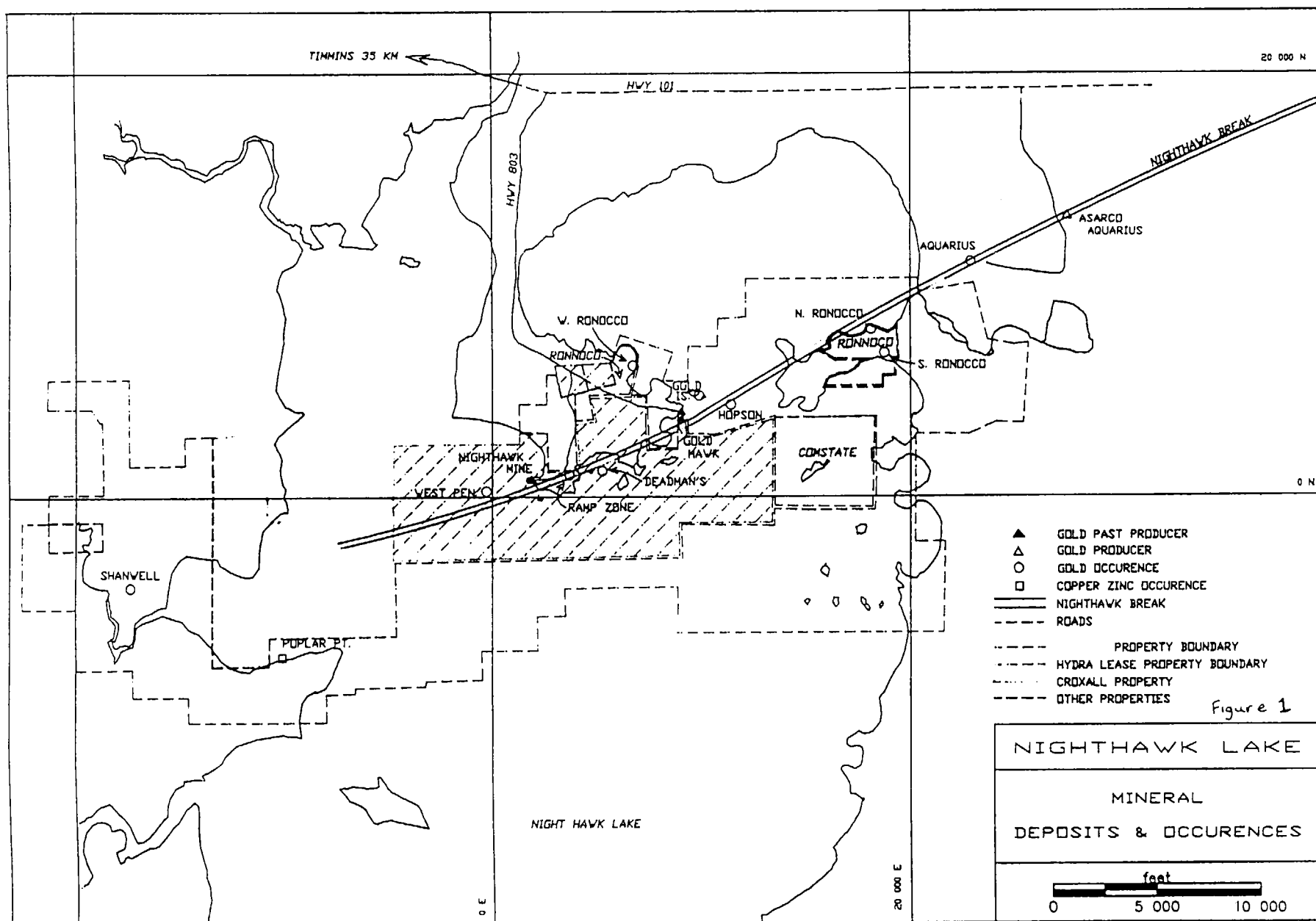
2.0) Property Location and Access

The property is located on the East Peninsula of Nighthawk Lake in Macklem township, about 35 kms east of Timmins, Ontario. It is accessed by travelling Highway 101 and the Aquarius Mine road, and a series of bush roads five kms to the property. The property is part of a larger parcel of land in the Nighthawk lake area controlled by Royal Oak Mines Inc. (Figure 1).

3.0) Previous Work

The exploration history of the East Peninsula dates back to 1928, when Ronnoco Gold Mines discovered, and subsequently delineated, two gold deposits on the East Peninsula: the syenite-hosted south zone (then estimated to contain 1,200,000 tons at 0.077 opt Au), and the north zone (300,000 tons at 0.070 opt Au) which is hosted in a quartz-feldspar porphyry. A short exploration shaft was sunk on the north zone, and no mining took place from it, nor from the south zone. Both zones are partly covered by water.

To the northeast of the East Peninsula, two gold deposits were discovered: the "old" Aquarius deposit in 1946 by Rio Algom Mines Ltd. (immediately northeast of the Royal Oak Mines Inc. property) and the Aquarius deposit in 1980 by Asarco (now owned by Echo Bay Ontario Ltd.), 1.5 miles northeast of the old Aquarius. The Asarco deposit was developed by a shaft and levels to 650 feet, and a 300 t.p.d. mill was installed on the property, based on a mineral inventory of 400,000 tons at 0.20 opt Au. The



narrow vein continuity of the deposit as calculated did not stand up to underground bulk sampling and mining was abandoned in 1989. The property is currently being evaluated as a potential open pit mine.

Pamour Inc. completed an OMEP work program in 1986-87, working east of the East Peninsula. This work consisted of Induced Polarization and Magnetometer surveys, followed by 87 reverse circulation overburden and 16 diamond drill holes totalling 9,182 feet. An intersection of 0.041 opt Au over 41 feet was intersected in one diamond drill hole. Prior to 1986, Pamour located a series of overburden anomalies east and along strike of the South Ronnoco deposit.

4.0) Geology

4.1) Regional Geology

The Nighthawk Lake area is underlain by Archean mafic volcanics with a minor amount of felsic volcanics and intrusives. Sediments which overlie the volcanics to the north consist primarily of greywackes and interbedded argillites. Ultramafic rocks intrude the volcanics and are comprised of serpentized peridotites and carbonatized komatiites. Felsic intrusives are common and consist of quartz-feldspar porphyry, feldspar porphyry, syenite, aplite and felsite. All rocks are cut by late diabase dikes (Leahy, 1971).

The Destor-Porcupine Fault crosses the north end of Northeast Bay of Nighthawk Lake. The Nighthawk Lake Break lies to the south, and has been traced from the Nighthawk Lake Mine eastwards (at a strike of 070°) through to its convergence with the Destor-Porcupine Fault in Stock township. Several significant gold occurrences and deposits lie along the Nighthawk Break, as it has acted as a gold localizing feature of the area.

4.2) Local Geology

The general geology of the East Peninsula area of Nighthawk Lake is best described as sheared, faulted, and altered, felsic to ultramafic metavolcanics, with occasional ultramafic stocks and felsic intrusives. Structurally, the Peninsula is dominated by two major features: the 070° Az trending Nighthawk Lake Break which follows the north shore of the Peninsula, and the 90° Az trending syenite dike which is highly sheared and roughly follows the south shore of the Peninsula. Both structures are offset by several cross faults trending 120°. Gold deposits have been found in some places where either of the two major structures are intersected by 120° Az cross faults.

5.0) 1995 Diamond Drill Program

Thirty holes totalling 25,002.5 feet were drilled on the East Peninsula of Nighthawk lake between October 17 and December 6, 1995, by three drill contractors: Courte Diamond Drilling, NDS Drilling, and Mackenzie Drilling. The purpose of the diamond drill program was to test the eastern extent of the South Ronnoco deposit and to test for favourable geology along the Nighthawk Lake Break in the area of the East Peninsula.

The four holes drilled east of the Ronnoco South deposit (RN95-152, RN95-153, RN95-154 and RN95-155) each intersected a series of talc/chlorite rich and serpentinized ultramafics, massive to pillowed mafic volcanics and narrow feldspar porphyry and syenite intrusives. No significant mineralization was present in these holes.

RN95-152 intersected quartz feldspar porphyry between 595.3 and 622.4 feet. Two anomalous gold values, 0.034 opt Au over 4.1 feet and 0.035 opt Au over 3.0 feet, were returned. This hole also returned an anomalous gold value of 0.042 opt Au over 1.9 feet in a syenite dike. RN95-154 contained 3.8 feet of 0.038 opt Au in feldspar porphyry dike. No other significant assays were intersected in the four drill holes.

The remaining 26 diamond drill holes were drilled to test for favourable geology along the Nighthawk Lake Break. The diamond drill holes intersected a series of ankerite and fuchsite altered ultramafics, and massive to pillowed mafic volcanics. The volcanic package also contained grey to tan colour felsite and pink feldspar porphyry dikes. Each hole was designed to end in black talc/chlorite rich ultramafics.

Visible gold was observed in three of these drill holes, HP95-48, HP95-51 and HP95-257. The gold is located in ¼-inch white quartz veinlets in grey to tan felsite and pink feldspar porphyry dikes. Although several anomalous gold values were returned, none were over economic widths.

The anomalous gold values are summarized on Table 1. Table 2 is a summary of drill footage by claim number.

Table 1
Summary of Anomalous Gold Values

Drillhole	Footage	Gold Value	Rock Type
HP95-48	77.0-104.2	0.036/27.2'	Felsite
	421.6-426.6	0.040/5.0'	Ultramafics
HP95-50	86.0-94.0	0.124/8.0'	Felsite
	291.1-294.1	0.062/3.0'	Feldspar porphyry
HP95-51	66.0-72.8	0.116/6.8'	Felsite
	233.7-236.7	0.042/3.0'	Feldspar porphyry
HP95-232	295.0-300.0	0.036/5.0'	Mafic volcanics
	317.0-319.5	0.036/2.5'	Felsite
	326.0-331.0	0.041/5.0'	Ankerite altered ultramafics
	624.0-627.0	0.056/3.0'	Felsite
HP95-250	460.5-468.7	0.042/8.2'	Feldspar porphyry
	996.0-1002.0	0.094/6.0'	Brecciated quartz veins in ultramafics
HP95-251	825.0-863.8	0.042/38.8'	Contact between fuchsite altered ultramafics and felsite
HP95-253	540.3-543.3	0.056/3.0'	Feldspar porphyry
	756.9-776.4	0.096/19.5'	Felsite
	790.0-795.0	0.072/5.0'	Felsite
	910.8-916.0	0.052/5.2'	Feldspar porphyry
HP95-254	506.0-519.0	0.066/13.0'	Felsite
HP95-255	1008.0-1014.0	0.075/6.0'	Felsite
HP95-256	867.0-874.2	0.048/7.2'	Felsite
HP95-257	1289.0-1299.0	0.036/10.0'	Feldspar porphyry
	1386.0-1391.0	0.135/5.0'	Feldspar porphyry
HP95-258	612.0-623.2	0.066/11.2'	Feldspar porphyry
	894.0-898.3	0.052/4.3'	Silicified mafic volcanics
	1192.7-1194.5	0.038/1.8'	Feldspar porphyry
	1234.0-1237.8	0.032/3.8'	Feldspar porphyry
HP95-259	394.7-400.0	0.038/5.3'	Pillowed mafic volcanics
	557.0-558.0	0.044/1.0'	Feldspar porphyry
	573.0-588.6	0.033/15.6'	Felsite
	723.4-726.8	0.039/3.4'	Feldspar porphyry
HP95-260	894.8-899.7	0.042/4.9'	Feldspar porphyry
	919.8-959.5	0.028/39.7'	Felsite
	1028.0-1035.2	0.054/7.2'	Feldspar porphyry
HP95-261	453.5-457.0	0.038/3.5'	Feldspar porphyry
	459.3-462.3	0.054/3.0'	Feldspar porphyry
	527.9-533.1	0.070/5.2'	Feldspar porphyry
HP95-263	509.7-515.3	0.085/5.6'	Feldspar porphyry
	620.6-621.6	0.090/1.0'	Felsite
	624.8-627.3	0.038/2.5'	Felsite

Table 2

Summary of Drill Footage by Claim Number

Hole Number	Total Length	Claim 371158	Claim 371157	Claim 18376	Claim 12580	Claim 12583	Claim 12579	Claim T12581
HP95-211	307.0						307.0	
HP95-216	357.0						357.0	
HP95-232	707.0						707.0	
HP95-219	307.0						307.0	
HP95-220	357.0						357.0	
HP95-223	307.0						307.0	
HP95-48	507.0						507.0	
HP95-227	307.0						307.0	
HP95-49	450.0						450.0	
HP95-50	407.0						407.0	
HP95-51	407.0						407.0	
HP95-256	1502.0					1502.0		
HP95-254	1001.0					1001.0		
HP95-255	1128.4					1128.4		
HP95-261	803.8				90.0	713.8		
HP95-262	1100.0					1100.0		
HP95-252	1000.7				305.0	695.7		
HP95-253	1000.0					1000.0		
HP95-258	1463.0					1463.0		
HP95-259	900.0				187.0	713.0		
HP95-264	498.0				335.0	163.0		
HP95-260	1119.0					1119.0		
HP95-250	1020.3				730.3	290.0		
HP95-251	1000.7					1000.7		
HP95-257	1483.0					1483.0		
HP95-263	902.0				250.0	592.0		60.0
RN95-152	961.3	421.3		540.0				
RN95-153	1300.0	540.0		760.0				
RN95-154	1202.0	602.0		600.0				
RN95-155	1197.3		497.3	700.0				
30 holes	25002.5'	1563.3'	497.3'	2600.0'	1897.3'	13964.6'	4420.0'	60.0'

6.0) Conclusions and Recommendations

Four diamond drill holes have indicated that the South Ronnoco deposit does not have a significant eastern extension. Further drilling should be carried out to test for a western extension of this deposit.

Twenty-six diamond drill holes completed on the East Peninsula of Nighthawk Lake encountered favourable geology along the Nighthawk Break. However, no economic drill intersections were returned from the program.

Due to numerous anomalous gold values and the wide spacing of the drill holes, infill drilling should be undertaken to follow up in areas of significant gold values and favourable geology.

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- Pamour Inc. (1987) OMEP Report of Work, Geophysics, Geochemistry, Diamond
Drilling, Reverse Circulation Drilling

STATEMENT OF QUALIFICATIONS

I, Randy D. Maass, of the City of Timmins, Province of Ontario, do hereby certify that:

1. I received a B.Sc. degree (Honours) in Geology from Brock University, St. Catharines, Ontario, in 1983.
2. I have been employed as a geologist by various mining companies in Ontario since 1983.
3. I am the author of this report.
4. I have no direct interest, nor do I have any shares of any company exploring the properties described in this report, nor on any adjacent or surrounding properties.

Dated this 28th day of MARCH 1996, Timmins, Ontario.

Randy D. Maass

Randy D. Maass
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Eastern Canada Exploration
Royal Oak Mines Inc.

**APPENDIX 1
LEGEND, DRILL LOGS,
AND ASSAY CERTIFICATES**

GENERAL PROCEDURES

Orient core and list footage intervals for each box. This list should be given to Al Lacroix for tagging purposes.

MAJOR CATEGORIES ON LYNX COMPUTER LOG

DIST (Distance at bottom of interval)

Sample intervals should not exceed 5 feet (1.5m). Other intervals may be longer. When resampling is required, add the sample distance, description, etc., to the bottom of the log. New sample intervals can be inserted in the appropriate spot on the log in the computer.

ID (Identification)

These two spaces can be used to put numbers/codes corresponding to rock name/possible faults/structure, etc., which can be referred to at a glance.

RQ-RQD

RQD is an estimated percentage of pieces of core in a sample length which are as long or longer than: AQ = 3", 7.5 cm; BQ = 4", 10 cm; NQ = 5", 12.5 cm. This should represent only natural breaks.

ROCK DESCRIPTION

COM (Competency)

M	Massive, will not break without considerable effort
S	Breaks roughly on shear planes
SS	Breaks easily
SSS	Breaks in hands without effort
B	Broken/blocky
F	Fractured
G	Gouge/fault

GRS (Grain Size)

VFG	Very fine grained	
FG	Fine grained	aphanitic
FMG	Fine medium grained	aphanitic
MG	Medium grained	aphanitic
MCG	Medium coarse grained	aphanitic
CG	Coarse grained	phaneritic
VCG	Very coarse grained	phaneritic

TEXT (Texture)

VAR	Variolitic - globular structures of devitrified glass (basic)		
SPH	Spherulitic - globular structures of devitrified glass (acid)		
POIK	Poikilitic - small grains floating in one large grain		
OPH	Ophitic - euhedral/subhedral feldspar embedded in pyroxene xtal		
DIA	Diabasic/doleritic - lath-like feldspar with pyroxene between		
POR	Porphyritic - large phenocrysts in fine-grained matrix		
GLOM	Glomeroporphyritic - phenocrysts occur in clusters		
SERI	Seriate - complete grain range from matrix to phenocryst		
AMYG	Amygdaloidal - vesicle filled with minerals		
ALIG	Alligator	MOTL	Mottled
BLOT	Blotchy	NED	Needled
BND	Banded	SHD	Sheared
BRX	Brecciated	SPT	Spotted
CLAS	Clastic	SPX	Spinifex
COT	Contorted	SUG	Sugary
CRA	Crackled	VUG	Vuggy
CHLZ	Chill zone	MUD	Muddy
FRAG	Fragmental	QFP	Quartz feldspar phyric
GRAN	Granitic	BED	Bedded
GRT	Gritty	fp	feldspar phyric
RUB	Rubbly	qp	quartz phyric
HOM	Homogeneous	pf	primary fragments
LAM	Laminated	tf	tectonic fragments
MBX	Mild brecciated		

CO (Colour)

AQ	Aqua	LM	Lime
BK	Black	OR	Orange
BL	Blue	PL	Purple
BR	Brown	RB	Red brown
CR	Cream	RD	Red
GBR	Grey brown	RG	Red green
GG	Green grey	TN	Tan
GR	Green	VI	Violet
GTN	Grey tan	WH	White
GY	Grey	YL	Yellow

ALT (Alteration)

ALB	Albitized
BAF	Buff Altn Flecks
BLD	Bleached
CAR	Carbonaceous
CRB	Carbonatization
CCL	Calcite-Chlorite
CHL	Chloritic
CC	Calcitic
EPD	Epidotization
FEL	Felsic
HEM	Hematized (red altn)
HMS	Hematitic Spotted
LCH	Leached
OXD	Oxidized
QCB	Quartz-Carbonate
QCV	Quartz-Carbonate Veining
SCL	Sericitic-Chloritic
SER	Sericitic
SIL	Silicification
SNF	Snowflake
SRP	Serpentinization
SUL	Sulphidization
TAN	Tan Alteration
TCL	Talc Chlorite
LEU	Leucoxene

NAM (Rock Name)

OVB	Overburden	CAS	Casing
L/C or LC	Lost Core	MC	Missing Core

1 KOMATIITIC VOLCANICS

1	Unsubdivided
1s	Serpentinized, massive, polysutured, peridotitic komatiite
1ox	Olivine-spinifex textured peridotitic komatiitic flows
1px	Pyroxene-spinifex textured basaltic komatiitic flows
1mb	Massive basaltic komatiite
1m	Massive
1p	Pillowed
1cb	Carbonatized peridotitic komatiite or carbonate rock
1t	Talcose
1b	Basaltic komatiite
1bcb	Carbonatized basaltic komatiite
1tcb	Talc carbonated komatiite
1fu	Fuchsite carbonate rock

2 THOLEIITIC VOLCANICS

2	Unsubdivided
2m	Massive
2p	Pillowed
2a	Amygdaloidal
2apl	Amygdaloidal pillow lava
2v	Variolitic
2t	Tuff, lapilli-tuff
2b	Breccia
2cb	Carbonatized
2pb	Pillow Breccia
2h	Hyaloclastite
2ag	Agglomerate
2am	Amphibolitized
2scf	Spherulitic, chicken-feed
2sch	Schistose
2sh	Shear
2F	Dominantly Fe-tholeiite
2M	Dominantly Mg-tholeiite
2AL	Dominantly AL-tholeiite
2I	Dominantly Icelandite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

3	Unsubdivided
3a	Andesite
3m	Massive
3p	Pillowed
3t, 3lt	Tuff, lapilli-tuff
3b	Breccia
3cb	Carbonatized
3am	Amphibolitized
3pb	Pillow brx
3sh	Shear

4 INTERMEDIATE-FELSIC VOLCANICS

4d	Dacite
4rd	Rhyodacite flows
4dt	Dacite tuffs
4dp	Dacite pyroclastics
4da	Agglomerate-breccia, conglomerate
4dlt	Dacite lapilli tuff
4dm	Dacite massive flow
4p	Intermediate-felsic pyroclastics
4r	Rhyolite-undifferentiated
4sch	Intermediate-felsic schist
4sh	Shear
4rm	Massive rhyolite
4rt	Rhyolite tuff
4rlt	Rhyolite lapilli tuff
4ra	Rhyolite agglomerate
qp	(quartz-eye porphyritic)
pp	(plagioclase-porphyritic)
4phyl	Phyllite
P	denotes Primitive
E	denotes Evolved

5 SEDIMENTS

5	Unsubdivided	
5a	Argillite	
5c	Conglomerate	
5g	Greywacke	
5sl	Slate	
5p	Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)	
5d	Debris flow	
5q	Quartzite	
5qw	Quartz wacke	
5gr	Graphite	
5ch	Chert	
5ag	Agglomerate	
5t	Tuffaceous-sediment	
5s	Siltstone	
5ss	Sandstone	
5sch	Schist	
5sh	Shear	
5ex	Exhalite	
5tqp	Quartz porphyritic tuff	
5phyl	Phyllite	K denotes Keewatin
GFZ	Graphitic Fault Zone	T denotes Timiskaming

6 ULTRAMAFIC INTRUSIVE ROCKS

6	Unsubdivided
6s	Serpentinized diorite-peridotite
6ph	Pyroxene-hornblende
6c	Carbonatized
6tm	Talc-magnesite

7 MAFIC INTRUSIVE ROCKS

7	Unsubdivided
7a	Anorthosite
7d	Diorite
7g	Gabbro
7qg	Quartz gabbro
7pg	Pegmatoidal gabbro
7l	Lamprophyre
7ib	Intrusive breccia
7n	Nipissing Diabase-type sills

50 - ground core

8 FELSIC INTRUSIVE ROCKS

8	Unsubdivided
8qp	Quartz porphyry
8fp	Feldspar porphyry
8qfp	Quartz feldspar porphyry
8f	Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
8hbt	Hornblende-biotite trondhjemite
8pm	Porphyritic monzonite
8gd	Granodiorite
8pg	Porphyritic granodiorite
8lg	Leucocratic granodiorite
8hd	Hornblende diorite
8qd	Quartz diorite
8p	Porphyry
8a	Aplite
8s	Syenite
8g	Granite or quartz-rich syenite
8t	Trachyte

9 MATACHEWAN DIABASE**10 HURONIAN SEDIMENTS**

10a	Arkose
10w	Wacke
10arg	Argillite
10c	Conglomerate

11 QUARTZ DIABASE**12 OLIVINE DIABASE****13 IRON FORMATION**

IFo	Oxide
IFs	Sulphide (py-po)
IFc	Carbonate
IFj	Jasper
BIF	Banded iron formation
IFchl	Chlorite-rich
IFgr	Graphitic

These abbreviations are used after a lithology name, if desired ("Nam" column must be limited to 5 characters). Allows alteration to be shown with name when drill hole is plotted.

3m,s	Would denote a massive calc-alkalic mafic volcanic which is sericitized
chl	Chloritic
chty	Cherty
s or ser*	Sericitic
sil	Silicified
ank	Ankerite
cc	Calcite
c	Carbon
cb	Carbonate
h	Hematite
alb	Albitized
fu	Fuchsitic
mt	Magnetite
sh	Sheared
tcb	Talc carbonate schist
tes	Talc chlorite schist
gr	Graphitic
arg	Argillaceous
sch	Schist
gt	Garnet
oxd	Oxidized
bl	Bleached
epd	Epidote
serp	Serpentinized

* where computer space permits, use ser

Note: In addition to the percentage of quartz veins being indicated, one should indicate in the Comments column whether the veining is tensional (i.e. cutting foliation) or of the strike variety (i.e. parallel to foliation) or both. For example "10% qtz (t)" or "15% qtz (t + s)".

SULPHIDES

DS	Disseminated sulphides
SS	Stringer sulphides
MS	Massive sulphides
SMS	Semi-massive sulphides

OXIDES

Mt	Magnetite (80-100%)
QAV	Quartz ankerite veining

NAM2

This column has been added to accommodate future changes in geology names.

FORM

A formation column has been added to accommodate extensive geological naming practices. FORM will be used to plot geology, and must be limited to a maximum of eight names or numbers (for the 8 plotter pens).

STRUCTURE

<u>B/S</u>	S	Schistosity	C	Contact
	F	Foliation	V	Vein (primary if more than one occurs)
	B	Bedding		
<u>J/F</u>	J	Joint Plane		
	V	Vein (secondary if more than one occurs)		
	F	Fault Plane/Fracture		

A1/A2

Measurement of above with respect to core axis (C.A.)

MINERALSGANGUE

ACT	Actinolite	GAR	Garnet
ANH	Anhydrite	HBL	Hornblende
ANK	Ankerite	LEU	Leucoxene
BIO	Biotite	MUS	Muscovite
CC	Calcite	PYR	Pyroxene
CAR	Carbonate	QC	Qtz Carbonate
CHL	Chlorite	QTZ	Quartz
DOL	Dolomite	SER	Sericite
EPD	Epidote	SPR	Serpentine
FSP	Feldspar	TOU	Tourmaline
FUC	Fuchsite		

METALLIC

ASP	Arsenopyrite	PO	Pyrrhotite
CPY	Chalcopyrite	PY	Pyrite
GN/GA	Galena	SID	Siderite
GRA	Graphite	SPH	Sphalerite
HEM	Hematite	STB	Stibnite
		VG	Visible Gold

MINERAL %

0.01	Trace
0.05	Minor Occurrence
2.0	2%

SPL #

Sample number

WDTH (Width)**T (Sample Type)**

C	Core
G	Grab
H	Chip
L	Channel
S	Sludge

COMMENTS

Standard abbreviations should be used where possible so that anyone can refer to this "dictionary" and clearly read the logs. If abbreviations are being used that are not included on this list, please add them.

ANH	Anhedral	NOD	Nodules
BLB	Blebs	OCC	Occasional
BL-QTZ	Blue Quartz	OC	Out Contact
CA	Core Axis	OVC	Out Vein Contact
CV	Carbonate Vein	PLL	Parallel
DEFMD	Deformed	QCV	Qtz-Carb Vein
DIS	Disseminated	QV	Quartz Vein
EUH	Euhedral	RXN	Reaction
EXT	Extensive	STR	Strong
FOL	Foliation	STK	Stockwork
FUCH	Fuchsite	STG	Stringer
GRND	Ground (core)	SUB	Subhedral
>	Greater Than	TR	Trace
IC	In Contact	TW	True Width
IVC	In Vein Contact	VNS/VN/V	Veins
IRR	Irregular	VLETS	Veinlets
<	Less Than	W	With
MAG	Magnetic	WO	Without
MNR	Minor	WK(LY)	Weak(ly)
MOD	Moderate(ly)		

ASSAY

Suggested usage for assay columns

AU1	PPB
AU2	Fire Assay (use FA1 column if available)
ASSAY3, etc	To be used if there is a need to show a relationship with gold, otherwise geochemical analysis is available on other systems



PROJECT: NIGHTHAWK_LK_ Logged By: R. M. AASE
Entered: HOPSON

Randy Moosa

PAGE 1

CLAIM
12579

CAT

Date: 27/09/1995
Page 1 of 7

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP-9548 AMP	5692.12	14728.73	10930.84	507.0'				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												
200	342	42												
400	342	42												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2										
		Com	Grs	Text	Co	Alt	Nom	B/S	J/F	B	A1	J/A2	Qtz	Az	B%	C%	PY	DX						E%	NFA	F%							
56.7																																CONTRACTOR: MCKEN ZIE DRILLING, JIMINIS ONTARIO DRILLED: SEPT 20-21, 1995 SIZE OF CORE: BQ CORE STORAGE: ROYAL OAK MINES INC. SCHWABER CORE SHACK	
60.0		M	Mg	BRX	BR	ANK	lc																7926	3.3	e						(56.7-60.0) BR. BRX ANK. ALT. ULTRAMAFICS - BR. ANK. FRAG. ENCLOSED BY WH. QZ/ANK STOCKWORK, WH. LT. GR. FM. SECTIONS, MNR BLEBS OF COARSE PY.		
63.5		M	Fg	MSV	GR	ALB	BF	Q30-50°				10					1.0						7927	3.5	e						(60.0-63.5) GBR FELSITE UNIT - INTER. CONTROLLED BY WH. TRANE LH. SM. 1/4" QZ VNLETS @ 40° TO C.A. AND WH. OPAQUE QZ/ANK VNLETS @ 30-50° TO C.A., 1/2"-1" WIDTH DK. GY. CHL. FILLED FRACT., 1% F. QZ PY.		
65.1		M	Mg	BRX	BR	ANK	lc																7928	1.6	e						(63.5-65.1) MIX OF BR. ANK. GY. lc - MIX OF BR. ANK. AND GY. CHL. FRAG. SURROUNDED BY WH. QZ/ ANK. STOCKWORK, MNR. LT. GR. FM. ALT.		

.031/14.2
77-21.2

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS				Spl #	Width	T	COMMENTS 1	COMMENTS 2						
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Q1	C%	B%	C%						PY	D%	E%	NFA AN	F%	
67.0		M	FG	MSV	GBR	ALB	8F	Q20								2			.001		7929	1.9	c	(65.1-71.8) GBR FELSITE UNIT		
71.8								Q80								2			.006		7930	4.8	c	WITH SEVERAL 1/2"-1" WH. QTZ AND QTZ/ANK VNELETS, 270° F. DIS. PY., C.A. = 20° AND 80°		
77.0		M	MG	BRX	BR	ANK	IC	Q40								Tr			.004		7931	5.2	c	(71.8-83.2) BR IC		
80.1																			.032		7932	3.1	e	- BR. ANK FRAGS. SURROUNDING		
83.2																			.012		7933	3.1	e	HT. WH. QTZ/ANK STOCKWORK		
																									LT. BR. IN ALT. AT IN AND	
																									5% CONTACTS (71.8-72.3) AND	
																									(82.5-83.2), 1/2" WH. QTZ/ANK	
																									VNELET @ 72° @ 40° TO C.A.	
																									MNR. F. DIS. PY.	
87.0		M	FG	MSV	GBR	ALB	8F	Q40-50°							5				.059		7934	3.8	c	GBR 8F WITH 1/2"-1" WH. QTZ AND QTZ/ANK VNELETS, 1/2" QTZ/ANK VNELET C.A. = 40-50°, 80°		
								Q80																	5% F. + C. DIS. PY.	
89.0		M	FG	MSV	GBR	ALB	8F	Q30-50°							10				.014		7935	2.0	c	GBR 8F WITH 1/2"-1" QTZ, QTZ/ANK VNELETS @ 30-50°, 70-80° TO C.A., 5% F. AND		
								Q70-80°																	C. DIS. PY. IN QTZ AND WALL ROCK	
91.2		M	FG	MSV	GBR	ALB	8F	Q40							20						7936	2.2	c	GBR 8F WITH 1/2"-1" QTZ/ANK VNELETS @ 40°, 70-80° TO C.A. 1 SPEC. IN		
								Q70-80°																	1/2" WH. QTZ VNELET @ 90° @ 80° TO C.A.	
																									ASSOC. WITH COARSE PY + CPY.	
																									5% F + C. PY. IN QTZ AND WALL ROCK	
93.2		M	FG	MSV	GBR	ALB	8F	Q20							5						7937	2.0	c	GBR 8F WITH 2-1", 1-1/2" WH. QTZ/ANK VNELETS @ 20°, 60°, 80° TO C.A., 10%		
								Q60																	F. + C. PY. IN QTZ AND WALL ROCK,	
								Q80																	TR. CPY	

77-104.2
.036/27.2

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2				
								B/S	J/F	GANGUE			METALLIC															
		Com	Grs	Text	Co	Alt	Nam	B	Ai	J	A2	QTZ	C%	B%	C%	PY	O%	E%	MFA						F%			
97		M	FG	MSV	GBR	ALB	8F	Q30		10					2	CPY	Tr	.025		7938	3.8	c	GBR 8F WITH 1/2" - 5/8" WH. QTZ, QTZ/ANK VNELETS @ 30°, 60-70°, 90° TO C.A.; 290 F. + C. DIS. PY. IN QTZ AND MNR GR. MNR CPY. IN QTZ, OR. LIMONITE SECTIONS					
								Q60	70°																			
								Q90																				
99.2		M	FG	MSV	GBR	ALB	8F	Q50		5					2			.040		7939	2.2	c	GBR 8F WITH 1/2" AND 1/4" WH. QTZ VNELETS @ 50° AND 80° TO C.A.; 290 COARSE DIS. PY. AND OR. LIMONITE SURROUNDING QTZ.					
								Q80																				
104.2		M	MG	MOTL	GR	ANK	IFM			2					1.0			.071		7940	5.0	c	(99.2-109.7) GR. MOTL IFM WITH MNR QTZ, QTZ/ANK VNELETS, OR. LIMONITE SECTIONS, MNR COARSE ADJACENT TO VNELETS, TR. CPY.					
107																CPY	Tr	.008		7941	2.8	e						
109.7																		.006		7942	2.7	c						
114.7		M	MG	MOTL	GBR	ANK	IC	Q30		2					Tr			.001		7943	4.9	c	(109.7-117) GBR MOTL IC - MNR WH. QTZ/ANK VNELETS, MNR F. DIS. PY. OR. LIMONITE SECTIONS, MNR GR. F. SECTIONS @ 116', 1" QTZ/ANK VEIN @ 80° TO C.A.; MNR. ASSOC. F. DIS. PY.					
117										1								.001		7944	2.4	c						
121.2		M	MG	MOTL	GR	ANK	IFM			5					1.0			.003		7945	4.2	e	(117-121.2) LT. GR. MOTL IFM WITH SEVERAL WH. QTZ/ANK VNELETS RIMMED BY DK. GR IFM AND F. DIS. PY. 7" OR. LIM. BAND					
126.2		M	MG	MOTL	GR	ANK	IC			2					Tr			.001		7946	5.0	c	(121.2-141.6) GG. MOTL IC WITH LT. GR. IFM SECTIONS, MNR WH. QTZ, QTZ/ANK VNELETS, MNR F. DIS. PY. RIMMING QTZ VNELETS					
131.2																		.001		7947	5.0	c						
136.2																		.001		7948	5.0	e						
139.2																		.004		7949	3.0	c						
141.6																		.001		7950	2.4	e						

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #		Width	T	COMMENTS 1	COMMENTS 2						
		Com	Grs	Text	Co	Alt	Nam	B	A	J	A2	GANGUE			METALLIC											#	e				
												C%	B%	C%	Py	D%	E%	Mn	Am	F%											
146.6		M	M6	MOTL	GBR	ANK	lc																	7951	5.0	e	(141.6-157.6) GBR MOTL. lc				
151.6																								7952	5.0	e	= MNR. WH. QTZ / ANK UNLETS,				
156																								7953	4.4	e	DK. GY. CHL. FILLED FRACTS,				
																												NARROW OR. LIMONITE SECTION			
161		M	CG	BRX	BR	ANK	lc																	7954	5.0	e	(157.6-190.7) BR. BRX lc				
166																									7955	5.0	e	= BR. ANK. FRAGS ENCLOSED			
171																									7956	5.0	e	BY WH. QTZ / ANK STOCKWORK			
176																									7957	5.0	e	MNR. SPANG. DIS. PY. OR. LIMONITE			
181																									7958	5.0	e	SECTION (166-171.7) (182.6-188)			
185.7																									7959	4.7	e	MNR. LT. GR. LEM SECTIONS			
190.7																									7960	5.0	e				
195.7		M	M6	MOTL	GBR	ANK	lc																		7961	5.0	e	(190.7-195.7) GBR MOTL lc			
																												= WITH MNR. WH. QTZ / ANK.			
																												VEINLETS, ANK. PORPHYROBLAST			
200.7		M	M6	MSV	GY	ANK	lc																		7962	5.0	e	(195.7-241.7) DK. GY. CHL., ANK.			
205.7																										7963	5.0	e	ALT. ULTRAMAFICS		
210.7																										7964	5.0	e	= MNR. WH. QTZ / ANK UNLETS		
213.6																										7965	2.9	e	(215.6-217.4) SEVERAL WH. QTZ		
215.6																										7966	2.0	e	FELDSPAR BANDS, MNR. COARSE		
217.4																										7967	1.8	e	DIS. PY. ON EDGE OF BANDS		
219.4																										7968	2.0	e	(220.8-222.2) SEVERAL IRREGULAR		
224.4																										7969	5.0	e	QTZ / FELDSPAR BANDS WITH MNR		
227.0																										7970	2.6	e	DIS. PY.		
232.0																										7971	5.0	e			
237.0																										7972	5.0	e	(241.7-282) BR. ANK. ALT. ULTRAMAFICS		
241.7																										7973	5.0	e	= VERY MNR. WH. QTZ / ANK UNLETS		
																												= LT. GR. Fy. SECTIONS (277-282)			
243.7		M	M6	MSV	BR	ANK	lc																			7974	2.0	e	= MNR OR. LIMONITE SECTIONS		
247																											7975	3.3	e	THOUT NON-FOL., STRONG	
252																											7976	5.0	e	ANK. ALT.	
257																											7977	5.0	e		
262																											7978	5.0	e		
267																											7979	5.0	e		

DIST	Id	ROCK DESCRIPTION						STRUCT. B/S J/F	MINERALS											Spl #	Width	T	COMMENTS 1	COMMENTS 2		
									GANGUE				METALLIC													
		Com	Grs	Text	Co	Alt	Nem	B	A1	J	A2	QTZ	CZ	B%	C%	PY	D%	E%	NEA	F%						
272		M	M6	MSV	BR	ANK	IC	Q80							Tr				0.012		7980	5.0	c	(282.2-282.4) WH. QTZ/ANK VEIN WITH		
277																			.001		7981	5.0	c	MNR LT. GR. Fu @ 80° TO C.A.		
282																			.001		7982	5.0	c			
287																			.004		7983	5.0	c			
292		M	CG	BRX	GY	ANK	IC								Tr				.001		7984	5.0	c	(296-318.6) DK. GY. CHL. BR. IC		
296.4																			.001		7985	4.4	c	-DK. GY. CHL. FRAGS ENCLOSED		
298.4																			.001		7986	2.0	c	BY WH. QTZ/ANK. STOCK WORK		
303.4																			.001		7987	5.0	c	-MNR COARSE DIS. PY.		
308.4																			.001		7988	5.0	c			
313.4																			.004		7989	5.0	c	(318.6-348.6) ANK. ALT. ULTRAMAFIC		
318.6																			.004		7990	5.2	c	= MIX OF BR. ANK, GY. CHL. AND		
323.6		M	CG	BRX	GR	ANK	IC	Q50							Tr				.001		7991	5.0	c	GR. Fu. FRAGS. SURROUNDED BY		
327																			.001		7992	3.4	c	WH. QTZ/ANK. STOCK WORK		
329.7																			.001		7993	2.7	c	F. DIS. PY. ASSOC WITH BR.		
331.6																			.006		7994	1.9	c	ANK. FRAGS. → MNR WH. QTZ		
334.6																			.001		7995	3.0	c	ANK VEINS		
339.6																			.004		7996	5.0	c	(348.6-350.9) GR. BRX. LFu		
342																			.001		7997	2.4	c	-LT. GR. Fu. FRAGS SURROUNDED		
347																			.004		7998	5.0	c	BY WH. QTZ/ANK. STOCK WORK		
348.6																			.004		7999	1.6	c	MNR GY. Fu. QTZ VNLETS @ 50° TO		
350.9		M	CG	BRX	GR	ANK	LFu			5					1				.002		8000	2.3	c	C.A.		
353.2		M	M6	MOTLYB	SER	8F		Q30-60°		10					2				.004		75001	2.3	c	(350.9-353.2) YR SER. RICH RF		
																									- WITH WH. AND GY. 1/8"-1/2" QTZ	
																									VNLETS @ 30-60° TO C.A. → 29e	
																									F. DIS. PY. → LT. GR. Fu. SPECKS	

ROYAL OAK ANALYTICAL LABORATORY

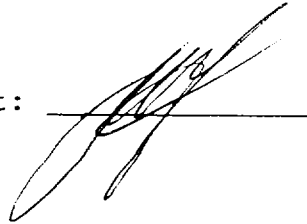
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-48
 Date Assayed: 10/20/95
 Week/Tray: 95OCT16/AF023

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D7935		0.014	480
2	D7936		0.026	890
3	BLANK	Blank	0.001	35
4	D7937		0.001	35
5	D7938		0.025	855
6	D7939		0.040	1370
7	D7940		0.071	2430
8	D7941		0.008	275
9	D7942		0.006	205
10	D7943		0.001	35
11	D7998		0.004	135
12	D7999		0.004	135
13	D8000		0.002	70
14	C75001		0.004	135
15	C75002		0.021	720
16	C75003		0.006	205
17	C75004		0.008	275
18	C75005		0.001	35
19	C75006		0.002	70
20	PM-601	Control	0.320	10970
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

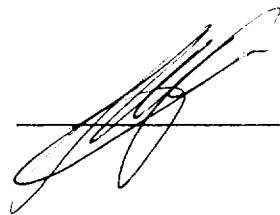
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-48
Date Assayed: 10/19/95
Week/Tray: 95OCT16/AF021

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	BLANK	Blank	0.001	35
2	D7926		0.010	345
3	D7927		0.012	410
4	D7928		0.001	35
5	D7929		0.001	35
6	D7930		0.006	205
7	D7931		0.004	135
8	D7932		0.032	1100
9	D7933		0.012	410
10	D7934		0.059	2020
11	CONTROL	Control	0.096	3290
12	C75016		0.004	135
13	C75017		0.002	70
14	C75018		0.001	35
15	C75019		0.001	35
16	C75020		0.001	35
17	C75021		0.040	1370
18	C75022		0.001	35
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-46-48

Date Assayed: 10/24/95

Week/Tray: 95OCT16/AF038

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C73362		0.001	35
2	C73363		0.001	35
3	C73364		0.004	135
4	BLANK	Blank	0.001	35
5	C73365		0.001	35

6	C73366		0.006	205
7	C73367		0.001	35
8	C73368		0.001	35
9	CONTROL	Control	0.100	3430
10	C73369		0.001	35

11	C73370		0.001	35
12	C7944		0.001	35
13	C7945		0.003	105
14	C7946		0.001	35
15	C7947		0.001	35

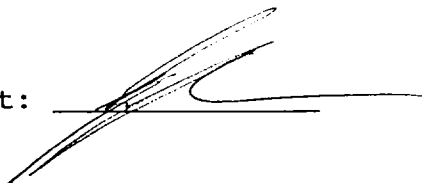
16	C7948		0.001	35
17	C7949		0.004	135
18	C7950		0.001	35
19	C7951		0.001	35
20	C7952		0.001	35

21				
22				
23				
24				

48

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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-48
 Date Assayed: 10/24/95
 Week/Tray: 95OCT23/AF003

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C75007		0.004	135
2	C75008		0.005	170
3	BLANK	Blank	0.001	35
4	C75009		0.004	135
5	C75010		0.002	70

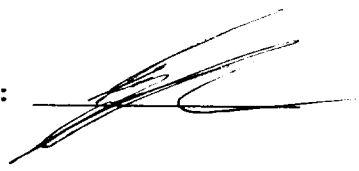
6	C75011		0.004	135
7	C75012		0.007	240
8	C75013		0.004	135
9	C75014		0.001	35
10	C75015		0.001	35

11	D7953		0.001	35
12	D7954		0.003	105
13	D7955		0.001	35
14	D7956		0.004	135
15	D7957		0.012	410

16	CONTROL	Control	0.099	3390
17	D7958		0.002	70
18	D7959		0.002	70
19	D7960		0.003	105
20	D7961		0.001	35

21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

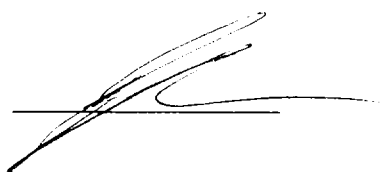
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-48
 Date Assayed: 10/24/95
 Week/Tray: 95OCT23/AF002

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D7962	Blank	0.001	35
2	BLANK		0.001	35
3	D7963		0.001	35
4	D7964		0.001	35
5	D7965		0.004	135
6	D7966		0.001	35
7	D7967		0.001	35
8	D7968		0.004	135
9	D7969		0.001	35
10	D7970		0.001	35
11	CONTROL	Control	0.096	3290
12	D7989		0.004	135
13	D7990		0.004	135
14	D7991		0.001	35
15	D7992		0.001	35
16	D7993		0.001	35
17	D7994		0.006	205
18	D7995		0.001	35
19	D7996		0.004	135
20	D7997		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~48~~47

Date Assayed: 10/11/95

Week/Tray: 95OCT09/AF003

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D7971		0.001	35
2	D7972		0.001	35
3	BLANK	Blank	0.001	35
4	D7973		0.001	35
5	D7974		0.001	35

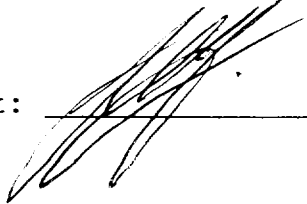
6	D7975		0.001	35
7	D7976		0.001	35
8	D7977		0.001	35
9	D7978		0.001	35
10	D7979		0.001	35

11	D7666		0.004	135
12	D7667		0.005	170
13	D7668		0.004	135
14	D7669		0.018	615
15	D7670		0.003	105

16	CONTROL	Control	0.100	3430
17	D7671		0.020	685
18	D7672		0.001	35
19	D7673		0.001	35
20	D7674		0.001	35

21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

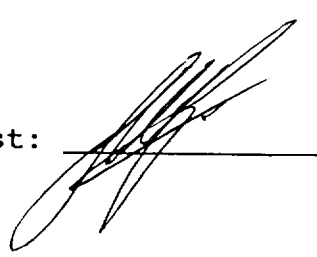
Hole Number: HP-95-39-48

Date Assayed: 10/11/95

Week/Tray: 95OCT09/AF005

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D7796		0.001	35
2	D7797		0.004	135
3	D7798		0.004	135
4	D7799		0.001	35
5	BLANK	Blank	0.001	35
6	D7800		0.010	345
7	D7801		0.001	35
8	D7802		0.001	35
9	D7803		0.004	135
10	D7804		0.001	35
11	D7980		0.012	410
12	CONTROL	Control	0.099	3390
13	D7981		0.001	35
14	D7982		0.001	35
15	D7983		0.004	135
16	D7984		0.001	35
17	D7985		0.001	35
18	D7986		0.001	35
19	D7987		0.001	35
20	D7988		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	QTE	C%	B%	C%	Py	D%						E%	NFA	F%						
171.3		m	FG	DIA	GY	-	12	Q	35											.008	73449	13.8	G			- WK MAGNETIC					
									50																			- BRX - MSV - MOTL IMPLACES			
									80																			- 3% QTE/CC STWK VEINING 15° - 25° TCA			
																												- 1% SMALL CC BLEBS			
																												- 1% DK GREEN CHL IN FRACTURES/ST			
																												- MINOR INTERBEDDED V. M.F.E.S?			
																												- 150.0 - 157.5 - MINOR WK SIL ZONES V. HARD TO SCRATCH			
																												- FG DIABASE			
																												- ° DK GREY			
																												- STR MAGNETIC WH. MAG. AT LOWER QNTTY			
																												- WK. HEM. STAINING AT TOP AND BOTTOM OF SECTION			
																												- 1% QTE/CC VLETS/STG 35°-50° AND 70°-80° TCA			
																												- 1% GREEN ROUNDED OLIVINE PHEN			
																												- 158.0 - 158.5 - MAFIC VOLC.			
189.5		M	FmG	MOTL	GY	CHL	2m	Q	15											Tr	.001	73450	18.2	G			- CHL. MAFIC VOLCANICS				
																												- DK GREY, FG - COARSER GRAINED			
																												- MOD HARD TO SCRATCH			
																												- WK MAGNETIC			
																												- MOTL - BRX - MSV			
																												- 1% QTE/CC VLETS/STG			
193.5		m	FmG	MOTL	GG	CHL	2m	Q	35											Tr	.006	73451	4.0	C			- SIMILAR TO PREVIOUS UNIT				
																												- 189.5 - 190.1 - STR SIL ZONE, LT GREY GREEN, V. HARD TO SCRATCH			
197.7		m	FG	MSV	GG	CHL	2m																				- CHL. MAFIC VOLC				
																												- FG, GREY/GREEN IN COLOUR			
																												- HARD TO SCRATCH			

DIST	ID	ROCK DESCRIPTION						STRUCT.		MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2											
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	QZ	CZ	B%	C%	Py	D%						E%	NFA	F%								
202.2		m	FmG	MSV	Gf	AlB	8fp	Q20									0.001									73453	4.5	C	<ul style="list-style-type: none"> - WK MAGNETIC - MSV - 1% QZ/CC STG/BLEBS - 2% CHL FRACTURES/BLEBS - 1% VF-FG DISSEM PY 		
207.2		m	FmG	MOTL	Gf	CHL	2m	Q25						TR			0.001										73454	5.0	C	<ul style="list-style-type: none"> - MAFIC VOLC - DK GREY, MOD-STR MAGNETIC - HARD TO SCRATCH - MOTL-MSV - 1% QZ/CC VLETS/BLEBS 	
223.0		m	FG	MSV	Gf	CHL	2m							TR			0.001										73455	15.8	G	<ul style="list-style-type: none"> - MAFIC VOLC - DK GREY, MSV, HARD TO SCRATCH - STR MAGNETIC - TR QZ/CC VLETS/STG 	
275.8		m	FmG	BRX	Gf	ANK	1cc	Q45 F50						TR			0.001										73456	52.8	G	<ul style="list-style-type: none"> - TALC/CHL/ANK U. MAFIC - DK GRAY - GREEN NEAR BOTTOM OF SECTION - MOD. HARD TO SCRATCH - WK - MOD. MAGNETIC - BRX - MOTL - MOD. FOL IN PLACES - SO. TO A - WK-MOD ANK ALTN - F-m ANK GRAINS - 1% QZ/ANK VEINS UP T 1/2" WIDE 	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2													
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	Qtz	C%	B%						C%	Py	D%	E%	N	A	F%						
375.2		m	FAB	DIA	GY	-	12	075				Tr												73437	100.0	G	- 20° AND 45° TCA							
																											- 264.6 - 266.0 - VF-FG DIABASE							
																											- 270.9 - 272.0 - VF-FG DIABASE, BROKEN CORE							
																											- 272.7 - 274.5 - VF-FG DIABASE							
																											- SURROUNDING U. MAFICS - GREY/GREEN IN COLOUR, BRY, WK MAGNETIC							
																											- DIABASE							
																											- 275.8 - 282.0 - VF-FG							
																											- 282.0 - 325.8 - F-MG							
																											- DIA TEXTURE							
																											- MOD-STR MAGNETIC							
																											- WK MAG. WHERE VFG							
																											- Tr - 1% QTZ/CC VEILS AT VARIOUS ANGLES TCA 20° - 70° TCA							
																											- 2-3% MIC GRAINED PATCHES							
																											- 1-2% LT GREEN OLIVINE PHEN? UP TO 2" WIDE							
																											- 326.0 - 325.8 - 1% QTZ/CC/CHL/OL VEINS UP TO 2" WIDE - 40-50° TCA							
450.0		m	FAB	DIA	GY	-	12					Tr												73458	74.2	G	- SIMILAR TO PREVIOUS UNIT							
																											- MOD-STR MAGNETIC							
																											- 1% ROUNDED OL PHEN - 1/2" WIDE							
																											- Tr - 1% QTZ/CC/CHL VEINS 30°-60° TCA, TO OL IN SOME							
																											- 398.9 - 401.0 - LT GREEN, OL RICH ZONE, 1% QTZ/CC/CHL STG/FRACT							
																											- 401.0 - 414.0 - 2-3% CHL FRACTURES							
																											- WK-MOD MAG.							
450.0																											- 450.0 - EOH							

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~42~~49

Date Assayed: 10/05/95

Week/Tray: 95OCT02/AF023

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D8560		0.001	35
2	D8561		0.001	35
3	BLANK	Blank	0.001	35
4	D8562		0.001	35
5	D8563		0.001	35

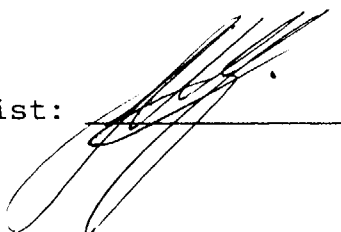
6	D8564		0.001	35
7	D8565		0.001	35
8	D8566		0.001	35
9	D8567		0.001	35
10	D8568		0.004	135

11	CONTROL	Control	0.100	3430
12	C73447		0.002	70
13	C73448		0.001	35
14	C73449		0.008	275
15	C73450		0.001	35

16	C73451		0.006	205
17	C73452		0.001	35
18	C73453		0.001	35
19	C73454		0.001	35
20	C73455		0.001	35

21	C73456		0.001	35
22	C73457		0.001	35
23	C73458		0.001	35
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy



PROJECT: HOPSON
NIGHTHAWK LAKE

Logged By: S. HARDING

PAGE 1

CLAIM
12579

CAT

Date: 12/11/1995
Page 1 of 2

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP-95-50	5827.48	14889.64	10930.51	407.0				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												
200	340	49												
400	342	49												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS				Spl #	Width	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B	A1	J/F	A2	A%	B%	C%					
0																			
50.0																			CONTRACTOR: MC KENZIE DRILLING TIMMINS, ONTARIO DRILLED: NOV 11-18, 1995. SIZE OF CORE: BQ CORE STORAGE: ROYAL OAK MINES INC., SCHUMACHER CORE SHACK
54.0		m	FmG	BRX	6Y	ANK	IC				10			TC	.005	24448	4.0	- 50.0 - 74.0 - ANK U.MAFICS	
59.0											7				.002	49	5.0	- MINOR 1st AT TOP OF UNIT	
64.0								535			6				.001	50		- GREY, TC FUCH. IN PLACES	
69.0											6				.001	51		- MOD - STR ANK ALT N	
74.0											7				.006	52		- WK-MOD BRX, QTZ/ANK STWK	
77.0		m	FmG	MOTL	GG	ANK	IC?	QZS			6			TC	.010	24453	3.0	- MINOR CHL IN STWK AT TOP OF UNIT - HARD TO SCRATCH - 3% WK LIM STAINING - 63.7 - 1/2" QTZ/ANK VEIN, 35% TCA	
																		- 10/8f? IN PLACES	
																		- WK-MOD FUCH	
																		- SIL IN PLACES	
																		- MINOR GREY FELSITE	
																		- MOD - WK BRX	
																		- FUCH AT TOP OF SECTION	
																		- 2% QTZ/ANK VLS	
																		- 2% BRX CP1 IN STWK	

86.0-14.0
.24/8.0'

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2		
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Q ⁺	C%	B%	C%	Py	O%	E%	NFA%	F%								
79.0		M	FG	MOTL	GR	ANK	IFU	Q	55															24454	2.0	F	- MOD-STR FUCH - MOTL-WK BRX - 10% STR LIM STAINING AROUND 1/2" QTZ/ANK VEIN	
82.9		M	FG	BRX	SI	ALB	BF																	24455	3.9	C	- FELSITE / ANK-BLK MAFIC VOLC? - LT GRST-TAN - FAINT BRX TEXTURE - 3% QTZ/ANK VLETS / STWK - 1% FG PY - 2 SPECKS CPY IN TWO GREY QTE VLS	
86.0		M	FG	BRX	GR	ANK	IFU																	24456	3.1	F	- BRX-MOTL - 4% QTZ/ANK VEINING / STWK - 20% STR LIM STAINING - 2% GREY FELSITE FRAG AT TOP	
89.0		M	FG	MSV	GY	ALB	BF	Q	35															24457	3.0	C	- GREY FELSITE - WK SER ALTN IN PLACES - 86.0-86.5 STR LIM STAINING - 6% QTZ/ANK VEINS 35" AND 65-75" - 4% F-M G DISSEM + ANK-EU+PY - 2 LARGE FLAKES CG CPY IN 1" VEIN 65" TA	
94.0		M	FG	MSV	GY	ALB	BF	Q	30															24458	5.0	C	- 2% QTZ/ANK VEINS UP TO 1/4" WIDE - 2% F-CG PY - USUALLY NEAR VEINS	
99.0		M	FG	MSV	GY	ALB	BF	Q	30															24459	5.0	C	- 2% QTZ/ANK VEINS < 1/4" WIDE	
102.3		M	FG	MSV	GY	ALB	BF	Q	40															24460	3.3	C	- 10/16-102.3 STR LIM STAINING	
107.0		M	FG	MSV	GY	ALB	BF	Q	35															24461	4.7	C	- FELSITE / ANK MAFIC VOLC - MSV - WK BRX IN PLACES	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE			METALLIC								
												QZ	C%	B%	C%	Py	D%						E%
158.4		M	FMG	MSV	TR	ANK	8	15											24474	2.9		- TAN - GREY IN COLOUR - 2% CHL FRAC - 3% QZ/ANK VEINS/VLETS UP TO 1/8" - 2% VF-FG ASSEM + SUB PY	
160.4		M	FMG	MSV	GR	CHL	1								TR				24475	2.0		- GREEN, STR CHL, MOD ANK ALT'N - MOTL, 1% QZ/CHL FRAC	
165.4															TR				24476	5.0		- MOD-STR ANK ALT'N	
170.4															TR				24477	5.0		- MOD ANK ALT'N	
201.2		M	FMG	MOTL	GG	CHL	1								TR				24478	30.8		- GREY/GREEN-GREEN - MOD-STR CHL, MOD-STR ANK ALT'N - MOTL - WK BRX IN PLACES - MOD HARD TO SCRATCH - 1% QZ/ANK VEINS UP TO 1" WIDE - ONE PINK/WHITE BRX/ANK VEINING	
204.5		M	FMG	BRX	GY	ANK	1								TR				24479	3.3		- MOD-WELL BRX - MOD ANK ALT'N - 4% QZ/ANK VLETS	
209.2		M	FMG	MSV	GG	CHL	2								TR				24480	4.7		- SIL MAFIC / FEED PORPH? - LEUCOXENE SPECKS AT TOP AND BOT - STR SIL, MOD CHL - STR ANK ALT'N, F-MG ANK - 6% QZ/ANK VEINS / FRAC	
214.8		M	FMG	BRX	GY	ANK	1								TR				24481	5.6		- DK GREY, MOD BRX - MOD ANK ALT'N, MINOR F-MG ANK	
220.4		M	FMG	BRX	GY	ANK	1								TR				24482	5.6		- SIMILAR TO PREVIOUS SECTION - WK BRX AT END OF SECTION	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2					
		Com	Grn	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE			METALLIC															
												QTZ	C%	B%	C%	Py	D%	E%	NFA	F%										
223.7		m	FmG	MSV	GY	SIL	ZF?							6					Tr						24483	3.3	E	- SIL MAFIC / FELD PORPH?		
																													- SIMILAR TO PREVIOUS ZF BUT WITH MINOR PORPH. LOOKING SECTIONS	
																													- STR. SIL., MOD. ANK. ALT'N., F.M.G. ANK	
																													- 2% CHL FRAC	
																													- 6% QTZ/ANK VLETS/FRAC	
227.0		m	FmG	MSV	GY	SIL	ZF?							6					Tr						24484	3.3	E	- SIMILAR TO PREVIOUS SECTION		
																													- WK CHL AT END OF SECTION	
232.0		m	FmG	BRX	GY	ANK	IC							4					Tr						24485	5.0	E	- MOD-STR. ANK. ALT'N., WK CHL		
																													- WK BRX - MOTL	
237.2		m	FmG	BRX	GY	ANK	IC							12					Tr						24486	5.2	E	- MOD. ANK. ALT'N., 1st AT TOP		
																													- WELL BRX	
242.2		m	FmG	BRX	GG	ANK	IC	Q60						15					Tr						24487	5.0	E	- WELL BRX, TR. FUCH IN PLACES		
																													- 238.7 - 239.8, WK LIM STAINING	
																													- ONE 1/8" QTZ/ANK VEIN 60' TCA	
246.0		m	FmG	BRX	GG	ANK	IC							8					Tr						24488	3.8	E	- WK-MOD. FUCH, MOD-WELL BRX		
																													- 244.6 - 246.0 - WK-MOD. LIM STAINING	
251.0		m	FmG	BRX	GR	ANK	IFU	Q40						4					Tr						24489	5.0	E	- MOD-WELL BRX		
																													- MOD. LIM STAINING	
																													- ONE 1/4" QTZ/ANK VEIN 40' TCA	
256.0		m	FmG	BRX	GR	ANK	IFU	Q50						3					Tr						24490	5.0	E	- WK BRX - MOTL		
																													- ONE 1/4" VEIN 50' TCA	
261.0		m	FmG	BRX	GR	ANK	HU	Q35						6					Tr						24491	5.0	E	- BRX - MOTL		
																													- 2-3% QTZ/ANK VEINS UP TO 1/4" WIDE, 35" - 40' TCA	
																													- Tr - 1% FG PY. AROUND SOME VEINS	

DIST	ID	ROCK DESCRIPTION						STRUCT.			MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2		
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC									
												QZ	CZ	B%	C%	Py	D%	E%						NFA%	F%
266.0		m	FmG	BRX	GY	ANK	1ct						10					1		.001	24492	5.0	C	- 258.1-258.3 - GREY FELSITE ? PATCH 3% V.F.B. PY, 2 SPECKS CPY - 258.8 - 1/4" VEIN, 1 LARGE FLAKG CPY - 260.2 - 1 SPECK CPY IN GREY VLET - 1E/1CL - MOD. WELL BRX - WK - MOD ANK ALT'N, F.MG ANK	
269.9		m	FmG	BRX	GY	ANK	1ct						6					Tr		.001	24493	3.9	E	- WK BRX - MOTL - 1" PORPH FRAG AT END OF SECTION - QTZ/ANK/MINOR CHL STWR	
270.9		m	FmG	MSD	GY	AUB	8fp						5					Tr		.004	24494	1.0	C	- PORPH ? / STR SIL - PINK AT TOP - GREY/GREEN - F.MG ANK, MINOR CHL SPECKS - 5% QTZ/ANK FRAC	
273.0		m	FmG	MOTL	CG	ANK	1ct						8					Tr		.001	24495	2.1	C	- MOTL - WK BRX - WK ANK ALT'N, MOD CHL	
274.5		m	FmG	MSD	PK	ALB	8fp						2					Tr		.001	24496	1.5	E	- 70% PINK FELD PORPH IN 3 ZONES - 30% GREY/GREEN 1ct - PORPH PINK, F.MG ANK 1-2% - QTZ/ANK FRAC, Tr 7% PY	
279.5		m	FmG	BRX	GY	ANK	1ct						6					Tr		.001	24497	5.0	C	- 274.5-289.0 - 1ct / 1c	
284.5													8							.001	24498	5.0	C	- MOD BRX WITH MOTL SECTIONS	
289.0													8							.001	24499	4.5	C	- MOD ANK ALT'N - Tr WK FUCH IN PLACES - 2% QTZ/ANK VEINING/VLETS - 3% WK LIMBS TRAINING	
291.1		m	FmG	BRX	GG	ANK	1c	QZS					12					Tr		.001	24500	2.1	E	- WK - MOD FUCH - WELL BRX	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE								METALLIC		
														QZ	CCZ	B%						C%	Py	D%
294.1		m	FG	MSV	GY	ALB	8fp	Q30					7				2		.062	24501	3.0	C	- PINK/GREY/TAN COLOUR - MSV - MINOR CHL FRAC - WK SER/MUSC ALT'N IN PLACES - 7% QZ/ANK VEINS UP TO 1" WID - 2% F-CG DISSEM + SUB PY	
296.9		m	FG	MSV	GG	ALB	8fp	Q40					10				4		.017	24502	2.8	C	- GREY/GREEN - 5% CHL FRAC UP TO 1/4" WIDE - 2.96.2-2.96.45 - QZ/ANK VEIN, MINOR CHL - 4% F-CG PY	
298.9		m	FMG	BRX	GG	ANK	1ct	Q55					10				Tr		.001	24503	2.0	C	- MOD-WELL BRX, MOD-STR CHL - ONE 1/4" QZ/ANK VEIN, SS-TCA, 1 SPECK CPY	
303.9		m	FMG	BRX	GG	ANK	1cc						6				Tr		.001	24504	5.0	C	- WK-MOD CHL, WK ANK ALT'N	
308.9		m	FMG	BRX	GG	ANK	1cc						8				Tr		.001	24505	5.0	C	- WK-MOD ANK ALT'N	
372.0		m	FMG	BRX	GY	ANK	1cc						6				Tr		.001	24506	63.1	G	- DK GREY, MOD-WELL BRX - MORE MOTL AT END OF UNIT - MOD EASY - EASY TO SCRATCH - WK ANK ALT'N, MINOR F-M GANK - 1% IRR QZ/ANK VEINS - Tr m-CG SUB PY - WK CHL AT TOP OF UNIT	
377.0		m	FMG	BRX	GY	ANK	1cc						3				Tr		.001	24507	5.0	C	- WK BRX - MOTL	
378.8		m	FMG	MOTL	GY	ANK	1ct?						3				Tr		.003	24508	1.8	C	- MOD PINK ALT'N, SIL - LT GREY WITH CHL FRAC - 3% QZ/ANK VLGTS	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2						
		Com	Grs	Text	Co	Alt	Nom	B/S J/F		GANGUE				METALLIC																
								B	A ₁	J	A ₂	QTZ	CZ	B%	C%	Py	D%	E%	NFA						F%					
379.6		m	FmG	Por	PK	ALS	EP	Q35															24509	0.8	C	- PINK FELD PORPH - WK POR F-MG ANK - 2% QTZ/PNK VLETS/FRAC - CHL AT CONTACTS - 0.2' U. MAFIC AT END OF SECTION - 3% F-MG SUB. EUM PY				
383.5		m	FmG	MSV	GY	ANK	EP?	Q30																	24510	3.9	C	- FELD PORPH / 2% MAFICS? - MOD. STR. ANK ALY. N, F-MG ANK - WK CHL - 3% QTZ/PNK VEINS/VLETS - ONE 1" PINK PORPH FRAG - Tr. VF - mG DISSEM + SUB-EUM PY		
388.5		m	FmG	BRX	GY	ANK	IFC																			24511	5.0	C	- DK GREY, MOD BRX - WK PINK ALT N, F-MG ANK - EASY TO SCRATCH - 1-2% QTZ/PNK VLETS	
407.0		m	FmG	BRX	GY	ANK	IFC																			24512	18.5G		- SIMILAR TO PREVIOUS SECTION	
407.0																													407.0 - EOH	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-258-50

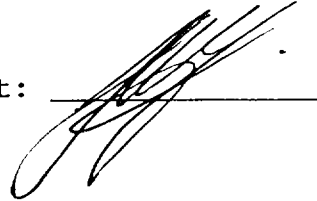
Date Assayed: 11/27/95

Week/Tray: 95NOV20/AF063

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21214		0.001	35
2	DXR21215		0.001	35
3	BLANK	Blank	0.001	35
4	DXR21216		0.002	70
5	DXR21217		0.003	105
6	DXR21218		0.016	550
7	DXR21219		0.007	240
8	DXR21220		0.009	310
9	CONTROL	Control	0.100	3430
10	DXR21221		0.027	925
11	DXR21222		0.012	410
12	DXR24466		0.001	35
13	DXR24467		0.001	35
14	DXR24468		0.002	70
15	DXR24469		0.001	35
16	DXR24470		0.001	35
17	DXR24471		0.002	70
18	DXR24472		0.001	35
19	DXR24473		0.001	35
20	DXR24474		0.001	35
21				
22				
23				
24				

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2

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

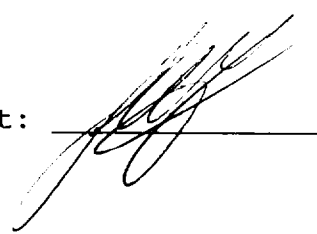
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-50
 Date Assayed: 11/27/95
 Week/Tray: 95NOV20/AF073

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24448	Blank	0.005	170
2	BLANK		0.001	35
3	DXR24449		0.002	70
4	DXR24450		0.001	35
5	DXR24451		0.001	35
6	DXR24452		0.006	205
7	DXR24453		0.010	345
8	DXR24454		0.001	35
9	DXR24455		0.001	35
10	DXR24456		0.001	35
11	DXR24475	Control	0.001	35
12	CONTROL		0.098	3360
13	DXR24476		0.001	35
14	DXR24477		0.001	35
15	DXR24478		0.001	35
16	DXR24479		0.001	35
17	DXR24480		0.001	35
18	DXR24481		0.001	35
19	DXR24482		0.001	35
20	DXR24483		0.002	70
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

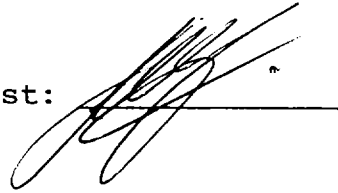
Hole Number: HP-95-258-50
 Date Assayed: 11/27/95
 Week/Tray: 95NOV20/AF062

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21223	Blank	0.038	1300
2	BLANK		0.001	35
3	DXR21224		0.001	35
4	DXR21225		0.001	35
5	DXR21226		0.001	35
6	DXR21227		0.004	135
7	DXR21228		0.001	35
8	DXR21229		0.001	35
9	DXR21230		0.001	35
10	DXR21231		0.001	35
11	DXR24493	Control	0.001	35
12	DXR24494		0.004	135
13	DXR24495		0.001	35
14	CONTROL		0.098	3360
15	DXR24496		0.001	35
16	DXR24497		0.001	35
17	DXR24498		0.001	35
18	DXR24499		0.001	35
19	DXR24500		0.001	35
20	DXR24501		0.062	2130
21				
22				
23				
24				

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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-50
 Date Assayed: 11/27/95
 Week/Tray: 95NOV20/AF074

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24457		0.070	2400
2	DXR24458		0.156	5350
3	BLANK	Blank	0.001	35
4	DXR24459		0.006	205
5	DXR24460		0.008	275

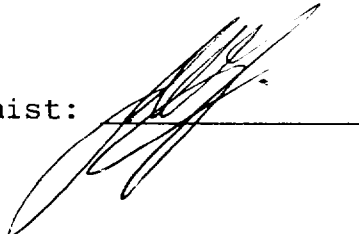
6	DXR24461		0.004	135
7	DXR24462		0.001	35
8	DXR24463		0.001	35
9	DXR24464		0.001	35
10	DXR24465		0.001	35

11	DXR24502		0.017	585
12	DXR24503		0.001	35
13	CONTROL	Control	0.096	3290
14	DXR24504		0.001	35
15	DXR24505		0.001	35

16	DXR24506		0.001	35
17	DXR24507		0.001	35
18	DXR24508		0.003	105
19	DXR24509		0.001	35
20	DXR24510		0.001	35

21	DXR24511		0.001	35
22	DXR24512		0.001	35
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

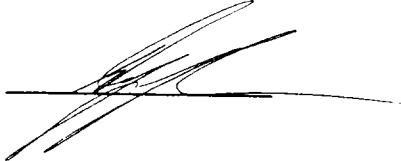
Exploration 5675-1603

Hole Number: HP-95-258-50
 Date Assayed: 11/23/95
 Week/Tray: 95NOV20/AF047

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21196		0.001	35
2	DXR21197		0.001	35
3	DXR21198		0.001	35
4	DXR21199		0.052	1780
5	DXR21200		0.001	35
6	DXR21201		0.001	35
7	BLANK	Blank	0.001	35
8	DXR21202		0.001	35
9	DXR21203		0.001	35
10	DXR21204		0.022	755
11	CONTROL	Control	0.098	3360
12	DXR24484		0.001	35
13	DXR24485		0.001	35
14	DXR24486		0.001	35
15	DXR24487		0.001	35
16	DXR24488		0.001	35
17	DXR24489		0.001	35
18	DXR24490		0.001	35
19	DXR24491		0.001	35
20	DXR24492		0.001	35
21				
22				
23				
24				

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Geologist: P. HARVEY

Chief Chemist: 

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PAMOREX

PROJECT: HOPSON
NIGHTHAWK LAKE

Logged By: S. HARDING

PAGE 1

CLAIM
12-579

CAT

Date: 20/11/1995

Page 1 of 7

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP-95-51	5867.81	14977.49	10929.70	407.0'				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												
200	348	48												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2												
		Com	GrS	Text	Co	Alt	Nam	B	A1	J/A2	QTZ	A%	B%	C%	PY	D%	VG	E%						NFA	F%	Am									
																																			CONTRACTOR: MCKENZIE DRILLING, TIMMINS, ONTARIO DRILLED: NOV. 18-19, 1995 SIZE OF CORE: RQ CORE STORAGE: ROYAL DAK MINES INC., SCHMACHE R CORE SHACK
0	66.0																																	- O-66.0 - QVB	
	68.0	m	FG	MSP	6Y	ALB	8F	Q60		Z				Z							.016		24513	2.0	E								- GREY FELSITE - 1-2% SAUSE. FELD. BLESS - 2% QTZ/ANK VLETS - 2% F-MG DISSEM + SUB-EUP. PY		
	70.0	m	FG	MSP	6Y	ALB	8F	Q45		10				4							(V) .330		24514	2.0	E								- 10% QTZ/ANK VEINS AT TOP OF UNIT UP TO 1 1/2" WIDE 40'-50' TCA - 8-10% F-MG PY AROUND VEINS 1% PY IN LOWER PART OF SECTION * 1 SMALL SPECK VG IN 1/4" VEIN		
	72.8	m	F6	FRAAGY	ALB	8F	Q70			5				3							.035		24515	2.8	E								- DK GREY, WELL FRACT, MOD. CHL - 5% QTZ/ANK VLETS/FAC - 70% WK-MOP. HM STAINING - 3% F-MG DISSEM + SUB PY - BROKEN CORE AT LOWER CONTACT WITH U. MAFIC ROCK		

16-72.8
119.8

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #			Width	T	COMMENTS 1	COMMENTS 2
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	QTZ	C%	B%	C%	F%	D%	E%	NFA	AS	F%					
74.8		M	FmG	MOTL	GG	ANK	IC				5					Tr		.001			24516	2.0	4	- 72.8-119.8-1c/1ct		
79.8											4							.001			17	5.0	4	- GREY/GREEN w/CHL		
84.8											3							.001			18		4	- STR ANK ALT'N		
89.8								Q55										.001			19		4	- MOD HARD - HARD TO SCRATCH		
94.8								Q60										.001			20		4	- MOTL - WK BRX		
99.8																		.001			21		4	- 1% QTZ/ANK VLETS		
104.8																		.001			22		4	- 1% WK LIM STAINING		
109.8																		.001			23		4	- 1ct IN LOWER PART OF UNIT		
114.8																		.001			24		4			
119.8					BRX		IC				5							.001			25		4			
161.0		M	FmG	MOTL	GY	ANK	IC	Q60			4					Tr		.001			24526	4.2	6	- GREY - GREY/GREEN		
																									- WK CHL, MOD- STR ANK ALT'N	
																									- MOTL - WK BRX IN PLACES	
																									- 1% QTZ/ANK VEINS/VLETS UP TO	
																									1" WIDE, SOME VEINS PINK/WHITE	
																									- MOD HARD TO SCRATCH	
190.2		M	FmG	BRX	GY	TLC	1c	Q30			10					Tr		.001			24527	29.2	6	- DR GREY, TALC RICH IN UPPER PART		
								Q65																	OF UNIT	
																									- V WK - WK ANK ALT'N, F-MG ANK	
																									- EASY - MOD EASY TO SCRATCH	
																									- MOD - STR MAGNETIC	
																									- MOD - WELL BRX	
																									- 1-2% QTZ/ANK VEINS UP TO 1" WID	
																									- Tr - 1% M-CG SUB PX	
195.2		M	FmG	BRX	GY	ANK	1c				6					Tr		.001			24528	5.0	4	- BRX AT TOP, MOTL AT BOTTOM		
																									- MOD ANK ALT'N	
197.6		M	FmG	MOTL	GY	SIL	1c				2					Tr		.001			24529	2.4	4	- STR SIL U.MAGNETIC ? / PORPH ?		
																									- V HARD, F-MG ANK	
																									- 2% QTZ/ANK FRAC	
																									- CHL AT CONTACTS	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS								COMMENTS 1			COMMENTS 2					
												GANGUE				METALLIC										Spl #	Width	T
												Qtz	C%	B%	C%	PY	O%	E%	NFA									
202.6		M	FMG	BRX	GY	ANK	1c												24530	5.0	E	- STR ANK ALT'N						
																						- MOD HARD TO SCRATCH						
																						- WK-MOD BRX - MOTL						
206.4		m	FmG	BRX	GY	ANK	1c												24531	3.8	C	- STR ANK ALT'N						
																						- WK FUCH AT END						
209.4		m	FmG	MOTL	GG	ANK	1Fu												24532	3.0	E	- MOD-STR FUCH MOTL-WK BRX						
																						- 1% VF-FG DISSEM + SUB PY						
214.4		m	FmG	BRX	GY	ANK	1c												24533	5.0	C	209.4-231.8-ANK M. MAFICS						
219.4								Q 35												34			- MOD ANK ALT'N					
224.4																				35			- WK-MOD FUCH AT END OF UNIT					
229.4								Q 40												36			- MOD-STR BRX WITH MINOR MOTL					
231.8					GG															37	2.4	C	SECTIONS AT TOP OF UNIT					
																						- HARD TO SCRATCH						
																						- 2 1/2" QTR/ANK VEIN, 35' TRA						
																						WK FUCH AROUND VEIN, WK-MOD LIM						
																						STRAINING ABOVE VEIN						
233.7		m	FG	MSV	GY	ALB	RF	Q 25											24538	1.9	C	- FELSITE/FELD. PORPH?						
																						- FG WITH WHITE ANK SPECKS						
																						- WK-STR SER/Musc ALT'N						
																						- MINOR GREEN FUCH SPECKS						
																						- 2% QTR/ANK VEINS/VLETS 2 1/4"						
																						- 1% F-CG DISSEM + SUB-EUH PY						
236.7		m	FMG	MOTL	GG	ALB	RF	Q 20												24539	3.0	C	- FELD. PORPH / U. MAFIC?					
								Q 35															- CRTX/GREEN, MOD SER/CHL ALT'N					
																							- WK ANK ALT'N					
																							- 8 1/2" QTR/ANK VEINS UP TO 1 1/2" WIDE					
																							- 236.2-236.7- PINK FELSITE/PORPH					
																							- 2% F-CG PY					
																							- 1 LARGE SPECK SPX IN 1" VEIN					

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS				Spl #			Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nom	B	A1	J	A2	GANGUE			METALLIC								
												Qtz	C%	B%	C%	P%	D%	E%					NFA
242.7		m	FMG	BRX	GG	ANK	1C	2	50										24540	5.0	C	- MOD ANK ALT'N - WK BRX - MOTC - 1% QTZ / ANK	TR FUSH VLETS
246.7		m	FMG	BRX	GY	ANK	1cE	2	50										24541	5.0	C	- MOD ANK ALT'N - DMC 1" QTZ / ANK - WK CHL	MOD HARD TO SCRATCH VEIN SO TCA
252.0		m	FMG	BRX	GY	ANK	1cE												24542	5.3	E	- WK CHL, MOD ANK ALT'N	
257.0		m	FMG	BRX	GY	ANK	1cE												24543	5.0	C	- 1cE / 1cE	
259.6		m	FMG	POR	GY	ALB	8FP												24544	2.6	C	- GREY/GREEN - PINK - FMG ANK - 3/4 QTZ / ANK - WK CHL, 1% CHL FRAC - 15% 1cE IN LOWER PART OF UNIT	VLETS / FRAC
262.0		m	FMG	BRX	GY	ANK	1cE												24545	2.4	C	- DK GREY, MOD EASY TO SCRATCH - WK - MOD ANK ALT'N - MOD BRX	F-MG ANK
267.0		m	FMG	BRX	GY	ANK	1cE												24546	5.0	E	- SIMILAR TO PREVIOUS SECTION	
272.0		m	FMG	BRX	GY	ANK	1cE												24547	5.0	C		
273.8		m	FMG	POR	GY	ALB	8FP												24548	1.8	E	- GREY/GREEN WITH PINK/WHITE QTZ/ANK - WK POR	PATCHES, CHL AT CONTACTS
275.8		m	FMG	BRX	GY	ANK	1cE												24549	2.0	C	- SIMILAR TO PREVIOUS 1cE - 275.4-275.8- FELD PORPH - SIMILAR TO PREVIOUS PORPH	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	Cz	B%	C%	Py	D%	E%	Ne	F%								
332.8		M	FmG	BRX	6Y	ANK	ltc																	24550	57.0 G		- DRK GREY, WK-MOD BRX - WK-MOD ANK ALT'N, MINOR F-MG - MOD EASY-EASY TO SCRATCH - 295.0-307.0 - lt, TALC RICH, WK ANK ALT'N, TR, CG PY, STR MAGNETIC, WK BRX - BECOMES MOTL AT END OF UNIT, WK-MOD ANK ALT'N	
337.8		M	FmG	MOTL	6Y	ANK	ltc																	24551	5.0 C		- DRK GREY, MOTL-WK BRX - WK-MOD ANK ALT'N - 333.2-333.5 - RED/GREY FELD PORPH - STR FRAC - Qtz/ANK FILLED, 1-2% PY - 336.3-336.8 - GREEN/PURPLE/GREY FELD PORPH, MOD CHL, 3% F-MG PY	
342.8		M	FmG	MOTL	6Y	ANK	ltc																	24552	5.0 C		- DRK GREY, MOTL-BRX, WK CHL - 340.2-340.3 - PINK PORPH FRAG, TR PY	
345.6		M	FmG	MOTL	6G	ALB	8fp																	24553	2.8 C		- FELD PORPH/SIL U. MAFIC? - MOD-STR CHL - U. HARD TO SCRATCH - 342.8-344.2 - PORPH - 1% F-MG PY	
348.5		M	FmG	BRX	6G	ANK	ltc																	24554	2.9 C		- MOD-STR CHL, STR ANK ALT'N - MOD EASY TO SCRATCH - BRX-FOL X 80° TCA	
350.4		M	FmG	POR	PK	ALB	8fp	QZD																24555	1.9 C		- PINK-GREY FELD PORPH - WK POR-MSV - TINY BLACK TOURM SPECKLES - 5% Qtz/ANK VENS/VLETS	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE			METALLIC											
												ST	C%	B%	C%	Py	D%	E%	NFA	F%						
352.5		m	FmG	BRX	GG	ANK	1ct							2				Tr		.001	24556	2.1	E	- MINOR CHL IN VENS. - 2% F-MG DISSEM + SUIS PY - MOD STR ANK ALT'N - BRX - MOTL, WK CHL/SER - MOD HARD TO SCRATCH		
357.2		m	FmG	MSV	GG	ANK	2m ³	Q25						2				Tr		.001	24557	4.7	E	- COARSE MAFIC VOLS? - DK GREY/GREEN, MSV - HARD TO SCRATCH - MOD STR ANK ALT'N - 2% QTZ/ANK VLETS/FAC		
360.2		m	FmG	BRX	GY	ANK	1ct							7				Tr		.001	24558	3.0	E	- DK GREY, MOD BRX - WK ANK ALT'N, MINOR F-MG ANK		
379.3		m	FmG	BRX	GG	ANK	1ct							3				Tr		.001	24559	19.1	G	- 1ct/1ct - WK BRX - MOTL, DK GREY/GREEN - WK MOD CHL, ANK ALT'N		
382.3		m	FmG	MOTL	GG	ANK	1ct							3				Tr		.001	24560	3.0	G	- MOTL - WK BRX, MOD CHL/ANK ALT'N		
384.0		m	FmG	POB	PK	ALB	Sfp	Q30						7				3		.001	24561	1.7	E	- PINK - ANK/GREY - TINY ANK SPALLS - 7% QTZ/ANK VENS/VLETS UP TO 1/4" WIDE, MINOR CHL IN LARGER VENS - 3% VF-FG DISSEM SUB-EUPHY		
387.0		m	FmG	MOTL	GG	ANK	1ct							4				Tr		.001	24562	3.0	G	- GREY/GREEN, MOD CHL - MOD STR ANK ALT'N - MOTL - BRX AT END OF SECTION		
407.0		m	FmG	BRX	GY	ANK	1ct							6				Tr		.001	24563	20.0	G	- DK GREY, WK MOD ANK ALT'N - F-MG ANK		

DIST	Id	ROCK DESCRIPTION					STRUCT.			MINERALS												Spl #			Width	T	COMMENTS 1	COMMENTS 2		
		Com	Grs	Text	Co	Alt	Nom	B	A1	J	A2	GANGUE				METALLIC				F%										
												QTZ	CL	B%	C%	Py	D%	E%	F%											
407.0																													- WE-MOD. BRX - 1% QZ/ANK - Tr. Mg sub. PY - 407.0 - EOH	

ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-51
 Date Assayed: 11/30/95
 Week/Tray: 95NOV27/AF039

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24558		0.001	35
2	DXR24559		0.001	35
3	DXR24560		0.001	35
4	DXR24561		0.001	35
5	DXR24562		0.001	35
6	DXR24563		0.001	35
7	CONTROL	Control	0.098	3360
8	DXR24513		0.016	550
9	DXR24514		0.330	11310
10	DXR24515		0.035	1200
11	DXR24516		0.001	35
12	DXR24517		0.001	35
13	DXR24518		0.001	35
14	DXR24519		0.001	35
15	BLANK	Blank	0.001	35
16	DXR24520		0.001	35
17	DXR24521		0.001	35
18				
19				
20				
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-51-259

Date Assayed: 11/29/95

Week/Tray: 95NOV27/AF017

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24549		0.001	35
2	DXR24550		0.001	35
3	DXR24551		0.001	35
4	DXR24552		0.001	35
5	DXR24553		0.001	35
6	DXR24554		0.001	35
7	CONTROL	Control	0.099	3390
8	DXR24555		0.001	35
9	DXR24556		0.001	35
10	DXR24557		0.001	35
11	C87001		0.001	35
12	C87002		0.001	35
13	C87003		0.001	35
14	C87004		0.001	35
15	C87005		0.001	35
16	C87006		0.001	35
17	BLANK	Blank	0.001	35
18	C87007		0.001	35
19	C87008		0.001	35
20	C87009		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-51-259

Date Assayed: 12/01/95

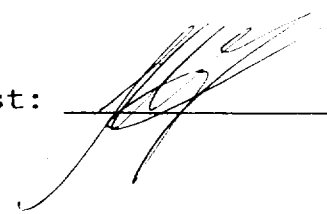
Week/Tray: 95NOV27/AF044

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24531		0.001	35
2	DXR24532		0.001	35
3	DXR24533		0.001	35
4	DXR24534		0.001	35
5	DXR24535		0.001	35
6	CONTROL	Control	0.098	3360
7	DXR24536		0.001	35
8	DXR24537		0.001	35
9	DXR24538		0.001	35
10	DXR24539		0.042	1440
11	C87019		0.001	35
12	C87020		0.001	35
13	C87021		0.001	35
14	C87022		0.001	35
15	C87023		0.001	35
16	C87024		0.001	35
17	C87025		0.001	35
18	C87026		0.001	35
19	C87027		0.001	35
20	BLANK	Blank	0.001	35
21				
22				
23				
24				

51
/



Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

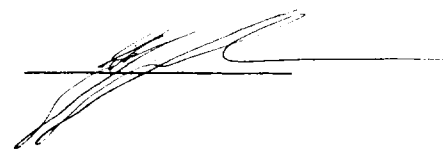
Hole Number: HP-95-51-259

Date Assayed: 11/30/95

Week/Tray: 95NOV27/AF038

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24522		0.001	35
2	DXR24523		0.001	35
3	DXR24524		0.001	35
4	DXR24525		0.001	35
5	DXR24526		0.001	35
6	CONTROL	Control	0.101	3460
7	DXR24527		0.001	35
8	DXR24528		0.001	35
9	DXR24529		0.001	35
10	DXR24530		0.001	35
11	C87010		0.006	205
12	C87011		0.038	1300
13	C87012		0.018	615
14	BLANK	Blank	0.001	35
15	C87013		0.001	35
16	C87014		0.001	35
17	C87015		0.001	35
18	C87016		0.001	35
19	C87017		0.001	35
20	C87018		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

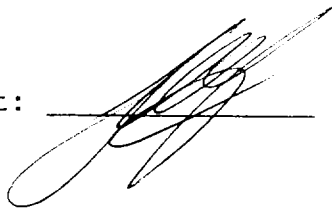
Hole Number: HP-95-51-259

Date Assayed: 11/29/95

Week/Tray: 95NOV27/AF009

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24540		0.001	35
2	DXR24541		0.001	35
3	DXR24542		0.001	35
4	DXR24543		0.001	35
5	DXR24544		0.001	35
6	DXR24545		0.001	35
7	DXR24546		0.001	35
8	DXR24547		0.001	35
9	BLANK	Blank	0.001	35
10	DXR24548		0.001	35
11	C87037		0.042	1440
12	C87038		0.001	35
13	C87039		0.001	35
14	C87040		0.034	1170
15	C87041		0.098	3360
16	CONTROL	Control	0.103	3530
17	C87042		0.012	410
18	C87043		0.001	35
19	C87044		0.001	35
20	C87045		0.010	345
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy


 PROJECT: NIGHTHAWK LK.
 ENTERED: HOPSON

Logged By: R. MAASS

PAGE 1

 CLAIM
 12579

CAT

 Date: 24/10/1995
 Page 1 of 2

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP-95-211 AAR	5781.18	14260.42	10924.43	307.01				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS					Spl #	Width	T	COMMENTS 1	COMMENTS 2													
		Com	Grs	Text	Co	Alt	Nam	B	A1	GANGUE			METALLIC																			
										A2	J	F	A%	B%						C%	Py	D%	E%	N	F%	A%						
0.0																																
30.0																																
137.0		M	FG	MSV	GY	TLC	lke																									
176.5																																
178.5																																
183.5		M	CG	BRX	GR	ANK	lc																									
188.5																																
193.7																																
196		M	FG	POR	GR	SIL	8fp																									

Randy Moss

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nom	B/S	J/F	B	A1	J	A2	GANGUE			METALLIC												
													C%	B%	C%	PY	D%	E%	NEA	F%									
198.6		M	FG	MSV	GY	SIL	IC									Tr			.001				75697	2.6	c	(196-198.6) GY. SIL. ANK. AUT. ULTRAMAFIC = GY. SIL. ANK. ALT. F. G. WITH MIN. WH. QZ. ANK. VNLETS			
200.3		M	FG	MSV	GR	CHL	2m									Tr			.001				75698	2.0	c	(198.6-210.3) BK. TALC/CHL RICH IT			
210.3																			.001				75699	9.7	g				
219.7		M	FG	MSV	GR	CHL	2m												.001				75700	9.4	g	(210.3-219.7) DK. GR. M.V. WITH WH. ANK. PORPHYROBLASTS			
231		M	FG	MSV	GR	CHL	2m									Tr			.001				75701	11.3	g	(219.7-233) BK. TALC/CHL RICH IT			
233																			.001				75702	2.0	c				
234		M	FG	MSV	GY	SIL	8fp												.001				75703	1.0	c	(233-234) TN. TO GY. GFP = SILIC. GROUNDMASS WITH WH. FELDSPAR PHENOCRYSTALS - NO VISIBLE SULPHIDES			
236		M	FG	MSV	GR	CHL	2m									Tr			.001				75704	2.0	g	(234-252.6) DK. GR. CHL. M.V. WITH WH. ANK. PORPHYROBLASTS			
252.6																			.001				75705	16.6	g				
307		M	FG	MSV	GR	CHL	2m									Tr			.001				75706	54.4	g	(252.6-307) BK. TALC/CHL RICH IT EOH = 307'			

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-211
 Date Assayed: 11/02/95
 Week/Tray: 95OCT30/AF018


	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C75690		0.001	35
2	C75691		0.001	35
3	C75692		0.001	35
4	C75693		0.001	35
5	CONTROL	Control	0.096	3290

6	C75694		0.001	35
7	C75695		0.010	345
8	C75696		0.001	35
9	C75697		0.001	35
10	C75698		0.001	35

11	C75699		0.001	35
12	C75700		0.001	35
13	C75701		0.001	35
14	C75702		0.001	35
15	C75703		0.001	35

16	C75704		0.001	35
17	C75705		0.001	35
18	BLANK	Blank	0.001	35
19	C75706		0.001	35
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

PAMOREX

PROJECT: HOPSON

Logged By: S. HARDING

PAGE 1

CLAIM
12-579

CAT

Date: 05/11/1995

Page 1 of 9

DRILL HOLE

NORTHING

EASTING

ELEVATION

LENGTH

OBI

OBE

INC

LEASE

HOPSON

AAR

16731

14879.93

10926.36

357

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
200	345	48												

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS					Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	GANGUE			METALLIC															
							B	A1	J	A2	A%	B%	C%	D%	E%	NFA	F%											
0																												
49.5		m	FG	MSL	GY	ALB	8f							1		.006		74960	3.3	c								
54.9		m	FG	MOLT	GG	Pink	1ft									.001		74961	5.4	c								

0 - END OF CORE
 - FELSITE / SIL VARIOLITE, MAFIC, YOLC
 - GREY WITH GREEN FUCH SPECKS
 - MSU - VAR IN BOTTOM OF SECTION
 - 3-4% QTZ/ANK VEINS/VELTS UP TO 1/4" WIDE
 - 20% STRLIN STAINING
 - 1% VE-FG DISSEM + SUBPY
 - STR ANK PLTN
 - WK-MOL FUCH AT TOP OF SECTION
 - MOLT WK BRN
 - GREN / GREEN WITH LT GREEN PAT

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	GrS	Text	Co	Alt	Nam	B	Al	J	A2	QTZ	C%	B%	C%	PY	O%						E%	NFA	F%	
59.9		M	FMG	MOTL	GG	ANK	Zm					1				Tr			.011		AM	74962	5.0	C	- 2-3% CHL FRAC - 20% MOD LIM STAINING - STR SIL/ANK MAFIC VOLC - MSU - MOTL AT TOP OF SECTION - P. 35 V. MAFIC AT TOP OF SECTION - 1/2 QTZ/ANK VLETS - V. HARD TO SCRATCH	
64.9		M	FG	MSV	GG	ANK	Zm					2				1			.001			74963	5.0	C	- GREY/GREEN - MSV WITH DR CHL BLEBS - STR ANK ALTN - 2% QTZ/ANK VLETS/STG - 1% FMG SUB PY - V. HARD TO SCRATCH	
69.9		M	FG	MSV	GG	ANK	Zm					1				Tr			.001			74964	5.0	C	- SIMILAR TO PREVIOUS SECTION - FG WHITE ANK IN BOTTOM OF SECTION	
74.0		M	FMG	MSV	GG	ANK	Zm					1				Tr			.001			74965	4.1	C	- GREY/GREEN WITH WHITE FMG ANK GIVING ROCK A SPECKLED LOOK - 3% CHL FRAC/BLEBS - 1% QTZ/ANK STG/FRAC	
78.2		M	FMG	SPT	GG	ANK	Zm					2				Tr			.001			74966	4.2	C	- STR SIL/ANK MAFIC VOLC - SIMILAR TO SECTIONS PREVIOUSLY CALLED FELD PORPH IN OTHER HOLES - M.G ANK GIVES ROCK A SPT/ ALMOST POR LOOKING TEX. - HARD - V HARD TO SCRATCH - 1-2% QTZ/ANK VLETS/FRAC	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS				Spl #	Width	T	COMMENTS 1	COMMENTS 2						
		Com	GrS	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	QZ%	CZ%						B%	C%	Py	D%	E%	NEP%
80.7		M	Fmg	MSU	GG	ANK	Zm							3								74967	2.5	C	- SIMILAR TO PREVIOUS SECTION - MINOR INTERBEDDED ULTRAMAF	
85.7		M	Fmg	BRX	GY	TCL	It	Q35						5								74968	5.0	C	- 1.6% IN TOP 1.0' OF SECTION - MOD STR ANK ALT'N, MOD HARD - TO SCRATCH - REST OF SECTION, DK GREY, WK BRX, WK-MOD ANK ALT'N - EASY TO SCRATCH, STR MAGNETIC - 2% QZ / ANK VEINS, WINNING - 1% M-C-G SUB PY - PALE GREEN TADPOLE IN LARGER STWK / VEINS	
115.0		M	Fmg	BRX	GY	TCL	It	Q43						4								74969	29.3	G	- TALC/CHL U. MAFICS - DK GREY, WK BRX-MSV - EASY TO SCRATCH, STR MAGNETIC - WK ANK ALT'N - 2% QZ / ANK VEINS / VLETS - UP TO 1" WIDE - 1% M-C-G SUB PY - BOTTOM 4.0' Itc, MOD ANK ALT'N, MOD HARD TO SCRATCH	
127.5		M	Fmg	BRX	GG	ANK	It							5								74970	22.5	B	- GREY/GREEN - STR ANK ALT'N - MOD CHL - MOD HARD - HARD TO SCRATCH - WK-MOD BRX - MOTT - F-MG ANK IN MOST OF UNIT - 1% QZ / ANK VLETS	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2
		Com	GrS	Text	Co	Alt	Nam	B/S	J/F	GANGUE			METALLIC											
								B	A1	J	A2	QTZ	C%	B%	C%	Py	D%	E%	NFA					
143.5		m	FmG	MOYL	GG	ANK	ICT				4				Tr			.001		74971	6.0		- ANK/CHL U.MA.FIEE - MOTL - WK BRX - MOD - STR CHL - 15-20% STR SIL PATCHES/PORPH - LT GREY - GRN/PNK - V. HARD TO SCRATCH - F-mG KIN. GIVING A POR LOOK - TR. F.B. PY	
170.1		m	FmG	BRX	GG	ANK	ICT				4				Tr			.001		74972	26.66		- GREY/GREEN - GREY - WK BRX - MOTL - 1% QTZ/ANK VLETS - WK-MOD. CHL - MOD HARD - HARD TO SCRATCH - F-mG ANK THROUGH MOST OF UNIT - MOD ANK ALT'N	
172.6		m	FmG	MOTL	GG	ANK	ICT				1				Tr			.001		74973	2.5		- GREY/GREEN - MOTL - WK BRX - 170.6-171.0 - FELD PORPH - GREY/GREEN/PNK, F-mG ANK - 2% CHL FRAC.	
177.6		m	FmG	MOTL	GG	ANK	ICT				2				Tr			.001		74974	5.0		- GREY/GREEN - MOTL - WK BRX - 1% QTZ/PNK VLETS/STG - MOD - STR CHL - HARD TO SCRATCH - STR ANK ALT'N	
182.6		m	FmG	MOTL	GG	ANK	ICT				3				Tr			.001		74975	5.0		- SIMILAR TO PREVIOUS SECTION - MOD. SIL AT END OF SECTION	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	QTZ	C%	B%	C%	Py	D%	E%	NFA	F%									
187.0		M	Fmg	Por	G6	ALB	8fp	G7D																	74976	4.4	C	- FELD PORPH - GREY/GREEN, POR TEX - F-MG ANK - S/O WK-MOD LIM STAINING - 2% QTZ/ANK VLETS /FRAC, TR PY IN SOME VLETS - CHL IN VLETS - 1% FG DISSEM + SUB-EUH PY	
191.4		M	Fmg	Por	G1	ALB	8fp																		74977	4.4	C	- GREY/PURPLE IN COLOUR - F-MG ANK, POR TEX - 1% QTZ/ANK FRAC/VLETS - 1% CHL FRAC AT END OF SECT - 1% FG PY	
196.4		M	Fmg	Bry	G4	ANK	1cc																		74978	5.0	C	- GREY - MINOR GREY/GREEN - WK-MOD ANK ALT'N - MOD HADL TO SCRATCH - MOD-WELL BRY - 4% WK LIM STAINING - MINOR F-MG ANK	
217.0		M	Fmg	Bry	G1	ANK	1cc																		74979	20.6	G	- GREY, MOD-WELL BRY - WK-MOD ANK ALT'N - MOD EAST-MOD HADL TO SCRATCH - 1% QTZ/ANK VLETS - TR F-CG SUB PY - 3% WK LIM STAINING AT TOP OF UNIT - MINOR F-MG ANK AT TOP OF UNIT	
237.6		M	Fmg	Bry	G4	ANK	1cc																		74980	20.6	G	- LT-MED GREY - STR BRY - 12% QTZ/ANK STWK	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #	Wdth	T	COMMENTS								
		Com	Grs	Text	Co	Alt	Nom	B/S J/F			GANGUE			METALLIC				COMMENTS 1	COMMENTS 2												
								B	A	J	A2	P%	C%	B%	C%	F%	D%	E%	NFA				F%								
																									- MOD - STR. ANK. ALT'N						
																									- MOD. HARD - HARD TO SCRATCH						
																									- MINOR GRK IN STWK						
242.6		M	FmG	BRX	GY	ANK	1cE	1	5			15					TR		.001					74981	5.0	E	- SIMILAR TO PREVIOUS UNIT				
																										- TR FUCH. AROUND ONE AREA OF QTR VEINING					
																										- TR - 1% F.M.G. SUB-ENH. PY					
244.0		M	FmG	POR	GS	ALB	8fp	3	5			8							.001							74982	1.4		- F.S.-D PORPH.		
																											- GREY/GREEN - PINK				
																											- WK POR. WK SER. ? ALT'N				
																											- ONE 1/2" VEIN OF TCA, IRR SHAPED				
																											- CHL ALONG EDGE OF VEIN				
																											- 1-2% F.M.G. DISSEM. SUB. PY				
																											- WK-MOD. CHL IN TOP HALF OF SECTION				
249.0		M	FmG	BRX	GS	ANK	1ct	F	30			7					TR		.001							74983	5.0	E	- GREY/GREEN - GREY		
																											- MOD - WELL BRX				
																											- MOD FOL AT TOP OF SECTION 30" TOP				
																											- MOD ANK. ALT'N				
																											- MOD. HARD TO SCRATCH.				
269.1		M	FmG	BRX	GY	ANK	1cC					7					TR		.001								74984	20.1	E	- DK. GREY	
																											- MOD. ANK. ALT'N				
																											- MOD - WELL BRX				
																											- MOD. HARD TO SCRATCH.				
																											- F.M.G. ANK				
274.1		M	FmG	BRX	GY	ANK	1cC					7					TR		.001								74985	5.0	E	- SIMILAR TO PREVIOUS SECTION	
																											- 1% QTR / ANKULETS				
276.2		M	FmG	POR	GY	ALB	8fp					3					TR		.001								74986	2.1	E	- FELD PORPH.	
																											- GRAY/PINK/GREEN				
																											- F-M.G. ANK				

DIST	ID	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	Q%	C%	B%	C%	PY	D%	E%	N	F	F%									
281.2		m	FmG	BRX	Gy	ANK	Itc							6												74987	5.0	E	- MINOR U. MAFIC ROCK AROUND PORPH FRAG - FRAG - CHL FILLED - 1-2% Qtz/ANK VLETS - MOD. EASY TO SCRATCH - MOD ANK ALT'N - MOD-WELL BRX - F-MG ANK AT TOP OF SECTION - Tr. CG SUB PY	
311.5		m	FmG	BRX	Gy	ANK	Itc	R	30					7												74988	30.3	E	- GREY, MOD-WELL BRX - MOD HARD TO SCRATCH - MOD-STR ANK ALT'N - 1% Qtz/ANK VLETS	
316.5		m	FmG	BRX	Gy	ANK	Itc	Q	40					6												74989	5.0	E	- GRAY/GREEN - MOD-STR ANK ALT'N - 2-3% Qtz/ANK VEINS UP TO 1/2" WIDE - WK CHL	
318.2		m	FmG	POR	Gy	ALB	8fp	Q	35					3												74990	1.7	E	- DK GREY/PINK - POR TEX - WK CHL IN PLACES /ALONG VEINS - 3% Qtz/ANK VEINS UP TO 1/4" WIDE - 2% F-MG DISSEM + SUBS - EUH PY	
322.5		m	FmG	BRX	Gy	ANK	Itc	Q	50					5												74991	4.3	E	- STR ANK ALT'N - WK - MOD CHL - 1% PR Qtz/ANK VLETS	
327.5		m	FmG	POR	Gy	ALB	8fp	R	35	Q	50			4												74992	5.0	E	- DK GREY/PURPLE IN COLOUR - BLEACHED AROUND VEINS - DK GREEN CHL SPECKS - POR TEX	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #			Wdth	T	COMMENTS 1	COMMENTS 2		
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Q%	C%	B%	C%	Py	D%	E%	N%	F%								A%	
352.2		m	FmG	BRY	G	ANK	16c					5													7499	1.6		- SIMILAR TO PREVIOUS SECTION	
																												- 351.2 - 352.0 - PELL PORPH?	
																												- 1/6 PY	
357.0		m	FmG	BRY	G	ANK	16c					6													7500	4.8		- MOD-SIB ANK ALT'N	
																												- MOD EASY TO SCRATCH	
																												- F.M.G ANK	
																												- MOD-WELL BRY	
357.0																												- 357.0 - G.O.H	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

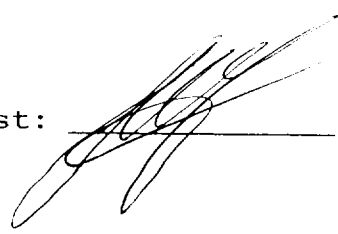
Hole Number: HP-95-216-221

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF028

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C74986		0.001	35
2	C74987		0.001	35
3	C74988		0.001	35
4	C74989		0.001	35
5	C74990		0.001	35
6	C74991		0.001	35
7	C74992		0.001	35
8	BLANK	Blank	0.001	35
9	C74993		0.004	135
10	C74994		0.001	35
11	C76071		0.004	135
12	C76072		0.001	35
13	C76073		0.003	105
14	C76074		0.003	105
15	C76075		0.001	35
16	C76076		0.001	35
17	C76077		0.001	35
18	C76078		0.001	35
19	CONTROL	Control	0.100	3430
20	C76079		0.001	35
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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

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Exploration 5675-1603

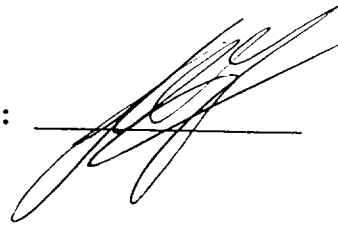
Hole Number: HP-95-219-216

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF023

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20371		0.001	35
2	DXR20372		0.001	35
3	BLANK	Blank	0.001	35
4	DXR20373		0.001	35
5	DXR20374		0.001	35
6	DXR20375		0.001	35
7	DXR20376		0.001	35
8	DXR20377		0.001	35
9	DXR20378		0.001	35
10	C74995		0.001	35
11	C74996		0.001	35
12	C74997		0.001	35
13	C74998		0.001	35
14	PM-601	Control	0.340	11660
15	C74999		0.001	35
16	C75000		0.001	35
17				
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23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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Exploration 5675-1603

Hole Number: HP-95-223-(216)
 Date Assayed: 11/10/95
 Week/Tray: 95NOV06/AF034

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19952		0.001	35
2	D19953		0.001	35
3	D19954		0.001	35
4	CONTROL	Control	0.104	3570
5	D19955		0.001	35

6	D19956		0.001	35
7	D19957		0.001	35
8	D19958		0.001	35
9	D19959		0.001	35
10	D19960		0.001	35

11	C74959		0.001	35
12	C74960		0.006	205
13	C74961		0.001	35
14	BLANK	Blank	0.001	35
15	C74962		0.011	375


16	C74963		0.001	35
17	C74964		0.001	35
18	C74965		0.001	35
19	C74966		0.001	35
20	C74967		0.001	35

21				
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Geologist: P. HARVEY

Chief Chemist: 

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Exploration 5675-1603

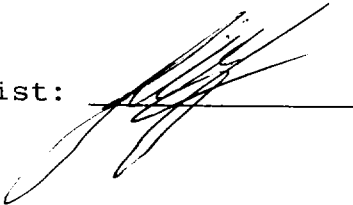
Hole Number: HP-95-216-221

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF033

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C74968		0.001	35
2	C74969		0.001	35
3	C74970		0.001	35
4	C74971		0.001	35
5	C74972		0.001	35
6	CONTROL	Control	0.097	3330
7	C74973		0.001	35
8	C74974		0.001	35
9	C74975		0.001	35
10	C74976		0.001	35
11	C76125		0.001	35
12	C76126		0.001	35
13	BLANK	Blank	0.001	35
14	C76127		0.001	35
15	C76128		0.001	35
16	C76129		0.001	35
17	C76130		0.001	35
18	C76131		0.001	35
19	C76132		0.001	35
20	C76133		0.009	310
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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Exploration 5675-1603

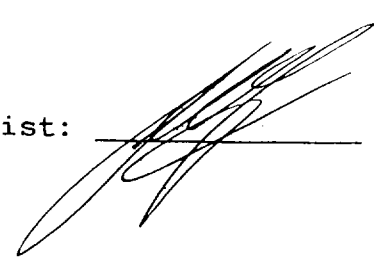
Hole Number: HP-95-220-216

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF029

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C74930		0.001	35
2	C74931		0.001	35
3	C74932		0.001	35
4	C74933		0.001	35
5	C74934		0.001	35
6	374935		0.001	35
7	C74936		0.001	35
8	C74937		0.001	35
9	BLANK	Blank	0.001	35
10	C74938		0.001	35
11	C74977		0.001	35
12	C74978		0.001	35
13	C74979		0.001	35
14	C74980		0.001	35
15	C74981		0.001	35
16	C74982		0.001	35
17	C74983		0.001	35
18	C74984		0.001	35
19	C74985		0.001	35
20	PM-601	Control	0.330	11310
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

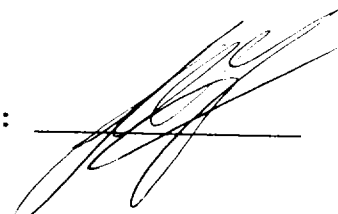
Hole Number: HP-95-219-216

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF023

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20371	Blank	0.001	35
2	DXR20372		0.001	35
3	BLANK		0.001	35
4	DXR20373		0.001	35
5	DXR20374		0.001	35
6	DXR20375		0.001	35
7	DXR20376		0.001	35
8	DXR20377		0.001	35
9	DXR20378		0.001	35
10	C74995		0.001	35
11	C74996	Control	0.001	35
12	C74997		0.001	35
13	C74998		0.001	35
14	PM-601		0.340	11660
15	C74999		0.001	35
16	C75000		0.001	35
17				
18				
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	GANGUE				METALLIC														
								B	Al	J	A2	Qtz	C%	B%	C%	Py	D%	E%	NEA						F%			
67.8		m	FmG	mOtl	GG	CHL	kt								1									74914	5.0	C	- MINOR GREY/BROWN SIL? PATCHES AT END OF UNIT	
71.7		m	FmG	POr	GG	PLC	zfp	QSS							2									74915	3.9	C	- FGLD PORPH/SIL MAR IS 12% GRN? - HARD V. HARD TO SCRATCH - GREY - GREY/GREEN - STR ANK ALT'N - MOD CHL, MINOR CHL FRAC - WK BRX? /FRAC IN PLACES - F-MG ANK GIVING A POR TEX - 2% QTZ/ANK VLETS/IN FRAC - TC - 1% F-MG SUB-GH PY USUALLY FOUND ALONG FRAC/VLETS	
76.7		m	FmG	BRX	GY	ANK	ICT	Q15							6									74916	5.0	C	- MOD-STR ANK ALT'N - TOP 1.5' MOTL, REST OF SECTION WK-MOD BRX - 1% QTZ/ANK VLETS - MOD-STR CHL AT TOP OF SECTION - MOD HARD TO SCRATCH	
113.2		m	FmG	BRX	GG	CHL	kt	Q70							4									74917	36.5	G	- GREY - GREY/GREEN - BRX - MOTL - MOD HARD TO SCRATCH - 2-3% CHL IN STWK/FRAC - 1% QTZ/ANK VEINS/VLETS UP TO 1" WIDE - MOD-WK ANK ALT'N - 88.5 - 94.5 - MORE TALE RICH, WK ANK ALT'N, EASY TO SCRATCH	

DIST	Id	ROCK DESCRIPTION					STRUCT.		MINERALS							Spl #			Width	T	COMMENTS 1	COMMENTS 2					
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	QTZ	C%	B%	C%	PY	O%	E%					NFAF%	A4			
118.2		M	FMG	BRX	GY	ANK	1ct				3				TF				.001		74918	5.0				- 105.5 - 105.65 - SIL/POR BAND	
123.0		M	FMG	MSV	GG	ALB	8cp				2				1				.001		74919	4.8				- FELD PORPH - MOD-STR CHL 1/2 CHL FRAC - F-MG ANK - MSV - WK POR - 2% QTZ/ANK VLETS/FRAC - HARD TO SCRATCH - 1% F-C-G. SUB-EUH PY FOUND MAINLY IN MIDDLE OF SECTION ALONG FRAC.	
128.0		M	FMG	MOTL	GP	ANK	1ct				2				TF				.001		74920	5.0				- MOTL - WK BRX - MOD CHL - 2% QTZ/ANK VLETS STNK - MOD EASY - MOD HARD TO SCRATCH	
162.4		M	FMG	BRX	GG	ANK	1ct				4				TF				.001		74921	34.4				- ANK/CHL U.MAFICS - GREY/GREEN - GREY - BRX - MOTL - MOD ANK ALT - MOD HARD TO SCRATCH - 1% QTZ/ANK VLETS	
167.4		M	FMG	PZ	GG	CHL	1ct				2				TF				.001		74922	5.0				- MOD-STR CHL - 2% QTZ/ANK FRAC/VLETS	
172.0		M	FMG	BR	GG	ALB	8cp				2				1				.001		74923	4.6				- FELD PORPH - GREEN/GREY - HARD - V. HARD TO SCRATCH - MOD CHL 2% CHL FRAC - 1-2% QTZ/ANK FRAC	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS									Spl #	Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B/S/J/F			GANGUE			METALLIC											
								B	A1	J	A2	Qtz	C%	B%	C%	F%	D%	E%	N						FA
173.2		m	FmG	Por	Gy	Alb	8fp						2					Tr		.001	74924	1.2	C	- F-MG ANK PORPHYROBLASTS - 1% F-MG SUR PY ALONG FRAC - LT. GREY/PINK UNCOLOUR - V. HARD TO SCRATCH - 2% QZ/ANK ULETS/FRAC - F-MG ANK - WK LIM STANNING	
178.7		m	FmG	Por	Gy	ANK	1ct						3					Tr		.001	74925	5.5	C	- MOD STR ANK ALT'N - WK BRX AT TOP OF SECTION - WK SIL AT BOTTOM OF SECTION - 3% QZ/ANK STWK/ULETS/FRAC	
181.4		m	FmG	Por	Gg	Alb	8fp						2					1		.001	74926	2.7	C	- GREY/GREEN WITH MINOR GREY/PINK - MOD STR CHL F-MG ANK - HARD - V. HARD TO SCRATCH - 2% QZ/ANK ULETS/FRAC - 1% F-CG SUR PY	
187.4		m	FmG	BRX	Gy	ANK	1cc						4					Tr		.001	74927	6.0	E	- BRX - MOTL AT END OF SECTION - WK MOD BRX - 4% QZ/ANK STWK/ULETS - MOD HARD TO SCRATCH - MOD STR ANK ALT'N	
190.1		m	FmG	Por	Gg	Alb	8fp						2					Tr		.001	74928	2.7	C	- MINOR GREY/PINK PATCHES AT TOP OF SECTION, REST OF SECTION GREY/ GREEN - STR CHL - F-MG ANK - 2% QZ/ANK FRAC - 3-4% CHL FRAC	
191.6		m	FmG	MOTL	Gg	ANK	1cc						2					Tr		.001	74929	1.5	E	- MOTL - WK BRX - F-MG ANK	



DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS							Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	Q%	C%	B%	C%	Py	O%						E%	N	F%
192.8		m	Fmg	Por	Gy	Alb	8fp					3				Tr		.001	Am		74930	1.2	C	- TOP - GREY/PINK, 2-3% QZ/ANK - FRAG, V. HARD TO SCRATCH - BOTTOM GREY/GREEN, STR. CHL, HARD TO SCRATCH - F-MG ANK THROUGHOUT	
197.8		m	Fmg	BRX	Gy	Ank	1cc					7				1		.001			74931	5.0	C	- TALC/CHL/ANIS. U. MAEIGS - GREY, F-MG ANK, W/ MOD. ANK ALT. - WELL BRX - MOD. EASY - EASY TO SCRATCH - TALC RICH AT END - 1/8 CG SUB - EWH PY	
201.8		m	Fmg	BRX	Gy	Ank	1cc					7				1		.001			74932	4.0	C	- SIMILAR TO PREVIOUS SECTION	
205.7		m	Fmg	BRX	Gy	Ank	1cc					7				1		.001			74933	3.9	C	- SIMILAR TO PREVIOUS SECTION	
210.9		m	Fmg	RSU	Gg	Alb	8fp	0	50			3				Tr		.001			74934	5.2	C	- FELL PORPH - MED - WK PORPH - F-MG ANK - HARD - V. HARD TO SCRATCH - 3% QZ/ANK VLETS/FRAG - WK LIM. STAINING AT END OF SECTION	
215.9		m	Fmg	BRX	Gy	Ank	1cc					8				Tr		.001			74935	5.0	C	- DK GREY, WK MOD ANK ALT. W - WELL BRX, F-MG ANK - MOD. HARD TO SCRATCH - WK LIM. STAINING AT TOP OF SECTION	
231.2		m	Fmg	BRX	Gy	Ank	1cc					8				Tr		.001			74936	15.3	C	- DK GREY, WELL BRX - 1/8 QZ/ANK VLETS - MOD. HARD - MOD. EASY TO SCRATCH - MORE TALC-RICH AT BOTTOM OF SECTION, WK - MOD. MAGNETIC	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Grs	Text	Co	Alt	Nam	B	Al	J	A2	Q77	C%	B%	C%	Py	D%	E%	NEA	F%										
247.3		M	FMG	BRX	GY	TCL	IT	Q20						5						Tr						74937	16.1	G	- Talc/Chl u.m. aries - wk - v wk ANK ALT'N - F-M.G. ANK AT END OF UNIT - GRAD. LOWER CONTACT - MGL GREY - W - MOD BRX - 2% Q77 / ANK VEINS VLETS UP TO 1/4" WIDE - EASY TO SCRATCH - MOD-STR MAGNETIC	
253.6		M	FMG	BRX	GY	ANK	ITc							6						Tr						74938	6.3	G	- GREY - GREY/GREEN AT END OF SECTION - WK - MOD ANK ALT'N, F-M.G. ANK - MOD BRX - MOD EASY - MOD HARD TO SCRATCH - MOD - WK MAGNETIC AT END OF SECTION	
258.6		M	FMG	BRX	GG	ANK	ITc							7						Tr						74939	5.0	C	- GREY / GREEN - MOD HARD - HARD TO SCRATCH - WELL BRX - MOD ANK ALT'N	
263.6		M	FMG	BRX	GG	ANK	ITc							6						Tr						74940	5.0	C	- SIMILAR TO PREVIOUS SECTION - HARD TO SCRATCH	
267.8		M	FMG	FOR	GG	ALB	80p	Q45						15						1						74941	4.2	C	- 263.6 - 267.2 - PINK / GRAY, WK FOR, 2-3% Q77 / ANK FRAE, DIS CHL SPECKS 1-2% F-CG SUB PY - 264.2 - 267.8 - GREY / GREEN, MOD CHL - 3% Q77 / ANK VEINS UP TO 1/4" WIDE - 265.6 - 267.2 - 1" Q77 / ANK VEINS 5-10% TCA - 1% F-CG SUB-EUH PY	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS							Spl #			Width	T	COMMENTS 1	COMMENTS 2	
		Com	Gra	Text	Co	Alt	Ham	B	A1	J	A2	QZ	CZ	B%	C%	PY	D%	E%	N					A
269.2		m	FmG	POP	PK	ALB	EP				2				3					.007	74942	1.4	C	- SALMON PINK - GREY AT END OF SECTION - 2-3% CHL FRAC - 2% QZ/ANK VLETS/FRAC - 3% F-C G SUB PY.
272.7		m	FmG	BRX	GG	ANK	lct	Q40 Q80			7				Tr					.001	74943	3.3	C	- MOD-STR ANK ALT'N - GREY/GREEN - WK-MOD CHL - MOD HARD TO SCRATCH - WELL BRX - 2-3% QZ/ANK VLETS UP TO 1/2" WID.
276.2		m	FmG	BRX	GG	ANK	lct				5				Tr					.007	74944	3.5	C	- SIMILAR TO PREVIOUS SECTION - 1% QZ/ANK VLETS
277.7		m	FmG	MSV	GG	ALB	EP				2				2					.005	74945	1.5	C	- GREY/GREEN - PURPLE/GREY - MOD-STR CHL, CHL FRAC - MSV - WK POP - ALMOST BRX - 3-4% F-MG SUB-EUPH IN FURTHER - GREY PATCHES - 2% QZ/ANK VLETS/FRAC
282.7		m	FmG	BRX	GG	ANK	lct	Q70			5				Tr					.001	74946	5.0	C	- GREY/GREEN - STR ANK ALT'N - MOD CHL - WK-MOD BRX - MOD HARD - HARD TO SCRATCH - 1% QZ/ANK VLETS - ONE 2" FEEL POP FRAG AT TOP OF SECTION
287.7		m	FmG	BRX	GG	ANK	lct				4				Tr					.001	74947	5.0	C	- SIMILAR TO PREVIOUS SECTION - WK BRX - MODL

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2		
		Com	Grn	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Py	D%	E%	NFA	F%								
314.5		m	FAG	BRX	G	ANK	ICT						6					TR			AN	.001	74948	26.8	G	- WK-MOD ANK ALT'N		
316.0		m	FAG	MOTL	GG	ANK	ICT						4					TR				.001	74949	1.5	C	- MOTL, CHL ICT		
321.0		m	FAG	BRX	G	ANK	ICT						4					TR				.001	74950	5.0	C	- WK-MOD BRX		
326.0		m	FAG	BRX	GG	ANK	ICT						3					TR				.001	74951	5.0	C	- SIMILAR TO PREVIOUS SECTION		
330.7		m	FAG	POR	G	ALB	BF	Q65					5					3				.001	74952	4.7	C	- 326.0 - 345.7 - FELD PORPH		
335.7								Q60					5									.001	53	5.0	C	- MED GREY WITH MINOR LT GREY -		
340.7								Q60					5									.001	54	5.0	C	- LT GREY/PINK PATCHES AROUND VEINS		
345.7								Q50					4									.001	55	5.0	C	- WK POR		
																											- 2-4% QZ/ANK VEINS/VLETS	
																											- UP TO 1/2" WIDE	
																											- ROCK IS BLEACHED AROUND VEINS	
																											- 2-3% CHL PRAC/SPECKS	
																											- 3% WK-MOD LIM STAINING	
																											- 3% F-GG SUB-EUH PY	
																											- WK AUC ? ALT'N IN LARGER VEINS	
351.8		m	FAG	BRX	GG	ANK	ICT						4					TR				.001	74956	6.1	C	- MOD-STR ANK ALT'N		
																											- WK CHL	
																											- BRX - MOTL	
																											- 1% QZ/ANK VLETS	

ROYAL OAK ANALYTICAL LABORATORY

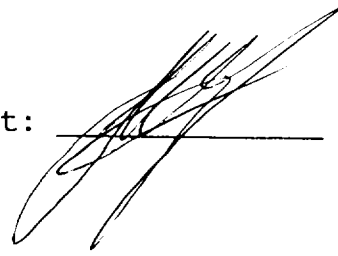
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-220
 Date Assayed: 11/10/95
 Week/Tray: 95NOV06/AF030

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C74921		0.001	35
2	C74922		0.001	35
3	C74923		0.001	35
4	C74924		0.001	35
5	C74925		0.001	35
6	C74926		0.001	35
7	C74927		0.001	35
8	C74928		0.001	35
9	C74929		0.001	35
10	BLANK	Blank	0.001	35
11	C74939		0.001	35
12	C74940		0.001	35
13	C74941		0.005	170
14	.74942		0.007	240
15	CONTROL	Control	0.101	3460
16	C74943		0.001	35
17	C74944		0.007	240
18	C74945		0.005	170
19	C74946		0.001	35
20	C74947		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

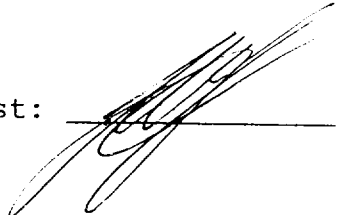
Hole Number: HP-95-215-220

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF032

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20397		0.001	35
2	DXR20398		0.001	35
3	CONTROL	Control	0.099	3390
4	DXR20399		0.001	35
5	DXR20400		0.001	35
6	DXR20401		0.001	35
7	C74912		0.001	35
8	C74913		0.001	35
9	C74914		0.001	35
10	C74915		0.001	35
11	C74916		0.001	35
12	BLANK	Blank	0.001	35
13	C74917		0.001	35
14	C74918		0.001	35
15	C74919		0.001	35
16	C74920		0.001	35
17				
18				
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

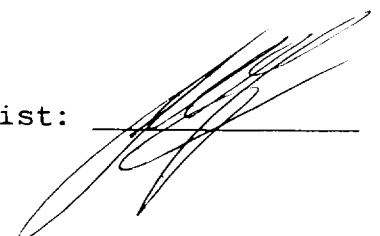
Hole Number: HP-95-220-216

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF029

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C74930		0.001	35
2	C74931		0.001	35
3	C74932		0.001	35
4	C74933		0.001	35
5	C74934		0.001	35
6	374935		0.001	35
7	C74936		0.001	35
8	C74937		0.001	35
9	BLANK	Blank	0.001	35
10	C74938		0.001	35
11	C74977		0.001	35
12	C74978		0.001	35
13	C74979		0.001	35
14	C74980		0.001	35
15	C74981		0.001	35
16	C74982		0.001	35
17	C74983		0.001	35
18	C74984		0.001	35
19	C74985		0.001	35
20	PM-601	Control	0.330	11310
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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CERTIFICATE OF ANALYSIS

Exploration 5675-1603

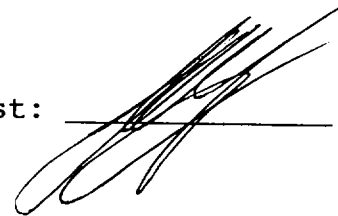
Hole Number: HP-95-255-220

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF019

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72854		0.001	35
2	BLANK	Blank	0.001	35
3	C72855		0.001	35
4	C72856		0.001	35
5	C72857		0.001	35
6	C72858		0.001	35
7	C72859		0.001	35
8	C72860		0.001	35
9	C72861		0.001	35
10	C72862		0.001	35
11	C74948		0.001	35
12	CONTROL	Control	0.100	3430
13	C74949		0.001	35
14	C74950		0.001	35
15	C74951		0.001	35
16	C74952		0.001	35
17	C74953		0.001	35
18	C74954		0.001	35
19	C74955		0.001	35
20	C74956		0.001	35
21	C74957		0.001	35
22	C74958		0.001	35
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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PATMOREXPROJECT: HOBSON
entered NIGHTHAWK LAKELogged By: S. HARDING

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CLAIM
12579

CAT

Date: 06/11/1995
Page 1 of 5

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
H-95-322 MR	5899.15	14555.41	10926.33	307.0				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS					Spl #	Wdth	T	COMMENTS 1	COMMENTS 2														
		Com	Grs	Text	Co	Alt	Nam	B/A1	J/A2	QTE	A%	B%	C%	Py	D%						E%	NFA	F%											
0	34.0																															DRILLING CANTON NOV. 3-4, 1995 CORE: BQ STORAGE: ROYAL OAK MINES INC., SCHMACHER CORE SHACK		
	79.0	M	FMG	BRX	GY	ANK	IEC													Jr	.001	19951	45.0	6								34.0 - 0.0 U. MAFIC GRSY - MOD. BRX MOD. EASY - MOD. HARD TO SCRATCH - E-MG. ANK. IN PLACES - 1% QTE/ANK. VETS - 1.2% CHL. IN STK		
	95.8	M	FMG	MSU	GG	ANK	2m														Tf	.001	19952	6.8	6								MAFIC VOLC. MSU - SPECKLED WITH MG ANK GREEN - GREY/GREEN HARD TO SCRATCH MOD. BRX ALTN 1% CHL. FRAC 1% QTE/ANK. FRAC	
	104.2	M	FMG	BRX	GY	ANK	IEC														Tf	.001	19953	18.4	6								WK - MOD. ANK ALTN WK - MOD. BRX E-MG ANK. IN NEXT OF UNIT	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC													
												QTZ	C%	B%	C%	PY	D%	E%	N	A						F%			
137.4		M	FmG	BRX	GY	ANK	Itc							6											19960	5.0	C	- SIMILAR TO PREVIOUS SECTION - WK-MOD MAGNETIC	
141.3		M	FmG	BRX	GY	ANK	Itc							5											19961	3.9	C	- SIMILAR TO PREVIOUS SECTION	
143.9		m	FG	BRX	RD	HEM	Zpb							2											19962	2.6	E	- MAFIC PIL BRX - DK GREEN - RED - MOD-STR HEM STAINING - WK MAGNETIC - 2/10 QTZ/CC VLETS IN/STWK - F-MG CC XTALS - HARD TO V. HARD TO SCRATCH - 1/6 F-MG SUB-EUH PY	
148.9		m	FmG	BRX	GY	ANK	Itc							5											19963	5.0	C	- MED-DK GREY WK-MOD ANK ALT'N - MOD EASY TO SCRATCH - F-MG ANK - MOD BRX	
153.0		m	FmG	BRX	GY	ANK	Itc							7											19964	4.1	C	- SIMILAR TO PREVIOUS SECTION	
154.5		m	FmG	MSV	GY	ANK	8fp?	Q30						6											19965	1.5	C	- FELD PORPH? - DK GREY/PINK/GREEN - WK-MOD CHL - V. HARD TO SCRATCH - 6% QTZ/ANK VEINS/VLETS UP TO 1/2" WIDE - 1/6 F-MG SUB-EUH PY	
159.5		m	FmG	BRX	GY	ANK	Itc							6											19966	5.0	C	- WK-MOD ANK ALT'N F-MG ANK - MOD EASY TO SCRATCH - 1/6 QTZ/ANK VLETS	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS												Spl #			Width			T	COMMENTS 1	COMMENTS 2				
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	A1	A2	GANGUE				METALLIC																			
												Qtz	C%	B%	C%	Py	D%	E%	NFA%	F%															
183.9		M	FmG	BRY	GY	ANK	Itc							S					Tr							19967	24.46		- DK GREY, WK-MOD. BRX						
																														- F-MG ANK					
																														- MOD. EASY - MOD. HARD TO SCRATCH					
																														- MOD. MAGNETIC PATCHES - MORE TALC RIC					
																														- Tr. MG SUB PY					
188.9		m	FmG	BRY	GY	ANK	Itc							4					Tr						19968	5.00	c	- SIMILAR TO PREVIOUS SECTION							
190.8		m	FmG	BRY	RG	CHL	Zpc							1					4						19969	1.90	c	- MAFIC DYKE ? / PIL BRY							
																													- DK GREEN / RED, MOD. HEMSTAINING						
																													- HARD TO SCRATCH, MOD. MAGNETIC						
																													- BRX - CHL STWK						
																													- F-MG ANK						
																													- 4% M-CG SUB - EAH PY						
195.0		M	FmG	BRY	GY	ANK	Itc							7					Tr						19970	4.20	E	- MOD. WELL BRX, F-MG ANK							
																													- MOD. EASY - MOD. HARD TO SCRATCH						
196.4		m	FmG	mod	SBR	ANK	71							2					1						19971	1.40	c	- LAMP DYE / MINOR H. MAFIC ROCK							
																													- GREY / BROWN, BIOTITE RICH						
																													- 2% QTZ / ANK FRAC						
																													- MOD. ANK ALT'N, F-MG ANK						
																													- 1% M-CG SUB - EAH PY						
201.4		m	FmG	BRY	GY	ANK	Itc							6					Tr						19972	5.00	c	- SIMILAR TO PREVIOUS 16c							
235.0		m	FmG	BRY	GY	TEL	Itc							6					Tr						19973	33.66		- GREY, MOD. BRX							
																													- WK - MOD. ANK ALT'N, F-MG ANK						
																													- MOD. EASY TO SCRATCH						
																													- 1% QTZ / ANK VLETS						
																													- Tr. M-CG SUB PY						

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE				METALLIC														
													QZ	C%	B%	C%	Py	D%	E%	NEA	F%											
307.0		m	FmG	BRX	G4	Tcl	1E						S				Tr			Am	.001			799.74	72.06					- TALC/CHL U.MAFICS		
																															- WK ANK ALT'N	
																															- EASY-MOD EASY T. SCRATCH	
																															- WK-MOD BRX, MORE CHL STWK	
																															IN PLACES	
																															- 1-2% QZ/ANK ULTS	
																															- F.M.G ANK AT END OF UNIT	
																															- 238.7-238.9 - CAMP DYKE, 1/2	
																															M.G. SUB-EUH. PY	
307.0							EOH																								- 307.0 - EOH	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~223~~-216

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF034

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19952		0.001	35
2	D19953		0.001	35
3	D19954		0.001	35
4	CONTROL	Control	0.104	3570
5	D19955		0.001	35

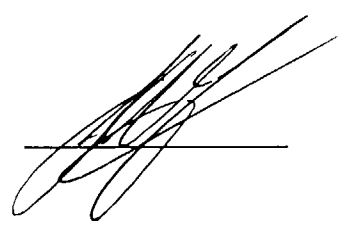
6	D19956		0.001	35
7	D19957		0.001	35
8	D19958		0.001	35
9	D19959		0.001	35
10	D19960		0.001	35

11	C74959		0.001	35
12	C74960		0.006	205
13	C74961		0.001	35
14	BLANK	Blank	0.001	35
15	C74962		0.011	375

16	C74963		0.001	35
17	C74964		0.001	35
18	C74965		0.001	35
19	C74966		0.001	35
20	C74967		0.001	35

21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

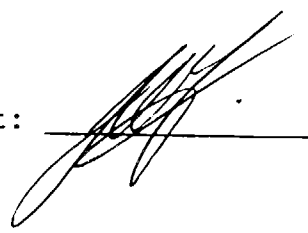
Hole Number: HP-95-223-227

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF035

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19951		0.001	35
2	D19970		0.004	135
3	D19971		0.001	35
4	D19972		0.001	35
5	CONTROL	Control	0.096	3290
6	D19973		0.004	135
7	D19974		0.001	35
8	DXR20411		0.002	70
9	DXR20412		0.001	35
10	DXR20413		0.001	35
11	DXR20414		0.001	35
12	DXR20415		0.002	70
13	DXR20416		0.001	35
14	DXR20417		0.001	35
15	BLANK	Blank	0.001	35
16	DXR20418		0.001	35
17	DXR20419		0.001	35
18				
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

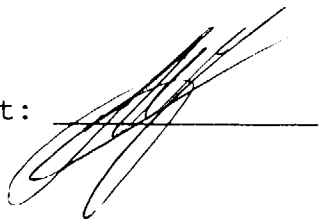
Hole Number: HP-95-255-223

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF036

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72836		0.001	35
2	C72837		0.001	35
3	BLANK	Blank	0.001	35
4	C72838		0.001	35
5	C72839		0.001	35
6	C72840		0.001	35
7	C72841		0.001	35
8	C72842		0.001	35
9	C72843		0.001	35
10	C72844		0.001	35
11	D19961		0.001	35
12	D19962		0.001	35
13	CONTROL	Control	0.104	3570
14	D19963		0.001	35
15	D19964		0.001	35
16	D19965		0.002	70
17	D19966		0.001	35
18	D19967		0.001	35
19	D19968		0.001	35
20	D19969		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

PAMOREX

PROJECT: HORSON
ENTRANCE NIGHTHAWK LAKE

Logged By: Ali Shahkar

PAGE 1

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12579

CAT

Date: 06/11/1995
Page 1 of 4

DRILL HOLE HP95-227 AMP NORTHING 5860.85 EASTING 14656.74 ELEVATION 10928.94 LENGTH 307 OBI OBE INC LEASE

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												
300	345	47												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS						COMMENTS 1			COMMENTS 2							
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Q	A%	B%	C%	PY	D%	E%	N	F	A%	Spl #	Width	T			
0	53																										
57		M	FMG	MBX	GG	ANK	IC	Q	55			1				TR		.008			20402	4	C				
61		M	FMG	3X	GR	AUK	IFV					1				FMG	6I	.010			20403	4	C				
66		M	FMG	MBX	GG	ANK	IC									TR		.001			20404	5	C				
71																TR		.001			20405	5	C				
76								Q	60			1				TR		.001			20406	5	C				
78																TR		.001			20407	2	C				
80																TR		.001			20408	2	C				

CONTRACTOR: MCKENZIE DRILLING, TIMMINS, ONTARIO
 DRILLED: NOV 4-5, 1995
 SIZE OF CORE: BQ
 CORE STORAGE: ROYAL OAK MINES INC., SCHUMACHER CORE SHACK

light grey-green to rusty colour, tension Qtz stringers - RQD ~ 55%. Moderate FU alteration.
 RQD ~ 70%.
 weak FU alteration near upper contact. RQD ~ 80%.
 Tension Qtz stringers ~ 60° - RQD ~ 80%.
 minor Fe-rich
 RQD ~ 70%

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS							Spl #	Wdth	T	COMMENTS 1	COMMENTS 2				
								GANGUE				METALLIC															
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	Q	C%	B%	C%	PY	D%	E%						NEP%	F%	FW	
82.5		M	FMG	MBX	GY	ANK	S/L	BF				8								.019			20409	2.5	C	tension & crackle qtz stringers, minor chloritization	
85.5											6									.016			20410	3	C	R.D. ~ 90%	
88		M	FMG	MBX	GG	ANK		IC	Q150 F 50			3							.002			20411	2.5	C	qtz stringers within the 50° foliation		
93				COT					Q170 F 50			4							.001			20412	5	C	R.D. ~ 85%		
98											2								.001			20413	5	C	few blocky zones	R.D. ~ 55%	
103																			.002			20414	5	C	decrease in intensity of foliation	R.D. ~ 60%	
108											1								.002			20415	5	C	no foliation	R.D. ~ 55%	
113									Q120		4								.001			20416	5	C	qtz stringers & cathyses weak fold (70°)		
117		M	FMG	MBX	GR	ANK		IFL			5								.001			20417	4	C	strong fuchsite & some wide tension qtz stringers		
122											4								.001			20418	5	C	R.D. ~ 80%		
126											22								.001			20419	4	C	weak foliation @ 40°		
131		M	FMG	MBX	GG	ANK		IC			1								.001			20420	5	C	weak foliation @ ~ 30°	R.D. ~ 70%	
136		M	FMG	MBX	GG	ANK		IC			1								.001			20421	5	C	R.D. ~ 65% foliated at 20°		
141		M	FMG	MBX	GG	ANK		IC											.001			20422	5	C	R.D. ~ 90%		
165		M	FMG	MBX	GG	ANK		IC											.001			20423	24	C	R.D. ~ 80%		
169		M	FMG	MBX	GG	ANK		IC											.001			20424	4	C	qtz & biotite fragments at the next unit R.D. ~ 60%		

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS								Spl #			Width	T	COMMENTS 1	COMMENTS 2	
		Com	GrS	Text	Co	Alt	Nam	B	A1	J	A2	Q	C%	B%	C%	PY	D%	E%	NEF%	Spl #	Width					T
170		M	FMG	MoT	RD	SIL	SP					47				FA	TR		.001			20425	1	c	2.56 inch segments of "SP" with crackle stringers of qtz & qtz/chl	
178		M	FMG	MBX	GG	ANK	ICE					-				TR			.001			20426	4	c	minor bird fragments of the SP near contact	
206		M	FMG	MBX	GG	ANK	ICE					-			CG	TR			.001			20427	32	g	3 cm wide fault w/ gauge @ 20-30° RAO ~ 50%	
209		M	FMG	MBX	GG	ANK	ICE					-							.001			20428	3	c	similar to above	
210		M	FMG	BX	RD	SIL	SP					3			FA	TR			.001			20429	1	c	10 inch "SP" fragment w/ qtz crackle stringers & tension veins - Only TR PY	
213		M	FMG	MBX	GG	ANK	ICE					-							.001			20430	3	c	slightly foliated @ ~ 50° - RAO ~ 60%	
218												-							.001			20431	5	c		
223												-							.001			20432	5	c	increase in ANK	
227															CG	TR			.001			20433	4	c		
230.3															CG	TR			.001			20434	3.3	c	H	
234		M	FMG	HoM	GR	ANK	8fp CIL					6			FMG	B			.001			20435	3.7	c	diffuse foliated contact. increase in qtz stringers with alteration. late down hole	
237												5			FMG	4			.001			20436	4	c		
241												6			FMG	5			.001			20437	4	c		
246												4			FMG	2			.001			20438	5	c		
250												4			FMG	3			.001			20439	4	c		

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

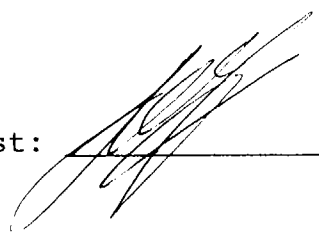
Hole Number: HP-95-225-227

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF046

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20453		0.001	35
2	DXR20454		0.001	35
3	DXR20455		0.001	35
4	DXR20456		0.008	275
5	DXR20457		0.001	35
6	BLANK	Blank	0.001	35
7	DXR20458		0.001	35
8	DXR20459		0.001	35
9	DXR20460		0.001	35
10	DXR20461		0.001	35
11	DXR20438		0.001	35
12	CONTROL	Control	0.103	3530
13	DXR20439		0.001	35
14	DXR20440		0.001	35
15	DXR20441		0.001	35
16	DXR20442		0.001	35
17	DXR20443		0.001	35
18				
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24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-223-227

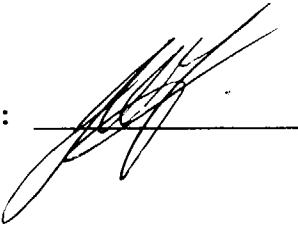
Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF035

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	D19951		0.001	35
2	D19970		0.004	135
3	D19971		0.001	35
4	D19972		0.001	35
5	CONTROL	Control	0.096	3290
6	D19973		0.004	135
7	D19974		0.001	35
8	DXR20411		0.002	70
9	DXR20412		0.001	35
10	DXR20413		0.001	35
11	DXR20414		0.001	35
12	DXR20415		0.002	70
13	DXR20416		0.001	35
14	DXR20417		0.001	35
15	BLANK	Blank	0.001	35
16	DXR20418		0.001	35
17	DXR20419		0.001	35
18				
19				
20				
21				
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23				
24				

227

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

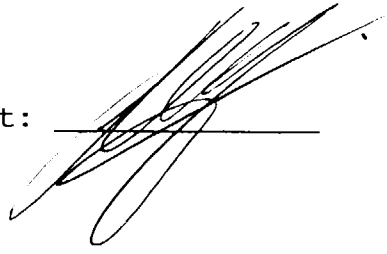
Hole Number: HP-95-227

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF044

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20402		0.008	275
2	DXR20403		0.010	345
3	DXR20404		0.001	35
4	BLANK	Blank	0.001	35
5	DXR20405		0.001	35
6	DXR20406		0.001	35
7	DXR20407		0.001	35
8	DXR20408		0.001	35
9	DXR20409		0.019	650
10	DXR20410		0.016	550
11	DXR20420		0.001	35
12	DXR20421		0.001	35
13	DXR20422		0.001	35
14	CONTROL	Control	0.102	3500
15	DXR20423		0.001	35
16	DXR20424		0.001	35
17	DXR20425		0.001	35
18	DXR20426		0.001	35
19	DXR20427		0.001	35
20	DXR20428		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

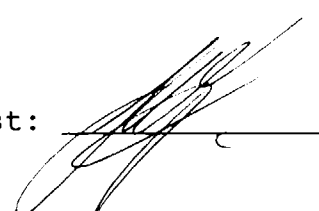
Hole Number: HP-95-~~227~~226

Date Assayed: 11/13/95

Week/Tray: 95NOV13/AF002

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20429	Blank	0.001	35
2	BLANK		0.001	35
3	DXR20430		0.001	35
4	DXR20431		0.001	35
5	DXR20432		0.001	35
227	6	DXR20433	0.001	35
7	DXR20434		0.001	35
8	DXR20435		0.001	35
9	DXR20436		0.001	35
10	DXR20437		0.011	375 ✓
11	C76164		0.004	135
12	C76165		0.001	35
13	C76166		0.001	35
14	C76167		0.001	35
15	C76168		0.001	35
16	CONTROL	Control	0.097	3330
17	C76169		0.010	345
18	C76170		0.001	35
19	C76171		0.001	35
20	C76172		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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PROJECT: HOBSONLogged By: Ali ShakkarCLAIM
12579

CAT

Date: 10/11/1995
Page 1 of 6

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
<u>HP95-232</u>	<u>5456.40</u>	<u>14506.09</u>	<u>10934.31</u>	<u>707.0</u>				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50												
200	345	48												
400	350	46												
600	350	47												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS							COMMENTS 1			COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B	B/S		GANGUE			METALLIC				Spl #	Width	T		
									A1	J/A2	Q	A%	B%	C%	PY	D%	E%					
42						CAS															CONTRACTOR: MCKENZIE DRILLING TIMMINS, ONTARIO DRILLED: NOV 8 - 10, 1995 SIZE OF CORE: BQ CORE STORAGE: ROYAL OAK MINING INC., SCHUMACHER CORE SHACK	
63.5		M	FG	HOM	66	CHL	2m								FRG	TR	.001	72314	21.5	G	2' zone of very blocky core @ 55-55 with cc stringers (1-2%). RDD ~ 80%	
68		M	VFG	MBX	GY	SIL	2								FG	TR	.001	72315	4.5	C	Very strongly sil'd matrix(?), RDD ~ 90% w/ 3 cc filled fractures @ 89°, @ 50°	
73																	.001	72316	5	C		
78																	.001	72317	5	C		
83																	.001	72318	5	C		71 to 85: overprinting of ch holes of dolomite (fractures were scattered) about 10%
88																	.001	72319	5	C		
92																	.001	72320	4	C		
96																	.001	72321	4	C		96-100% heavily bre'ed w/ hematite stringers in the first 2'
102				BRX			2b										.001	72322	4	C		very little traces of FG PY.
105				MBX			2										.001	72323	5	C		
112		M	FMG	MBX	66	ANX	17c										.001	72324	5	C		majorly HNK, 9" long zone of gouge @ 118° overall i.d. @ 85% sharp upper constant @ 50°
147								270			4				MG	TR	.001	72325	37	G		

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Q	c%	B%	c%	Py						D%	E%	N	F%
417		M	FmG	MOTLD	GG	TCL	LT					2			FmG	TR		.001		AN	72353	48	G	ANK alt'n. changed to EC, increased TCL, few high angle (80-90) st/cr. stringers 2-4cm wide, patches sil. @ towards the lower contact. RQD ~ 85%	
442		M	FG	H2M	GR	CEL	2M								EG	TR		.001			72354	25	G	Maximum values w/ patches in LEU sheets. RQD ~ 80%	
488		M	FmG	MOTLD	GG	TCL	LT					1			FmG	TR		.001			72355	26	G	Same as 417-442	
493																		.001			72356	5	C	RQD ~ 90%	
498		M	FmG	POK	GY	SIL	BP								YH	I		.001			72357	4	C	SIL greasy 'BP?' sharp contacts @ 50" TR. CG. PV. w/ chl. filled fractures, disseminated VEG. PV. RQD ~ 90%	
502		M	FmG	MBX	GG	ANK	IC	Q50				2			TR			.001			72358	5	C	Increasing ANK alt'n. towards	
507												1						.001			72359	5	C	lower contact	
512								Q50				2						.012			72360	5	C	RQD ~ 90%	
517		M	FmG	MBX	GG	ANK	IC					2			FmG	TR		.001			72361	5	C	Increased ANK & SFR, last 2' minor	
522																		.001			72362	5	C	FV alt'n. increasing towards lower	
526																		.001			72363	4	C	contact	
530																		.001			72364	4	C	RQD ~ 100%	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS					Spl #	Width	T	COMMENTS 1	COMMENTS 2							
		Com	Gr	Text	Co	Alt	Nom	B	Ai	J	A2	Q	C%	B%						C%	PY	D%	CPY	E%	NFA	F%
535		M	FMG	MBX	GR	FV	IFU	Q20	Q70	5					FMG	TR			AM	.001	72365	5	C	strong FU & ANK, 2-5% qtz, some mineral, occasional fracturing w/ hematite alter. halos upto 5" wide, most fractures @ ~60° overall RQD ~ 90%		
540										2										.001	72366	5	C			
545										2										.001	72367	5	C			
550								Q30	Q70	3										.001	72368	5	C			
554										3										.001	72369	4	C			
558										3										.001	72370	4	C			
561		M	FMG	HQM	GY	SIL	BF		Q40	3				FMG	2					.004	72371	3	C	GY pebble w/ qtz/ANK stringers, SER'd		
564								Q60	Q50	4					2					.001	72372	3	C	halos around some qtz veins upto 1.5'		
567								Q90	Q50	8					3	FMG	TR			.012	72373	3	C	long RQD ~ 90%		
572		M	FMG	MBX	GR	FV	IFU			2					TR					.002	72374	5	C	similar to above "IFU" increase in		
577										3										.012	72375	5	C	fracture zones w/ hematite alter. halos		
582										3										.001	72376	5	C	4" to 2" fracture zones @ 575, 583, 586,		
587										3										.001	72377	5	C	59.0, 59.3'		
592										4										.001	72378	5	C	RQD ~ 75%		
597										3										.001	72379	5	C			
602		M	FMG	MBV	SG	ANK	IC			2					TR					.001	72380	5	C	similar to 512-530,		
607																				.001	72381	5	C	RQD 90%		
612																				.001	72382	5	C			
617																				.001	72383	5	C			
621		M	FMG	MBV	GR	FV	IFU			1					TR					.001	72384	4	C	same as above "IFU" fractures @ 622'		
624										1										.002	72385	3	C	@ 624.		
627		M	FMG	HQM	GY	SIL	BF			4					3					.056	72386	3	C			
630										4					3	FMG	TR			.022	72387	3	C			

ROYAL OAK ANALYTICAL LABORATORY

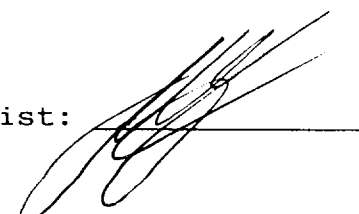
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-232
 Date Assayed: 11/16/95
 Week/Tray: 95NOV13/AF026

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72377		0.001	35
2	C72378		0.001	35
3	C72379		0.001	35
4	C72380		0.001	35
5	C72381		0.001	35
6	BLANK	Blank	0.001	35
7	C72382		0.001	35
8	C72383		0.001	35
9	C72384		0.001	35
10	C72385		0.002	70
11	C72386		0.056	1920
12	C72387		0.022	755
13	C72388		0.001	35
14	C72389		0.001	35
15	CONTROL	Control	0.098	3360
16	C72390		0.001	35
17	C72391		0.001	35
18	C72392		0.001	35
19	C72393		0.001	35
20	C72394		0.001	35
21	C72395		0.001	35
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-232
 Date Assayed: 11/16/95
 Week/Tray: 95NOV13/AF030

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72341		0.003	105
2	C72342		0.001	35
3	C72343		0.001	35
4	C72344		0.001	35
5	C72345		0.001	35

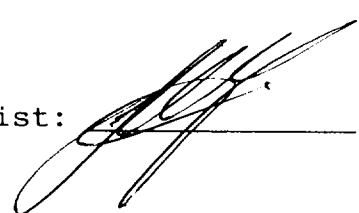
6	C72346		0.036	1230
7	C72347		0.001	35
8	C72348		0.001	35
9	C72349		0.041	1410
10	BLANK	Blank	0.001	35

11	C72350		0.001	35
12	C72351		0.001	35
13	C72352		0.001	35
14	C72353		0.001	35
15	C72354		0.001	35

16	C72355		0.001	35
17	C72356		0.001	35
18	C72357		0.001	35
19	C72358		0.001	35
20	CONTROL	Control	0.097	3330

21				
22				
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24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

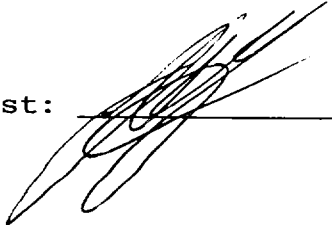
Hole Number: HP-95-256-232

Date Assayed: 11/16/95

Week/Tray: 95NOV13/AF033

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	CONTROL	Control	0.096	3290
2	C72989		0.002	70
3	C72990		0.001	35
4	C72991		0.001	35
5	C72992		0.001	35
6	C72993		0.001	35
7	C72994		0.001	35
8	C72995		0.001	35
9	C72996		0.001	35
10	C72997		0.001	35
11	C72332		0.001	35
12	C72333		0.001	35
13	BLANK	Blank	0.001	35
14	C72334		0.012	410
15	C72335		0.001	35
16	C72336		0.001	35
17	C72337		0.001	35
18	C72338		0.001	35
19	C72339		0.008	275
20	C72340		0.036	1230
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

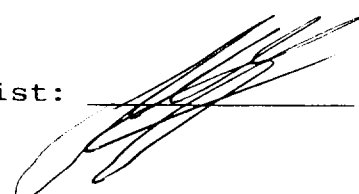
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-232
 Date Assayed: 11/16/95
 Week/Tray: 95NOV13/AF031

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72359		0.001	35
2	CONTROL	Control	0.097	3330
3	C72360		0.012	410
4	C72361		0.001	35
5	C72362		0.001	35
6	C72363		0.001	35
7	C72364		0.001	35
8	C72365		0.001	35
9	C72366		0.001	35
10	C72367		0.001	35
11	BLANK	Blank	0.001	35
12	C72368		0.001	35
13	C72369		0.001	35
14	C72370		0.001	35
15	C72371		0.004	135
16	C72372		0.001	35
17	C72373		0.012	410
18	C72374		0.002	70
19	C72375		0.012	410
20	C72376		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

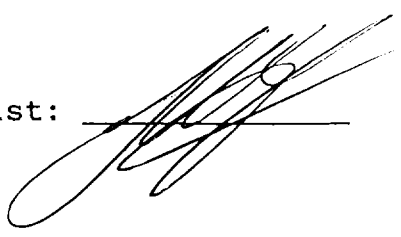
Hole Number: HP-95-257-232

Date Assayed: 11/16/95

Week/Tray: 95NOV13/AF040

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21075		0.001	35
2	DXR21076		0.006	205
3	CONTROL	Control	0.098	3360
4	DXR21077		0.135	4630
5	DXR21078		0.001	35
6	DXR21079		0.001	35
7	DXR21080		0.001	35
8	C72323		0.001	35
9	C72324		0.001	35
10	BLANK	Blank	0.001	35
11	C72325		0.001	35
12	C72326		0.001	35
13	C72327		0.001	35
14	C72328		0.001	35
15	C72329		0.001	35
16	C72330		0.001	35
17	C72331		0.001	35
18				
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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CERTIFICATE OF ANALYSIS

Exploration 5675-1603

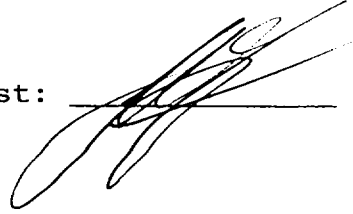
Hole Number: HP-95-257-232

Date Assayed: 11/16/95

Week/Tray: 95NOV13/AF039

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21066		0.005	170
2	DXR21067		0.001	35
3	DXR21068		0.028	960
4	DXR21069		0.001	35
5	DXR21070		0.001	35
6	DXR21071		0.001	35
7	DXR21072		0.008	275
8	PM-601	Control	0.320	10970
9	DXR21073		0.010	345
10	DXR21074		0.001	35
11	C72314		0.001	35
12	C72315		0.001	35
13	C72316		0.001	35
14	C72317		0.001	35
15	C72318		0.001	35
16	C72319		0.001	35
17	C72320		0.001	35
18	C72321		0.001	35
19	BLANK	Blank	0.001	35
20	C72322		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Py	D%	E%	NEA AM	F%						
144.0				msv	gn	chl	2m											.001			72506		4	Transition to UMF by 144 few chl sedis; generally msv		
169.0				bx	bk	tlc	1s						30						.001		507		4	Typ block sarp UMF br. lace RR=90; tale in g-c veins Sharp contacts to adjacent units	g-c veinlets - faintly and eq. py.	
223.0				bx	gn	chl	1E												.001		508			Coloritic - weak-pale alt UMF texture + pervasive chl filled fissures	UMIF - poss MUO weak-mod tale throughout	
228.0						gy	ank	1c											.001		509			Transition to FERB 223- Prog inc ank alt; pale 1x1/2" gv at 231 - T vein	233 grey carb barren	
233.0						gy	ank	1c					1						.003		510					
238.0				fg	bx	gn	ank	1fu					5						.004		511			Mottled FERB - faint of V. dis. Pale - green - green Weak-mod fu alt; Variditic	throughout; vfg diss py yellow lava	
243.0						gy	ank	1fu					1						.002		512					
248.0						gy	ank	1fu					1						.002		513			Prog stronger fuch toward Typ fuch alt; VPL	253; few veinlets; tr. py.	
253.0						gn	fu	1fu					3						.006		514					
258.0						gn	fu	1fu					3						.001		515			Typ bright green fuch - As 258; 1/2" rusty T veins	wattled; few T veinlets	
260.0						gn	fu	1fu					3						.001		516					
261.5						gy	abb	8f					3						.017		517			Sharp contacts to pyritic mg diss py; brd gv's	pale grey brown felsite	

261.5

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS					Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nom	B	Al	J/F	Qtz	C%	B%	C%	Py						D%	E%	MFA RA
263.5				bx	gn	fn	1Fu					1				.5		.004	72518		S	Typ. FeRB. Bx.	
267.5				msv	yb	alb	8F					2				2		.008	519		S	Pale yellow-brown sf.;	diss py; few T veinlets
272.0				bx	gn	fn	1Fu					1				.5		.001	520		S	UMF text. FeRB. bx	
276.0					yb	alb.	8F					2				2		.004	521		S	As 267.5, low T veinlets	+ diss py
281.0				bx	bk	ank	1ct											.001	522		S	Prog weaker alt. towards	276.
286.0				bx	bk	ank	1ct											.001	523		S	Weak ank; typ UMF	Bx texture.
307.0				bx	bk	talc	1t											.001	524		G	Typ black chl-talc UMF	bx; minor gouge slips
317.0						ank	1t											.001	525		G	Weak snowflake ank	porps in black UMF
347.0				bx	bk	talc	1t											.001	526		G	Typ black UMF Bx, low	gouge slips; RQ=80
350.0				bx	bk	talc	1t											.001	527		S	As 347	
353.7		M	fg	msv	rd	hem	8Fp					5				5		.001	528		S	Brick red porphyry, well mixed	w diss py; weak stock qv's
355.0						chl	1t											.001	529		S	Chloritic talc UMF, as	347
356.0			fg	msv	rd	hem	8Fp					10				3		.002	530		G	As 353.7	
361.0						chl	1t											.001	531		S	weakly chloritic talc UMF	bx
393.0				bx	bx	talc	1t											.001	532		G	Typ black chl-talc UMF bxg.	

393.0

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #			Width	T	COMMENTS 1	COMMENTS 2	
		Com	Gra	Text	Co	Alt	Nam	B	A1	J	A2	Qz	CZ	B%	C%	Py	D%	E%	MFA	F%					
398.0																				72533			S	Prog me ank toward porp.	
401.0			mg	msv	pk						3					5			.015	534			S	Pink folds porp, diss py, qtz, chl filled fracts	
406.0				msv	qz						5					.5			.005	535			S	Sts carb-sil alt'n; 2" qz w bleached margin	
412.0											2					.5			.001	536			S	As 405, has qtz, dry	
417.0											2					.5			.001	537			S	Trace to top, ank ank	UMF
455.0					bx	bk													.001	538			G	Talc UMF. Bx weak-mod ank alt'n; wispy sf <1" frag throughout	
460.5					bx	bk					1					1			.001	539			S	Prog me ank adjacent to Porp.	Porp.
465.0			mg	msv	pk						3					5			.052	540	4.5		S	Siliceous pink, stockwork and T veinlets, diss py, chl, fracts	
468.7			mg	msv	pk						3					5			.030	541	3.7		S	As 465, 1/2" T veins w cg py.	
474.0					bx	bk	talc				1					1			.001	542			S	Ank unit adjacent to Porp, wk fract.	
548.0					bx	bk	+alc				1					1			.016	543			G	Gen typ black talc-chl UMF, weak mottled ank RQ=80; bx w qtz + chl filled fracts	
607.0					bx	bk	talc				1					2			.004	544			G	Typical; interval of shearing 548-560 at 40°C. Cg py 588-592 matrix	
685.0					bx	bk	talc				1					1			.001	545			G	Typical; RQ=90; 607-610 wispy sf 620-640 few 1" white qtz	
735.0					bx	bk	talc				1					1			.001	546			G	Weak-mod chloritic talc UMF Bx RQ=95; few q-c + shd intervals	
785.0					bx	bk	talc				1					1			.001	547			S	Typ as above; blue tinge to q-c veinlets ans w fracts 770-2" barren q-c	

405-1027
1012
1/2

785.0		ROCK DESCRIPTION						STRUCT.				MINERALS						SPL #			COMMENTS 1		COMMENTS 2				
DIST	Id	Com	GrS	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Ry	D%	E%	NFAW	F%	Spl #	Width	T				
819.0				bx	bk	talc	lt					1				1			.001		72548			Tip as above; lesser chl; no talc towards 819			
825.0				bx	bk	talc	ltc					20				1			.001		549			Trans to weak ank alb and veining - irreg - barren - oxid			
830.0				bx	bk		ltc					20				1			.001		550			2-6" wide - to py m. talc			
835.0				bx	bk		ltc					10				1			.001		551			Irreg and T veins < 2" - mod mottled ank			
840.0				bx	bk		ltc					5				1			.001		552			As above fewer veins			
845.0				bx	bk		ltc					2				1			.006		553			lesser veins			
850.0				bx	gn	talc	lc					2				1			.003		554			Mod-strong mottled ank - ; talc still through matrix; mottled chl.			
855.0				bx	gn	ank	lc					3				1			.001		555			weak Fe ch			
860.0				bx	gn	ank	lc					10				1			.003		556			Mod ank; few T veinlets, as 850			
865.0				bx	gn	ank	lc					30				1			.001		557			Several < 1" T veins, as 850; no Fe ch			
870.0				bx	gn	ank	lc					20				1			.001		558			Bx and T veinlet - barren - to py m matrix			
875.0				bx	gn	ank	lc					2				1			.001		559			few veinlets			
880.0				bx	gn	ank	lc					2				1			.001		560			few veinlets			
886.0				bx	gn	ank	lc												.001		561			Plus talc J1			
892.0				bx	gn	ank	lc					3							.001		562			Fe 200 - talc near matrix			
897.0				bx	gn	ank	lc					5							.001		563			Irreg q's to 2" - dry			
902.0				bx	gn	ank	lc					5							.025		564			Irreg q's			

ROYAL OAK ANALYTICAL LABORATORY

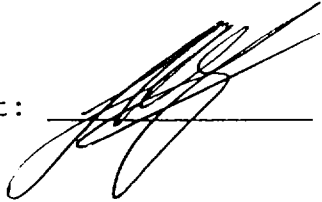
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-250
 Date Assayed: 10/30/95
 Week/Tray: 95OCT23/AF043

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72528		0.001	35
2	C72529		0.001	35
3	BLANK	Blank	0.001	35
4	C72530		0.002	70
5	C72531		0.001	35
6	C72532		0.001	35
7	C72533		0.001	35
8	C72534		0.015	515
9	C72535		0.005	170
10	CONTROL	Control	0.097	3330
11	C75236		0.001	35
12	C72501		0.001	35
13	C72502		0.001	35
14	C72503		0.001	35
15	C72504		0.001	35
16	C72505		0.001	35
17	C72506		0.001	35
18	C72507		0.001	35
19	C72508		0.001	35
20	C72509		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-250-37

Date Assayed: 10/26/95

Week/Tray: 95OCT23/AF034

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72546		0.001	35
2	C72547		0.001	35
3	C72548		0.001	35
4	C72549		0.001	35
5	C72550		0.001	35
6	C72551		0.001	35
7	CONTROL	Control	0.096	3290
8	C72552		0.001	35
9	C72553		0.006	205
10	C72554		0.003	105
11	C75088		0.001	35
12	C75089		0.004	135
13	C75090		0.001	35
14	BLANK	Blank	0.001	35
15	C75091		0.001	35
16	C75092		0.001	35
17	C75093		0.001	35
18	C75094		0.002	70
19	C75095		0.001	35
20	C75096		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

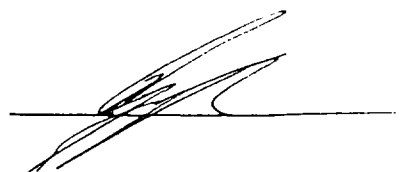
Hole Number: HP-95-250-37

Date Assayed: 10/26/95

Week/Tray: 95OCT23/AF039

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72564		0.025	855
2	C72565		0.004	135
3	C72566		0.001	35
4	C72567		0.001	35
5	C72568		0.001	35
6	C72569		0.015	515
7	C72570		0.001	35
8	CONTROL	Control	0.100	3430
9	C72571		0.156	5350
10	C72572		0.031	1060
11	C72573		0.001	35
12	C72574		0.001	35
13	C75079		0.013	445
14	C75080		0.148	5070
15	C75081		0.001	35
16	C75082		0.004	135
17	C75083		0.004	135
18	C75084		0.001	35
19	BLANK	Blank	0.001	35
20	C75085		0.001	35
21	C75086		0.001	35
22	C75087		0.001	35
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

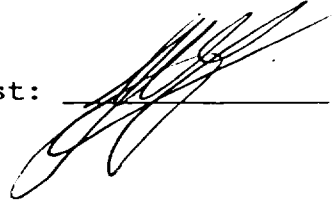
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-250
 Date Assayed: 10/30/95
 Week/Tray: 95OCT23/AF040

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72519		0.008	275
2	C72520		0.001	35
3	C72521		0.004	135
4	C72522		0.001	35
5	C72523		0.001	35
6	C72524		0.001	35
7	C72525		0.001	35
8	C72526		0.001	35
9	C72527		0.001	35
10	CONTROL	Control	0.099	3390
11	C72555		0.001	35
12	C72556		0.003	105
13	C72557		0.001	35
14	C72558		0.001	35
15	C72559		0.001	35
16	C72560		0.001	35
17	C72561		0.001	35
18	C72562		0.001	35
19	C72563		0.001	35
20	BLANK	Blank	0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-250
 Date Assayed: 10/26/95
 Week/Tray: 95OCT23/AF036

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72537		0.001	35
2	C72538		0.001	35
3	C72539		0.001	35
4	C72540		0.052	1780
5	C72541		0.030	1030
6	C72542		0.001	35
7	C72543		0.016	550
8	C72544		0.004	135
9	CONTROL	Control	0.101	3460
10	C75245 25		0.001	35
11	C75210		0.003	105
12	C75211		0.004	135
13	C75212		0.002	70
14	C75213		0.002	70
15	C75214 25		0.006	205
16	BLANK	Blank	0.001	35
17	C72515		0.001	35
18	C72516		0.001	35
19	C72517		0.017	585
20	C72518		0.004	135
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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PAMOREX

PROJECT: *Night Hawk - Hopson*

Logged By: *Pharson*

Refer Harvey.

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CLAIM
12583

CAT

Date: *23/10/1995*
Page *1* of *6*

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
<i>HP95-251 ANP</i>	<i>5975.71</i>	<i>16277.86</i>	<i>10939.14</i>	<i>1000.7</i>				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
<i>0</i>	<i>34.0</i>	<i>5.0</i>	<i>800</i>	<i>35.2</i>	<i>4.9</i>									
<i>200</i>	<i>34.0</i>	<i>4.9</i>	<i>1000</i>	<i>35.2</i>	<i>4.8</i>									
<i>400</i>	<i>34.7</i>	<i>4.9</i>												
<i>600</i>	<i>35.0</i>	<i>5.0</i>												

DIST	Id	ROCK DESCRIPTION					STRUCT.		MINERALS				METALLIC				Spl #	Width	T	COMMENTS 1	COMMENTS 2		
		Com	Grs	Text	Co	Alt	Nam	B	A	GANGUE		METALLIC		Py	D%	E%						NFA%	F%
										A2	A1	A%	B%										
<i>52.5</i>						<i>CAS</i>													<i>Drilled oct 20-22, 1995.</i>				
																			<i>Contractor: NDS Drilling TO: JIMMINS, O.N.T.</i>				
																			<i>SIZE OF CORE: BQ</i>				
																			<i>CORE STORED: ROYAL OAK MINES INC.</i>				
																			<i>SCHMIDTCHER CORE SHACK</i>				
<i>105.0</i>		<i>SS</i>	<i>fg</i>	<i>msv</i>	<i>gy</i>	<i>sil</i>	<i>2m</i>			<i>2</i>					<i>.001</i>		<i>576</i>		<i>Group in clay outburst</i>				
																				<i>Silicane msv-pass pill make vol. v blocky. RQ = 50%</i>			
																				<i>Vuggy q-s near top, blocky core w/ clay sections</i>			
																				<i>6-12" long throughout</i>			
																				<i>Low grade of silicates at 22</i>			
<i>145.0</i>		<i>SS</i>	<i>fg</i>	<i>msv</i>	<i>gy</i>	<i>sil</i>	<i>2m</i>			<i>2</i>					<i>.001</i>		<i>577</i>		<i>As 105 clay, RQ = 50%</i>				
																				<i>more red staining</i>			
<i>193.0</i>		<i>SS</i>	<i>fg</i>	<i>msv</i>	<i>gy</i>	<i>sil</i>	<i>2m</i>			<i>2</i>					<i>.001</i>		<i>578</i>		<i>As 105; few blocky intervals</i>	<i>RQ = 70</i>			
																				<i>Transition to typ UMF by</i>	<i>195</i>		
																				<i>Py in selv at 189</i>			
<i>274.0</i>		<i>S</i>	<i>fg</i>	<i>msv</i>	<i>gy</i>	<i>sil</i>	<i>1E</i>			<i>1</i>					<i>.001</i>		<i>579</i>		<i>Typ grey sil. RQ = 70, see</i>	<i>mineralogical and geochem</i>			
																				<i>195-198 m 700</i>	<i>184</i>		
																				<i>100% mineralogical and geochem</i>	<i>195-198 m 700</i>		

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	P	D%	E%	N	F%								
650.0				bx	bk	talc	1E																	590			Typ black UMF bx	
655.0				shd		ank	1ct																	591			Sheared UMF bx-weak ank	1" Fel bands
660.0				shd		ank	1ct																	592			As 655; 3" pink Fel-QFP	
665.0				shd			1E																	593			As 655- weaker calc- 3" shd local diss py	
670.0				bx		talc	1E																	594			Talc UMF bx	
675.3				bx		talc	1E																	595			Typ as 670	
679.8		M	mg	msv	pk	sil	8fp																	596			Pale pink-orange (salm) fract's - bld margins - ank-dbl	QFP: few q's in chl diss py
685.0				bx	gn		1ct																	597				
690.0				bx			1ct																	598			1/2" T vein chl veins	
695.0				bx	gn		1ct																	599			chl veins	
700.0				bx	gn		1ct																	72600			Few T veins; me ank	
706.5				bx			1c																	601			Prog me ank - weak purple colour; diss py	
711.0				bx	wh	sil	8fp																	602			creamy white - pale brown - siliceous - sta fractured - weak py	
716.0							8fp																	603				
721.0							8fp																	604			1" T vein w pyritic margins; adjacent to unknown q's	
726.0							8fp																	605			1" T vein w pyritic margins; 90° CA.	
729.0							8fp																	606			Pyritic chl fractures	
733.0				bx	wh	sil	8fp																	607			Sharp contact at 733	

847.0-863.8
.074/16.8
825-863.8 .042/38.8

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #		Width	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	CZ	B%	C%	Py	O%	E%	NFA Py	F%					
810.0				bx		fu	lfu				5					-			.001		72624			Typ. dry FCRB. 4" barren	T. vein at 60° CA. at 808.5
815.0						talc	lfu				2					-			.001		625			Patches talc frags	
820.0						fu	lfu				5					2			.006		626			FCRB bx, irreg. and T. veins	fg. diss. py.
825.0						talc	lfu				2					-			.001		627			Patches talc frags; few	T. veins
829.0				bx		fu	lfu				10					-			.052		628	4.0		folded and bnd. iron q's	to 4-6" across.
834.0		M	mg	msv	gy	alb	8f				5					2			.008		629	5.0		Sharp contact to grey-brown	felsite aka Hopsan
838.0						gy	8f				2					2			.018		630	4.0		Stockwork fractures w/ qtz	and chlorite, and T
842.0				bx		gy	8f				50					1			.001		631	4.0		Qtz breccia interval;	gangue slope at 0-20° CA
847.0				msv		lb	8f				3					5			.016		632	5.0		Interval is low angle fault	fol.
852.0							8f				5					5			.053		633	5.0		Transition grey quartz veins	micro tal. mg diss. py
857.0							8f				10					5			.042		634	5.0		Diss. mg. py. q's 1-3"	
861.0							8f				5					5			.062		635	4.0		1/2-2" q's; mg diss. py.	
863.8		M	mg	msv	yp	alb	8f				3					2			.184		636	2.8		Qtz + chl. filled fract.	
868.0				bx		gn	lfu				2					-			.006		637			Typ. FCRB bx. weak folk	
868.8				msv		rd	8fp				2					5			.010		638			Narrow interval, red (red); mg	diss. py.
873.0				bx		gn	lfu				2					-			.001		639			Dry FCRB; talc frags; few	T. veins.
876.0				bx		gn	lfu				2					-			.008		640			As 873	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	Qtz	C%	B%	C%	P	D%	E%	NEA A1	F%						
881.0				bx	bk		lcc						5					-		.001	72641		S	Sharp contact to talc UMF -	mottled ank porp.	
905.0				bx	bk		lcc						5					-		.001	642		G	Typ UMF bx - few veins in	mottled porp ank.	
910.0				bx	bk		lcc						5					-		.001	643		S	As 905: weak fu adjacent to 8fp		
913.2		M	mg	msv	rd		8fp						2			2			.020	644		S	Rd-orange QFP, few chl -	qtz veinlets - stockwork		
919.0				bx	gn	fu	lc						2					-		.001	645			Group mass - bx - crnk fu		
924.0				bx	gn	fu	lc						2					-		.001	646			As 919:		
929.0				msv	rd		8fp						3			2			.020	647			Red pink, FP, chl + qtz veins	diss mg-cq py; lt 925-926		
933.0				bx			lct						1					-		.001	648			Prog weaker ank		
938.0				bx			lct						1					-		.010	649			As 933		
954.0				msv		chl	lc						1					-		.001	72650			Massive, chlorite v. hard -	poss 2m; mottled texture.	
1000.7				mott		talc	lt						3			1			.002	72575			Typ black - w/ chlorite	and ank spots -		
END																								UMF bx		
																								990-1000 - barren w/	veins at 0° CA	
																								Cq py ass w/ veins &	shears.	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS											Spl #	Width	T	COMMENTS 1	COMMENTS 2																
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC																											
												Qtz	C%	B%	C%	Q	D%	E%	NEA PM	F%																							
739.0		M		msv	gn	ark	lc							1																72608			massive mottled snowflake ark; chl filled fract.										
742.5		M		msv	gn	ark	lc							1																609			As 739: rusty fract.										
745.0		M	fn	msv	gn	sil	8fp							3						.5										610			As 745: less siliceous - mc mottled chlorite										
749.0							8fp							3						.5											611			As 749: rusty fract.									
754.0							1ct																									612			As 754: trans to FCBB								
758.0				bx	bk	ark	1ct																									613			As 758: trans to FCBB								
764.0				bx		fn	1ct							1																			614			Weak-med fuch alt. through med ark alt'd UMF bx few T veinlets < 1/2"							
769.0						fn	1ct							2																				615			As 764: talc trace						
774.0						fn	1ct							1																					616			As 774: weaker fuch					
779.0						fn	1ct							1																						617			As 779: T veinlets				
784.0						fn	1ct							5																						618			4x 1/2" T veinlets, lined w py				
789.0				bx		fn	1ct							2																							619			As 789: 12" 8f 787-788: pyritic			
794.0				bx		fn	1ct							1																							620			As 794: transition to FCBB			
799.0				bx	gn	fn	1fn							2																								621			Tip bright green FCBB alt'd UMF, few clear qz's + T veins		
804.0							1fn							2																								622			As 799		
805.0						pk	8fp							5																									623			6" pink qtz: pyritic, few clear qz's.	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS					Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Grn	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	O%	CZ	B%						C%	D%	E%	MFA
320.0				bx	gy	ank	ltc						2				-		.001		72580		G	Subtle change to inc pervasive, and weak-mud msk alth - RQ > 90; pale grey colour, wispy qtz, Typ UMF bx texture	
395.0		S		lx	ok	tc	ltc						1				-		.001		581		G	Prog. over and inc talc; typ. block UMF bx RQ > 95; soft, weak local is. #341 378 - atz. rad bx w egg y - otherwise barren. 380-395 transition to leucog. msk MVO	
415.0				msv	gn	chl	2m						1				-		.001		582		G	Narrow interval leucog. brog filled fract. - gradational contacts over 5' to adjacent UMF units	msv MVO - few qtz + chl
512.0				bx	bk	chl	lt						-				-		.001		583			Chl - block UMF bx, stq bx weak weak chl & matrix of black-green colour re chl text w fringe 2-3" fringe - RQ > 90 constant.	
542.0						bk	talc	lt					-				-		.001		584			Typ block talc UMF bx; local spinifex text	
580.0						gn	chl	lt					-				-		.001		585			Chlorite pale green talc UMF bx; bx veining;	
585.0		M		bx	gn	chl	2pbx						-				-		.001		586			Chlorite pillow v. - pillow breccia - epi patches	
591.0		M		bx	gn	chl	2pbx						2				2		.003		587			Stq. bx w qtz, stockwork py 587-589	
597.0		M		bx	gn	chl	2pbx						-				-		.005		588			Stq. bx	
627.0		M	fg	msv	gn	chl	2m						-				-		.006		589			msv MVO - few qtz veinlets; stq chl throughout	

ROYAL OAK ANALYTICAL LABORATORY

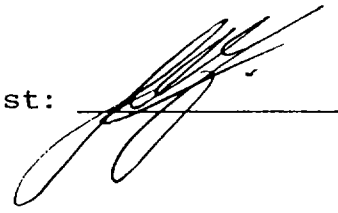
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-251
 Date Assayed: 10/30/95
 Week/Tray: 95OCT23/AF060

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72576		0.001	35
2	BLANK	Blank	0.001	35
3	C72577		0.001	35
4	C72578		0.001	35
5	C72579		0.001	35
6	C72580		0.001	35
7	C72581		0.001	35
8	C72582		0.001	35
9	C72583		0.001	35
10	C72584		0.001	35
11	C72612		0.001	35
12	C72613		0.001	35
13	C72614		0.001	35
14	C72615		0.001	35
15	C72616		0.001	35
16	C72617		0.001	35
17	C72618		0.001	35
18	CONTROL	Control	0.096	3290
19	C72619		0.001	35
20	C72620		0.024	825
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

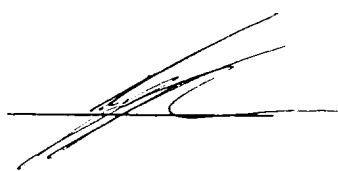
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-251
 Date Assayed: 10/30/95
 Week/Tray: 95OCT30/AF001

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72621	Blank	0.001	35
2	BLANK		0.001	35
3	C72622		0.001	35
4	C72623		0.001	35
5	C72624		0.001	35
6	C72625		0.001	35
7	C72626		0.006	205
8	C72627		0.001	35
9	C72628		0.052	1780
10	C72629		0.008	275
11	C72630		0.018	615
12	C72631		0.001	35
13	C72632		0.016	550
14	C72633		0.053	1820
15	C72634		0.042	1440
16	CONTROL	Control	0.100	3430
17	C72635		0.062	2130
18	C72636		0.184	6310
19	C72637		0.006	205
20	C72638		0.010	345
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

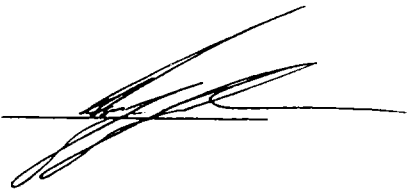
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-212-251
 Date Assayed: 10/31/95
 Week/Tray: 95OCT30/AF003

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C75743		0.001	35
2	C75744		0.014	480
3	BLANK	Blank	0.001	35
4	C75745		0.001	35
5	C72639		0.001	35
6	C72640		0.008	275
7	C72641		0.001	35
8	C72642		0.001	35
9	C72643		0.001	35
10	C72644		0.020	685
11	C72645		0.001	35
12	C72646		0.001	35
13	C72647		0.020	685
14	CONTROL	Control	0.098	3360
15	C72648		0.001	35
16	C72649		0.010	345
17	C72650		0.001	35
18				
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-251-252

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF009

251

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72575		0.002	70
2	C72651		0.004	135
3	CONTROL	Control	0.104	3570
4	C72652		0.001	35
5	C72653		0.002	70

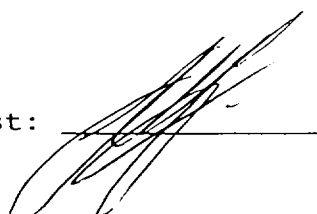
6	C72654		0.001	35
7	C72655		0.014	480
8	C72656		0.007	240
9	BLANK	Blank	0.001	35
10	C72657		0.001	35

11	C72658		0.004	135
12	C72668		0.002	70
13	C72669		0.001	35
14	C72670		0.001	35
15	C72671		0.001	35

16	C72672		0.001	35
17	C72673		0.011	375
18	C72674		0.020	685
19	C72675		0.001	35
20	C72676		0.001	35

21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-251-108

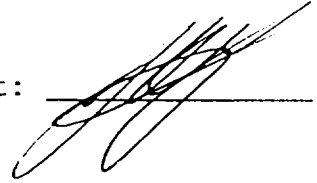
Date Assayed: 10/30/95

Week/Tray: 95OCT23/AF054

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72585		0.001	35
2	C72586		0.001	35
3	C72587		0.003	105
4	C72588		0.005	170
5	BLANK	Blank	0.001	35
6	C72589		0.006	205
7	C72590		0.001	35
8	C72591		0.001	35
9	C72592		0.001	35
10	C72593		0.001	35
11	C74215		0.003	105
12	C74216		0.001	35
13	C74217		0.001	35
14	C74218		0.001	35
15	CONTROL	Control	0.101	3460
16	C74219		0.001	35
17	C74220		0.001	35
18	C74221		0.022	755
19	C74222		0.001	35
20	C74223		0.001	35
21	C74224		0.008	275
22				
23				
24				

251

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

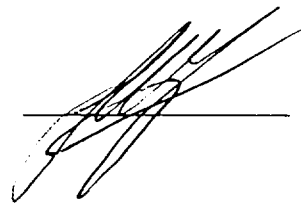
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-251
 Date Assayed: 10/30/95
 Week/Tray: 95OCT23/AF057

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72594		0.004	135
2	C72595		0.001	35
3	C72596		0.001	35
4	CONTROL	Control	0.098	3360
5	C72597		0.001	35
6	C72598		0.001	35
7	C72599		0.001	35
8	C72600		0.001	35
9	C72601		0.001	35
10	C72602		0.023	790
11	C72603		0.001	35
12	C72604		0.001	35
13	C72605		0.004	135
14	C72606		0.001	35
15	C72607		0.001	35
16	C72608		0.001	35
17	BLANK	Blank	0.001	35
18	C72609		0.002	70
19	C72610		0.003	105
20	C72611		0.024	825
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS						Spl #			Width	T	COMMENTS 1	COMMENTS 2				
		Com	Grn	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Py	D%	E%	N					FF	F%		
212.0		M		msv	bn		8fp					5				2			.014			72655				Green-brown qfp - stockwork margins to pale brown - tr grey-brown; chl zits; fmg	veinlets - stg bleached py - away from veins is diss py; mottled text
216.0				msv	bn		8fp					5				2			.007			656				As 212	
221.0				bx	bn		lct					2				-			.001			657				Wax-mud and UHF bx; blocky limonite stn and fmg; chl zits	
249.0				bx	bn		lct					2				-			.004			658				Gradual inc. in axk and fu tr diss py	over interval few veinlets
254.0				bx	gn		lfn					3				.5			.001			659				1x1" T vein; tr diss py	
259.0							lfn					2				.5			.001			660				Barron 1/2" T vein	
264.0							lfn					5				.5			.001			661				few T veinlets; tr py	
269.0							lfn					1				-			.001			662				lesser fu; grey carb	
272.0							lfn					1				-			.001			663				lesser fu grey carb	
274.0				bx	gn		lfn					1				1			.001			664				Qtz veinlets; diss py	
276.3				msv	bn		8f					5				.5			.001			665				Pale creamy brown, well mixed stockwork veinlets - fuch zits	w. diss py sharp contacts
282.0				bx	gn		lfn					2				1			.001			666				Weak fu; grey carb	
287.0							lfn					2				1			.001			667				Weak fu - GRB	
292.0							lfn					1				1			.002			668				Limonite stain; dat 292	
297.0							lfn					1				.5			.001			669				Typ.	
302.0				bx	gn		lfn					10				.5			.001			670				1x2" barren T vein at 300	

312-320.5
.016/8.5

302

DIST	Id	ROCK DESCRIPTION						STRUCT. B/S J/F	MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Grs	Text	Co	Alt	Nom		B	Al	J	A2	Qtz	C%	B%	C%	Py	D%						E%	NFA F%	F%
307.0				lx	gn		lfu					2				.5			.001		72	67.1			Typ - shd. fr. bx.	
312.0				bx	gn		lfu					2				.5			.001			672			As 307	
316.0				msv	rd	sil	8fp					10				.5			.011			673	4.0		Orange-pink porp. streak veins diss. py. bleached margins to veins	
320.5				msv	rd	sil	8fp					5				.5			.020			674	4.5		less veining; diss. py.	
325.0				bx	gn		lfu					2				.5			.001			675			Typ. fr. carb bx - limonite stained	
330.5				bx			lfu					5				.5			.001			676			few T veins	
335.0				bx			lfu					3				.5			.001			677			Typ.	
341.0				bx			lfu					5				.5			.001			678			Weak fr. - brown-grey carb; 1x 1" T vein	
346.0				bx			lfu					2				-			.001			679			Weak fr. - limonite stained	
351.0				bx	gn		lfu					2				.5			.001			680			Typ. lower fr. to 356	
356.0				bx	gn		1ct					3				.5			.001			681			Grey talc carb bx; minor fr. adjacent to qv's	
361.0				bx	gn		1ct					3				.5			.001			682			As 356	
381.0				bx	gn		1tc					3				-			.001			683			frag less ank; bx + qv's - barren	
398.5					gn	chl	lt					3				-			.001			684			Chlorite talc VHF bx	
399.0				msv	rd		8fp					-				-			.001			685			Red box massive barren fr. - no veins; all py.	
515.0				bx	gn	chl	lt					-				-			.001			686			Chloritic VHF breccia - dry - tr. qv. py; pale grey-green qtz-chl fill fractures	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

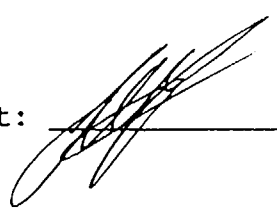
Hole Number: HP-95-214-252

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF011

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C74634		0.004	135
2	C74635		0.008	275
3	C74636		0.001	35
4	C74637		0.008	275
5	C74638		0.006	205
6	C74639		0.001	35
7	C74640		0.007	240
8	C74641		0.001	35
9	C74642		0.001	35
10	C72685		0.001	35
11	BLANK	Blank	0.001	35
12	C72686		0.001	35
13	C72687		0.001	35
14	CONTROL	Control	0.100	3430
15	C72688		0.001	35
16	C72689		0.001	35
17	C72690		0.001	35
18	C72691		0.001	35
19	C72692		0.001	35
20	C72693		0.001	35
21	C72694		0.001	35
22	C72695		0.001	35
23	C72696		0.001	35
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

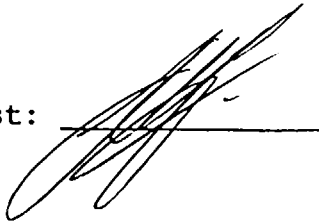
Hole Number: HP-95-251-252

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF009

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72575		0.002	70
2	C72651		0.004	135
3	CONTROL	Control	0.104	3570
4	C72652		0.001	35
5	C72653		0.002	70
6	C72654		0.001	35
7	C72655		0.014	480
8	C72656		0.007	240
9	BLANK	Blank	0.001	35
10	C72657		0.001	35
11	C72658		0.004	135
12	C72668		0.002	70
13	C72669		0.001	35
14	C72670		0.001	35
15	C72671		0.001	35
16	C72672		0.001	35
17	C72673		0.011	375
18	C72674		0.020	685
19	C72675		0.001	35
20	C72676		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

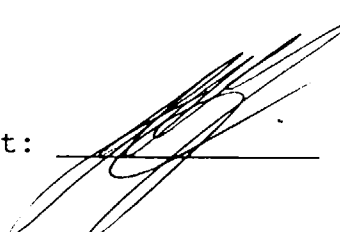
Hole Number: HP-95-252

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF002

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72659		0.001	35
2	C72660		0.001	35
3	C72661		0.001	35
4	C72662		0.001	35
5	C72663		0.001	35
6	BLANK	Blank	0.001	35
7	C72664		0.001	35
8	C72665		0.001	35
9	C72666		0.001	35
10	C72667		0.001	35
11	C72677		0.001	35
12	C72678		0.001	35
13	C72679		0.001	35
14	C72680		0.001	35
15	C72681		0.001	35
16	CONTROL	Control	0.103	3530
17	C72682		0.001	35
18	C72683		0.001	35
19	C72684		0.001	35
20	C72684			
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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PATMOREX

PROJECT: NIGHTHAWK LAKE
Entered: HOPSON

Logged By: K. Farrell
by

PAGE 1

CLAIM
12583

CAT

Date: 10/28/1995
Page 1 of 8

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP95-253	5821.24	15910.54	10932.7	1000.0				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50	800	355	48									
200	345	46	1000	355	48									
400	350	47												
600	352	48												

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Grn	Text	Co	Alt	Nom	B	A	J	A2	Az	B%	C%	Dz						D%	E%	NFA	F%					
52.0																											CONTRACTOR: NDS DRILLING, TIMMINS, D.N.T. DATE DRILLED: OCT 25-28, 1995 CORE SIZE: 80 CORE STORED: ROYAL OAK MINES INC. SCHMACKER CORE SHACK		
150.0		M	FG	VAR	G-1	SIL	ZV																	72701	98.0G		- minor qtz carb. infillings; v. waxy with many carb. pillow selvages marked by particles; rubble core in areas of chlorite and epidote infillings; minor chlorite infillings fragments of 30-40% TCA; qtz - carb. selvage @ 8-10 TCA no. 20 carb. by assoc. = qtz. = 140.5 to 142.5 chlorite bands; less carb. infillings		
236.0		M	FG	MSV	GG	ANK	Zm																		72702	86.0G		- qtz calcite veins @ 30-40 TCA, 1/2-1" wide; traces of carb; patchy sil alteration with fossil ANK alteration; 1/2" shear - rich section (massive) from 204.5 to 216.0; ribbon chlorite infillings	
335.0		M	FG	MSV	BR	TE	IE																			72703	99.0G		- mag sil alter up to 200.0; up to 320.0 - magnetic green-bk-ll-alk. in central zone of mag. but less in mag. zone; also magnetic; calcite-filled veins and veins were calcite to some extent; @ 30 TCA, carb. and sil. infillings; 300-320 mag. zone - sil.

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2											
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE				METALLIC																	
														Qtz	Cz	B%	C%	Py	D%						E%	NFA	F%								
364.1		M	F	MSV	GG	FLCH	1E																							.001	72704	29.9 G	- calcite veins upto 1/4" @ 20-30 TEA; calcite alt'n string from 335 to 344; chlorite infilling fractures from 344 to 364; uniform massive green-gray UM		
426.3		M	F	MSV	GN	ANK	2m																							.002	72705	62.2 G	- green-grey leucocrs up to 395 (Fe-dioctite); CHL infillings of fractures; patches calcite infilling assoc. w/ chlorite; calcite alt'n increases toward end of interval		
448.0		M	F	VRF	GG	CCL	2sh																							.001	72706	21.7 G	- sheared rubble core at beginning of interval; calcite infillings of shear fractures @ 40-50 TEA; subh py in fault rock with subhedral py or chlorite infill from 435-447.5		
528.0		M	F	MSV	GG	CCL	1E																								.001	72707	80.0 G	- typical green-grey chlorite alt'd UM; carb infilling fractures; co mottled ank; chlorite along margins of fractures; rubble section near end of interval; RQD 90	
535.3		M	F	MSV	BK	TCL	1E																							.001			- rubble core at beginning of interval; calcite infilling fractures		
540.3		M	F	MSV	GR	TCL	1E																							.006	72708	5.0 E	- typical talcous alt'n of KAM w/ calcite infilling frac; RQD 90		

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #			Width			T	COMMENTS 1	COMMENTS 2
		Com	Gra	Text	Co	Alt	Nom	B	A	J	F	GANGUE				METALLIC												
												Qtz	CZ	B%	C%	Py	D%	E%	NE	F%	AN							
543.3		M	F	FP	BN	ANK	8fp												.056	727.89	3.0	C	-gray-brown FP. in calcite (+minor chl) veins @ 30° TCA; sharp contacts to UM on both sides					
548.3		M	F	MSV	GR	ANK	1E												.006	727.10	5.0	C	-stringy to patchy ANK alt. up to 10% of host; 3/4" calcite t-vein @ 80° TCA @ 545.4					
553.6		M	F	MSV		ank	1E												.002	727.11	5.3	C	-green-black MSV, 1.0M to up to 10% stringy to patchy ANK alt.; weakly developed porphyroblastic texture of ANK alt. towards end of interval; minor subh py in matrix					
558.6		M	MG	FP	RB	SIL	8fp	Q80			3				Tr				.007	727.12	5.0	C	-tensional qtz veins @ 80° TCA to sub py and minor sphalerite(?); ghost plagioclase phenocrysts; UM incl. (554.3-554.8)					
564.3		M	F	FP	RB	SIL	8fp				1				Tr				.008	727.13	5.7	C	-very thin qtz veins @ 20° TCA - rubby core 554.2, trace of py assoc. w chloritic(?) patches					
564.3		M	F	MSV	GR	ANK	1E												.001	727.14	5.0	C	stringy to patchy ANK alt. up to 10% of host; ank py in matrix					
645.1		M	F	MSV	GG	ANK	1E												.001	727.15	75.8	G	-progressive ANK alteration in patches and stringers with weak development of porphyroblastic texture; end of interval marked by thin zone of embedded ANK xls; ank py in matrix; RPD 90					

756.9-776.4
.096/19.5

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS							Spl #			Width	T	COMMENTS 1	COMMENTS 2										
		Com	Gr	Text	Co	Alt	Nam	B/S J/F			GANGUE				METALLIC			Py	D%	Cpy					E%	NEAF%								
								B	A1	J	A2	Qtz	CZ	B%	C%	Py	D%										Cpy	E%	NEAF%					
748		M	VFG	MSV	AG	ANK	Ifu																										spotty increasing Fe altn to end of interval; qcv 2 1/2" wide @ 747.3-80°TcA	
753		M	MFG	BX	GN	ANK	IC																										qtz veinlets 1/8-1/4" wide, one @ 20°TcA, 2 @ 80°TcA w/ ANK along contacts (T); limonite stain from 750.2-751.5	
756.9		M	MFG	AG	GN	ANK	IC																										qtz pod from 757.2-758.5; qcv @ 755.4 (1/8" wide)	
761.9		M	FG	MV	OG	SIL	8f	Q80																										qtz (T) veins 1/4"-1" w/ cpy blebs near margins; small section of Ifu from 761-761.4'
766.9		M	FG	MSV	OG	SIL	8f	Q70																										anh to ent py in matrix; qtz veins (T)
771.9		M	FG	MSV	OG	SIL	8f	Q70																										py in matrix increasing towards end of interval; py conc in fractures at end of interval; T qtz veins up to 1"; 769.3-770.1' → Ifu
776.7		M	FG	MSV	OG	SIL	8f	Q80																										patchy py in matrix and conc. along fractures
781.4		M	FG	MSV	AG	ANK	Ifu	Q70																										limonite stain from 777.1-777.7', 779.1 to 780.6 and 781-781.4; RQD 80
785.0		M	FG	MSV	AG	ANK	Ifu	Q30																										mottled to spotty fuchsite altn; limonite stain from 781.4-781.7

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2		
								B/S		J/F		GANGUE				METALLIC												
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	CZ	B%	C%	Py	D%	Cpy	E%	NFA	F%						Au	
790.		M	FG	MSV	OG	SIL	8F	Q	30								TV				.026			72732	5.0	C	uniform massive siliceous felsitic; anh. to euh. py	
795							8F	Q	30												.072			72733	5.0	C	1 ft from 811.8-812'; heavy SIL from 801.3 to 802.4'; Q+D 90; py filling fractures at beginning of interval	
800.							8F	Q	10												.009			72734	5.0	C		
800.							8F	Q	10												.026			72735	5.0	C		
810.							8F	Q	20												.025			72736	5.0	C		
813							8F	Q	20												.005			72737	3.0	C		
815		M	MG	VSX	GN	ANK	IC														.004			72738	2.0	C	bx texture more pronounced towards beginning of interval; mottled ANK alt. toward end of interval	
818		M	MG	MSV	GN	ANK	IC														.001			72739	3.0	C		
823.		M	MG	MSV	GN	ANK	IC														.002			72740	5.0	C	patchy and mottled ANK alt. uniform texture of ANK	
828																					.001			72741	5.0	C	porphyroblasts; limonite staining from 825.7 to 826.2'; qtz vein @ 80° T _{CA} @ 822.7' (1/2" wide);	
830.5																					.002			72742	2.5	C	patchy infilling of voids by chlorite; minor euh. py in matrix.	
835.5		M	FG	MSV	GN	ANK	lct														.001			72743	5.0	C	typical mottled to stringy ANK alt.; moderately	
838.5							lct														.001			72744	3.0	C	difficult to scratch to knife	
840.5		M	FG	MSV	GN	ANK	lct														.001			72745	2.0	C	pink f. spar. veins (T) w/ > 1% disse. euh. py., one 2" wide and one 1/4" wide, each @ ~50° T _{CA}	
845.5							ANK lct														.001			72746	5.0	C	chlorite infilling fractures and voids; qzv. (T) vein from 1/2" to 1"; sharp contact to underlying lamprophyre; uniform speckled ANK alt.	
850.5							lct														.001			72747	5.0	C		
855.5							lct														.001			72748	5.0	C		



DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS											Spl #			Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC					F%							
												qtz	C%	B%	C%	Py	D%	E%	NFA	F%		An						
857.5		M	FG	MSV	BN	ANK	7L	Q	10					2						4			.001	72749	2.0	C	biotite-rich lamprophyre with euh. py in matrix and uniform texture of speckled ANK altn; qtz veinlets w. chlorite around margins	
861.5		M	MG	MSV	CG	ANK	1tc															.001	72750	4.0	C	easily scratched; extensive devel. of ANK porphyroblasts; BOD 80; weak bx texture devel.		
864.5		M	FG	MSV	BN	ANK	7L															.001	72801	3.0	C	biotite-rich lamprophyre; RPD 50; lower contact		
868.5							7L															.001	72802	4.0	C	sheared & rubbly core; devel. of sheared fabric		
872.5							7L															.001	72803	4.0	C	from; uniform texture of ANK porphyroblasts;		
877.3							7L															.001	72804	4.8	C	biotite contact veins; particularly in centre or interior in develop. of voids and in fillings of calcite; rubbly core @ 875.4		
879.3		M	FG	BX	BL	ANK	1tc															.001	72805	2.0	C	variable ANK altn; rubbly core @ 879.3; sections		
882.3		M	FG	BX	BL	ANK	1tc															.001	72806	3.0	C	w/out ANK porphyroblasts; rubbly core @ 883		
887.3		M	FG	MSV	BL	ANK	1tc															.001	72807	5.0	C			
903.4		M	FG	BX	GG	ANK	1ct	P	70				1									.001	72808	13.3	G	readily devel. bx texture; variable ANK altn; minor vuggy weathering of calcite veins		
905.5		M	MG	MSV	GG	ANK	1ct															.001	72809	4.9	C	RPD 50; minor infilling of fractures by chlorite; easily scratched		
908.8							1ct															.001	72810	2.3	C	bx texture around ANK veinlets		

40.8-716
 10/2/02

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS				Spl #			Width	T	COMMENTS 1	COMMENTS 2										
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC							Width	T								
												Qtz	C%	B%	C%	Py	D%	Cpy							E%	NFA	F%					
910.8		M	FG	MSV	GN	ANK	Icf					1											72811	2.0	C	qtz vein (T) @ end of interval; uniform mottled ANK alth						
913.4		M	MG	EP	RG	SIL	8FP	70	30			5					2	Py	.060							72812	2.6	C	pink siliceous feldspar porphyry with chlorite infilling fractures; qtz (T) veinlets; subh to euh py in matrix			
916		M	MG	EP	RG	SIL	8FP	70	30			3					2	Py	.043								72813	2.6	C			
918		M	FG	MSV	GG	ANK	Icf					1					1		.002								72814	2.0	C	fine to mottled ANK alth ± patchy qtz infillings of voids		
921		M	MG	MSV	GG	ANK	Icf					1					1		.001								72815	3.0	C			
926		M	MG	MSV	GG	ANK	Icf					1					1		.001									72816	5.0	C	chlorite infilling voids and along the edges of ANK alth veinlets; coarse ANK porphyroblasts	
968.8		M	FG	GS	GG	CCL	lfc												.001									72817	4.2	G	chlorite infilling of fractures; progressive inc. in patchy calcite alth to mc. depth; no evidence of py in matrix or veins; qtz vein (T) 1/2" wide @ 1750.6	
973.8							lfc												.001									72818	5.0	C		
976.8							lfc												.001									72819	13.0	E		
978.8							lfc												.001									72820	2.0	C		
983.7		M	MG	MSV	BN	CC	7L										2		.001									72821	4.9	C	lower part of interval contains abundant acicular amphibole (hornblende?) and an increasing amount of euh. py; calcite veinlets (T) @ 30-40° to CA	
988.5		M	MG	MSV	BN	CC	7L										2		.001									72822	4.8	E		
991		M	FG	MSV	GG	TEL	lfc										3		.001									72823	2.5	C	typical f' grad 4M with talc infilling fractures	
994		M	FG	MSV	GG	TEL	lfc										3		.004									72824	3.0	C		
997		M	MG	MSV	GN	ANK	Icf												.001									72825	3.0	C	less easily scratched than overlying lfc; coarse ANK alth to EOH	
1000 (EOH)		M	MG	MSV	GN	ANK	Icf												.001									72826	3.0	C		

ROYAL OAK ANALYTICAL LABORATORY

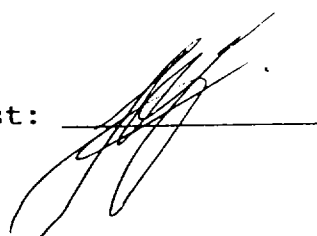
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-253
 Date Assayed: 11/03/95
 Week/Tray: 95OCT30/AF035

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72805		0.001	35
2	C72806		0.001	35
3	C72807		0.001	35
4	C72808		0.001	35
5	C72809		0.001	35
6	C72810		0.001	35
7	C72811		0.001	35
8	C72812		0.060	2060
9	CONTROL	Control	0.098	3360
10	C72813		0.043	1470
11	C72728		0.020	685
12	C72729		0.220	7540
13	C72730		0.001	35
14	C72731		0.002	70
15	BLANK	Blank	0.001	35
16	C72732		0.026	890
17	C72733		0.072	2470
18	C72734		0.009	310
19	C72735		0.026	890
20	C72736		0.025	855
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

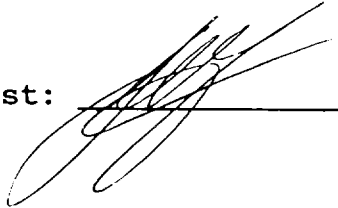
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-253
 Date Assayed: 11/03/95
 Week/Tray: 95OCT30/AF031

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72737		0.005	170
2	C72738		0.004	135
3	C72739		0.001	35
4	C72740		0.002	70
5	C72741		0.001	35
6	C72742		0.002	70
7	C72743		0.001	35
8	C72744		0.001	35
9	C72745		0.001	35
10	C72746		0.001	35
11	BLANK	Blank	0.001	35
12	C72747		0.001	35
13	C72748		0.001	35
14	CONTROL	Control	0.096	3290
15	C72749		0.001	35
16	C72750		0.001	35
17	C72801		0.001	35
18	C72802		0.001	35
19	C72803		0.001	35
20	C72804		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

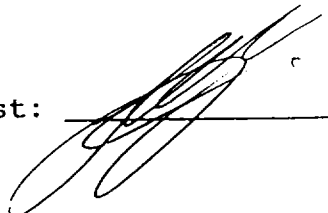
Hole Number: HP-95-~~253~~-210

Date Assayed: 11/03/95

Week/Tray: 95OCT30/AF029

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72701		0.001	35
2	C72702		0.006	205
3	C72703		0.001	35
4	C72704		0.001	35
5	C72705		0.002	70
6	C72706		0.001	35
7	C72707		0.001	35
8	C72708		0.006	205
9	BLANK	Blank	0.001	35
10	C72709		0.056	1920
11	C75846		0.002	70
12	C75847		0.057	1950
13	C75848		0.006	205
14	C75849		0.002	70
15	C75850		0.008	275
16	C75851		0.001	35
17	C75852		0.001	35
18	CONTROL	Control	0.100	3430
19	C75853		0.001	35
20	C75854		0.010	345
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-254-253

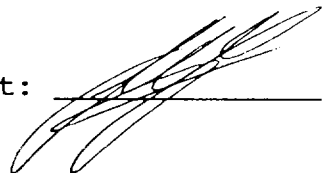
Date Assayed: 11/03/95

Week/Tray: 95OCT30/AF036

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20310		0.001	35
2	DXR20311		0.001	35
3	PM-601	Control	0.334	11450
4	DXR20312		0.001	35
5	DXR20313		0.001	35
6	DXR20314		0.001	35
7	DXR20315		0.001	35
8	DXR20316		0.001	35
9	DXR20317		0.001	35
10	DXR20318		0.001	35
11	C72814		0.002	70
12	C72815		0.001	35
13	C72816		0.001	35
14	C72817		0.001	35
15	C72818		0.001	35
16	BLANK	Blank	0.001	35
17	C72819		0.001	35
18	C72820		0.001	35
19	C72821		0.001	35
20	C72822		0.001	35
21	C72823		0.001	35
22	C72824		0.004	135
23	C72825		0.001	35
24	C72826		0.001	35

253

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

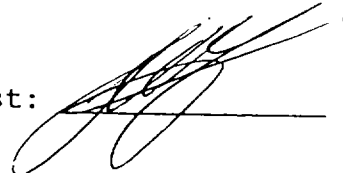
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-253
 Date Assayed: 11/02/95
 Week/Tray: 95OCT30/AF024

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72719		0.001	35
2	C72720		0.004	135
3	C72721		0.010	345
4	BLANK	Blank	0.001	35
5	C72722		0.010	345
6	C72723		0.012	410
7	C72724		0.001	35
8	C72725		0.001	35
9	C72726		0.056	1920
10	C72727		0.100	3430
11	C72710		0.006	205
12	C72711		0.002	70
13	C72712		0.007	240
14	PM-601	Control	0.334	11450
15	C72713		0.008	275
16	C72714		0.001	35
17	C72715		0.001	35
18	C72716		0.001	35
19	C72717		0.010	345
20	C72718		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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PAMOREXPROJECT: Nighthawk HopsonLogged By: R. Hawley

PAGE 1

**CLAIM
12583**

CAT

Date: 01/11/1995Page 1 of 6

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP 95254 MP	5765.17	15503.03	10729.9	1001.0				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50	800	345	50									
200	338	48	1000	348	50									
400	342	48												
600	343	50												

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS							Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	A%	B%	C%	Pt	D%						E%	NFA	F%						
95.1																															
115.0		S	fg	Var	gy	Hc						5				1			.001							DXR 20301	6		Verdite, pillow lava pale grey, minor sheets + slips ass. w. quartz, Py-Po vermicles 110-115 - weak take - shd at contact.		
149.0		M	mg	msv	gn	leay	2m					5				1			.001							20302			Top of core, minor sheets + slips Pb - minor, minor vermicles w. minor quartz		
160.0		S	fg	Var	gy	Hc	2m					5				1			.001							20303			Minor quartz, pillow lava fract. - minor ass. py.		
200.0		M	mg	msv	gn	chl	2m					2				1			.005							304			Gen. msv - intervals of Pb - transition to weak take - shd Int. by 200		
253.0		S	fg	Var	gy	Hc	1t					2				1			.001							305			Pb - minor, minor vermicles w. minor quartz w. minor sheets + slips		

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2		
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Pt	D%						E%	Ni Au
273.0					gn	chl	FLT					5				1			.001	20306			Fault zone through lct/lte text; RAD=50	blocky, gouge + shd
286.0				bx	bk	lte	lte					5				1			.001	307			Typ black UMF bx /-rop	1-2"
291.0							lte					1				1			.001	308			Typ black UMF	
296.0		M	mg	msv	gn		8fp					5				3			.001	309			Grey black porphyry? - v. soft lct; green text; des. by Group: musc. + musc.	dyke material; gnt; ripp ell. qtz fracts
301.0					bk	ank	lct					3				1			.001	310				
341.0				bx	bk	a-k	lte					5				1			.001	311			Talc, umf mod ank bx	-contacted
362.0				bx	bk	a-k	lct					3				1			.001	312			Prog. mic ank - more mod 345-350	less b'nd; FLT at 0°C A
400.0				bk	bk		lte					5				1			.001	313			Typ black UMF bx; mottled str. by textured.	and porphy. through out
405.0				bx			lct					5				1			.001	314			Prog. mic ank affi -	grey carb
410.0					gn	fu	lc					5				1			.001	315			Weak fresh green colour to Otherwise typ breccia UMF	429.8 carb. Rock
415.0							lc					5				1			.001	316			As 410; 1x1" T vein	
420.0							lc					5				1			.001	317			As 410; 1x1" T vein	
425.0							lc					5				1			.001	318			Grey carb. bx	
429.8				bx		fu	lc					5				1			.001	319			Green-green carb bx.	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	Qtz	C%	B%	C%	Ry	D%	E%	MVA A4	F%					
435.0		M		msv	rd		8fp				5					3			.010		20320		e	Massive orange, pink, siliceous carb - coarse ank parts in well part w/ st. stock veins CA = 1/2" ; unit mixed w/ diss py.	QFP - sharp contacts into carb adjacent to porp - gen at low angle to
439.5		M		msv	rd		8fp				5					3			.001		321		e	As 435. qtz + chl bands Upper contact to unit at 70° CA; lower at 0°	
445.0				bx	bk		1ct				2					1			.001		322		e	Ask at contact; porp less to UMS.	
481.0				bx	bk		1tc				2					1			.001		323			Top block UMS; bx; ank Weak sld/filt at 70°	porp through UMF frings
486.6				bx	bk		1ct				2					1			.001		324			Subtle inc in ank	
490.5				msv	gr	ank	lc				3					2			.001		325			Chl carb; msv; stock veinlet - chl bands	
497.0				bx	bk		1tc				1					1			.001		326			Mod sld; dark UMS; bx; ank mod ank porp.	
502.0				bx			1cc				1					1			.001		327			Fringes > 2" in sheared bx	
506.0				bx	fn		lc				1					1			.001		328			Mod fresh altered lc bx - sheared; irreg qu's + bx	
510.0		M	fg	bx	bn	sl	8f				20					5			.088		329	4.0		Felsite? BCRB bx - seen in bottom of 95-250; stockwork qu's 30+70° CA; sld margins lined w/ py; diss py	
515.0		M	fg		bn	sl	8f				5					5			.086		330	5.0		As 510, lesser veins; bx text, diss py	
519.0		M	fg		bn	sl	8f				5					3			.018		331	4.0		As 515, large of chl - mod ank porp	
524.0				bx	sl		1ct				5					1			.006		332			Chl carb UMF bx	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Grn	Text	Co	Alt	Nom	B	A1	J	A2	Qtz	C%	B%	C%	Ry						D%	E%	MFA A1
783.0				bx	gn		lfu				5					1			.001	20349			Typ bright green FERB; qtz	bx + T veins; chyl
787.0				bx	gn		lfu				5					1			.001	350			As 783; tr-1/2 py clusters	
791.0				bx			Ø				3					1			.001	351			Half Dike - felsite - grey-brown; stockwork qu's; diss py	
795.0				bx	bk		lct				1					-			.001	352			FERB 791-792 - prop weaker	bx + c talc to 795
800.0				bx	sk		lct				5					-			.001	353			Typ block of bx - weak - and	bx on DIPS - 2' away qz
805.0							lct				2					-			.001	354			As 800; few qu's	
810.0							lct				2					-			.001	355			As 800; few qu's	
815.0							lct				5					-			.001	356			As 800; blocky	
820.0				bx	bx		lct				3					-			.001	357			lct ank; weak frach toward	820
823.0				bx			Ø				2					3			.001	358			Fault; weak core rubble; FERB and brown 112-B;	lct - 0' in rubble of qtz; chl veins; + py.
828.0				bx	gn		lfu				3					1			.001	359			Typ FERB; sheared; qtz; bx	veins
830.0							8fp				5					5			.004	360	2.0		Pink QFP; qtz-chl stockwork	fracts; diss py
835.0				bx	gn		lfu				3					-			.001	361			Grey - med frach alt VIF;	dry; qtz-bx
841.0				bx	gn		lfu				3					-			.002	362			Grey - med frach alt VIF;	dry; qtz-bx
843.0		A1		bx	gn	sil	8fp				5					3			.006	363			V silicates; dark green; bx in chl cement	found in cement otherwise is typ - stock qu's
																							Fault n gauge 842.5-843	qtz-chl fracts + diss py

ROYAL OAK ANALYTICAL LABORATORY

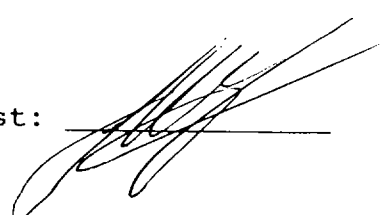
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-254
 Date Assayed: 11/09/95
 Week/Tray: 95NOV06/AF022

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20337	Blank	0.001	35
2	BLANK		0.001	35
3	DXR20338		0.001	35
4	DXR20339		0.001	35
5	DXR20340		0.001	35
6	DXR20341		0.001	35
7	DXR20342		0.001	35
8	DXR20343		0.001	35
9	DXR20344		0.001	35
10	DXR20345		0.002	70
11	DXR20355	Control	0.001	35
12	CONTROL		0.096	3290
13	DXR20356		0.001	35
14	DXR20357		0.001	35
15	DXR20358		0.001	35
16	DXR10359		0.001	35
17	DXR40360		0.004	135
18	.0010361		0.001	35
19	DXR20362		0.002	70
20	DXR20363		0.006	205
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

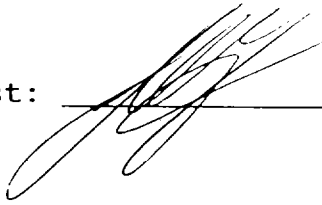
Hole Number: HP-95-~~254~~-214

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF012

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20364	Blank	0.001	35
2	BLANK		0.001	35
3	DXR20365		0.001	35
4	DXR20366		0.001	35
5	DXR20367		0.001	35
6	DXR20368		0.001	35
7	DXR20369		0.001	35
8	DXR20370		0.001	35
9	C74580		0.001	35
10	C74581		0.001	35
11	C74582	Control	0.001	35
12	CONTROL		0.102	3500
13	C74583		0.001	35
14	C74584		0.001	35
15	C74585		0.001	35
16	C74586		0.001	35
17	C74587		0.001	35
18	C74588		0.001	35
19				
20				
21				
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23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

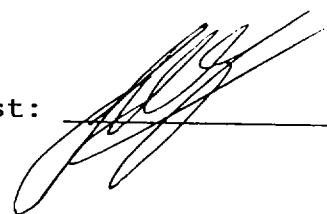
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-254
 Date Assayed: 11/03/95
 Week/Tray: 95OCT30/AF032

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20301		0.001	35
2	DXR20302		0.001	35
3	DXR20303		0.001	35
4	DXR20304		0.005	170
5	CONTROL	Control	0.097	3330
6	DXR20305		0.001	35
7	DXR20306		0.001	35
8	DXR20307		0.001	35
9	DXR20308		0.001	35
10	DXR20309		0.001	35
11	DXR20328		0.001	35
12	BLANK	Blank	0.001	35
13	DXR20329		0.088	3020
14	DXR20330		0.086	2950
15	DXR20331		0.018	615
16	DXR20332		0.006	205
17	DXR20333		0.001	35
18	DXR20334		0.001	35
19	DXR20335		0.001	35
20	DXR20336		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~254~~-253

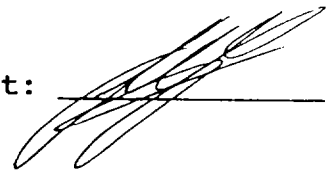
Date Assayed: 11/03/95

Week/Tray: 95OCT30/AF036

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20310		0.001	35
2	DXR20311		0.001	35
3	PM-601	Control	0.334	11450
4	DXR20312		0.001	35
5	DXR20313		0.001	35
6	DXR20314		0.001	35
7	DXR20315		0.001	35
8	DXR20316		0.001	35
9	DXR20317		0.001	35
10	DXR20318		0.001	35
11	C72814		0.002	70
12	C72815		0.001	35
13	C72816		0.001	35
14	C72817		0.001	35
15	C72818		0.001	35
16	BLANK	Blank	0.001	35
17	C72819		0.001	35
18	C72820		0.001	35
19	C72821		0.001	35
20	C72822		0.001	35
21	C72823		0.001	35
22	C72824		0.004	135
23	C72825		0.001	35
24	C72826		0.001	35

254

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-254-210

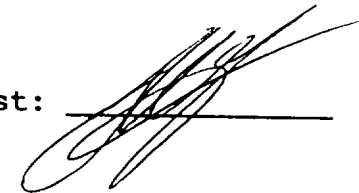
Date Assayed: 11/03/95

Week/Tray: 95OCT30/AF033

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20319		0.001	35
2	DXR20320		0.010	345
3	DXR20321		0.001	35
4	DXR20322		0.001	35
5	DXR20323		0.001	35
6	CONTROL	Control	0.100	3430
7	DXR20324		0.001	35
8	DXR20325		0.001	35
9	DXR20326		0.001	35
10	DXR20327		0.001	35
11	C75810		0.001	35
12	C75811		0.001	35
13	BLANK	Blank	0.001	35
14	C75812		0.001	35
15	C75813		0.005	170
16	C75814		0.006	205
17	C75815		0.001	35
18	C75816		0.001	35
19	C75817		0.001	35
20	C75818		0.001	35
21				
22				
23				
24				

254

Geologist: P. HARVAY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

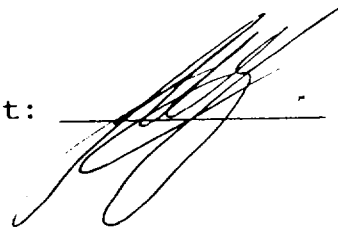
Hole Number: HP-95-254-214

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF015

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20346		0.016	550
2	DXR20347		0.014	480
3	DXR20348		0.006	205
4	DXR20349		0.001	35
5	BLANK	Blank	0.001	35
6	DXR20350		0.001	35
7	DXR20351		0.001	35
8	DXR20352		0.001	35
9	DXR20353		0.001	35
10	DXR20354		0.001	35
11	C74616		0.001	35
12	C74617		0.001	35
13	C74618		0.012	410
14	C74619		0.004	135
15	CONTROL	Control	0.098	3360
16	C74620		0.006	205
17	C74621		0.001	35
18	C74622		0.004	135
19	C74623		0.003	105
20	C74624		0.006	205
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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PROJECT: Nighthawk-HepsonLogged By: K. Farrell

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CLAIM
12583

CAT

Date Nov 1/19 95
Page 1 of 7

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
<u>HP95-255</u>	<u>5213.90</u>	<u>15740.38</u>	<u>10924.40</u>	<u>1128.4</u>				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	350	50	800	345	49									
200	345	47	1000	350	50									
400	345	48	1100	352	50									
600	348	48												

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS					COMMENTS 1			COMMENTS 2											
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Q%	A%	B%	C%	Py	D%	E%	NFA%	F%	Spl #	Width	T								
																									CONTRACTOR: NDS DRILLING LTD., THIMINS, ONT.						
																									DATE DRILLED: OCT 31 - NOV 2, 1995						
																									CORE SIZE: RQ						
																									CORE STORED: ROYAL DAK MINES INC,						
																									SCHUMACHER CORE SHACK						
35.6																															
54.1		B	FG	SJD	GG	ANK	LC														.001	72827	18.5	G	extremely fractured and sheared; minor chlorite infilling fractures; finely disseminated ANK in mafic matrix.						
52.6		M	FG	MOTL	GG	TC	TC															.001	72828	28.5	G	unconformity texture; calcite veins and fractures and coarse chlorite; coarse disseminated ANK; interlocking calcite veins @ 45° to 100° to E, lining both contacts; rubble core @ 67.3 and 71.7'					
103		B	FG	SJD	GG	BK	TC															.001	72829	20.4	G	extensive shearing and development of bx texture; rubble and broken core containing calcite infilling veins and fractures @ low angle to E, minor calcite veins and calcite alter stringers; RFD 10					

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE					METALLIC									
												Qtz	C%	B%	C%	Py	D%	E%	NEAF%							
131.5		M	FG	MBX	GG	TCL	Itc											.001	72830	23.5	G	bx texture developed in areas of calcite-filled fractures and veins; RPD 50				
136.5		M	FG	MBX	GG	TCL	Itc											.001	72831	5.0	C	RPD 50; chlorite filling voids assoc. to calcite veins; traces of py in matrix; whole min in ANK alt				
139.5							Itc											.001	72832	3.0	E	traces of py in matrix; whole min in ANK alt				
141.5							Itc											.001	72833	2.0	C	towards the end of the interval				
143.4		M	FG	HOM	BN	CC	7L								TV			.001	72834	1.9	C	uniform textured brown lamprophyre with mod. biotite content; weak ANE alteration				
145.4		M	FG	HOM	GG	ANK	1ct											.001	72835	2.0	C	uniform text w chlorite infilling fractures; calcite				
148.4		M	FG	HOM	GG	ANK	1ct											.001	72836	3.0	E	in patches infilling voids and fractures; chert				
153.4		M	FG	HOM	GG	ANK	1ct											.001	72837	5.0	C	from 152.9-153.4; RPD 60				
203.4		M	FG	HOM	GG	ANK	1ct											.001	72838	50.0	G	calcite-filled fractures @ 45-60° TCA; fragments of matrix in larger veins and chlorite filling voids and margins of veins; mottled ank alt appears near end of interval				
233		F	FG	MBX	GG	TCL	Itc											.001	72839	34.6	G	green-grey am to abundant calcite veinlets and patches w assoc. chlorite; RPD 20; extensive fracturing and broken core				
239							Itc											.001	72840	5.0	C					
242.5		S	FG	SHD	GG	TCL	Itc											.001	72841	4.5	C	extensively sheared zone w extensive network of calcite veinlets; shear planes orientation @ 20-40° TCA				
246.9		S	FG	SHD	GG	TCL	Itc											.001	72842	4.5	C					

DIST	ID	ROCK DESCRIPTION						STRUCT.				MINERALS								SPL #			COMMENTS 1	COMMENTS 2					
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE				METALLIC				Spl #			Width	T			
													Qtz	C%	B%	C%	Py	D%	E%	NFA	F%	Am							
251.9		JS	FG	MBX	GG	TCL	Itc														.001			72843	5.0 G		mild KNK alt. increasing to depth		
272		F	FG	SHD	GG	TCL	Itc														.001			72844	20.9 G		extensive shearing throughout interval to most shear planes @ 30-40° TEA; calcite and chlorite infilling fractures; core throughout the interval is broken and fractured; weak KNK alt. increasing with depth and filling fractures in heavily sheared zones; more massive, less sheared core @ very end of sequence in contact to matrix.		
292		F	FG	SHD	GG	ANK	Itc														.001			72845	20.0 G				
318.2		F	FG	SHD	GG	ANK	Itc														.003			72846	36.2 G				
354.3		M	FG	HOM	GN	CHL	ZM														.001			72847	21.1 G		matrix volcanic to minor fractures filled by chlorite and calcite; low angle fracturing to UM rich in talc and chlorite		
389.3		M	FG	HOM	BK	TCL	Itc														.001			72848	50.0 G		typical talcose UM to abundant chloritic alt. and chlorite infilling fractures; weak ANK alt.; low angle fracturing to fractures infilled by calcite		
439.3		F	FG	MBX	BK	TCL	Itc														.001			72849	50.0 G		fractured and sheared texture throughout the interval; shear planes @ low angle to TEA;		
489.3		F	FG	BX	GG	ANK	Itc														.001			72850	50.0 G		variable development of ankerite porphyroblasts; calcite and chlorite infilling fractures; ank. alt. (porphyroblasts) inc. to depth; variable bx text.		

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS							Spl #	Wdth	T	COMMENTS 1	COMMENTS 2						
		Com	Grs	Text	Co	Alt	Nom	B	A1	J	A2	GANGUE				METALLIC													
												qtz	c%	b%	c%	Py	D%	E%						NFA	F%				
	772	F	FG	MBX	BK	TCL	IE											.001					72867	50.0	G		extensively fractured and mildly brecciated UM		
	822						IE											.001					72868	50.0	G		Fr calcite rubble in fractures; 1/4" glass on @		
	849						IE											.001					72869	27.0	G		80° TCA @ 726.8'; fractures and shears		
	854						IE											.001					72870	5.0	C		@ low angle TCA; large sub. pxls up to		
																													1cm. w/ m. matrix, siliceous, liberating from
																													902 to 905 Fr calcite in fractures
	858.5	M	FG	NOM	GN	SIL	8fp											.001					72871	4.5	C		finely massive homogeneous green chert to minor		
	863	M	FG	NOM	GN	SIL	8fp											.001					72872	4.5	C		chlorite-filled small fractures; mild brecciated		
	866.8	M	FG	NOM	GN	SIL	8fp											.001					72873	3.8	C		fabric in areas of more intense fracture; intense		
																													silicification of feldspar porphyry; ghost
																													phenocrysts destroyed by silicification
	868.8	M	MG	FP	GG	SIL	8fp											.001					72874	2.0	C		gray-green feldspar porphyry; chlorite contain		
																													to underlying UM; mottled texture of feldspar
																													phenocrysts
	872.8	M	FG	MBX	BK	ANCL	IE											.001					72875	4.0	C		typical talcose UM. Fr strings of ANK alt		
	877	M	VFG	NOM	BK	ANK	IE											.001					72876	4.2	C		very fine-grained UM to minor ANK alt strings		
	881.4	M	FG	MBX	BK	ANK	IE											.001					72877	4.4	C		ex texture Fr ANK alt becoming more intense		
	931.7	M	FG	BX	BK	ANK	IE											.001					72878	50.0	G		strong patchy to stringy ANK alt; rubbly		
	936.7	M	FG	BX	BK	ANK	IE											.001					72879	5.0	C		core @ 900' to 901'; variable devel. of ANK		
	940.8																	.001					72880	4.4	C		porphyroblasts; traces of py (anhedral) in		
																													matrix; RpD 60; euh. py assoc. w chlorite
																													@ contact Fr underlying FIP

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE			METALLIC															
												Qtz	C%	B%	C%	Px	D%	E%	MFA	F%										
1027.5		M	VFG	NOM	BN	AB	ZM					1							.009				72901	4.0	E	albitized mafic, contains (Cu and Zn)				
1031.5		M	FG	HOM	GG	ANK	ICF					1				TR			.022				72902	4.0	E	difficult to scratch; strongly ANK'd;				
1036.5		M	FG	MBX	BK	ANK	ICF					1				TR			.001				72903	5.0	E	progressive development of Bx fabric w depth				
1057		M	MG	BX	BK	ANK	ICF	Q4S				2							.001				72904	20.5	G	variable bx texture; strong patchy ANK and				
1077		M	FG	MBX	BK	ANK	ICF	Q4S				TR							.001				72905	20.0	G	variable development of ANK porphyroblasts;				
																										sheared rusty core of Qtz @ 1054 and 1055;				
																										RqD 50				
1097		M	FG	BX	BK	TEL	ICF									TR			.001				72906	20.0	G	- as above; RqD 80				
1128.4		M	FG	MBX	BN	TEL	ICF									TR			.001				72907	31.4	G	EoH				

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

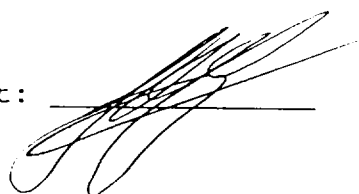
Hole Number: HP-95-255-221

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF024

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72845		0.001	35
2	C72846		0.003	105
3	C72847		0.001	35
4	BLANK	Blank	0.001	35
5	C72848		0.001	35
6	C72849		0.001	35
7	C72850		0.001	35
8	C72851		0.001	35
9	C72852		0.001	35
10	C72853		0.001	35
11	C76134		0.001	35
12	C76135		0.001	35
13	C76136		0.001	35
14	C76137		0.001	35
15	C76138		0.002	70
16	CONTROL	Control	0.102	3500
17	C76139		0.001	35
18	C76140		0.001	35
19	C76141		0.001	35
20	C76142		0.014	480
21	C76143		0.001	35
22	C76144		0.001	35
23	C76145		0.004	135
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

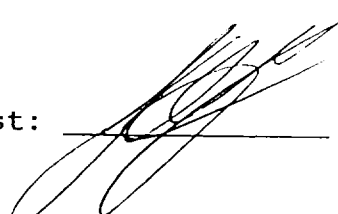
Hole Number: HP-95-255

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF025

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72863		0.001	35
2	C72864		0.001	35
3	C72865		0.001	35
4	C72866		0.001	35
5	BLANK	Blank	0.001	35
6	C72867		0.001	35
7	C72868		0.001	35
8	C72869		0.001	35
9	C72870		0.001	35
10	C72871		0.001	35
11	C72872		0.001	35
12	C72873		0.001	35
13	C72874		0.001	35
14	C72875		0.001	35
15	CONTROL	Control	0.100	3430
16	C72876		0.001	35
17	C72877		0.001	35
18	C72878		0.001	35
19	C72879		0.001	35
20	C72880		0.001	35
21				
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24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

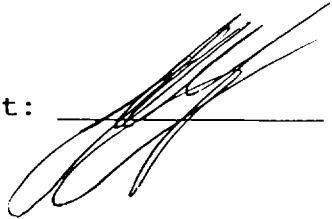
Hole Number: HP-95-~~(255)~~ 220

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF019

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72854		0.001	35
2	BLANK	Blank	0.001	35
3	C72855		0.001	35
4	C72856		0.001	35
5	C72857		0.001	35
6	C72858		0.001	35
7	C72859		0.001	35
8	C72860		0.001	35
9	C72861		0.001	35
10	C72862		0.001	35
11	C74948		0.001	35
12	CONTROL	Control	0.100	3430
13	C74949		0.001	35
14	C74950		0.001	35
15	C74951		0.001	35
16	C74952		0.001	35
17	C74953		0.001	35
18	C74954		0.001	35
19	C74955		0.001	35
20	C74956		0.001	35
21	C74957		0.001	35
22	C74958		0.001	35
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

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Exploration 5675-1603

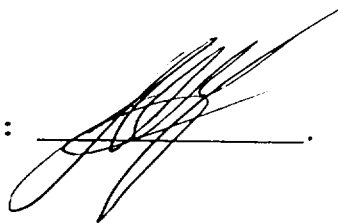
Hole Number: HP-95-~~255~~-214

Date Assayed: 11/09/95

Week/Tray: 95NOV06/AF021

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	BLANK	Blank	0.001	35
2	C72890		0.001	35
3	C72891		0.001	35
4	C72892		0.001	35
5	C72893		0.004	135
6	C72894		0.001	35
7	C72895		0.001	35
8	C72896		0.070	2400
9	C72897		0.080	2740
10	C72898		0.001	35
11	CONTROL	Control	0.097	3330
12	C74589		0.018	615
13	C74590		0.008	275
14	C74591		0.083	2850
15	C74592		0.002	70
16	C74593		0.001	35
17	C74594		0.001	35
18	C74595		0.001	35
19	C74596		0.001	35
20	C74597		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

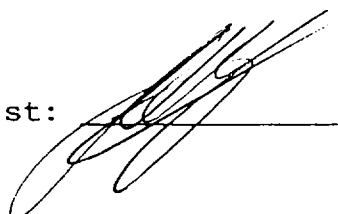
Hole Number: HP-95-210-255

Date Assayed: 11/06/95

Week/Tray: 95OCT30/AF047

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C75837		0.001	35
2	C75838		0.001	35
3	C75839		0.001	35
4	C75840		0.001	35
5	C75841		0.001	35
6	C75842		0.001	35
7	BLANK	Blank	0.001	35
8	C75843		0.001	35
9	C75844		0.009	310
10	C75845		0.010	345
11	C72827		0.001	35
12	C72828		0.001	35
13	C72829		0.001	35
14	C72830		0.001	35
15	C72831		0.001	35
16	CONTROL	Control	0.097	3330
17	C72832		0.001	35
18	C72833		0.001	35
19	C72834		0.001	35
20	C72835		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-255-223

Date Assayed: 11/10/95

Week/Tray: 95NOV06/AF036

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72836		0.001	35
2	C72837		0.001	35
3	BLANK	Blank	0.001	35
4	C72838		0.001	35
5	C72839		0.001	35

6	C72840		0.001	35
7	C72841		0.001	35
8	C72842		0.001	35
9	C72843		0.001	35
10	C72844		0.001	35

11	D19961		0.001	35
12	D19962		0.001	35
13	CONTROL	Control	0.104	3570
14	D19963		0.001	35
15	D19964		0.001	35

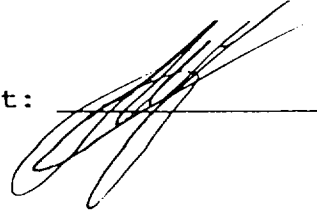
16	D19965		0.002	70
17	D19966		0.001	35
18	D19967		0.001	35
19	D19968		0.001	35
20	D19969		0.001	35

21				
22				
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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

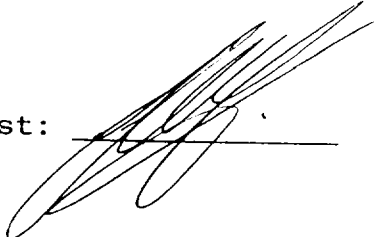
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-255
 Date Assayed: 11/09/95
 Week/Tray: 95NOV06/AF020

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	CONTROL	Control	0.098	3360
2	C72881		0.001	35
3	C72882		0.001	35
4	C72883		0.001	35
5	C72884		0.001	35
6	C72885		0.004	135
7	C72886		0.001	35
8	C72887		0.001	35
9	C72888		0.001	35
10	C72889		0.001	35
11	C72899		0.001	35
12	C72900		0.001	35
13	C72901		0.009	310
14	C72902		0.022	755
15	C72903		0.001	35
16	C72904		0.001	35
17	C72905		0.001	35
18	C72906		0.001	35
19	C72907		0.001	35
20	BLANK		Blank	0.001
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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DIST	ID	ROCK DESCRIPTION						STRUCT.				MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2								
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	GANGUE				METALLIC																
												Qtz	C%	B%	C%	Py	D%	E%	NFAF%													
299		M	FG	MBX	BK	TCL	I/c																72918	50.0 G			variably brecciated UMI w/ patchy py development RQD 6D (variably fractured.)					
334		M	FG	MBX	BK	TCL	I/c																	72919	35.0 G			weak ANK alt; variably brecciated; abundant chlorite-filled fractures; often assoc. w/ anh. pyrite; coarse subh. py in matrix; RQD 90				
369		M	F	MBX	BK	TCL	I/c																	72920	35.0 G							
392.7		M	VFG	BX	GN	CHL	Zpb																		72921	23.7 G						
415		M	FG	FRA	GN	CHL	Zm																		72922	22.3 G			variably brecciated pillared mafic flow to weak ANK alt and patchy pink f-spars assoc. w/ chlorite btwn bx fragments (frag's are sil'd); abundant chlorite infilling fractures; patchy py. development - subh. py along fractures assoc. w/ chlorite and subh. py in matrix; bx collected from 392.7 to end of interval; intense chlorite alt. near contact w/ underlying UMI's			
427.6		M	VFG	HOM	BK	TCL	I/c																			72923	12.6 G			calcite veins up to 1" @ 80° TCA; fractured/ steamed core assoc. w/ calcite vein @ 38 1/8"; intensely chloritized; minor epidote alt. along fractures		
437.7		M	FG	HOM	GG	LEH	Zm																				72924	10.1 G			abundant calcite veins @ high angles TCA up to 1"; fine leucocline disseg. throughout; v. minor fracturing; chlorite inc. towards contact w/ underlying UMI; anh. py. in veins and scattered throughout matrix	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS										Spl #			Width			COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE				METALLIC											
														qtz	C%	B%	C%	Py	O%	E%	NEAF%	Av							
595.6		M	FG	MBX	GG	CHL	lct?																	72952	2.0	c	calcite veins @ 90 TCA; chlorite infilling		
598.6		M	FG	MBX	GG	CHL	lct?																	72953	3.0	c	fractures and voids; RQD 60; patchy devel.		
603		M	FG	MBX	GG	CHL	lct?																	72954	4.4	c	of py in matrix; mod. SIL'd (fairly difficult to scratch); weak ANK alt		
635		M	FG	MBX	GG	ANK	lct																	72955	32.0	g	RQD 90; SIL'd UM to isolated chert patches		
665		M	FG	MBX	GG	ANK	lct																	72956	30.0	g	chlorite-filled fractures and subh. to emb. py in matrix as isolated fine grains		
676		M	FG	VAR	GN	ANK	ZV																	72957	11.0	g	SIL'd matrix with patchy devel. c) varidies		
681		F	ME	VAR	GN	ANK	ZV																	72958	5.0	c	throughout; minor chlorite filling fractures;		
684		F	ME	VAR	GN	ANK	ZV																	72959	3.0	c	fractured conc. to fractures of low angle TCA		
686		M	FG	VTR	GN	ANK	ZV																	72960	2.0	c			
689.2		M	VFG	BX	GY	SIL	8P																	72961	3.2	c	traces of py along fractures assoc. w/ chlorite		
692.4		M	VFG	BX	GY	SIL	8P																	72962	3.2	c	no qtz veinlets; sharp upper and lower contacts; calcite vein @ 687 1/2" wide @ 45 TCA; calcite assoc. w/ chlorite infilling fractures blun bx fragments; fine speckl. j. matrix grains which are probably tourmaline; heavily SIL'd		
695		M	FG	VAR	GN	ANK	ZV																		72963	2.6	c	sequence of variolitic to massive mafics w/ calcite filling veinlets; SIL'd cherty bx	
698		M	FG	MOTL	GN	ANK	Zm																		72964	3.0	c	zone makes contact w/ underlying UM	
703		M	FG	HOM	GN	ANK	Zm																		72965	5.0	c		
722		M	FG	HOM	GN	ANK	Zm																		72966	19.0	g		

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2			
								B/S	J/F	GANGUE				METALLIC											
		Com	Grs	Text	Co	Alt	Nom	B	A1	J	A2	Qtz	C%	B%	C%	Py	D%						Cpy	E%	NFAF%
756		M	VFG	HDM	EG	CHL	lc			-					Tr						72967	34.0 G		20D 100; 514' UM w patchy development of coarse, sub. py. in matrix and sub. py. conc. in fractures, assoc. = chlorite; abundant calcite veins, usually assoc. chlorite; chert band from # 737-738' w chlorite & Mn. Fractures, calcite vein (T) 8" wide @ 746' @ 50° TCA	
787		M	FG	HDM	GN	ANK	Zn			-					1						72968	31.0 G		uniform matrix sections ranging up to 2% py (near beginning of interval); calcite and chlorite filling fractures; ANK alt. inc. to depth w development of ANK porphyroblasts near the end of the sequence	
824		M	FG	BX	BK	ANK	lc			-					Tr						72969	37.0 G		extensive stockwork of ANK veins and development of ANK porphyroblasts; RPDSO	
829							lc			-					Tr						72970	5.0 G			
831		M	MG	BX	GR	ANK	lc			1					Tr						72971	5.0 G		2 1/2" green chlorite @ 840.5 @ 45° TCA (down	
839		M	MG	BX	GR	ANK	lc			1					Tr						72972	5.0 G		dark green bluish to brown to green chert, alt. to network of qtz-ank veins; 839-844 → 0.7% of lc and Mn inc. to 2000; qtz veinlet 2" across	
844		M	MG	BX	GR	ANK	lc			2					Tr						72973	5.0 G		from 839-840 @ 20° TCA offset by microfractures at two locations and traces of cpy	

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS								Spl #			Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nom	B/S	J/F	B	A1	J	A2	Qtz	Cl	B%	C%	Px	Py	Ch	E%	NFA%					F%	Au	
923		M	FG	BX	BK	ANK	ICF																		72989	19.0	G	py content ranging up to 1% of bat; v. minor atz veins; by texture more pronounced toward end of sequence; coarse ANK porphy- blasts decv. toward end of sequence	
921		M	FG	MBX	BK	ANK	ICF																		72990	48.0	G	black UM to variable devel. of ANK porphyroblasts and scattered ANK veins and patches up to 4" near beginning of interval; patchy devel. of coarse subh. Ank. py. in matrix	
998		M	FG	HBM	BK	TCL	ICF																		72991	26.0	G	typical talc-chlorite altered UM to large grains of subh. py. scattered throughout the matrix, dolomite-filled fractures as well as calcite in fractures and voids; RQD 90	
1003		M	FG	HBM	BK	TCL	ICF																		72992	5.0	C		
1025.8		M	FG	HBM	BN	CC	7L																		72993	2.8	C	biotite rich fine grained lamprophyre to mid-fi. contacts to surrounding UM country rock	
1004		M	FG	MBX	BK	TCL	ICF																		72994	46.0	C	as above for ICF up to 1003'; coarse eroded subh. py grains; up to 1cm scattered	
1060		M	FG	MBX	BK	TCL	ICF																		72995	49.6	G	through out matrix and minor assoc in calcite filled voids; RQD 70; minor frac- tured and ground core; ground up rhy core from 1054-1060'	

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS							Spl #	Wdth	T	COMMENTS 1	COMMENTS 2					
		Com	Grs	Text	Co	Alt	Nam	B/S J/F			GANGUE			METALLIC													
								B	A1	J	A2	C%	B%	C%	D%	E%	N						F%	F%			
1424		F	FG	HOM	GG	ANK	Zm	0	30																		
1429		F	FG	MBX	GG	ANK	Zm	0	30																		
1433.2		F	FG	FRA	RD	SIL	8fp	0	10																		
1436		M	FG	HOM	GN	ANK	Zm																				
1438.2		M	FG	FP	RD	SIL	8fp	0	30																		
1440.8		M	MG	MBX	GG	ANK	1ct																				
1442.7		M	FG	BX	RG	SIL	8fp																				

as above for 2m; minor epidote althn assoc. to
by core towards end of interval @ contact to
underlying FP

highly fractured orange-pink FP w/ fine disse-
minated coarse subh. to anh. py. assoc. w/ chlorite
filled fractures; intense orange stain
around fractures may be hematite

weak ANK althn; pink qtz-f-spar veinlets up
to 1/4" @ 20°C/A, as above for 2m

massive, homogeneous orange-pink FP w/ qtz
veins up to 1/4"

strong ANK althn w/ poorly developed ANK
stockwork; qtz patch 2" wide @ z 440';
even distribution of ANK porphyroblasts;
ground rubbery core @ contact to underlying FP

fractured brecciated FP; red-green to green-
pink; minor chlorite filling fractures assoc. to
anh. py.

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS							Spl #	Wght	T	COMMENTS 1	COMMENTS 2						
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	Qtz	C%	B%	C%	Py						D%	E%	NFA%	F%		
	1446																												
	1451																												
	1456																												
	1482																												
	1502 (EOH)	M.	FG	HAMBK	TCL	IT																	72191	3.3g					
																							72192	5.0g					
																							72193	5.0g					
																							72194	26.0g					

ROYAL OAK ANALYTICAL LABORATORY

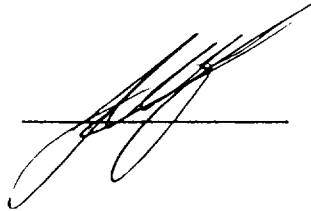
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-256
 Date Assayed: 11/14/95
 Week/Tray: 95NOV13/AF010

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72935	Blank	0.001	35
2	BLANK		0.001	35
3	C72936		0.001	35
4	C72937		0.001	35
5	C72938		0.001	35
6	C72939		0.001	35
7	C72940		0.008	275
8	C72941		0.001	35
9	C72942		0.001	35
10	C72943		0.001	35
11	C72953	Control	0.001	35
12	CONTROL		0.098	3360
13	C72954		0.005	170
14	C72955		0.001	35
15	C72956		0.001	35
16	C72957		0.001	35
17	C72958		0.001	35
18	C72959		0.001	35
19	C72960		0.001	35
20	C72961		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

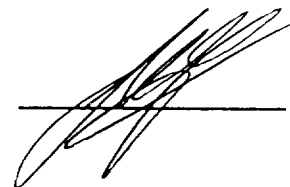
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-256
 Date Assayed: 11/14/95
 Week/Tray: 95NOV13/AF007

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72917		0.001	35
2	C72918		0.001	35
3	C72919		0.001	35
4	C72920		0.001	35
5	C72921		0.001	35
6	C72922		0.001	35
7	BLANK	Blank	0.001	35
8	C72923		0.001	35
9	C72924		0.001	35
10	C72925		0.001	35
11	C72926 44		0.001	35
12	C72927 45		0.001	35
13	CONTROL	Control	0.097	3330
14	C72946		0.001	35
15	C72947		0.001	35
16	C72948		0.001	35
17	C72949		0.001	35
18	C72950		0.001	35
19	C72951		0.001	35
20	C72952		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-256
 Date Assayed: 11/15/95
 Week/Tray: 95NOV13/AF022

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72962	Blank	0.001	35
2	BLANK		0.001	35
3	C72963		0.001	35
4	C72964		0.001	35
5	C72965		0.001	35
6	C72966		0.005	170
7	C72967		0.001	35
8	C72968		0.001	35
9	C72969		0.001	35
10	C72970		0.001	35
11	C72980	Control	0.088	3020
12	CONTROL		0.099	3390
13	C72981		0.022	755
14	C72982		0.001	35
15	C72983		0.001	35
16	C72984		0.001	35
17	C72985		0.001	35
18	C72986		0.001	35
19	C72987		0.001	35
20	C72988		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

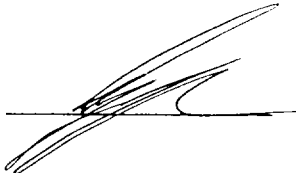
Hole Number: HP-95-~~256~~-226

Date Assayed: 11/15/95

Week/Tray: 95NOV13/AF013

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72182		0.001	35
2	C72183		0.006	205
3	C72184		0.001	35
4	C72185		0.001	35
5	BLANK	Blank	0.001	35
6	C72186		0.018	615
7	C72187		0.008	275
8	C72188		0.016	550
9	C72189		0.001	35
10	C72190		0.001	35
11	C72173		0.001	35
12	C72174		0.001	35
13	C72175		0.001	35
14	C72176		0.001	35
15	CONTROL	Control	0.097	3330
16	C72177		0.001	35
17	C72178		0.001	35
18	C72179		0.001	35
19	C72180		0.001	35
20	C72181		0.001	35
21				
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Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

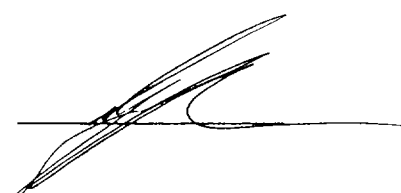
Hole Number: HP-95-~~256~~-225

Date Assayed: 11/15/95

Week/Tray: 95NOV13/AF018

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C72191	Blank	0.001	35
2	BLANK		0.001	35
3	C72192		0.001	35
4	C72193		0.001	35
5	C72194		0.001	35
6	C72195	Control	0.001	35
7	DXR21007		0.001	35
8	DXR21008		0.001	35
9	DXR21009		0.001	35
10	CONTROL		0.100	3430
11	DXR21010		0.001	35
12	DXR21011		0.001	35
13				
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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

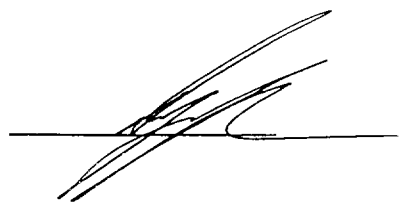
Hole Number: HP-95-225-256

Date Assayed: 11/15/95

Week/Tray: 95NOV13/AF019

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR20498		0.001	35
2	DXR20499		0.001	35
3	DXR20500		0.001	35
4	BLANK	Blank	0.001	35
5	DXR21001		0.001	35
6	DXR21002		0.001	35
7	DXR21003		0.001	35
8	DXR21004		0.001	35
9	DXR21005		0.001	35
10	DXR21006		0.001	35
11	C72971		0.001	35
12	C72972		0.001	35
13	C72973		0.001	35
14	CONTROL	Control	0.099	3390
15	C72974		0.001	35
16	C72975		0.006	205
17	C72976		0.001	35
18	C72977		0.001	35
19	C72978		0.001	35
20	C72979		0.030	1030
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

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Exploration 5675-1603

Hole Number: HP-95-257-256

Date Assayed: 11/15/95


Week/Tray: 95NOV13/AF024

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21039		0.001	35
2	DXR21040		0.001	35
3	DXR21041		0.001	35
4	DXR21042		0.001	35
5	BLANK	Blank	0.001	35
6	DXR21043		0.005	170
7	DXR21044		0.005	170
8	DXR21045		0.009	310
9	DXR21046		0.009	310
10	DXR21047		0.007	240
11	C72176		0.001	35
12	C72177		0.001	35
13	C72178		0.001	35
14	C72179		0.001	35
15	CONTROL	Control	0.100	3430
16	C72180		0.001	35
17	C72181		0.006	205
18	C72998		0.001	35
19	C72999		0.004	135
20	C73000		0.001	35
21				
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256

256

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~256~~-232

Date Assayed: 11/16/95

Week/Tray: 95NOV13/AF033

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	CONTROL	Control	0.096	3290
2	C72989		0.002	70
3	C72990		0.001	35
4	C72991		0.001	35
5	C72992		0.001	35

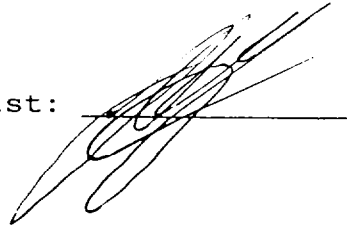
6	C72993		0.001	35
7	C72994		0.001	35
8	C72995		0.001	35
9	C72996		0.001	35
10	C72997		0.001	35

11	C72332		0.001	35
12	C72333		0.001	35
13	BLANK	Blank	0.001	35
14	C72334		0.012	410
15	C72335		0.001	35

16	C72336		0.001	35
17	C72337		0.001	35
18	C72338		0.001	35
19	C72339		0.008	275
20	C72340		0.036	1230

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Geologist: P. HARVEY

Chief Chemist: 

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CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-256

Date Assayed: 11/14/95

Week/Tray: 95NOV13/AF011

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB	
1	C72908		0.001	35	
2	C72909		0.001	35	
3	BLANK	Blank	0.001	35	
4	C72910		0.001	35	
5	C72911		0.001	35	
6	C72912			0.001	35
7	C72913			0.001	35
8	C72914		0.001	35	
9	C72915		0.001	35	
10	C72916		0.001	35	
11	C72926		0.001	35	
12	C72927		0.001	35	
13	CONTROL	Control	0.098	3360	
14	C72928		0.001	35	
15	C72929		0.001	35	
16	C72930		0.001	35	
17	C72931		0.001	35	
18	C72932		0.001	35	
19	C72933		0.001	35	
20	C72934		0.001	35	
21					
22					
23					
24					

Geologist: P.HARVEY

Chief Chemist: 

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DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS										Spl #	Wt%	T	COMMENTS 1	COMMENTS 2						
		Com	Grn	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE				METALLIC														
													Qtz	C%	B%	C%	Py	D%	E%	NFA	F%											
213		G	FG	KUB	GN	CHL	ZM						-				Tr				.001							21014	42.06		fault gouge zone; homogeneous matrix w/ chlorite filling fractures and voids as well as in gouge section; inc. py to 1% of host for last 5' of interval (sub.); weale ANK alt.	
2489		M	FG	HOM	GG	CC	IT						Tr				Tr				.001							21015	35.76		ite-carb veins and scattered grains of py (sub) assoc. w/ matrix and chlorite filled fractures (sub.); weale ANK alt.; SIL % increases w/ depth (harder to scratch)	
307		M	FG	VAR	GG	CHL	ZV						-				-				.001							21016	58.66		variatic to homogeneous to fractured matrix; distinct and coalesced varidies; chlorite filling fractures along w/ minor calcite	
382		M	FG	HOM	GG	SIL	IT						-				-				.001							21017	76.06		Rpd 100; SIL'd UM w/ chlorite and calcite filling fractures; variably brecciated texture w/ chloritized fragments and chlorite between fragments; difficult to scratch; SIL % decreases w/ inc. depth; sequence ends w/ brecciated zone in contact w/ underlying unaltered UM's	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #		Width		COMMENTS 1	COMMENTS 2												
		Com	Gr	Text	Co	Alt	Nam	B/S		GANGUE				METALLIC																							
								B	A1	J	A2	Qtz	C%	B%	C%	Py	D%	E%	NFR	F%																	
818		M	MG	BX	BK	ANK	IE																														
823		M	MG	BX	BK	ANK	IE																														
828		M	MG	MBX	GN	ANK	IE																														
832		M	FG	FP	GY	SIL	8fp		30																												
837		M	MG	MBX	GN	ANK	IE																														
842		M	MG	BX	BK	ANK	IE																														
882.6		M	MG	BX	BK	ANK	IE																														
895.8		M	FG	HDM	BN	CHL	ZM																														

21025 74.0 G
21026 5.0 C
21027 5.0 C
21028 7.0 C
21029 5.0 C
21030 5.0 C
21031 40.6 G
21032 13.2 G

stochyork-ANK veins w scattered grains of anh. py throughout; weak development of ANK porphyroblasts; inc. in chlorite and ANK porphyroblasts from 818-828'; matrix (langisulphur?) dylea from = 791-793'

grey to grey-pink fold spac porphyry = chloritized upper and lower contacts; minor fine dissem. py throughout matrix

inc. devel. of ANK porphyroblasts to depth and chlorite assoc. w ANK filling fractures; scattered coarse py (sub. to anh.) throughout matrix and anh. py assoc. w chlorite in fract.; Rpd 100; strong ANK alt; IL F moderate blistite and trace of py from = 872.8 to 874.6 may also be a strongly ANK'd porphyry; texture v. coarse & framed by chlorite; ANK porphyroblasts late in sequence

brown to brown-green matrix w chlorite filling microfractures and finely dissem. py; scattered grains of coarse anh. py late in interval

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2				
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC												
										qtz	cZ	B%	C%	Py	D%	E%	N	F	F%									
1274		M	FG	BX	GN	ANK	Hu	Q	60		1			TV					.001					21056	1.0	C	mixture of 1/4" and felsite-like finegrains; minor sulphide assoc. in fractures	
1276		M	FG	FRA	TN	ALB	84	Q	40		8				4				.004					21057	2.0	C	tan felsite w/ abundant microfractures and qtz veins (T) up to 1/4"; contact w/ ves/vein unit marked by qtz vein @ 80° TCA (3/4"); fine dissem. of throughout interval - coarse near upper contact	
1281		M	FG	BX	GN	ALB	1c?				TV				TV				.001					21058	5.0	C	brecciated 1c w/ abundant tan stringers and paleos (ALB alb) traces of sulphide assoc. to fractures and scattered coarse grains (c.b.) in matrix	
1286		M	MG	BX	BN	ANK	1c?				TV				TV				.001					21059	5.0	C	brown to brown-green intensely brecciated rock w/ strong ANK alt. and/or minor high angle (TEA) qtz veins (2-4"); matrix dylse from 1284.3-1285.6'	
1287.3		M	FG	FRA	TN	ALB	84	Q	80		10				6				.001					21060	1.3	C	tan felsite w/ abundant qtz veins from 1/2"-1"; intensely chloritized contacts w/ surrounding rocks	
1289		G	FG	FRA	BK	ANK	1c	Q	90		2				TV				.001					21061	1.7	C	soft (easy to scratch), strongly ANK'd UM; broken fractured core - possible fault gouge; qtz vein 2 1/2" wide @ 1288.2 @ 70° TCA	

1299
1300/1001

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS										Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Py	O%	Cpy	E%						NPA	F%	Am
1294		M	FG	FP	PK	SIL	8fp	9	60						2								21062	5.0	C	pink to pink-green to green-black FP w abundant fracture and qtz veins up to 1/4";	
1299		M	MG	FP	PK	SIL	8fp	9	60						5								21063	5.0	C	anh. to subh. py conc. along fractures; fine to coarse euh. to subh. py. disse. throughout;	
1304		M	MG	FP	PK	SIL	8fp	9	80						8								21064	5.0	C	dark green bands of fracture fillings (chlorite?) (tourmaline?); sinuous contact w underlying UMT's @ low angles (sub-parallel).	
1307		M	MG	FP	PK	SIL	8fp	9	80						10								21065	3.0	C		
1309.6		M	FG	FP	PK	SIL	8fp	9	60						5								21066	2.6	C		
1313		B	MG	BX	GN	ANK	1c																21067	3.4	C	green to green-brown ym w strong ANK alth as stockwork veins and coarse ANK porphyroblasts	
1315.3		M	FG	FP	PK	SIL	8fp	9	45						1								21068	2.3	C	minor qtz veins, euh. py in matrix; chlorite assoc. to qtz veinlets (T)	
1320.3		M	MG	BX	GN	ANK	1c																21069	5.0	C	coarse ANK porphyroblasts and limited ANK veins; chlorite filling fractures assoc. to ANK	
1325		M	MG	BX	GN	ANK	1c																21070	4.7	C		
1327		M	MG	MDX	GN	ANK	1c																21071	2.0	C		
1329.6		M	FG	FP	BN	ANK	8fp	9	60						2								21072	2.8	C	ANK'd FP w finely disse. py throughout	

DIST	ID	ROCK DESCRIPTION						STRUCT.				MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2						
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	qtz	C%	B%	C%	Py	D%						E%	NFAF%				
1335		M	MG	MBX	BN	ANK	Ict										Tr			.010	21073	5.2 C								
1340		M	MG	MBX	BN	ANK	Ict										Tr			.001	21074	5.0 C								
1381		M	MG	MBX	BN	ANK	Ict										Tr			.001	21075	41.0 C								
1386		M	MG	MBX	BN	ANK	Ict										Tr			.006	21076	5.0 C								
1391		M	FG	FP	PK	SIL	Btp			Q45			Z				Z		.135	21077	5.0 C									
1396		M	MG	MIX	BK	CC	IE										Tr		.001	21078	5.0 C									
1401		M	MG	MIX	BK	CC	IE										Tr		.001	21079	5.0 C									
1483		M	MG	MIX	BY	CC	IE										Tr		.001	21080										
1483.0						EDH																								

COMMENTS 1	COMMENTS 2
strong ANK alt w coarse porphyroblasts and mod. stockwork remain; chlorite filling fractures and assoc. w ANK.	
pink to pink-green FP w fine disse. py (eul.); VISIBLE GOLD in centre of 1/4" wide qtz vein @ 75' TCA @ ± 1388'	
calcite alt'd unit w calcite filling fractures and calcite porphyroblasts; chert patches common after ± 1440'; RPD 100	
EDH	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-257-256

Date Assayed: 11/15/95

Week/Tray: 95NOV13/AF024

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21039		0.001	35
2	DXR21040		0.001	35
3	DXR21041		0.001	35
4	DXR21042		0.001	35
5	BLANK	Blank	0.001	35
6	DXR21043		0.005	170
7	DXR21044		0.005	170
8	DXR21045		0.009	310
9	DXR21046		0.009	310
10	DXR21047		0.007	240
11	C72176		0.001	35
12	C72177		0.001	35
13	C72178		0.001	35
14	C72179		0.001	35
15	CONTROL	Control	0.100	3430
16	C72180		0.001	35
17	C72181		0.006	205
18	C72998		0.001	35
19	C72999		0.004	135
20	C73000		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

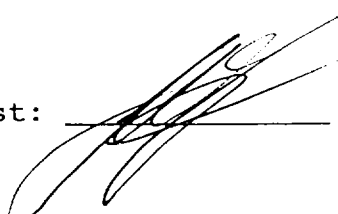
Hole Number: HP-95-~~257~~232

Date Assayed: 11/16/95

Week/Tray: 95NOV13/AF039

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21066		0.005	170
2	DXR21067		0.001	35
3	DXR21068		0.028	960
4	DXR21069		0.001	35
5	DXR21070		0.001	35
6	DXR21071		0.001	35
7	DXR21072		0.008	275
8	PM-601	Control	0.320	10970
9	DXR21073		0.010	345
10	DXR21074		0.001	35
11	C72314		0.001	35
12	C72315		0.001	35
13	C72316		0.001	35
14	C72317		0.001	35
15	C72318		0.001	35
16	C72319		0.001	35
17	C72320		0.001	35
18	C72321		0.001	35
19	BLANK	Blank	0.001	35
20	C72322		0.001	35
21				
22				
23				
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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

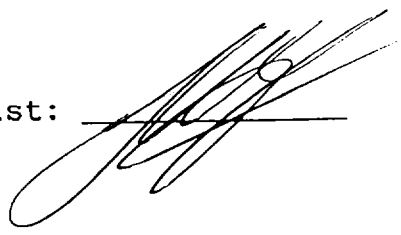
Hole Number: HP-95-257-232

Date Assayed: 11/16/95

Week/Tray: 95NOV13/AF040

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21075		0.001	35
2	DXR21076		0.006	205
3	CONTROL	Control	0.098	3360
4	DXR21077		0.135	4630
5	DXR21078		0.001	35
6	DXR21079		0.001	35
7	DXR21080		0.001	35
8	C72323		0.001	35
9	C72324		0.001	35
10	BLANK	Blank	0.001	35
11	C72325		0.001	35
12	C72326		0.001	35
13	C72327		0.001	35
14	C72328		0.001	35
15	C72329		0.001	35
16	C72330		0.001	35
17	C72331		0.001	35
18				
19				
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23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS					Spl #	Width	T	COMMENTS 1	COMMENTS 2							
		Com	Gr	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	Qtz	CZ						B%	C%	Py	D%	E%	NFA	F%
	381	M	CG	MBX	BK	TCL	IE						-					Tr			.001		21157	62.5 G		extensive calcite filled vein stockwork; minor serpentization; py (anh. to subh.) assoc. w chlorite filled fractures; black to black-green, variably bx'd	
	431	M	MG	HOM	GN	CHL	Zm?						-					Tr			.001		21158	50.0 G		chloritized matrix with calcite filling veins and fractures; variable chloritization (harder in some places, softer in others); patchy variolitic texture; calcite veins up to 2 1/2" wide (@ 80° TCA); chlorite filling fractures assoc. w traces of fine py; may also be silicified UM (IE)	
	454	M	MG	HOM	GN	CHL	Zm?						-					Tr			.001		21159	23.0 G			
	504	M	MG	MBX	BK	TCL	IE						-					Tr			.001		21160	50.0		black UM to weakly magnetic sections and calcite filling fractures; minor chlorite filling fractures; scattered coarse pyrite grains throughout; bx in. T depth	
	533.4	M	MG	BX	BK	TCL	IE						-					Tr			.001		21161	29.4 G			
	538.4	M	MG	BX	BK	TCL	IE						-					Tr			.001		21162	5.0 C			
	543.4	M	MG	BX	BK	TCL	IE						-					Tr			.001		21163	5.0 C			
	546.4	M	FG	NOM	GY	SIL	8fp						-					I			.001		21164	3.0 C		grey to 1% fine py dissem. throughout; minor fractures filled w calcite	
	549.4	M	FG	NOM	GY	SIL	8fp						-					I			.001		21165	3.0 C			
	554.4	M	MG	NOM	GN	CHL	IE						-					Tr			.001		21166	5.0 C		green black UM w chlorite filling fractures and voids; minor calcite in fillings	
	558	M	MG	NOM	GN	CHL	IE						-					Tr			.001		21167	3.6 C			

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #	Width	COMMENTS 1	COMMENTS 2									
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	Ch	B%	C%	Py	D%					E%	N	F%	AM					
690.7		M	MG	FP	PK	SIL	8cp	9	70	0	45											21184	2.7 C	pink-green FP w oaly. traces of py; qtz veins up to 3/4"; chlorite along edges of qtz veins (T)						
693.4		M	MG	FP	PK	SIL	8cp	9	70				10									21185	2.7 C							
698.4		M	MF	BX	GN	ANK	1ct																21186	5.0 C	as above for let to 688'; patchy devel. of ANK porphyroblasts; percentage of qtz-ANK veins gets less as depth.					
701.4		M	MF	BX	GN	ANK	1ct																21187	3.0 C						
704.4		M	MF	BX	GN	ANK	1ct																21188	3.0						
708.1		M	FG	MBX	GG	SIL	8cp																	21189	3.7 C	grey to grey-green FP - heavily silicified				
713		M	CG	BX	BK	ANK	1ct																	21190	4.9 C	as above for let; devel. of coarse ANK porphyroblasts; black to black-brown; easy to scratch; isolated coarse py grains				
718		M	CG	BX	BK	ANK	1ct																	21191	5.0					
768		M	MG	BX	BK	ANK	lte																	21192	50.06	weak streakwork of ANK veins; variable devel. of ANK porphyroblasts; isolated emb. py grains				
818							lte																		21193		50.06			
874							lte																		21194		56.06			
879							lte																		21195		5.0 C			
884							lte																		21196		5.0 C			
899		M	FG	HOM	GY	SIL	2m																		21197	5.0 C	maybe silicified UM; chloritoid layers contact, indistinct MBX lanes contact to UM's; qtz veins (T) up to 1/4" wide (also in interval)			
894							2m																			21198		5.0 C		
898.3							2m	9	70				2													21199		4.3 C		

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS											Spl #	Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	F	GANGUE				METALLIC											
												Pt	CZ	BZ	CZ	Pt	DZ	EZ	NEF%	AM							
901.3		M	MG	BX	GN	ANK	Ite							Tr				.001		21200	3.0	C	variably bx'd; easy to scratch w/ knife; minor devel. of ANK, partially reblasts; strong ANK; attn: sharp chloritic contact w/ underlying \rightarrow <u>EP</u>				
904.3							Ite							Tr				.001		21201	3.0	C					
909.3							Ite							Tr				.001		21202	5.0	C					
914.3							Ite							Tr				.001		21203	5.0	C					
918.3		M	FC		PR	LS	8fp		160					S				.022		21204	4.0	C	pink green / -spar porphyry; numerous tensional qtz veins up to 1/4" (whol mineralized)				
923.3		M	CG	BX	GN	ANK	Ite							Tr				.001		21205	5.0	C	Variable ANK streak work out level of ANK partially reblasts; R&D 100; note yellow \rightarrow - then by sink / ventat 2" wide @ 991'				
928.3							Ite							Tr				.001		21206	5.0	C					
991							Ite							Tr				.001		21207	62.7	G					
1053		M	CG	MBX	BK	TCL	It							-				.001		21208	62.0	G	typical talc-chlorite alt'd GIM; calcite and chlorite filling fractures and voids green-black to black; very soft; R&D 100				
1108		M	FC	HUM	GM	CHK	2...							Tr				.001		21209	61.0	G	chloritic matrix minor dark red (log of fracture (case calcite) / aspx rock chlorite filling fractures				
1139.8		M	MG	MBX	BK	TCL	It							Tr				.001		21210	31.8	G	calcite filling fractures; very soft (tallose); chloritic contact in underlying laugraphyre				
1144.8		M	MG	MBX	BK	TCL	It							Tr				.006		21211	5.0	C					

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS				METALLIC						Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Gr	Text	Co	Alt	Nom	B	A1	J	A2	Qtz	C%	B%	C%	Py	0%	E%	N%	F%															
1203		M	CG	BX	BN	ANX	1c								Tv						.001				21225	5.0	E			variably bx'd UM w strong ANK alt'n; varied					
1208															Tv						.001				21226	5.0	E			qtz ANK stockwork -> dec. in intensity to depth;					
1213															Tv						.004				21227	5.0	E			coarse ANK porphyroblasts; becoms more					
1218															Tv						.001				21228	5.0	E			green m. color (fuchsite) thin; base of					
1223															Tv						.001				21229	5.0	E			interval; fine sub. py. r. fractures assoc					
1228			FG	MBX	GN										Tv						.001				21230	5.0	F			in chlorite					
1233			FG	MBX	GN	ANX	1c														.001				21231	5.0	E								
1234		M	FG	HOM	GN	Fu	1Fu								Tv						.001				21232	1.0	E			fine-grd fuchsite altered UM w minor qtz					
12378		M	FE	FF	PK	SIL	8Fp	2160													.032				21233	3.8	E			pink to pink-green to green FP in tan arg. (Tci)					
12428		M	FG	HT	GN	Fu	1Fu														.001				21234	5.0	E			see spec for thin from 1233-1234					
12523		M	CG	BX	GN	ANX	1c								Tv						.001				21235	5.0	E			variably bx'd UM w strong ANK alt'n; strong					
12523			CG	BX			1c								Tv						.002				21236	5.0	E			qtz-ANK stockwork early in interval; coarse					
1287			CG	MBX			1c								Tv						.001				21237	35.2	G			ANK porphyroblasts throughout; chlorite					
1292			MG	MBX			1ct								Tv						.001				21238	5.0	E			filling fractures often 1287					
1297			MG	MBX			1ct								Tv						.001				21239	5.0	E								

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-258-230

Date Assayed: 11/21/95

Week/Tray: 95NOV20/AF007

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21151		0.001	35
2	DXR21152		0.001	35
3	DXR21153		0.005	170
4	DXR21154		0.003	105
5	DXR21155		0.005	170

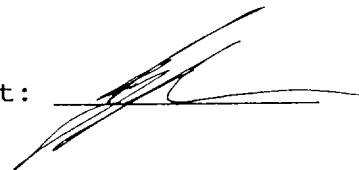
258	6 DXR21156	Blank	0.003	105
	7 BLANK		0.001	35
	8 DXR21157		0.001	35
	9 DXR21158		0.001	35
	10 DXR21159		0.001	35

11	C57433		0.001	35
12	C57434		0.014	480
13	C57435		0.046	1580
14	C57436		0.056	1920
15	C57437		0.001	35

16	C57438	Control	0.001	35
17	C57439		0.003	105
18	CONTROL		0.101	3460
19	C57440		0.004	135
20	C57441		0.006	205

21				
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24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~258~~-230

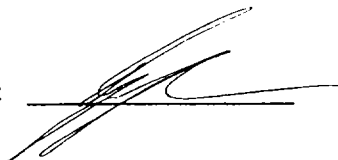
Date Assayed: 11/21/95

Week/Tray: 95NOV20/AF020

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21160		0.001	35
2	DXR21161		0.001	35
3	DXR21162		0.001	35
4	BLANK	Blank	0.001	35
5	DXR21163		0.001	35
6	DXR21164		0.001	35
7	DXR21165		0.001	35
8	DXR21166		0.001	35
9	DXR21167		0.001	35
10	DXR21168		0.001	35
11	C57442		0.001	35
12	C57443		0.001	35
13	C57444		0.001	35
14	CONTROL	Control	0.102	3500
15	C57445		0.001	35
16	C57446		0.001	35
17	C57447		0.001	35
18				
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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

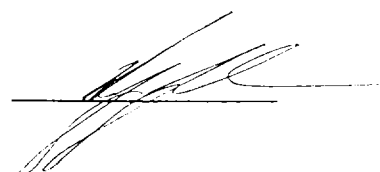
Hole Number: HP-95-~~258~~52

Date Assayed: 11/23/95

Week/Tray: 95NOV20/AF050

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21187		0.001	35
2	DXR21188		0.001	35
3	DXR21189		0.001	35
4	DXR21190		0.004	135
5	DXR21191		0.001	35
6	DXR21192		0.001	35
7	DXR21193		0.001	35
8	DXR21194		0.001	35
9	DXR21195		0.001	35
10	BLANK	Blank	0.001	35
11	DXR24363		0.006	205
12	DXR24364		0.001	35
13	DXR24365		0.002	70
14	DXR24366		0.033	1130
15	DXR24367		0.142	4870
16	DXR24368		0.108	3700
17	DXR24369		0.008	275
18	DXR24370		0.112	3840
19	DXR24371		0.076	2610
20	CONTROL	Control	0.099	3390
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-~~258~~52

Date Assayed: 11/22/95

Week/Tray: 95NOV20/AF026

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21169		0.018	615
2	DXR21170		0.001	35
3	DXR21171		0.001	35
4	DXR21172		0.001	35
5	DXR21173		0.001	35
6	DXR21174	Control	0.001	35
7	CONTROL		0.100	3430
8	DXR21175		0.070	2400
9	DXR21176		0.036	1230
10	DXR21177		0.087	2980
11	DXR24408		0.070	2400
12	DXR24409		0.001	35
13	DXR24410		0.001	35
14	DXR24411		0.001	35
15	DXR24412		0.001	35
16	BLANK	Blank	0.001	35
17	DXR24413		0.001	35
18	DXR24414		0.001	35
19	DXR24415		0.001	35
20	DXR24416		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-258-52

Date Assayed: 11/23/95

Week/Tray: 95NOV20/AF046

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21178		0.004	135
2	DXR21179		0.001	35
3	DXR21180		0.001	35
4	DXR21181		0.001	35
5	DXR21182		0.001	35
6	BLANK	Blank	0.001	35
7	DXR21183		0.001	35
8	DXR21184		0.010	345
9	DXR21185		0.003	105
10	DXR21186		0.001	35
11	DXR24345		0.004	135
12	DXR24346		0.008	275
13	DXR24347		0.001	35
14	DXR24348		0.001	35
15	CONTROL	Control	0.097	3330
16	DXR24349		0.001	35
17	DXR24350		0.001	35
18	DXR24351		0.001	35
19	DXR24352		0.001	35
20	DXR24353		0.028	960
21				
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24				

Geologist: P. HARVEY

Chief Chemist: EXPLORATION
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Exploration 5675-1603

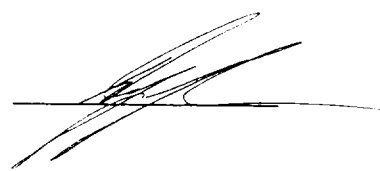
Hole Number: HP-95-~~258~~50

Date Assayed: 11/23/95

Week/Tray: 95NOV20/AF047

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21196		0.001	35
2	DXR21197		0.001	35
3	DXR21198		0.001	35
4	DXR21199		0.052	1780
5	DXR21200		0.001	35
6	DXR21201		0.001	35
7	BLANK	Blank	0.001	35
8	DXR21202		0.001	35
9	DXR21203		0.001	35
10	DXR21204		0.022	755
11	CONTROL	Control	0.098	3360
12	DXR24484		0.001	35
13	DXR24485		0.001	35
14	DXR24486		0.001	35
15	DXR24487		0.001	35
16	DXR24488		0.001	35
17	DXR24489		0.001	35
18	DXR24490		0.001	35
19	DXR24491		0.001	35
20	DXR24492		0.001	35
21				
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24				

Geologist: P. HARVEY

Chief Chemist: 

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Exploration 5675-1603

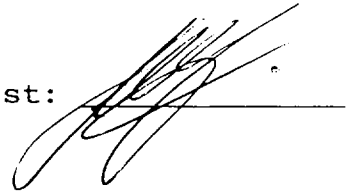
Hole Number: HP-95-258-50

Date Assayed: 11/27/95

Week/Tray: 95NOV20/AF062

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21223		0.038	1300
2	BLANK	Blank	0.001	35
3	DXR21224		0.001	35
4	DXR21225		0.001	35
5	DXR21226		0.001	35
6	DXR21227		0.004	135
7	DXR21228		0.001	35
8	DXR21229		0.001	35
9	DXR21230		0.001	35
10	DXR21231		0.001	35
11	DXR24493		0.001	35
12	DXR24494		0.004	135
13	DXR24495		0.001	35
14	CONTROL	Control	0.098	3360
15	DXR24496		0.001	35
16	DXR24497		0.001	35
17	DXR24498		0.001	35
18	DXR24499		0.001	35
19	DXR24500		0.001	35
20	DXR24501		0.062	2130
21				
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Geologist: P. HARVEY

Chief Chemist: 

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CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-258-50
 Date Assayed: 11/27/95
 Week/Tray: 95NOV20/AF063

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21214		0.001	35
2	DXR21215		0.001	35
3	BLANK	Blank	0.001	35
4	DXR21216		0.002	70
5	DXR21217		0.003	105
6	DXR21218		0.016	550
7	DXR21219		0.007	240
8	DXR21220		0.009	310
9	CONTROL	Control	0.100	3430
10	DXR21221		0.027	925
11	DXR21222		0.012	410
12	DXR24466		0.001	35
13	DXR24467		0.001	35
14	DXR24468		0.002	70
15	DXR24469		0.001	35
16	DXR24470		0.001	35
17	DXR24471		0.002	70
18	DXR24472		0.001	35
19	DXR24473		0.001	35
20	DXR24474		0.001	35
21				
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23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

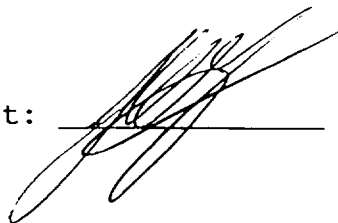
Hole Number: HP-95-258

Date Assayed: 11/27/95

Week/Tray: 95NOV20/AF077

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21232		0.001	35
2	DXR21233		0.032	1100
3	DXR21234		0.001	35
4	DXR21235		0.001	35
5	BLANK	Blank	0.001	35
6	DXR21236		0.002	70
7	DXR21237		0.001	35
8	DXR21238		0.001	35
9	DXR21239		0.001	35
10	DXR21240		0.006	205
11	DXR21241		0.002	70
12	DXR21242		0.001	35
13	DXR21243		0.001	35
14	DXR21244		0.001	35
15	CONTROL	Control	0.100	3430
16	DXR21245		0.001	35
17	DXR21246		0.001	35
18	DXR21247		0.001	35
19	DXR21248		0.001	35
20	DXR21249		0.002	70
21	DXR21250		0.001	35
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~258~~-259

Date Assayed: 11/29/95

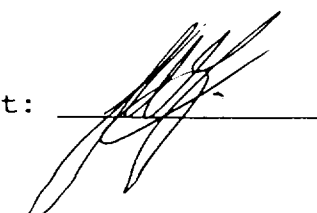
Week/Tray: 95NOV27/AF014

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21205	Control	0.001	35
2	CONTROL		0.091	3120
3	DXR21206		0.001	35
4	DXR21207		0.001	35
5	DXR21208		0.001	35
6	DXR21209		0.001	35
7	DXR21210		0.001	35
8	DXR21211		0.006	205
9	DXR21212		0.001	35
10	DXR21213		0.003	105
11	C87028	Blank	0.006	205
12	C87029		0.004	135
13	C87030		0.001	35
14	BLANK		0.001	35
15	C87031		0.001	35
16	C87032		0.001	35
17	C87033		0.044	1510
18	C87034		0.003	105
19	C87035		0.001	35
20	C87036		0.001	35
21				
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23				
24				

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Geologist: P. HARVEY

Chief Chemist: 

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PROJECT

Night Hawk-Hopson

Logged By:

K. Farrell

PAGE 1

CLAIMS
12583, 12580

CAT

Date: Nov 20, 1995
Page 1 of 6

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
HP95-259	6134.74	15998.52	10953.5	900				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	50	890	352	45									
200	345	48												
400	350	47												
600	350	46												

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS						Spl #	Width	T	COMMENTS 1	COMMENTS 2										
		Com	GrS	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE			METALLIC																	
												A%	B%	C%	Py	D%	EX	N	F%													
23	orb																															
43		B	MG	HOM	BK	TCL	LE																.001	87001	20.06		sheared, broken fractured core to slabs and rubbed sections; extremely soft and talcose; shearing foliation @ 45° TCA; sharp contact to underlying silicified matrix					
116		M	FG	HOM	GG	SIL	ZM																.001	87002	73.06		green-grey heavily silicified matrix to bed sections					
154		M	FG	HOM	GN	LEN	ZM																.001	87003	38.06		fine leucocene porphyroblasts; chlorite filling fractures; isolated coarse anh. py. assoc. to chlorite fractures					
178		M	FG	EX	AI	SIL	ZPB																.001	87004	24.06		intact, to bed; site dec. rapidly to lower end of interval, which is redist. to bed					

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS							COMMENTS 1	COMMENTS 2			
		Com	Grn	Text	Co	Alt	Nam	B/S	J/F	qtz	C%	B%	C%	Py	0%	E%			NFA%	F%	Spl #
278		M	FG	HOM	GN	lea	Zm			Tr				Tr		.001		87005	50.0 G		as for 116-154'
278		M	FG	HOM	GN	SIL	Zm			Tr				Tr		.001		87006	50.0 G		moderately silicified; chlorite and calcite filling fractures
328		M	FG	BX	GN	SIL	Zpb			Tr				Tr		.001		87007	50.0 G		as for 154-178'; chlorite content inc. toward end of interval
384.7		M	FG	BX	GN	SIL	Zpb			Tr				Tr		.001		87008	56.7 G		
389.7		M	FG	HOM	GN	CHL	Zpb			Tr				Tr		.001		87009	5.0 C		
394.7		M	FG	BX	GN	SIL	Zpb			Tr				Tr		.006		87010	5.0 C		heavily silicified; green-pink matrix w/ chlorite filling fractures along to K-spar and patchy py; pink-red hue may be due to hematite.
400		M	FG	BX	GN	SIL	Zpb			5				Tr		.038		87011	5.3 C		
405		B	FG	BX	GN	AMC	Zpb							Tr		.018		87012	5.0 C		
408.8		B	MG	BX	GN	ANK	IC			Tr				Tr		.001		87013	3.8 C		green bed. H.M.E. strong ANK. etc. as porphyry. least had no red stockwork for last 6" of interval
412.8		M	FG	MBX	PK	SIL	8fp		70		3			Tr		.001		87014	4.0 C		pink to pink-tan FP w scattered qtz veins @ high angle. TCK; chlorite infilling fractures w/ assoc. fine py; qtz patch from 410.8-411.3 w/ chlorite filling margins

DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS												Spl #	Width	T	COMMENTS 1	COMMENTS 2		
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	C%	B%	C%	Py	D%	Cp	E%	NFA	F%								
558		M	MG	HOM	RD	ANK	8Fp																		87033	1.0 c		red-green FP to shotg. py (eul.) in matrix; no qtz veins; sharp upper and lower contacts	
563		M	CG	MBX	BN	ANK	1cf																		87034	5.0 c		variably br'd; becomes greener toward end of interval; coarse ANK porphyroblasts	
568		M	CG	MBX	BN	ANK	1cf																		87035	5.0 c			
573		M	CG	HOM	GN	ANK	1c																		87036	5.0 c		strongly ANK'd; traces of fuchsite	
577		M	FG	HOM	GN	SER	8F																		87037	4.0 c		green fuchsite fine dissemin. py and minor late veins; conc. of py in fractures from 573-577; molybdenite along qtz veins w. py; trace Moly	
580.5		M	FG	HOM	GN	SER	8F	30	80																87038	3.5 c			
583.2		M	FG	MBX	GN	Fu	1Fu	30																	87039	2.7 c		bright green fuchsite alt'n; mildly br'd.	
586.2		M	FG	HOM	TN	ALB	8F	40																	87040	3.0 c		tan to tan w green spotting; variable to patchy py content; 2" qtz vein @ 585.3; sharp upper and lower contacts; coarse py (eul.) conc. in qtz veins	
588.6		M	FG	HOM	TN	ALB	8F	20																	87041	2.4 c			
594		M	FG	BX	GN	Fu	1Fu																		87042	5.4 c		as above from 580.5-583.2	

603-620.1
.018/17.1

DRILL HOLE HP95-254
Page 5 of 6

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS				METALLIC					Spl #	Width	T	COMMENTS 1	COMMENTS 2	
		Com	Grn	Text	Co	Alt	Nam	B	A1	J	A2	qtz	C%	B%	C%	Py	D%	Op	E%	NFA%						AM
596.3		M	FG	HOM	TN	ALB	8F															87043	2.3	E	as above from 583.2-588.6'; mildly ser'd	
601.3		M	CG	BX	GN	ANK	IC															87044	5.0	E	typical green carb aff'd. LIM to extensive qtz-ANK. Ser. stochwork; hard to scratch; no evidence of sulphides	
603		M	CG	BX	GN	ANK	IC															87045	1.7	E		
608		M	FG	HOM	GN	SER	8F															87046	5.0	E	as above from 873-880.5; little qtz veins and fine disse. py; malybedente along qtz fractures	
613																						87047	5.0	E		
618																						87048	5.0	E		
620.1																						87049	2.1	E		
625		M	CG	BX	GN	ANK	IC															87050	4.9	C	mild to strong ser. and qtz-ANK stochwork; py conc. along fractures in qtz-ANK	
630		M	CG	MBX	BN	ANK	IC															87051	5.0	C		
662.B		M	CG	BX	BK	ANK	IC															87052	32.8	G	silicified contact in underlying lt; chlorite and calcite in fractures more common w depth	
696		M	MG	MBX	BK	TCL	IC															87053	33.2	G	typical talc chlorite alt'd LIM	

720-726' 12/1/78

DIST	ID	ROCK DESCRIPTION						STRUCT.				MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2									
		Com	Grs	Text	Co	Alt	Nam	B/S	J/F	B	A1	J	A2	GANGUE				METALLIC															
													Qtz	C%	B%	C%	Py	D%	E%	NFA	F%												
712		M	CG	HOM	BN	ANK	IC						-					TV			.001			87054	16.0	6	coarse ANK porphyroblasts; interval ends w/ disappearance of coarse ANK porph's; trace of py in matrix						
715		M	MG	MBX	GN	ANK	IC						1					TV			.001			87055	3.0	6	massive moderately coarse grained UM; strong ANK alt. - dark green; poorly developed res. network; chloritized large contact						
720		M	MG	MBX	GN	ANK	IC						1					TV			.001			87056	3.0	6							
723.4		M	FG	FP	PK	SIL	8 _p						5				3				.016			87057	3.4	6	pink to pink green FP w. tourmaline along fractures; coarse grained from 720-723.4' F-F-spur phenocrysts (pseudomorphs?); py coarser from 720-723.4						
726.8		M	FG	FP	PK	SIL	8 _p						2				2				.039			87058	3.4	6							
731.8		M	CG	MBX	GN	TCL	1E						TV					TV			.001			87059	5.0	6	soft mild ANK alt. - talc chlorite along fractures; calcite along fractures in mic. depth - becomes black in mic. depth; talc abundant in mic. to depth and becomes in major fracture filling mimetic; isolated conc.'s of py along fractures						
736.8		M	CG	MBX	GN	TCL	1E						TV					TV			.001			87060	5.0	6							
800		M	CG	MBX	BK	TCL	1E						-					TV			.001			87061	63.2	6							
850		M	CG	HOM	BK	TCL	1E						-					TV			.001			87062	50.0	6							
900		M	CG	HOM	BL	TCL	1E						-					-			.001			87063	50.0	6							
	900																															EOH @ 900'	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-51-259

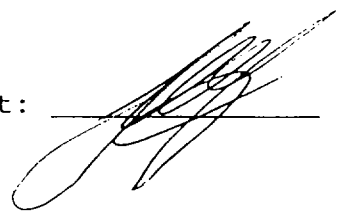
Date Assayed: 11/29/95

Week/Tray: 95NOV27/AF009

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24540		0.001	35
2	DXR24541		0.001	35
3	DXR24542		0.001	35
4	DXR24543		0.001	35
5	DXR24544		0.001	35
6	DXR24545		0.001	35
7	DXR24546		0.001	35
8	DXR24547		0.001	35
9	BLANK	Blank	0.001	35
10	DXR24548		0.001	35
11	C87037		0.042	1440
12	C87038		0.001	35
13	C87039		0.001	35
14	C87040		0.034	1170
15	C87041		0.098	3360
16	CONTROL	Control	0.103	3530
17	C87042		0.012	410
18	C87043		0.001	35
19	C87044		0.001	35
20	C87045		0.010	345
21				
22				
23				
24				

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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

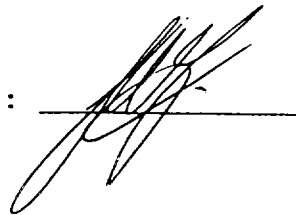
CERTIFICATE OF ANALYSIS

Exploration 5675-i603

Hole Number: HP-95-258-259
 Date Assayed: 11/29/95
 Week/Tray: 95NOV27/AF014

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR21205		0.001	35
2	CONTROL	Control	0.091	3120
3	DXR21206		0.001	35
4	DXR21207		0.001	35
5	DXR21208		0.001	35
6	DXR21209		0.001	35
7	DXR21210		0.001	35
8	DXR21211		0.006	205
9	DXR21212		0.001	35
10	DXR21213		0.003	105
11	C87028		0.006	205
12	C87029		0.004	135
13	C87030		0.001	35
14	BLANK	Blank	0.001	35
15	C87031		0.001	35
16	C87032		0.001	35
17	C87033		0.044	1510
18	C87034		0.003	105
19	C87035		0.001	35
20	C87036		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-51-259
 Date Assayed: 11/30/95
 Week/Tray: 95NOV27/AF038

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24522		0.001	35
2	DXR24523		0.001	35
3	DXR24524		0.001	35
4	DXR24525		0.001	35
5	DXR24526		0.001	35
6	CONTROL	Control	0.101	3460
7	DXR24527		0.001	35
8	DXR24528		0.001	35
9	DXR24529		0.001	35
10	DXR24530		0.001	35
11	C87010		0.006	205
12	C87011		0.038	1300
13	C87012		0.018	615
14	BLANK	Blank	0.001	35
15	C87013		0.001	35
16	C87014		0.001	35
17	C87015		0.001	35
18	C87016		0.001	35
19	C87017		0.001	35
20	C87018		0.001	35
21				
22				
23				
24				

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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-81-259

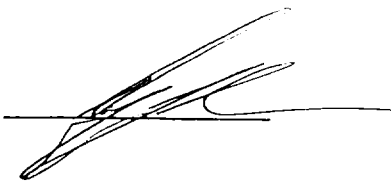
Date Assayed: 11/29/95

Week/Tray: 95NOV27/AF017

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24549		0.001	35
2	DXR24550		0.001	35
3	DXR24551		0.001	35
4	DXR24552		0.001	35
5	DXR24553		0.001	35
6	DXR24554		0.001	35
7	CONTROL	Control	0.099	3390
8	DXR24555		0.001	35
9	DXR24556		0.001	35
10	DXR24557		0.001	35
11	C87001		0.001	35
12	C87002		0.001	35
13	C87003		0.001	35
14	C87004		0.001	35
15	C87005		0.001	35
16	C87006		0.001	35
17	BLANK	Blank	0.001	35
18	C87007		0.001	35
19	C87008		0.001	35
20	C87009		0.001	35
21				
22				
23				
24				

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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-51-259

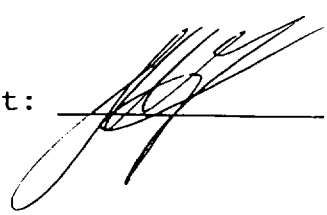
Date Assayed: 12/01/95

Week/Tray: 95NOV27/AF044

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24531		0.001	35
2	DXR24532		0.001	35
3	DXR24533		0.001	35
4	DXR24534		0.001	35
5	DXR24535		0.001	35
6	CONTROL	Control	0.098	3360
7	DXR24536		0.001	35
8	DXR24537		0.001	35
9	DXR24538		0.001	35
10	DXR24539		0.042	1440
11	C87019		0.001	35
12	C87020		0.001	35
13	C87021		0.001	35
14	C87022		0.001	35
15	C87023		0.001	35
16	C87024		0.001	35
17	C87025		0.001	35
18	C87026		0.001	35
19	C87027		0.001	35
20	BLANK	Blank	0.001	35
21				
22				
23				
24				

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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

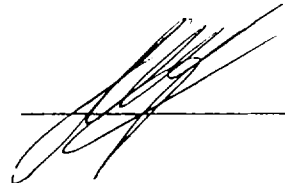
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-259
 Date Assayed: 12/01/95
 Week/Tray: 95NOV27/AF042

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87046		0.022	755
2	C87047		0.014	480
3	C87048		0.018	615
4	C87049		0.014	480
5	C87050		0.001	35
6	C87051		0.001	35
7	C87052		0.001	35
8	CONTROL	Control	0.098	3360
9	C87053		0.001	35
10	C87054		0.001	35
11	C87055		0.001	35
12	C87056		0.001	35
13	C87057		0.016	550
14	C87058		0.039	1340
15	C87059		0.001	35
16	C87060		0.001	35
17	C87061		0.001	35
18	BLANK	Blank	0.001	35
19	C87062		0.001	35
20	C87063		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	qtz	Py	Cpy					
374		M	CG	MSV	BK	TCL	It									87068	50.0	G.001		typical talcose UMT calcite fracture
374		M	CG	MSV	BK	TCL	It									87069	50.0	G.001		fillings along to talc and chlorite m
445		M	CG	MSV	GY	TCL	It									87070	71.0	G.001		voids and fractures; black and very soft, becomes gray after $\approx 400^\circ\text{F}$ mild ANIC alt'n; interval ends w ruffled fractured core from $\approx 438' - 445'$; traces of py in calcite veins
490		M	FG	MSV	GG	SIL	Zm									87071	55.0	G.001		silicified matrix w mildly brecciated sections and traces of py (and minor cpy) along qtz veins; UMT section (slightly silicified) from $\approx 458' - 465'$; banded section in the heavily silicified grey areas
540		F	CG	MSV	GG	TCL	It									87072	50.0	G.001		as above to 445'; compact massive core
590		M			GG		It									87073	50.0	G.001		to near end of 1st 50' int, where it becomes
640					GN		It									87074	50.0	G.001		fractured and broken with ruffled sections
697					GN		It									87075	57.0	G.001		matrix silicified section w up to 1% py
702					BN		It									87076	5.0	C.001		from $\approx 543' - 546'$; w inc. depth becomes homogeneous massive TCL alt'd
704.4		M	MG	MBX	RD	HEM	857									87077	2.4	C.001		strong hematite alt'n; chlorite in fractures; v. hard to scratch

DRILL HOLE NO: K95-260PAGE 3 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S	A1	J/F	A2	Py	Px						
709.4		M	CG	MSV	BN	TCL	It									87078	5.0	C	.001	as previous for It; v. soft; isolated coarse
737.8		M	CG	MSV	BN	TCL	It									87079	28.4	G	.001	py grains; rubble from @ 733-734.9
753		M	CG	MSV	BN	ANK	lct									87080	15.2	G	.001	stockwork veins and assoc. PBLs; v. soft;
759		M	CG	MSV	BN	ANK	lct									87081	5.0	C	.001	coarse ANK porphyroblasts inc. w depth; mod. ANK alt'n
759		M	FG	MSV	BN	ANK	8fp					q 10 q 75 6				87082	1.0	C	.002	minor qt veins; moderate ANK alt'n; minor traces of sulphide in matrix - not conc. w qt veins
764		M	MG	MSV	GN	ANK	lct									87083	5.0	C	.001	mod. coarse ANK pbls; strong ANK
787		M	MG	MSV	GN	ANK	lct									87084	23.0	G	.001	alt'n; quite soft (easy to scratch);
792		M	CG	MSV	BN	ANK	lct									87085	5.0	C	.001	isolated coarse py grains in matrix;
797		M	CG	MSV	BN	ANK	lct									87086	5.0	C	.001	vaguely oriented fabric @ ~ 60° TCA
801.8		M	FG	MSV	CR	SIL	8fp									87087	4.8	C	.011	fine grd silicified FP w shotgun distrib'n of ent. py in conc's of close to 2% in patches; chlorite and minor molybdenite in fracture; cream to green-brown to green-black; heavily silicified; sharp upper and lower contacts

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J	A2	Qtz	Px	B					
805		M	CG	BY	GN	FU	lfu									87088	3.2	c	.001	variably sized; hematite stained rubble
810						FU	lfu									87089	5.0	c	.001	@ ~ 806.5 (3' zone) - qtz veins in lfu
815						FU	lfu									87090	5.0	c	.001	802.6' (4") @ 45° TCA; 804.7' (1") @ 70° TCA
820						FU	lfu									87091	5.0	c	.001	816.5' (1 1/4") @ 50° TCA; 823.7' (1") @ 60° TCA
825						ANK	lc									87092	5.0	c	.001	only minor traces of sulphide; from 820 to
830					BN	ANK	lc									87093	5.0	c	.001	825' is mixture of lfu and lc
835					BN	ANK	lc									87094	5.0	c	.001	
853.1		M	CG	STNK	GB	ANK	lct									87095	18.1	G	.001	as previous for lct; well developed qtz-ANK
858.1		M	CG	STNK	GB	ANK	lct									87096	5.0	c	.001	stalwork
859.1		M	MG	MSV	GY	ANIK	8fp									87097	1.0	c	.001	strongly ANK'd FP w no qtz veins and minimal sulphides; sharp upper and lower contacts; coalesced ANK pbls
864.1		M	CG	STNK	GN	ANK	lct									87098	5.0	c	.001	as-for 835-858.1 (lct); indistinct
869		M	CG	STNK	GN	ANK	lct									87099	4.9	c	.001	transition to massive lc unit underneath

DRILL HOLE NO. H895-260

PAGE 5 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Py	Cpy					
874		M	CG	MSV	GG	ANK	lc									87100	5.0	C	.001	strongly ANK'd; massive textured to bright green patches of fuchsitic alt'n conc. around qtz ANK veins
879							lc									87101	5.0	C	.001	
884							lc									87102	5.0	C	.001	
887.8							lc									87103	3.8	C	.001	
890.8							lc									87104	3.0	C	.001	
894.8		M	FG	MSV	VI	SIL	8fp					Z		Tr		87105	4.0	C	.009	violet grey FP; extremely silicified - except timally hard; light and dark banding; sericite conc. along fractures (green); traces of py along sericite fractures; sharp contacts; may be traces of molybdenite along fractures (difficult to see); extensive fine fracture system filled w qtz
899.7		M	FG	MSV	VI	SIL	8fp					Z		Tr		87106	4.9	C	.042	
904.2		M	MC	MSV	GN	Fu	1fu					1		Tr		87107	4.6	C	.004	as for previous 1fu; mildly brecciated
906		M	FL	NOTL	TN	ALB	8f					1		Tr		87108	1.8	C	.001	mottled felsite w spotting of green fuchsitic alt'n throughout. chlorite in fractures (black) in central 5' d section assoc. w fuchsitic alt'n and qtz patch

917.8-959.5
.028/37.7

DRILL HOLE NO. HP95-260

PAGE 6 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	Qtz	Pg	Cpy					
	911	M	CG	PBLs	GN	ANIK	lc									87109	5.0	C.001		green to green-black um to extensive coarse
	916						lc									87110	5.0	C.001		ANIK pbls; broken rusted core @ ~ 910.5'
	919.8						lc									87111	3.8	C.003		isolated chloritic bands; interval ends in small section (~ 9") of mixture of MSV lc and lfu in a banded pattern
	924	M	FG	MSV	GN	SER	8f	Q	40			3		1	Tr	87112	4.2	C.014		green felsite in sections that appear to have porphyritic (8fp?) scattered throughout;
	929							Q	60			1				87113	5.0	C.010		not extensively Qtz veined, becoming more
	934							Q	40			1				87114	5.0	C.047		Qtz rich to inc depth and more bx'd
	939							Q	40			2				87115	5.0	C.014		blue to Qtz veins; traces of cpy throughout
	944							Q	10	Q	50	8				87116	5.0	C.046		and coarse cpy in a Qtz vein @ ~ 937.8'
	949							Q	20	Q	40	5				87117	5.0	C.050		sharp upper and lower contacts to lfu;
	954							Q	10			3				87118	5.0	C.018		small Qtz veinlets predominantly @ 10-20'
	957							Q	10			3				87119	3.0	C.017		TCA; massive sulphide conc. in fractures
	959.5							Q	10			3				87120	2.5	C.030		throughout assoc. to Qtz and sericite; minor amounts of dark mcl along fractures (molybdenite?); may be some chlorite conc. along fractures

DRILL HOLE NO. H095-260

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Px						
961.7		M	MG	BK	GN	FU	1Fu		2	10			2		Tv	87121	2.2	c.018		Sx'd to minor low angle (TCA) unmineralized qtz veins; sharp upper and lower contacts
963.3		M	FG	FP	PK	ANK	8FD						1			87122	1.6	c.028		small F-spar phenocrysts; sharp contacts; minor qtz veining; pink-tan; weakly sericitized around veinlets; mod. to strong patchy ANK alt'n
965		M	MG	MSV	GN	FU	1Fu						-			87123	1.7	c.001		spotty fuchsitic alt'n as depth inc.; indistinct lower contact as rock grades into lc - gradual dec. in spotty fuchsitic alt'n
970		M	CG	PBLs	GN	ANIC	lc						-		Tv	87124	5.0	c.001		green to green brown to brown to limited qtz-ank veining; extensive development of PBLs texture of ANIC
975		M	CG	PBLs	BN	ANIC	lc						-		Tv	87125	5.0	c.001		
977.3		M	MG	SPT	GN	FU	1Fu						-		Tv	87126	2.3	c.001		as previous for 1Fu; mottled to spotty texture of fuchsitic alt'n

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE	METALLIC	SAMPLE #	WIDTH	T	AU <input type="checkbox"/> opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B	A1	J							
978.4		M	FG	MSX	TN	ALB	8f						Tr	1	87127	1.1	c.002	dark tan felsite in minor dissem. py and no qtz veining; fuchsitic frag. (1fu) caught up in felsite
980.4		M	MG	SPT	GN	FU	1fu						1	Tr	87128	2.0	c.001	as for 975-977.3
985.4		M	CG	PBLS	BN	ANK	1c						Tr	Tr	87129	5.0	c.001	well developed coarse porphyroblastic texture; scattered qtz-ANK veining; sequence becomes extremely silicified over last couple of feet to 995.8; indistinct upper contact, sharp lower contact; ground up rassy core @ ~991' - may represent 1.5-2' of real depth
990.4							1c								87130	5.0	c.001	
995.8							1c								87131	5.4	c.001	
996.8		M	FG	MSV	PK	SIL	8fp		q 60	q 40	5		2		87132	1.0	c.001	small (6-7") FFW 1fu sections on either end; extremely hard and silicified; sharp upper and lower contacts; sulphides in matrix - not conc. along qtz veinlets

1028-1035.2
.054/7.2

DRILL HOLE NO. MP95-260

PAGE 9 OF 10

DIST	ID	ROCK DESCRIPTION					STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	GrS	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Py					
1000.8		M	CG	PBLS	GY	ANIK	lc					Tr	Tr	87133	7.0	c	.001		Porphyroblastic (ANIK) UM w patchy qtz-
1005.8					GD									87134	5.0	c	.001		ANIK overriming; variable grain size and
1010.8					BIC									87135	5.0	c	.001		abundance of ANIK pbls, becomes finer
1015.8					BN									87136	5.0	c	.001		grad to incl depth toward lower contact,
1020.8					GN									87137	5.0	c	.001		to FP underneath; sharp lower contact;
1025.8					GN									87138	5.0	c	.001		green color later in interval maybe due to
1028.					GN									87139	2.2	c	.004		local fuchitic alt'n; minor conc's of fuchsite around qtz-ANIK veinlets after 1020'; patchy devel of py up to near 1% of host in sections
1032.1		M	MG	MSV	PK	SIL	8Fp	q	40	q	60	4	2	Tr	87140	4.1	c	.044	pink-to pink-green FP w patchy seri-
1035.2		M	MG	MSV	PK	SIL	8Fp	q	40	q	60	4	4	Tr	87141	3.1	c	.068	cite alt'n; coarse py w in qtz veinlets w fine emb. py dissem. throughout matrix; sharp contacts; abundant tourmaline in matrix and acicula tourmaline assoc. w qtz veinlets; chlorite lower contact to UM (lc); patchy devel of Mo conc. along qtz veins; from 1032.1 1035.2 -> massive sulphide conc. along veins and coarse subh. py throughout matrix

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS	
		Com	GrS	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Py							
1038.2		M	CG	SPT	GN	ANK	lc						Tr	Tr			87142	3.0	C	.001	speckled to spotted dark-green UM. coarse to medium grained; sharp contacts; strong ANK alt'n
1041.6		M	CG	SP	GN	ANK	lc						Tr	Tr			87143	3.4	C	.001	
1046.6		M	MG	PBLS	BN	ANK	lct						-	Tr			87144	5.0	C	.001	porphyrostatic texture variable; moderate grt-ANK veining; v. minor amounts of py along fractures and veins; interval due to disappearance of ANK alt'n
1062.6		M	MG	PBLS	BN	ANK	lct						-	Tr			87145	16.0	G	.001	
1119.0		M	CG	MSV	GY	TCL	lt						-	Tr			87146	56.2	G	.001	typical talc-chlorite alt'd UM to calcite veining and chlorite, talc, and calcite along fractures; grey to grey-green; extremely soft
1119.0							EOH														EOH

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

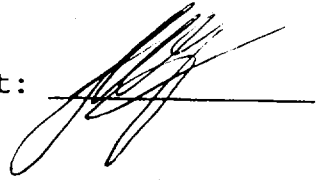
Hole Number: HP-95-260

Date Assayed: 12/12/95

Week/Tray: 95DEC11/AF023

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87091	Blank	0.001	35
2	C87092		0.001	35
3	BLANK		0.001	35
4	C87093		0.001	35
5	C87094		0.001	35
6	C87095		0.001	35
7	C87096		0.001	35
8	C87097		0.001	35
9	C87098		0.001	35
10	C87099		0.001	35
11	C87109	Control	0.001	35
12	C87110		0.001	35
13	C87111		0.003	105
14	C87112		0.014	480
15	CONTROL		0.102	3500
16	C87113		0.010	345
17	C87114		0.047	1610
18	C87115		0.014	480
19	C87116		0.046	1580
20	C87117		0.050	1710
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-260
 Date Assayed: 12/12/95
 Week/Tray: 95DEC11/AF013

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87073		0.001	35
2	C87074		0.001	35
3	C87075		0.001	35
4	C87076		0.001	35
5	CONTROL	Control	0.100	3430
6	C87077		0.001	35
7	C87078		0.001	35
8	C87079		0.001	35
9	C87080		0.001	35
10	C87081		0.001	35
11	C87118		0.018	615
12	C87119		0.017	585
13	BLANK	Blank	0.001	35
14	C87120		0.030	1030
15	C87121		0.018	615
16	C87122		0.028	960
17	C87123		0.001	35
18	C87124		0.001	35
19	C87125		0.001	35
20	C87126		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

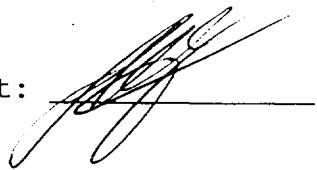
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-260
 Date Assayed: 12/12/95
 Week/Tray: 95DEC11/AF020

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87064		0.001	35
2	C87065		0.001	35
3	C87066		0.004	135
4	C87067		0.001	35
5	C87068		0.001	35
6	C87069		0.001	35
7	C87070		0.001	35
8	C87071		0.001	35
9	CONTROL	Control	0.100	3430
10	C87072		0.001	35
11	C87100		0.001	35
12	C87101		0.001	35
13	C87102		0.001	35
14	C87103		0.001	35
15	C87104		0.001	35
16	C87105		0.009	310
17	C87106		0.042	1440
18	C87107		0.004	135
19	C87108		0.001	35
20	BLANK	Blank	0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Assay Lab Copy

ROYAL OAK ANALYTICAL LABORATORY

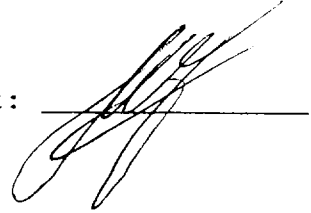
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-260
 Date Assayed: 12/12/95
 Week/Tray: 95DEC11/AF021

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	BLANK	Blank	0.001	35
2	C87082		0.002	70
3	C87083		0.001	35
4	C87084		0.001	35
5	C87085		0.001	35
6	C87086		0.001	35
7	C87087		0.011	375
8	C87088		0.001	35
9	C87089		0.001	35
10	C87090		0.001	35
11	CONTROL	Control	0.104	3570
12	C87127		0.002	70
13	C87128		0.001	35
14	C87129		0.001	35
15	C87130		0.001	35
16	C87131		0.001	35
17	C87132		0.001	35
18	C87133		0.001	35
19	C87134		0.001	35
20	C87135		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-262-260

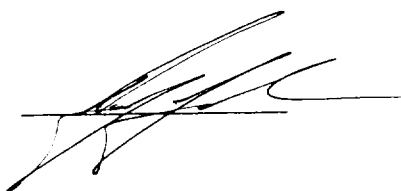
Date Assayed: 12/13/95

Week/Tray: 95DEC11/AF031

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50362		0.001	35
2	C50363		0.001	35
3	C50364		0.014	480
4	C50365		0.001	35
5	C50366		0.001	35
6	C50367		0.001	35
7	C50368		0.001	35
8	C87136		0.001	35
9	C87137		0.001	35
10	C87138		0.001	35
11	BLANK	Blank	0.001	35
12	C87139		0.004	135
13	C87140		0.044	1510
14	C87141		0.068	2330
15	CONTROL	Control	0.103	3530
16	C87142		0.001	35
17	C87143		0.001	35
18	C87144		0.001	35
19	C87145		0.001	35
20	C87146		0.001	35
21				
22				
23				
24				

260

Geologist: P. HARVEY

Chief Chemist: 

Assay Lab Copy

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Py						
193.6		M	FG	FP	GG	SIL	8fp					-		Tr		87157	5.0	C.001		intense silicification; fine f-spar phenocrysts
198.6							8fp					-				87158	5.0	C.001		throughout; sharp upper and lower
201							8fp					-				87159	2.4	C.001		contacts (chloritized)
206		SS	FG	SHD	GY	TCL	IE					-		Tr		87160	5.0	C.001		sheared fabric oriented @ 60-80° TCA;
218		B	FG	SHD	GY	TCL	IE					-		Tr		87161	12.0	G.001		upper contact intensely sheared @ 80° TCA (numerous disc-shaped pieces); abundant calcite filling fractures
278.1		M	FG	BX	GN	SIL	2pb					-		Tr		87162	60.1	G.001		mildly brecciated pillowed mafic w calcite and chlorite stain fragments; isolated grains and conc. of py along fractures assoc. w chlorite
303		M	CG	MSV	GN	CHL	IE					-		Tr		87163	24.9	G.001		soft; heavily chloritized; calcite in fractures; py assoc. w chlorite in fracture fillings
308		M	CG	MSV	GN	CHL	IE					-		Tr		87164	5.0	G.001		

DRILL HOLE NO: 1895-261

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU <input checked="" type="checkbox"/> opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J	A2	Qtz	Py						
310.7		M	FG	MSV	BN	SIL	8fp						-	Tr		87165	3.7	C.001		brown to brown-grey FP; heavily silicified; one qtz vein (T) to tourmaline and chlorite assoc.; traces of fine py throughout matrix
315.7		M	CG	MSV	GN	ANK	1c						-	Tr		87166	5.0	C.001		progressive ANK alt'n; pbs of ANK inc
345.9		M	CG	PBLS	GN	ANK	1ct						-	Tr		87167	30.2	G.001		v. abundance and size w. depth;
350.9		M	CG	PBLS	GN	ANK	1ct						-	Tr		87168	5.0	C.001		no qtz-ANK veining; indistinct layers and layer contacts
355.9		M	CG	MSV	GN	ANK	1c						-	-		87169	5.0	C.001		green to green yellow int w/lim. qtz veining
360.9		M	CG	MSV	GN	ANK	1c						-	-		87170	5.0	C.001		and no visible sulphides; v. hard to med. hard to scratch; weakly silic alt'n; qtz veins inc. toward contact w/underlying 1c

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS				
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J/F	A2	Qz	Py	B						A1	J	A2	
366		M	CG	MSX	GN	Fu	IFu													87171	5.1	C	.001	bright green UTM; coarsely x/line; variable
371																				87172	5.0	C	.001	decrease of brecciation and lts. ANK streak -
376																				87173	5.0	C	.001	more staining; hematite staining around
381																				87174	5.0	C	.001	carbonaceous material veins - intense HEM
386																				87175	5.0	C	.001	from zone ~ 376.7 - 377.4 and ~ 377.3 to
391																				87176	5.0	C	.001	376.5; small HEM. HEM patches up to
																								4" long from 366-371; fossils to alt'n
																								most of zone: from 376-387; begins
																								to become like 1c from ~ 387-391.
																								tensional qtz veins @ 40° and 20-90° TCA
393.5		M	CG	BX	GN	ANK	1c						2							87177	2.5	C	.001	felsite alt'n around some qtz - ANK veins.
																								the ANK streaks up to 10% of host; sharp
																								1a in contact; very hard; green to brown
397.7		M	FG	MSV	TN	ALB	8f													87178	4.2	C	.001	homogeneous, feldspar to sharp contacts;
																								only traces of v. fine qtz veinlets; sub-
																								py along fractures; HEM staining around
																								fracture @ ~ 394'

DRILL HOLE NO. HP95-261

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Gr	Ry						
401.7		B	CG	MSV	GN	FA	1fu									87179	4.0	C	.001	as for previous 1fu; blocky broken core in
404		M	CG	MSV	FA	FU	1fu									87180	2.3	C	.016	extensive HFH staining from ~398 to 398.5
408		M	MG	MSV	CR	SER	8fp	Q	30	Q	70	5				87181	4.0	C	.016	cream to tan, FP in highly dissem. SER
412.5		M	MG	MSV	CR	SER	8fp	Q	30	Q	70	5				87182	4.5	C	.018	throughout; patchy py devel. usually concentrated along fractures
417.5		M	CG	RV	GN	AJOL	1c						2			87183	5.0	C	.001	variable gr. size st network from 10-20% of
422.5																87184	5.0	C	.001	host; green to green brown fragments of
427.5																87185	5.0	C	.001	brown calcite (ANK'd UAI) with green-fuchsin
432.5																87186	5.0	C	.001	alt in area; gr. size veins; here like stain
437.5																87187	5.0	C	.001	from ~435.5-437'; broken ground-up core
442.5																87188	5.0	C	.001	from ~441.1-442.5; pink to alt. in area
447.5																87189	5.0	C	.001	at depth; locally isolated (fractures) py. assoc. to chlorite along fractures
452.5		M	CG	MSV	GN	FA	1fu									87190	3.0	C	.001	as previous for 1fu, gr. vein (T) 4" wide
457.5		M	CG	MSV	GN	FA	1fu									87191	3.0	C	.001	@ 449.3 @ ~40% TCA; minor chlorite along fractures

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Pz	P/Cy						
457		M	MG	FP	GR	SIL	8fp		Q 80				Z		Tr	87192	3.5		0.038	green yellow FP; spotty to stringy fibrotic alt'n (weak); strongly sericitized; qtz veinlets (ave. $\frac{1}{8}$") thin, irregular; sharp lower contact @ ~455' TCA; v. fine euh. py dissemin. throughout but sparse over all
459.3		M	MG	MSI	GN	FEL	1fn		Q 80				Z		Tr	87193	2.3		0.005	patchy qtz and qtz veinlets up to $\frac{1}{8}$ "; extremely fine traces of sulphide, 1 mm scale staining around fractures @ ~457.2' and ~459'; mildly S'd in latter half of interval
462.3		M	MG	FP	PK	SIL	8fp		Q 30	Q 70	J		5		Tr	87194	3.0		0.054	pink FP w coarse P-spar phenocrysts making up ~2% of rock; abundant euh. py through rock matrix and coarse anh. to sub. py around fractures; sharp con-tacts
463.7		M	MG	BY	GN	FEL	1fn		Q 60				Z		Tr	87195	1.4		0.001	brecciated; spotty fibrotic alt'n; could also be called whittled; sharp contacts

DRILL HOLE NO: 1095-261

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	B	A1	J	A2	qtz	P ₁					
468.7		M	MG	MSV	GN	SFR	8f _p		Q	30	Q	80	Z		Tr	87196	5.0	C	.001	milky Selenite and chlorite assoc. w/ fractures
473.7							8f _p		Q	60	Q	10	3		Tr	87197	5.0	C	.004	only traces of Mo; fuchsite alt'd patches
478.7							8f _p		Q	40			6		1	87198	5.0	C	.008	assoc. w/ fractures Ca ≈ 467' and ≈ 470.6';
481.5							8f _p		Q	40			3		Tr	87199	2.8	C	.007	fractured, br'd fuchsite fragment from ≈ 479.4 - 480.2; abundance of py limited - most abundant from 473.7 - 478.7 in patches up to 2-3% of host; coarse emb. py assoc. w/ chlorite fractures; sharp conchoidal; hard to scratch; green to pink green; qtz vein (T) 2 1/2" wide Ca ≈ 471.2 (w/ 10° TCA); most low angle (0-10° TCA) qtz veinlets < 1/8" and low structural dip/sols
486.5		M	CG	SS	BN	AN/C	IC							Tr	Tr	87200	5.0	C	.001	brn to h green brown mat in coarse AN/C
491.5																87201	5.0	C	.001	porphyroblasts well developed through
496.5																87202	5.0	C	.003	emb. in the matrix from 486.5 - 527.9
524.5																87203	5.0	C	.001	chlorite, qtz and AN/C filling fractures
525.5																87204	5.0	C	.001	and veins; poorly developed qtz - AN/C
526.5																87205	5.0	C	.001	streaked with red, ranging to < 5% of host
527.5																87206	5.0	C	.001	broken slaty core assoc. w/ strong HEM
528.5																87207	5.0	C	.001	shaly core to 523 - 527.8'; becomes
529.7		F														87208	3.2	C	.001	greener and more HEM from 524.7 - 527.9'
527.4																87209	3.2	C	.001	

.070
5.2

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	J/F	B	A1	J	A2						
530.9		M	MG	FP	PK	SIL	8fp		q	30			5			87211	3.0	c	.091	pink f-spar porphyry, single vein up to 1"
533.1		M	M	FP	PK	SIL	8fp		q	40			4			87211	2.2	c	.041	white and chlorite thin veins associated w/ py and traces of Hg; coarse calc py assemblage - fine grained micrites, sharp, chloritized contacts w/ surrounding am (lc); chlorite and py veins, 1-2 angle (10-20° w/ N) fractures; chlorite distal of py - up to 5% of host in isolated patches
538.1		M	CG	PBLS	BN	ANK	lc						T _v			87212	5.0	c	.001	green brown to brown; rusty core @ lower
543.1																87213	5.0	c	.001	contact w/ underlying FP; mottled to silty
546.1																87214	3.0	c	.001	texture in patches; similar to previous
549.1																87215	3.0	c	.001	lc section from sites - 527.9; well developed PBLS of ANK; med. hard
550.3		M	CG	FP	PD	SIL	8fp						-			87216	1.2	c	.001	red FP w/ coarse py grains up to 7/8", chlorite along fractures in fine sulphide; acicular (tourmaline) micrite grains in patchy distal tion; sharp contacts

DRILL HOLE NO: HP95-261

PAGE 9 OF 9

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J	A2	Qtz	Py						
555.3		B	CG	PBL	GN	ANIK	lc									87217	5.0	C	.001	lx'd UM which becomes more massive w depth; strong ANIK alt'n; small 7" mafic section starting @ \approx 560.3 (possibly 76); interbeds w disappearance of ANIK alt'n
559.3		B	CG	BX	GN	ANIK	lc									87218	4.0	C	.001	
562.3		M	CG	MSV	GN	ANIK	lc									87219	3.0	C	.001	
662		M	CG	MSV	GY	TCL	lt							Tr		87220	99.7	G	.001	typical talc-chlorite alt'd UM to calcite
762		M	CG	MSV	GY	TCL	lt							Tr		87221	100.0	G	.001	d. d chlorite filling fractures; isolated grains and minor conc of py assoc. w chlorite and calcite in fractures; grey to grey-black and v soft; mafic section w path by py up to near 17' of host form \approx 655-660'; shd fabric @ 180-90° TCA becomes more common after 770' to ECH
803.8		M	CG	MSV	GY	TCL	lt							Tr		87222	41.2	G	.001	
803.8							FOF													ECH

ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-261
 Date Assayed: 12/14/95
 Week/Tray: 95DEC11/AF040

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87160		0.001	35
2	C87161		0.001	35
3	C87162		0.001	35
4	BLANK	Blank	0.001	35
5	C87163		0.001	35
6	C87164		0.001	35
7	C87165		0.001	35
8	C87166		0.001	35
9	C87167		0.001	35
10	C87168		0.001	35
11	C87178		0.001	35
12	C87179		0.001	35
13	C87180		0.016	550
14	CONTROL	Control	0.098	3360
15	C87181		0.016	550
16	C87182		0.018	615
17	C87183		0.001	35
18	C87184		0.001	35
19	C87185		0.001	35
20	C87186		0.001	35
21				
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Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

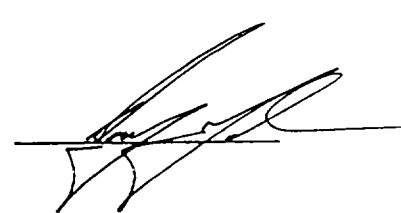
Hole Number: HP-95-262-261

Date Assayed: 12/13/95

Week/Tray: 95DEC11/AF030

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50335		0.001	35
2	C50336		0.014	480
3	C50337		0.001	35
4	C50338		0.011	375
5	C50339		0.001	35
6	C50340		0.001	35
7	C50341		0.001	35
8	C50342		0.001	35
9	C50343		0.001	35
10	BLANK	Blank	0.001	35
11	C87187		0.001	35
12	C87188		0.001	35
13	C87189		0.001	35
14	C87190		0.001	35
15	C87191		0.001	35
16	CONTROL	Control	0.103	3530
17	C87192		0.038	1300
18	C87193		0.005	170
19	C87194		0.054	1850
20	C87195		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

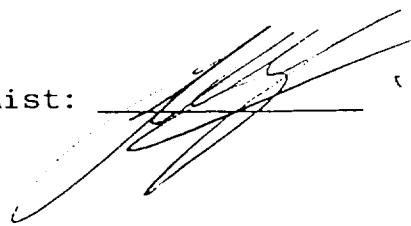
Hole Number: HP-95-262-261

Date Assayed: 12/12/95

Week/Tray: 95DEC11/AF033

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50353		0.001	35
2	C50354		0.001	35
3	CONTROL	Control	0.097	3330
4	C50355		0.001	35
5	C50356		0.001	35
6	C50357		0.001	35
7	C50358		0.001	35
8	C50359		0.001	35
9	C50360		0.001	35
10	C50361		0.001	35
11	C87151		0.001	35
12	C87152		0.001	35
13	BLANK	Blank	0.001	35
14	C87153		0.001	35
15	C87154		0.001	35
16	C87155		0.001	35
17	C87156		0.001	35
18	C87157		0.001	35
19	C87158		0.001	35
20	C87159		0.001	35
21				
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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

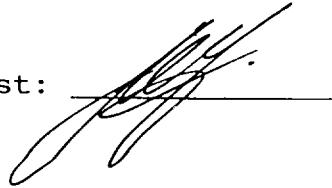
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-261
 Date Assayed: 12/14/95
 Week/Tray: 95DEC11/AF039

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87196		0.001	35
2	C87197		0.004	135
3	C87198		0.008	275
4	BLANK	Blank	0.001	35
5	C87199		0.007	240
6	C87200		0.001	35
7	C87201		0.001	35
8	C87202		0.003	105
9	C87203		0.001	35
10	C87204		0.001	35
11	C87169		0.001	35
12	C87170		0.001	35
13	C87171		0.001	35
14	CONTROL	Control	0.103	3530
15	C87172		0.001	35
16	C87173		0.001	35
17	C87174		0.001	35
18	C87175		0.001	35
19	C87176		0.001	35
20	C87177		0.001	35
21				
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23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-261
 Date Assayed: 12/13/95
 Week/Tray: 95DEC11/AF034

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C87205	Blank	0.001	35
2	BLANK		0.001	35
3	C87206		0.001	35
4	C87207		0.001	35
5	C87208		0.001	35
6	C87209		0.001	35
7	C87210		0.091	3120
8	C87211		0.041	1410
9	C87212		0.001	35
10	C87213		0.001	35
11	C87214	Control	0.001	35
12	CONTROL		0.100	3430
13	C87215		0.001	35
14	C87216		0.001	35
15	C87217		0.001	35
16	C87218		0.001	35
17	C87219		0.001	35
18	C87220		0.001	35
19	C87221		0.001	35
20	C87222		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy



PROJECT: *Nighthawk-Hopson*

Logged By: *K. Farrell*

CLAIM
12583

CAT

Date: *Nov 28, 1995*
Page *1* of *6*

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE
<i>HP95-262</i>	<i>5753.8</i>	<i>15722.71</i>	<i>10930.4</i>	<i>1100</i>				

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	340	60	800	350	64									
200	345	62	1000	352	64									
400	345	62												
600	345	62												

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS					Spl #			Width	T	COMMENTS 1	COMMENTS 2											
		Com	Grs	Text	Co	Alt	Norm	B/S	J/F	GANGUE				METALLIC																		
										B	A1	J	A2	Qtz	Az	Bz	Cz					Py	Dz	Ez	NFA	Fz						
84																																
247.7		M	FG	VAR	CG	SIL																										
247.7		M	FG	VAR	CG	SIL																										
267.7		M	CG	MSV	GN	TCL	IT																									

CONTINUED FROM: N.S. DRIBBING, TIMMINS, ONT.
DATE DRILLED: NOV 28-30, 1995
STATE OF CORE: BQ
CORE STORED: ROYAL OAK MINES INC
SCHWABER CORE SHACK

6.0 m. section, mostly up core up to 122.7 m.
patchy Qtz associated with chlorite and calcite.
Pr structures; coarse variscles and textures
of analyzed variscles; pillow margins may
be intersected by fine, glassy, parallel variscles
and pieces of quartz with fracturing
at least 15 cm depth; small UM sections
occur (scid); mafic become coarser grained
and more chloritic from 239 to 247.

extremely soft talcs of UM; massive talcs
in patches and filling Pr structures; less
abundant chlorite filling fractures;
sheared fabric of Pr from 265 to
267.5

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	J/F A1	J J	A2	Tr	Tr						
310.2		M	MG	MSV	GN	SIL	Zn?						Tr	Tr	50329	42.5	G	.001	gtz calcite stringers early in interval; n. zone calcite vein 200's to 200's @ 0-10° TCA up to 3" wide; medium grained (coarse lam. norm. (matrix) to calcite filling fractures, shot gun py distribution in patches and sine cubic of py along fractures; leaving sil'd and mildly br'd (2pi) off 2 321'	
410		M	CG	MSV	GN	SIL	It						-	Tr	50330	99.8	G	.001	sil'd unit to medium to coarse py along fractures assoc. w chlorite; chlorite filling fractures; calcite veins and patches up to 3" wide, usually assoc. to chlorite; small matrix sections occurring up to 7" wide; sil'd disappears after 2 415' and rock becomes very soft and dark to extremely coarse gran. of py up to 3/4"	
443		M	CG	MSV	GY	TCL	It						-	Tr	50331	33.0	G	.001		
464		M	FC	RX	GN	<HL	Zpb						-	Tr	50332	21.0	G	.001	dark green pillow bx to chlorite stain Eng's traces of calcite, thin chlorite stain Eng's; upper and lower contacts intensely ch'd	

DRILL HOLE NO: HB95-262

PAGE 3 OF 6

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J/F	A2	Qtz	Px						
538		M	CG	MSV	GY	TCL	It							-	Tr	50333	74.0	G	.001	talcose UM w scattered coarse py grains; ground up core @ ≈ 502' (fault gouge?); fractured broken core assoc. w calcite vein @ ≈ 495'; massive finer gr. UM zone ≈ 509 - 516'
566.5		B	CG	PBL	GY	ANK	It?							Tr	Tr	50334	28.5	G	.001	coarse ANK pyrophyllite - d. 450 μm scratch; broken, blocky core assoc. w HEM stain @ ≈ 558'; begins to m. ANK alt'n w. sec. strong to depth inc; traces of py along fractures; may be lc
633.5		M	CG	BX	GY	ANK	It?							-	Tr	50335	67.0	G	.001	very soft UM w extensive fine ANK stockwork veining and bx. l texture; scattered decub.
638.5														-		50336	5.0	C	.014	
643.5														Tr		50337	5.0	C	.001	of ANK phls; isolated coarse py grains; strong ANK alt'n; may be It; ground up core @ ≈ 588' and 597'

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Fy						
647.1		M	FG	FT	PK	SIL	8fp		Q	40			1	1		50338	3.6	C	.011	pale green FT; sharp contacts; v fine & spri phenocrysts; each by 0.1m matrix (fine) and also predominantly along edges of qtz veins; chlorite in small amounts along fractures
652.1		M	CG	PRES	GG	ANK	1c						Tr	Tr		50339	5.0	C	.001	green to green brown t. matrix strong ANK alt'n and well devel. coarse
657					GG											50340	4.9	C	.001	
662					GG											50341	5.0	C	.001	PRES texture; variable stwk devel.; traces
667					GG											50342	5.0	C	.001	qtz along fractures assoc. w chlorite;
672					GN											50343	5.0	C	.001	indistinct lower contact - becomes progres
677					GN											50344	5.0	C	.001	slightly more green to inc. fuchsitic alt'n;
682					GN											50345	5.0	C	.001	from 682-689 is started to mildly bx'd 1c to brown fragments and ends w spotted fuchsitic alt'n in a homogeneous massive rock
687		M	CG	MSV	GN	FU	1fu						1	Tr		50346	5.0	C	.001	pale green fuchsitic alt'n; intensely bx'd (from ~ 695.8 to 697.2) to 100% MSV;
692																50347	5.0	C	.001	
697																50348	5.0	C	.001	scattered qtz veins up to 1/4" wide (~ 701.5);
702																50349	5.0	C	.001	chlorite w fractures - most abundant in
707																50350	5.0	C	.001	bx'd sections; indistinct lower contact;
712																50351	5.0	C	.001	section ends in bx'd sheared section of 1c from ~ 714-717'

DRILL HOLE NO: HR95-262

PAGE 5 OF 6

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	GrS	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	qtz	Py						
717		B	CG	BX	GY	ANK	lct							-	Tr	50352	5.0	C	.001	as previous for lct
722		B	CG	BX	GY	ANK	lct							-	Tr	50353	5.0	C	.001	
771		M	CG	MSV	GY	ANK	lct							-	Tr	50354	49.0	G	.001	variable qtz-ANK STNK and weak devel of ANK PRLS; very soft - fine grd. max shd 4M from 727.5 - 742; ANK alt'n dev. to depth while TCL alt'n and amt. of talc (in fractures) inc; interval ends w disappearance of ANK alt'n (indistinct)
876.3		M	CG	MSV	GY	TCL	lt							-	Tr	50355	105.3	G	.001	typical soft TCL alt'n 4M to chlorite and
881.3		M	CG	MSV	GY	TCL	lt							-	Tr	50356	5.0	C	.001	to talc in fractures and isolated coarse
887.3		M	CG	MSV	GY	TCL	lt							-	Tr	50357	5.0	C	.001	with 7-subl. py expanse
887.6		M	FG	MSV	GY	SIL	8fp							-	Tr	50358	1.3	C	.001	SIL FP that has been calcium carbonate inundated; chlorite contacts; calcite in fractures

DIST	ID	ROCK DESCRIPTION							STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	Py								
892.6		M	CG	MSV	GY	TCL	It										50359	5.0	C	.001	as previous interval up to 886.3
897.6																	50360	5.0	C	.001	
950.8																	50361	53.2	G	.001	
955.8																	50362	5.0	C	.001	
960.4																	50363	5.0	C	.001	
965.2		M	FG	MSV	RD	SIL	8FP	Q	30	Z							50364	4.4	C	.014	pink red to red green FP to gte veins with 1/4" over last 1" of interval; slugs of chlorite unitaots; finely disseminated py through out matrix; chlorite in fractures assoc. with gte; numerous fractures @ 40-60° TCA
970.2		M	CG	MSV	GY	TCL	It										50365	5.0	C	.001	as previous interval up to 960.8; darker
975.2																	50366	5.0	C	.001	grey to black; extensive calcite filling
1075																	50367	99.8	G	.001	fractures and voids; extremely soft;
1100																	50368	25.0	G	.001	only v. minor traces of py early in interval but inc. in abundance to inc. depth
1100							EOH														EOH

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-262

Date Assayed: 12/14/95

Week/Tray: 95DEC11/AF038

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50326	Blank	0.001	35
2	BLANK		0.001	35
3	C50327		0.001	35
4	C50328		0.001	35
5	C50329		0.001	35
6	C50330		0.001	35
7	C50331		0.001	35
8	C50332		0.001	35
9	C50333		0.001	35
10	C50334		0.001	35
11	C50344	Control	0.001	35
12	CONTROL		0.097	3330
13	C50345		0.001	35
14	C50346		0.001	35
15	C50347		0.001	35
16	C50348		0.001	35
17	C50349		0.001	35
18	C50350		0.001	35
19	C50351		0.001	35
20	C50352		0.001	35
21				
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24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~262~~-260

Date Assayed: 12/13/95

Week/Tray: 95DEC11/AF031

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50362		0.001	35
2	C50363		0.001	35
3	C50364		0.014	480
4	C50365		0.001	35
5	C50366		0.001	35


6	C50367		0.001	35
7	C50368		0.001	35
8	C87136		0.001	35
9	C87137		0.001	35
10	C87138		0.001	35

11	BLANK	Blank	0.001	35
12	C87139		0.004	135
13	C87140		0.044	1510
14	C87141		0.068	2330
15	CONTROL	Control	0.103	3530

16	C87142		0.001	35
17	C87143		0.001	35
18	C87144		0.001	35
19	C87145		0.001	35
20	C87146		0.001	35

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Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603


Hole Number: HP-95-262-261

Date Assayed: 12/12/95

Week/Tray: 95DEC11/AF033

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50353		0.001	35
2	C50354		0.001	35
3	CONTROL	Control	0.097	3330
4	C50355		0.001	35
5	C50356		0.001	35
6	C50357		0.001	35
7	C50358		0.001	35
8	C50359		0.001	35
9	C50360		0.001	35
10	C50361		0.001	35
11	C87151		0.001	35
12	C87152		0.001	35
13	BLANK	Blank	0.001	35
14	C87153		0.001	35
15	C87154		0.001	35
16	C87155		0.001	35
17	C87156		0.001	35
18	C87157		0.001	35
19	C87158		0.001	35
20	C87159		0.001	35
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-~~262~~-261

Date Assayed: 12/13/95

Week/Tray: 95DEC11/AF030

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50335		0.001	35
2	C50336		0.014	480
3	C50337		0.001	35
4	C50338		0.011	375
5	C50339		0.001	35


6	C50340		0.001	35
7	C50341		0.001	35
8	C50342		0.001	35
9	C50343		0.001	35
10	BLANK	Blank	0.001	35

11	C87187		0.001	35
12	C87188		0.001	35
13	C87189		0.001	35
14	C87190		0.001	35
15	C87191		0.001	35

16	CONTROL	Control	0.103	3530
17	C87192		0.038	1300
18	C87193		0.005	170
19	C87194		0.054	1850
20	C87195		0.001	35

21				
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23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Py	Py						
243.5		M	CG	MSV	GN	TCL	IL									96930	35.5	G	.010	green silicified U.M. to abundant chlorite and biotite; calcite filling veins and mineral patches
275		M	FG	MSV	CG	SIL	2m									96930	31.5	G	.004	massive f'grd matrix to chlorite scale and minor qtz filling veins and fractures
350.8		M	FG	3Y	GN	SIL	2pb							Tr		96931	75.8	G	.004	bx'd pillowed matrix w traces of euh. py assoc. to chlorite stain fragments; heavily chloritized lower contact (to U.M.); qtz calcite and chlorite filling fractures and veinlets; traces of pmf. Pspav to qtz in patches between fragments; note massive section thru. 315-331'
422		M	FG	MSV	GN	SIL	2m							Tr		96932	51.2	G	.004	aster 243.5-275 (2m)
420		M	CG	MSV	GY	TCL	IL									96933	18.0	G	.008	massive dark green-grey U.M. to chl in fractures, indistinct layer contact

DRILL HOLE NO. HP95-263

PAGE 3 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Px						
450.9		M	CG	PBLS	GY	ANK	lct									96934	30.9	G	.001	soft grey um to moderate qtz-ANK stwk and patchy devel of coarse ANK pbls; minor chlorite in fractures; ground up blocky core stwn 443'-447'; ANK alt in inc to depth; stamp lower contact
455.9		↓	↓	↓	↓	↓	↓									96935	5.0	C	.001	
460.9		↓	↓	↓	↓	↓	↓									96936	5.0	C	.001	
465.4		M	FG	POK	BN	SIL	8fp									96937	4.5	C	.001	dark brown FP; coarse f-spars phenocrysts inc. in abundance over last half of interval; v. minor veinlets of qtz and traces of v fine sulph. de (py?) in matrix
470.4		M	CG	PBLS	GY	ANK	lct									96938	5.0	C	.001	as for 420-450.9; porphyroblasts less abundant and fine in inc. depth toward lower contact
475.4		↓	↓	↓	↓	↓	↓									96939	5.0	C	.001	
477.7		↓	↓	↓	↓	↓	↓									96940	24.3	G	.001	
50.7		↓	↓	↓	↓	↓	↓									96941	5.0	C	.001	
59.7		↓	↓	↓	↓	↓	↓									96942	5.0	C	.001	

509.7-515.3
.085/5.6

DRILL HOLE NO. H095-263

PAGE 4 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	Qtz	Py						
512.7		M	IG	fp	BN	SIL	8fp		2	80			3	2	96943	3.0	C	.130	brown to brown green FP; tensional gtz veins up to 1" wide ± chlorite, py and traces of Mo along margins; coarser euh. py along fractures, fine dissem. euh. py in matrix; sharp contacts; slight banded pattern of light and darker; red areas may be HEM-rich	
515.3		M	IG	fp	BN	SIL	8fp		2	80			3	2	96944	2.6	C	.034		
520.3		M	CG	MSV	GN	FU	1fu						Tr	1	96945	5.0	C	.001	massive bright green Urd moderate gte-ANK veining; tan patches probably represent areas of ALB alt'n; v. fine py occurring in patches in matrix and conc. in ALB alt'd patches (up to 2%)	
525.5		↓	↓	↓	↓	↓	↓						↓	↓	96946	5.0	C	.001		
530.3		↓	↓	↓	↓	↓	↓						↓	↓	96947	5.0	C	.020		
550.3		M	CG	FBL	BN	ANK	lc						Tr	Tr	96948	20.0	C	.001	brown UM; very hard to scratch; gradual upper contact to overlying fuchs site alt'd unit; fuchsite alt'n in patches along margins of gte-ANK veinlets ± h det. and disappears to inc. depth; gradual lower contact to 1fu → lc from 574-578.8	
578.8		M	CG	FBL	BN	ANK	lct						Tr	Tr	96949	28.8	C	.001		

DRILL HOLE NO: HP95-263

PAGE 5 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Py						
583.8		M	CG	BX	GN	FU	lfu							Tr	Tr	96950	5.0	C	.001	mildly bx'd to massive green UM to mottled
588.8		M	CG	MSV	GN	FU	lfu							Tr	Tr	96951	5.0	C	.001	luchitic alt'n; traces of fine py. dissem. throughout matrix
591		M	FG	MSV	GN	SER	8f	2	10	0	30	5	3			96952	2.2	C	.024	SER'd felsite to patch and vein of 2-ANK; sharp contacts; py along margins of larger veinlets and associated to fine flow angle (TCA) veinlets
593		M	CG	MSV	GN	FU	lfu							Tr	-	96953	2.0	C	.001	felsite alt'd UM to patches of tan represent- ing ALB alt'n; similar to 588.8-588.9'
595		M	FG	MSV	GN	SER	8f							1	1	96954	5.0		.001	SER alt'n more intense from ~597.5' on- wards (yellowish brown) and more tan green in other areas; several felds from
615																96956	5.0		.010	
617																96957	5.0		.001	614-617'; v. fine dissem. py through out matrix - more py in area of greater SER alt'n, up to blue 1.2%
617																96958	4.0		.001	

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS		
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J	A2	Qz	Pt								
620.6		M	CG	MSV	GN	FU	IFu							-	Tr			969.59	3.6	c	.001	similar to 591-593 (1 fu)
621.6		M	FG	MSV	GN	SER	8f							Tr	1			969.60	1.0	c	.090	SER-rich felsite similar to 593-617
624.8		M	CG	MSV	GN	FU	1Fu							Tr	Tr			969.61	3.2	c	.007	similar to 591-593 (1 fu); mildly bx'd to MSV. ALB altn around gk. ANK re. lets; hematite staining around fractures @ 622.9 and 623.7
627.3		M	MG	MSV	GN	SER	8f						2	3				969.62	2.5	c	.038	heavily SER'd; massive py (anh. masses to subh. grains) conc. along fractures; strong yellow color from SER; v. sharp contacts; traces of mat. mineral along veins and fractures - py, probably Mo
629		M	CG	MSV	GN	FU	1Fu							-	Tr			969.63	1.7	c	.001	similar to 621.6-624.8' (1 fu); indistinct lower contact = 1c (gradational)

DRILL HOLE NO. HP95-263

PAGE 7 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J/F	A2	Qtz	Py						
634		M	CG	PBLs	GN	ANK	lc							-	Tr	96964	5.0	C	.001	v. hard; limited qtz-ANK STWK; chlorite
638		M	CG	PBLs	GN	ANK	lc							-	Tr	96965	4.0	C	.001	filling some voids and fractures; hematite stains around fractures @ ~ 632' and 635'; HEM stained rubble @ ~ 630.5'; strong ANK alt'n; dark green to limited bright green fuchsite alt'n around qtz-ANK veinlets; indistinct contacts to surrounding fuchsite alt'd UM's (Ifu)
642		M	CG	MSV	GN	FU	Ifu							-	Tr	96966	4.0	C	.001	pale to dark green UM to mixture of
646		M	CG	MSV	GN	FU	Ifu							-	Tr	96967	4.0	C	.001	dark green lc and bright green Ifu; albite altered patches up to 4" long; middle bx of section from ~ 643.8' 644'; gradational contacts to surrounding lc; med to strong ANK alt'n
651		M	CG	BX	GN	ANK	lc							Tr	Tr	96968	5.0	C	.001	similar to 639-638'; dark green; indistinct
656				BX												96969	5.0	C	.001	gradational contacts; strong ANK alt'n
661				PBLs												96970	5.0	C	.001	hematite stain from ~ 662.6-663.1'
666				BX												96971	5.0	C	.001	

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	J/F A1	J J	A2	Qtz	Py						
668.5		M	CG	BSX	GN	Fu	1Fu						1	1	96972	2.5	C	.007	lx'd UM similar to 591-593 (1Fu); jakeley py (subh.) assoc. to fractures and veinlets, sharp contacts	
672.2		M	MGM	SV	GN	SER	8F						Tr	2	96973	3.7	C	.026	SER'd felsite similar to 593-617; py conc along fractures and sub. py grains scattered throughout matrix	
676.2		M	CG	BSX	GN	1Fu	1Fu?						1	Tr	96974	4.0	C	.001	massive to lx'd fuchsite alt'd UM w chlorite filling in fractures blum fragments; qtz veins (T) up to 1 1/2" @ 672.6 and 674.8 @ 40° TCA	
680.2		M	CG	MOTL	GN	SER	1c?						Tr	Tr	96975	4.0	C	.001	mottled UM (coarse gr'd) w strong SER alt'n wh appears to overprint ANK (weak) alt'n; scattered and to subh. py grains throughout matrix and assoc. - patches of SER jakeley	

DRILL HOLE NO: HP95-26PAGE 9 OF 10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS	
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J	A2	Qtz	Py							
683.7		M	FG	MSV	RD	SIL	8Fp						5	3			96976	3.5	c	.022	orange-red FP to sharp contacts; large anh. py grains in matrix and anh. py conc. along fractures; tourmaline lining fractures; mod. ANK alt'n
686.7		M	CG	MOTL	GN	SER	1fn						-	Tr			96977	3.0	c	.001	mottled SER'd UM to patches of yellow
689.2		M	CG	MOTL	GN	SER	1fn						-	Tr			96978	2.5	c	.001	sericite and green (fuchsite?) alt'n; isolated silh. grains of py; contacts rich in fuchsite; hard to scratch; moderate ANK alt'n
691		M	FG	MSV	GN	SER	8F	Q	80	Q	10	4		1			96979	1.8	c	.001	qtz veins @ 80-TCA; ser'd felsite similar to previous; v. fine dissemin. sulphide; qtz veins @ 0-10-TCA
693.6		M	FG	FP	PK	SIL	8Fs						5	2			96980	2.6	c	.004	as for 680.2-683.7
696.3		M	FG	MSV	TN	ALB	8F						-	Tr			96981	2.7	c	.001	massive to br'd felsite to no qtz veins and only traces of v. fine dissemin. sulphide; br't to strong cl. to 6 from 694.8-696.3'

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	qtz	Py						
698.5		M	FG	MSV	PK	SIL	ofp		Q	W			S	1		96982	2.2	C.026		pink to green-pink FT similar to 680.2-683.7; sharp contacts
703.5		M	CG	MOTL	GN	ANK	lct						-	Tr		96983	5.0	C.001		bx'd to mottled; strongly ANK'd; chlorite
708.5				PBL	GN		lct									96984	5.0	C.001		assoc. to qtz-ANK vein lcts and abundant
713.5				PRUS	GY		lct									96985	5.0	C.001		chlorite in matrix; ANK porphyroblasts
731.5				MSV	GY		lct									96986	18.0	C.001		and ANK alt in dec. to inc depth; soft (easy to scratch); scattered coarse euh. py grains assoc. = chlorite in fractures
831.5		M	CG	MSV	GY	TCL	lt						-	Tr		96987	100.0	C.001		typical talc-chlorite alt'd unit; calcite
902						TCL	lt						-	Tr		96988	70.5	C.001		and chlorite filling fractures; isolated coarse py grains assoc. in chlorite in fractures; matrix (possible lamprophyre) section from ~840-843 in shotgun euh. py; chert patches from ~885 to EOH
902							EOH													EOH

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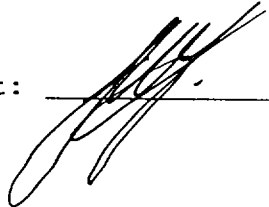
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-263
 Date Assayed: 12/14/95
 Week/Tray: 95DEC11/AF050

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C96980		0.004	135
2	C96981		0.001	35
3	BLANK	Blank	0.001	35
4	C96982		0.026	890
5	C96983		0.001	35
6	C96984		0.001	35
7	C96985		0.001	35
8	C96986		0.001	35
9	C96987		0.001	35
10	C96988		0.001	35
11	C96935		0.001	35
12	C96936		0.001	35
13	CONTROL	Control	0.101	3460
14	C96937		0.001	35
15	C96938		0.001	35
16	C96939		0.001	35
17	C96940		0.001	35
18	C96941		0.001	35
19	C96942		0.001	35
20	C96943		0.130	4460
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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-263
 Date Assayed: 12/14/95
 Week/Tray: 95DEC11/AF048

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C96944		0.034	1170
2	C96945		0.001	35
3	C96946		0.001	35
4	PM 601	Control	0.328	11250
5	C96947		0.020	685

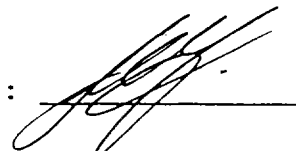
6	C96948		0.001	35
7	C96949		0.001	35
8	BLANK	Blank	0.001	35
9	C96950		0.001	35
10	C96951		0.001	35

11	C96952		0.024	825
12	C96971		0.001	35
13	C96972		0.007	240
14	C96973		0.026	890
15	C96974		0.001	35

16	C96975		0.001	35
17	C96976		0.022	755
18	C96977		0.001	35
19	C96978		0.001	35
20	C96979		0.001	35

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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

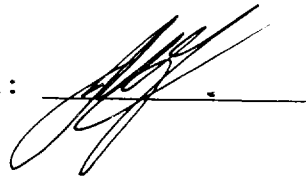
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-263
 Date Assayed: 12/14/95
 Week/Tray: 95DEC11/AF049

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C96953	Blank	0.001	35
2	BLANK		0.001	35
3	C96954		0.001	35
4	C96955		0.024	825
5	C96956		0.010	345
6	C96957		0.001	35
7	C96958		0.001	35
8	C96959		0.001	35
9	C96960		0.090	3090
10	C96961		0.007	240
11	C96962	Control	0.038	1300
12	CONTROL		0.100	3430
13	C96963		0.001	35
14	C96964		0.001	35
15	C96965		0.001	35
16	C96966		0.001	35
17	C96967		0.001	35
18	C96968		0.001	35
19	C96969		0.001	35
20	C96970		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

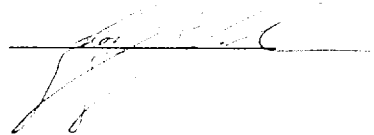
Hole Number: HP-95-~~263~~-264

Date Assayed: 12/20/95

Week/Tray: 95DEC18/AF016

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C96926	Control	0.004	135
2	CONTROL		0.103	3530
3	C96927		0.006	205
4	C96928		0.018	615
5	C96929		0.010	345
6	C96930		0.004	135
7	C96931		0.004	135
8	C96932		0.004	135
9	C96933		0.008	275
10	C96934		0.001	35
11	DXR14094		0.003	105
12	DXR14095		0.001	35
13	DXR14096		0.001	35
14	DXR14097		0.001	35
15	DXR14098		0.001	35
16	BLANK	Blank	0.001	35
17	3XR14099		0.004	135
18				
19				
20				
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22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J J	A2	Py							
113		M	FG	MSV	TF	ALB	8f					1		1		14081	4.5		0.003	mildly seric; chert-like fractures and a trace of py, hematite; probably py chert in matrix and asso- c. veinlets; HEM stain from ~119.5-119.9; conc. of chert and oxidant in matrix from ~122.1-122.5'; sharp contacts
125		M	FG	MSV	TF	ALB	8f					1		1		14082	5.0		0.003	
128		M	CG	BX	GN	ANK	1c					1		Tr		14083	5.0		0.001	mixture of 1c and 1fu - mildly to intensely oxid; HEM stained rubble from ~132-133'; more massive from 129-131'
133		M	CG	BX	GN	ANK	1c					1		Tr		14084	5.0		0.001	
168.6		M	CG	PBS	GN	ANK	1ct					-		Tr		14085	35.6		0.001	coarse ANK porphyroblasts and strong ANK alt'n; soft - abundant CHL in matrix and along fractures; med. to weak optc - HNL Gem @ 70-80° TCA
173.6		M	CG	BX	GN	ANK	1ct					-		Tr		14086	5.0		0.004	
177.6		M	FG	MSV	RD	SIL	8f, p		q	40		2		1		14087	4.0		0.005	red to green - red FP; sharp contacts, minor fine arsen. py; isolated arsen. sub. py grains; weak ANK alt'n

DRILL HOLE NO. HP95-264PAGE 3 OF 4

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	Qtz	Py						
182.6		M	CG	BX	GY	ANK	lct							-	Tr	14088	5.0	c.001	as for 133-173.6'; 5" long string of ANK	
187.6		M	CG	PBLS	GY	ANK	lct							-	Tr	14089	5.0	c.001	FP@ ~225.8 - no gte veins and only traces	
258.3		M	CG	PBLS	GY	ANK	lct							-	Tr	14090	70.7	G.004	of sulphide; indistinct lower contact w 1/2 (gradational to mic. in ANK alt'n and hardness)	
263.3		M	CG	MSV	GN	ANK	lc							-	Tr	14091	5.0	C.006	massive dark green to light green UM; strong	
265.3		M	CG	MSV	GN	ANK	lc							Tr	Tr	14092	5.0	C.011	ANK alt'n; coarse ANK pbl's; sharp lower contact; NEM staining around fractures, usually assoc. w small amount of rubble	
272.6		M	FG	MSV	PK	SIL	8fp	2	50	2	10	5		Z		14093	4.3	C.009	pink to pink green to green; coarse euh.	
276.6		M	FG	MSV	GN	SIL	8fp	2	70	2	40	3		Z		14094	40	C.003	py grains in matrix; py conc. along fractures and gte veins; sharp contacts; traces of Mo and tungsten along fractures ± py	
281.6		M	CG	PBLS	GN	ANK	lc							Tr	Tr	14095	5.0	C.001	v hard to scratch; coarse ANK PBLS; patchy NEM staining; lower contact probably rubble sect con @ ~282	

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU <input checked="" type="checkbox"/> opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	gk	Py						
286.6		M	CG	PBLJ	GY	ANK	1ct									14096	5.0	C	.001	as for 133-173.6' but E no orientation
310.5		M	CG	PBLJ	GY	ANK	1ct									14097	23.9	C	.001	qtz-ANK veins; isolated coarse py. grains assoc. w chlorite in fractures; interval ends w disappearance of ANK porphyry starts
410.5		M	CG	MSV	GY	TCL	1t									14098	100.0	G	.001	talc-chlorite alt'd w calcite filling fractures and veins (etc) calcite assoc. w chlorite; isolated py grains assoc. w calcite and calcite in fractures; very soft; patchy euh. py conc. in fractures basoc. w calcite als depth inc. past 400'; calcite filling fractures and abundant in fractures dec. w inc. depth to EOH where chlorite is dominant fracture filling mtl
498																				EOH

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1603

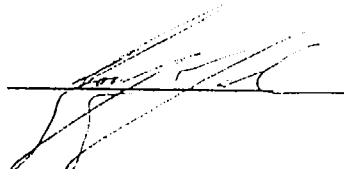
Hole Number: HP-95-263-264

Date Assayed: 12/20/95

Week/Tray: 95DEC18/AF016

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C96926	Control	0.004	135
2	CONTROL		0.103	3530
3	C96927		0.006	205
4	C96928		0.018	615
5	C96929		0.010	345
6	C96930		0.004	135
7	C96931		0.004	135
8	C96932		0.004	135
9	C96933		0.008	275
10	C96934		0.001	35
11	DXR14094		0.003	105
12	DXR14095		0.001	35
13	DXR14096		0.001	35
14	DXR14097		0.001	35
15	DXR14098		0.001	35
16	BLANK	Blank	0.001	35
17	3XR14099		0.004	135
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Geologist: P. HARVEY

Chief Chemist: 

ROYAL OAK ANALYTICAL LABORATORY

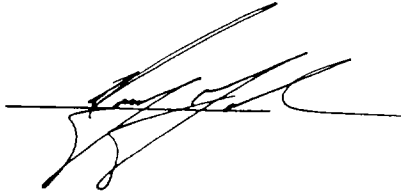
CERTIFICATE OF ANALYSIS

Exploration 5675-1603

Hole Number: HP-95-264
 Date Assayed: 12/15/95
 Week/Tray: 95DEC11/AF058

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14076	Blank	0.004	135
2	BLANK		0.001	35
3	DXR14077		0.001	35
4	DXR14078		0.004	135
5	DXR14079		0.002	70
6	DXR14080		0.001	35
7	DXR14081		0.003	105
8	DXR14082		0.003	105
9	DXR14083		0.001	35
10	DXR14084		0.001	35
11	DXR14085	Control	0.001	35
12	CONTROL		0.098	3360
13	DXR14086		0.004	135
14	DXR14087		0.005	170
15	DXR14088		0.001	35
16	DXR14089		0.001	35
17	DXR14090		0.004	135
18	DXR14091		0.006	205
19	DXR14092		0.011	375
20	DXR14093		0.009	310
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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DIST	Id	ROCK DESCRIPTION						STRUCT.			MINERALS									Spl #	Width	T	COMMENTS 1	COMMENTS 2	
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	Qtz	Pl	Chl	Py	D%	E%	NFA	F%						
540.4		M	FG	MSV	GG	TCL	IS	QSS				1				Tr			.001		72482	100.4	G	- DR. GREY - GREY/GREEN - MSV, MINOR SPINIFEX TEX - HARD TO SCRATCH - STR. MAGNETIC - 1% QTZ/CC / MINOR TPG, VEMS/FRAC - 2-3% CHL FRAC - MINOR LT. GREEN QUINING? IN SOME VLETS/FRAC	
563.3		M	FG	MSV	GG	SIL	Zm?	F60				1				Tr			.001		72483	22.9	G	- STR. SIL. MAFIC VOLC? - SOME PARTS SIMILAR TO PORPHOR GREY WACKE - GREY/GREEN - GREEN WITH TINY WHITE SPECKS - LEU? - V. HARD TO SCRATCH - TINY BLACK SPECKS - CHL/TOURM? - VFG-FG, MSV TO POR LOOKING IN PLACES - 1% CHL FRAC - LAM/FOL IN PLACES. BD. TCA - CHERTY LOOKING IN PLACES - POSS. GRADED BEDDING?	
568.3		M	FG	BRX	GG	SIL	Zpb					1				Tr			.001		72484	5.0	C	- 563.3 - 595.3 - STR. SIL. MAFIC BRX	
573.3												1				Tr			.002		85		C	- GREEN/GREY - GREEN	
578.3								Q30				1				Tr			.001		86		C	- V. HARD TO SCRATCH	
583.3								Q45				2				Tr			.001		87		C	- VFG - FG, WK - MOD BRX	
588.3								Q25				1				Tr			.001		88		C	- CHL STWK, CHL SPECKS	
593.3												1				Tr			.001		89		C	- V. WK ANK ALT'N AT END OF SECTION	
595.3												2				Tr			.001		90	2.0	C	- CHERTY IN PLACES - 2% QTZ/CC VEINING/VLETS/STWK - Tr - 1% VF-FG DISSEM + SUB PY - Tr. PO.?	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS								Spl #	Width	T	COMMENTS 1	COMMENTS 2			
		Com	Gr	Text	Co	Alt	Nam	B	A1	J	A2	QTZ	CZ	B%	C%	PY	D%						E%	NFAF%	
725.7		m	mcg	por	pk	alb	8s	Q50				2				2			.003	57296	3.1	E	- 1% QTZ/ANK FRAC - WK ANK ALT'N IN PLACES		
729.7		m	mcg	por	pk	alb	8s	Q40				3				2			.002	57297	4.0	E	- SIMILAR TO PREVIOUS SECTION		
732.1		m	fm6	brx	gr	chl	zmp					2				Tr			.001	57298	2.4	E	- 729.7 - 747.1 - MAFIC ALLOW VOLC - SIMILAR TO PREVIOUS MAFICS		
737.1												1				Tr			.001	57299	5.0	E	- WK ANK ALT'N		
742.1												2				Tr			.001	57300	5.0	E	- 743.9 - 1" PORPH, 2-3% PY		
747.1												2							.001	57301	5.0	E	- 1-2% WK QTZ - Tr. PY IN SOME VEINS		
749.3		m	mcg	por	gy	alb	8fp	Q40				3				Tr			.001	57302	2.2	E	- FEW PORPH / SYENITE - GREY/PINK MSV-POR - 3% QTZ VEINS < 1/4" WIDE - Tr F-MG PY - WK EPD ALT'N AT TOP OF SECTION		
754.3		m	fm6	brx	gr	chl	zmp					2				Tr			.001	57303	5.0	E	- 749.3 - 803.9 - MG RICH MAFIC VOLC		
759.3								Q40				2				Tr			.001		04	5.0	E	- ALLOWED - BRX	
764.3								Q60				4				Tr			.001		05	5.0	E	- LT - DK GREEN	
769.3												3				Tr			.001		06	5.0	E	- STR CHL SELVAGES / STWK	
773.9								Q50				4				Tr			.001		07	24.6	E	- SERP ALONG SELVAGES	
778.9												4				Tr			.001		08	5.0	E	- 4% QTZ/CC VEINS / FRAC	
803.9												2				Tr			.001		09	5.0	E	- VEINS UP TO 1/4" WIDE, Tr - 1% PY WITH SOME QTZ - CHL ZONES / SELVAGES UP TO 1.0' WIDE AT END OF UNIT	

DIST	Id	ROCK DESCRIPTION						STRUCT.		MINERALS								Spl #			Width	T	COMMENTS 1	COMMENTS 2		
		Com	Gra	Text	Co	Alt	Nam	B	A1	J	A2	GANGUE				METALLIC				#					T	
												Qtz	C%	B%	C%	Py	O%	E%	NFAF%							
806.1		M	FRG	POR	GY	ALB	85P													57310	2.2			- GREY FELD PORPH - 3% CHL FRAC		
811.1		M	FMG	BRX	GG	CHL	1E	40												57311	5.0			- GREY/GREEN, WK BRX-MSV - CHL STWK - MOD HARD - HARD TO SCRATCH - 3% QTZ/CC VLETS/FRAC - ONE VLETS, 3% PY, 40% CA		
816.1		M	FMG	BRX	GG	CHL	1E	0												57312	5.0			- SIMILAR TO PREVIOUS SECTION		
916.1		M	FMG	BRX	GG	CHL	1E	45												57313	100.06			- GREY/GREEN WITH MINOR LT GREEN ALT N? PATCHES - WK SIL? - HARD TO SCRATCH - WK BRX - MSV, PREDOM CHL STWK - 1-2% QTZ/CC VLETS/FRAC UP TO 2" WIDE		
961.3		M	FMG	BRX	GG	CHL	1E													57314	45-26			- SIMILAR TO PREVIOUS UNIT - 955.0 - 961.3 - BROKEN/BLOCKY CORRE, 4.0' LOST CORRE		
961.3																									- 961.3 - EOH	

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

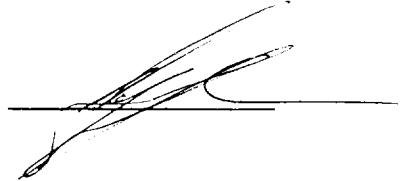
Hole Number: RN-95-131-152

Date Assayed: 12/08/95

Week/Tray: 95DEC04/AF045

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50287		0.001	35
2	C50288		0.007	240
3	C50289		0.004	135
4	C50290		0.001	35
5	BLANK	Blank	0.001	35
6	C50291		0.001	35
7	C50292		0.001	35
8	C50293		0.003	105
9	C50294		0.001	35
10	C50295		0.002	70
11	C72488		0.001	35
12	C72489		0.001	35
13	C72490		0.001	35
14	C72491		0.034	1170
15	CONTROL	Control	0.100	3430
16	C72492		0.001	35
17	C72493		0.001	35
18	C72494		0.002	70
19	C72495		0.019	650
20	C72496		0.035	1200
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

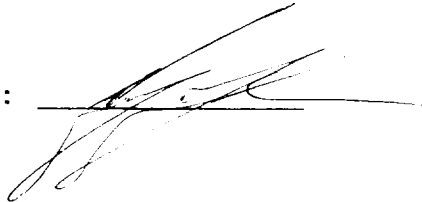
Hole Number: RN-95-~~152~~123

Date Assayed: 12/08/95

Week/Tray: 95DEC04/AF046

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C57290		0.020	685
2	C57291		0.001	35
3	C57292		0.001	35
4	C57293		0.001	35
5	C57294		0.001	35
6	C57295		0.001	35
7	C57296		0.003	105
8	C57297		0.002	70
9	C57298		0.001	35
10	CONTROL	Control	0.103	3530
11	BLANK	Blank	0.001	35
12	DXR24582		0.001	35
13	DXR24583		0.001	35
14	DXR24584		0.001	35
15	DXR24585		0.001	35
16	DXR24586		0.001	35
17				
18				
19				
20				
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22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

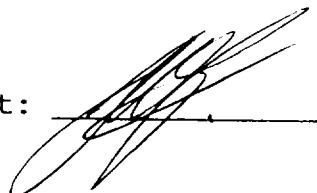
Hole Number: RN-95-124-152

Date Assayed: 12/11/95

Week/Tray: 95DEC11/AF005

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24228		0.001	35
2	DXR24229		0.001	35
3	DXR24230		0.001	35
4	DXR24231		0.035	1200
5	BLANK	Blank	0.001	35
6	DXR24232		0.054	1850
7	DXR24233		0.051	1750
8	DXR24234		0.022	755
9	DXR24235		0.001	35
10	DXR24236		0.001	35
11	DXR24237		0.001	35
12	C57276		0.001	35
13	C57277		0.001	35
14	C57278		0.001	35
15	C57279		0.001	35
16	CONTROL	Control	0.102	3500
17	C57280		0.001	35
18	C72497		0.002	70
19	C72498		0.001	35
20	C72499		0.001	35
21	C72500			
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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Exploration 5675-1620

Hole Number: RN-95-131-152

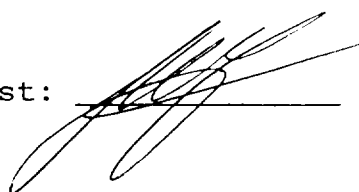
Date Assayed: 12/05/95

Week/Tray: 95DEC04/AF017

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50314		0.002	70
2	C50315		0.002	70
3	BLANK	Blank	0.001	35
4	C50316		0.001	35
5	C50317		0.001	35
6	C50318		0.001	35
7	C50319		0.001	35
8	C50320		0.001	35
9	C50321		0.001	35
10	C72479		0.001	35
11	C72480		0.001	35
12	C72481		0.001	35
13	CONTROL	Control	0.095	3260
14	C72482		0.001	35
15	C72483		0.001	35
16	C72484		0.001	35
17	C72485		0.002	70
18	C72486		0.001	35
19	C72487		0.001	35
20				
21				
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23				
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Geologist: P.HARVEY

Chief Chemist: 

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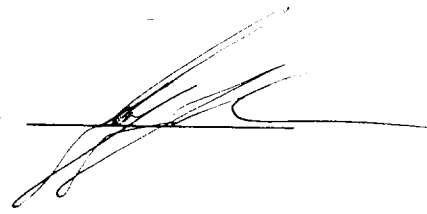
CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-152
 Date Assayed: 12/08/95
 Week/Tray: 95DEC04/AF044

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB	
1	C57299		0.001	35	
2	C57300		0.001	35	
3	BLANK	Blank	0.001	35	
4	C57301		0.001	35	
5	C57302		0.001	35	
6	C57303			0.001	35
7	C57304			0.001	35
8	C57305		0.001	35	
9	C57306		0.001	35	
10	C57307		0.001	35	
11	C57308	Control	0.001	35	
12	C57309		0.001	35	
13	CONTROL		0.101	3460	
14	C57310		0.001	35	
15	C57311		0.001	35	
16	C57312		0.001	35	
17	C57313		0.001	35	
18	C57314		0.001	35	
19					
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Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-131-152
 Date Assayed: 12/08/95
 Week/Tray: 95DEC04/AF042

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50296		0.001	35
2	BLANK	Blank	0.001	35
3	C50297		0.001	35
4	C50298		0.001	35
5	C50299		0.001	35

6	C50300		0.001	35
7	C50301		0.001	35
8	C50302		0.001	35
9	C50303		0.001	35
10	C50304		0.001	35

11	C57281		0.001	35
12	CONTROL	Control	0.104	3570
13	C57282		0.010	345
14	C57283		0.004	135
15	C57284		0.006	205

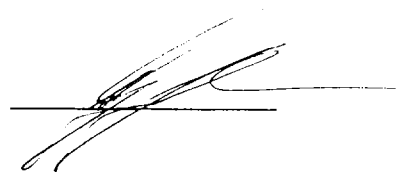
16	C57285		0.010	345
17	C57286		0.004	135
18	C57287		0.042	1440
19	C57288		0.029	995
20	C57289		0.016	550

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22				
23				
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Geologist: P. HARVEY

Chief Chemist: 

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DRILL HOLE NO. RN41-153

PAGE 2 OF 8

DIST	ID	ROCK DESCRIPTION					STRUCTURE				GANGUE	METALLIC	SAMPLE #	WIDTH	T	AU opt grams	COMMENTS			
		Com	Gr	Text	Co	Alt	Name 1	Name 2	B/S	A1								J	A2	
845.4		M		MV	AF	T-C	IL													
847.4		L		MV	SL	T-C	IL													
850.4		L		M	SL	T-C	IL													
853.4		F		BR	RD	SL	8Fp													
856.2		F		BR	RD	SL	8Fp	Q40	Q10											
860		AI	CG	MSV	GN	CHL	IE													

DRILL HOLE NO. RN95-153

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J	A2	qtz	py						
861.2		B	FG	PR	RD	SIL	8fp					q	60	2	3	14117	1.2	c	.002	brick-red FP to scattered 1/8-gr phenocrysts and v-fine qtz veinlets; chlorite filling fract c and assoc. w/ margin of qtz veinlets; euhedral py in matrix. Finer py. assoc. to qtz veinlets
862		M	CG	KL	GL	TOL	1E					-	-	-	-	14119	5.0	c	.001	moderately fine-grained similar to 858.4-859.4
871.2												-	-	-	-	14119	5.0	c	.001	minor chlorite filling fractures and veinlets
872												-	-	-	-	14120	5.0	c	.001	moderately hard; calcite near depth up bound of mineral; amount of fracture and fracture filling matrix negligible
873		B	FG	PR	RD	SIL	8fp					-	-	-	-	14121	4.0	c	.001	red FP to abundant 1/8-gr phenocrysts, chlorite along fractures, some calcite, similar to 850.4-853.4
875		M	CC	8X	GL	CHL	1E?					-	-	-	-	14122	5.0	c	.001	SIL + CHL similar to 861.2-876.2; may also be host matrix (2p4?)
876												-	-	-	-	14123	5.0	c	.001	
877												-	-	-	-	14124	5.0	c	.001	
878												-	-	-	-	14125	3.0	c	.001	
879												-	-	-	-	14126	3.0	c	.004	

DRILL HOLE NO: RW95-153

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Py	Py						
903		M	FG	FOR	RD	SIL	8fp						-	Tr		14127	1.5	C.003	same as 876.2-880.2	
908		M	CG	MSV	GN	CHL	LE?						-	Tr		14128	5.0	C.002	same as 880.2-901.5	
913													-	Tr		14129	5.0	C.002		
918													-	Tr		14130	5.0	C.001		
919		M	FG	FOR	RD	SIL	8fp						-	Tr		14131	1.0	C.003	same as 876.2-880.2; zoned f-spar phenos	
924		M	MG	BX	GN	CHL	ZPB						Tr	Tr		14132	5.0	C.001	chlorite filled mafic bx w chlorite filling fractures	
929																14133	5.0	C.001	between fragments; patches of pmk to red	
934																14134	5.0	C.001	material w/ maybe f-spar or HEM;	
939																14135	5.0	C.001	calcite filling fractures in chlorite	
944																14136	5.0	C.001	after ~930'; scattered sub. py grains	
949																14137	5.0	C.001	assoc. in chlorite b/w fragments and	
954																14138	5.0	C.001	in voids	
958.2																14139	4.2	C.001		

DRILL HOLE NO: RN95-153

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.016/10

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J/F	A2	qtz	Py	B					
963.2		M	MG	POR	RD	ALB	8S									14140	5.0	C	.019	brick-red medium-grained syenite w abundant closely-packed P-spar phenocrysts; numerous fine fractures filled w chlorite; fine anh. to sub. pg conc. along CHL fractures; Qtz veins (T) up to 1/4" sparsely scattered throughout; sharp contacts @ 45° TCA; very uniform w small sections w less phen's and darker red color; larger phenocrysts are zoned; fine euh. py. throughout; darker green patches assoc. w chlorite in matrix; mafic mtl along fractures assoc. w chlorite and py. probably tourmaline
968.2		↓	↓	↓	↓	↓	↓									14141	5.0	C	.012	
973.2		↓	↓	↓	↓	↓	↓									14142	5.0	C	.003	
977.8		↓	↓	↓	↓	↓	↓									14143	4.6	C	.005	
982.8		S	FG	MSV	GN	CHL	Zm									14144	5.0	C	.001	mildly bi'd; scattered development of varroles; similar to 919-958.2; weakly chert alt. around Qtz veins; approx 0.9 feet of missing core btwn 977.9 and 987.7
987.8		↓	↓	↓	↓	↓	↓									14145	5.0	C	.001	
992.8		↓	↓	↓	↓	↓	↓									14146	5.0	C	.001	
996.3		↓	↓	↓	↓	↓	↓									14147	3.5	C	.001	

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Py	Py						
1001.3		M	MG	POR	RD	ALB	8s									14148	5.0	C	.001	similar to 958.2-977.8 w/ less plagioclase, weak fabric @ 45° TCA
1005		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	14149	3.7	C	.001	
1008		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	14150	3.0	C	.001	
~~~~~ ← *CHANGE IN SAMPLE NUMBER SEQUENCE																				
1011		M	FG	MSV	GN	FU	2m									22679	3.0	C		massive Mg-thaenite to fuchsite alt'n from 1008-1010.3'; slightly mottled appearance to chlorite-rich dark patches
1014		M	FG	MSV	GN	CHL	2m									22680	3.0	C	.001	
1016.2		M	MG	POR	RD	ALB	8s					Tr	Tr			22681	22	C	.001	same as 993.6 to 1008'
1020.2		M	FG	MSV	GN	SIL	2m						Tr			22682	4.0	C	.001	silicified Mg-thaenite similar to 1008-1014
1022.1		M	MG	POR	RD	ALB	8s						Tr			22683	1.9	C	.015	same as 993.6-1008'
1027.1		B	FG	RUB	GN	HEM	2m					Tr	Tr			22684	5.0	C	.001	broken rubbery core to extensive red veins and coloring up to 1025.5 probably due to HEM; development of variscles in patches; similar to 977.8-996.3 at ten ~ 1025.5'; moderately hard
1032.1		M	FG	MSV	GN	CHL	2m					Tr	Tr			22685	5.0	C	.001	
1081		↓	↓	↓	↓	↓	2m					Tr	Tr			22686	48.96		.001	
1086		↓	↓	↓	↓	↓	2m					Tr	Tr			22687	50	C	.001	

DRILL HOLE NO. RN95-153

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	GrS	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2								
1090.7		M	FG	FOR	BN	SIL	8fp						Tr	Py		22688	4.7	C.001		Brown to violet-green FP w scattered coarse f-spars phenocrysts; chlorite along fine fractures; fine Py. assoc. w CHL along fine fractures; sharp lower contact
1095.7		M	CG	MSV	GN	CHL	It					-	Tr			22689	5.0	C.001		slightly SIL'd UM w chlorite filling fractures; indistinct lower contact
1100.7		M	CG	MSV	GN	CHL	It					-	Tr			22690	5.0	C.001		fractures; minor calcite in fractures
1200		M	MG	MSV	GN	CHL	Zm?					Tr	Tr			22691	99.36	.001		CHL'd mafic (Mg-tholeiite) w Qtz and minor calcite filling high angle (TEA) fractures and veins; alternating sequence w interbeds of coarse grained UM sections and fine-grained mafic sections (dominantly mafic); indistinct lower contact w ls
1722		M	MG	MSV	GN	CHL	Zm?					Tr	Tr			22692	22.06	.001		

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	All	Name 1	Name 2	B/S B	J/F A1	J	A2	Qtz	Py						
1246		M	CG	MSV	BK	SRP	Is						-	Tr		22693	24.0G	.001		moderately magnetic; black to grey-black; very hard to scratch; serpentine filling fractures up to 1" wide; minor chlorite filling fractures; sharp lower contact
1300		M	FG	MSV	GY	SIL	Zm						-	Tr		22694	54.0G	.001		extremely SIL'd light grey matrix to speckled porphyritic-looking sections; may be small porphyries; extremely hard - cannot be scratched w/ knife; dark specks in "porphyritic" sections may be tourmaline (many are acicular) or hornblende; scattered patches of fine py (euh.) usually assoc. w/ porphyritic sections but always in only v. small amounts
1300							EOH													EOH

## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

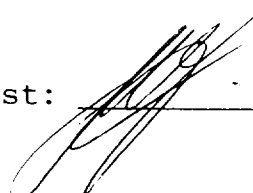
Hole Number: RN-95-~~153~~-140

Date Assayed: 12/29/95

Week/Tray: 95DEC25/AF011

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14107		0.001	35
2	DXR14108		0.001	35
3	DXR14109		0.001	35
4	DXR14110		0.001	35
5	CONTROL	Control	0.101	3460
-----				
6	DXR14111		0.001	35
7	DXR14112		0.001	35
8	DXR14113		0.001	35
9	DXR14114		0.001	35
10	DXR14115		0.001	35
-----				
11	BLANK	Blank	0.001	35
12	DXR24944		0.013	445
13	DXR24945		0.029	995
14	DXR24946		0.001	35
15	DXR24947		0.004	135
-----				
16	DXR24948		0.001	35
17	DXR24949		0.001	35
18	DXR24950		0.001	35
19	DXR24951		0.001	35
20	DXR24952		0.001	35
-----				
21	DXR24952			
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

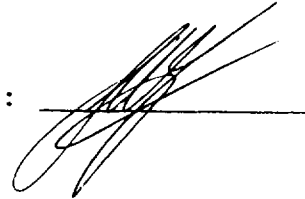
Hole Number: RN-95-~~153~~-138

Date Assayed: 01/02/96

Week/Tray: 95DEC25/AF017

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14101		0.001	35
2	DXR14102		0.001	35
3	CONTROL	Control	0.098	3360
4	DXR14103		0.001	35
5	DXR14104		0.001	35
-----				
6	DXR14105		0.001	35
7	DXR14106		0.001	35
8	DXR14220		0.001	35
9	DXR14221		0.001	35
10	DXR14222		0.001	35
-----				
11	DXR14223		0.001	35
12	DXR22679		0.001	35
13	DXR14143		0.005	170
14	DXR14144		0.001	35
15	DXR14145		0.001	35
-----				
16	DXR14146		0.001	35
17	BLANK	Blank	0.001	35
18	DXR14147		0.001	35
19	DXR14148		0.001	35
20	DXR14149		0.001	35
-----				
21	DXR14150		0.001	35
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

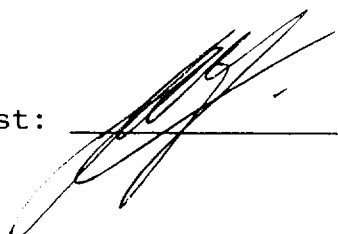
Hole Number: RN-95-~~153~~-154

Date Assayed: 01/02/96

Week/Tray: 95DEC25/AF022

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14116		0.001	35
2	DXR14117		0.002	70
3	BLANK	Blank	0.001	35
4	DXR14118		0.001	35
5	DXR14119		0.001	35
6	DXR14120		0.001	35
7	DXR14121		0.001	35
8	DXR14122		0.001	35
9	DXR14123		0.001	35
10	DXR14124		0.001	35
11	DXR22726		0.001	35
12	DXR22727		0.001	35
13	CONTROL	Control	0.098	3360
14	DXR22728		0.001	35
15	DXR22729		0.001	35
16	DXR22730		0.001	35
17	DXR22731		0.001	35
18				
19				
20				
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-138-153

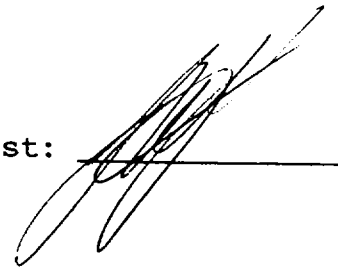
Date Assayed: 01/02/96

Week/Tray: 95DEC25/AF020

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14211		0.001	35
2	DXR14212		0.001	35
3	BLANK	Blank	0.001	35
4	DXR14213		0.010	345
5	DXR14214		0.001	35
6	DXR14215		0.001	35
7	DXR14216		0.001	35
8	DXR14217		0.001	35
9	DXR14218		0.016	550
10	DXR14219		0.080	2740
11	DXR14134		0.001	35
12	DXR14135		0.001	35
13	CONTROL	Control	0.097	3330
14	DXR14136		0.001	35
15	DXR14137		0.001	35
16	DXR14138		0.001	35
17	DXR14139		0.001	35
18	DXR14140		0.019	650
19	DXR14141		0.012	410
20	DXR14142		0.003	105
21				
22				
23				
24				

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Geologist: P.HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

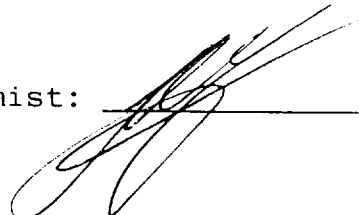
CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-153  
 Date Assayed: 01/02/96  
 Week/Tray: 95DEC25/AF021

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR22680	Blank	0.001	35
2	BLANK		0.001	35
3	DXR22681		0.001	35
4	DXR22682		0.001	35
5	DXR22683		0.015	515
6	DXR22684		0.001	35
7	DXR22685		0.001	35
8	DXR22686		0.001	35
9	DXR22687		0.001	35
10	DXR22688		0.001	35
11	DXR22689	Control	0.001	35
12	CONTROL		0.100	3430
13	DXR22690		0.001	35
14	DXR22691		0.001	35
15	DXR22692		0.001	35
16	DXR22693		0.001	35
17	DXR22694		0.001	35
18				
19				
20				
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy



## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

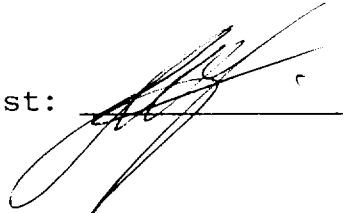
Hole Number: RN-95-~~153~~-155

Date Assayed: 01/02/96

Week/Tray: 95DEC25/AF025

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14125		0.001	35
2	DXR14126		0.004	135
3	DXR14127		0.003	105
4	DXR14128		0.002	70
5	BLANK	Blank	0.001	35
6	DXR14129		0.002	70
7	DXR14130		0.001	35
8	DXR14131		0.003	105
9	DXR14132		0.001	35
10	DXR14133		0.001	35
11	DXR24768		0.001	35
12	DXR24769		0.001	35
13	DXR24770		0.001	35
14	DXR24771		0.001	35
15	CONTROL	Control	0.102	3500
16	DXR24772		0.004	135
17	DXR24773		0.004	135
18	DXR24774		0.001	35
19	DXR24775		0.004	135
20	DXR23734		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	GrS	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Py						
695.7		S	FG	POR	GY	SIL	8fp							Tr	Tr	22735	5.0	C	.001	fine to medium-grained FP w variable
700.7																22736	5.0	C	.001	phenocryst content from dec. cly packed
705.7																22737	5.0	C	.001	(almost like 8s) to isolated coarse + spar
710.7																22738	5.0	C	.001	grains; abundant chlorite w in matrix
715.7																22739	5.0	C	.001	as dark specks and patches; CHL conc.
720.7																22740	5.0	C	.001	along fractures; acicular magic grains
725.7																22741	5.0	C	.001	probably tourmaline; sharp contacts; only
728.7																22742	3.0	C	.001	v. fine isolated gte veinlets, all less than
731.3																22743	2.6	C	.001	1/2"; weak ANK alt'n
736.3		M	CG	MSV	BR	ANK	1ct									22744	5.0	C	.001	strongly ANK'd spmifer - textured
741.3		S														22745	5.0	C	.001	UM: becomes inc. hard w inc. depth;
746.3		M														22746	5.0	C	.001	rubbly core from ~740-741; fuchsitic
749.6		M														22747	3.3	C	.001	alth' ass'd. to gte-ANK gates and
752.6		S														22748	3.0	C	.001	veinlets after ~745'; chlorite filling fractures and voids
753.6		M	MG	MOTL	PK	SIL	8cp							Z	Tr	22749	1.0	C	.001	10" long FP w angostomosing fine gte vein- lets; tourmaline conc. along fracture along to minor CHL; v. fine traces of py; rubbly upper contact; sharp lower contact

DRILL HOLE NO. RN95-154

PAGE 3 OF 7

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	GR	PY						
758.6		M	FG	Bx	GN	ANK	Zm						Tr	Tr	22750	5.0	C	.001	CHL'd Mg-tholeiite; CHL jilting fractures; traces of euh. to subh. py assoc. to CHL; mildly to strongly Sx all; moderate to strong ANK alt'n; juchsite alt'n assoc. to qtz-ANK veinlets and patches	
763.6		↓	↓	↓	↓	↓	Zm						↓	↓	50476	5.0	C	.001		
767		↓	↓	↓	↓	↓	Zm						↓	↓	50477	3.4	C	.028		
* CHANGE IN SAMPLE # SEQUENCE AFTER 22750																				
769.8		M	FG	Por	PK	SIL	8fp						Tr	Tr	50478	2.8	C	.001	pink-red FP w sparse phenocrysts except in central section from 768.2 - 769.2' where they are densely packed and assoc. to CHL in matrix; CHL jilting fractures; sharp contacts	
774		M	FG	Bx	GN	ANIK	Zm						Tr	Tr	50479	4.2	C	.001	same as 753.6-767'	
778.2		↓	↓	↓	↓	↓	↓						↓	↓	50480	4.2	C	.001		
782.4		↓	↓	↓	↓	↓	↓						↓	↓	50481	4.2	C	.001		
786.2		M	FG	Por	PK	SIL	8fp						I	Tr	50482	3.8	C	.038	similar to 767-769.8 w scattered coarse f-spa; phenocrysts	

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	GrS	Text	Co	Alt	Name 1	Name 2	B/S	A1	J	A2	Qtz	Py						
790.2		M	FG	MSV	GN	CHL	2m									50483	4.0	C.001		same as 753.6-767' except more massive and
792.6		M	FG	MSV	GN	CHL	2m									50484	2.4	C.001		lacking strong ANK alt'n
795.6		M	FG	POP	PK	SIL	8fp									50485	3.4	C.002		same as 782.4-786.2'
800.6		M	FG	MSV	GN	CHL	2m									50486	5.0	C.001		minor calcite filling fractures; heavy
805.6																50487	5.0	C.001		CHL; similar to 786.2-792.6; red
848.4																50488	42.6	C.001		FP in sharp contacts from 824.3-824.7
853.4																50489	5.0	C.001		(no sulphide apparent); sulphide assoc
858.4																50490	5.0	C.002		rich white in fractures
863.4		M	MG	POP	RD	ALB	8s									50491	5.0	C.009		medium-grained 8s (maybe 8fp); pink-
868.4																50492	5.0	C.015		red; densely packed phenocrysts;
873.4																50493	5.0	C.021		small sections where only sparse coarse
875.5																50494	2.1	C.031		phenocrysts; v. fine py dissemin. throughout matrix; minor conc's of py along CHL filled fractures; sections where py conc's blown 1-2%

883.2-792.8  
.035/9.6

DRILL HOLE NO. RN95-154  
PAGE 5 OF 7

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	IT	AU <input type="checkbox"/> opt grams	COMMENTS
		Com	Grs	Text	Co	All	Name 1	Name 2	B/S B	A1	J	A2	Py	Py						
877.8		M	FG	MSV	GN	CHL	Zm							-	Tr	50495	2.3	C	.032	same as 786.2-792.6
879.2		M	FG	MSV	RG	SIL	8Fp							1	1	50496	1.4	C	.002	fine grd FP w. v. finely dissec. py through- out matrix; scattered fine phenocrysts; sharp contacts
883.2		M	FG	MSV	GN	ANK	Zm							Tr	Tr	50497	4.0	C	.002	same as 753.6-767'
887.2		↓	↓	↓	↓	↓	↓							↓	↓	50498	4.0	C	.046	
890.5		↓	↓	↓	↓	↓	↓							↓	↓	50499	3.3	C	.001	
892.8		M	FG	POR	PK	SIL	8Fp							1	1	50500	2.3	C	.064	same as 786.2-790.2; py conc. in fract. assoc. w. CHL; weak ANK alt'n; moderately dense occurrence of phenocrysts; scattered euh. grains of py. in matrix
897		M	FG	MSV	GN	ANK	Zm							Tr	Tr	84776	4.2	C	.001	same as 753.6-767'
*CHANGE IN SAMPLE # SEQUENCE AFTER 50500																				

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	qtz	Py						
901.7		S	FG	POR	PK	SIL	8fp							1	1	84777	4.7	C	.001	same as 690.7-731.3; highly fractured to mildly br'd sections - chlorite filling fractures Stn fragments
906.7		M	FG	BX	GN	CHL	Zm						-	Tr	84778	5.0	C	.005	same as 786.2-792.6; weak ANK alt'n	
911.7		M	FG	BX	GN	CHL	Zm						-	↓	84779	5.0	C	.001		
949.3		M	FG	MSV	GN	CHL	Zm						Tr	↓	84780	37.6	G	.001		
954.3		M	FG	MSV	GN	CHL	Zm						-	↓	84781	5.0	C	.001		
955.5		M	FG	POR	BN	SIL	8fp						-	Tr	84782	1.2	C	.001	similar to 782.4-786.2; larger phenocrysts zoned	
960.5		M	FG	MSV	GN	ANK	Zm						-	Tr	84783	5.0	C	.001	massive mafic to patchy development of varrodes; isolated conc's of py along fractures	
965.5		↓	↓	↓	↓	↓	↓						-	↓	84784	5.0	C	.001	assoc. to CHL; minor qtz filling fractures;	
1065.5		↓	↓	↓	↓	↓	↓						-	↓	84785	100.0	G	.001	calcite assoc. to CHL; moderate to strong ANK alt'n; fine to medium grained; moderately hard	
1118		↓	↓	↓	↓	↓	↓						-	↓	84786	52.5	G	.001		

DRILL HOLE NO. RN95-154

PAGE 7 OF 7

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	Qtz	Px						
1143.8		M	FG	Bx	GN	SIL	Zpb						-	Tr		84787	25.86	.001		Sx'd pillowed flow; banded pattern weakly developed between lighter more SIC'd areas and darker CHL-rich areas; traces of py assoc. ± CHL stn fragments; sharp contacts to surrounding massive matrix
1176		M	FG	MSV	GG	LEU	Zm						-	Tr		84788	32.26	.001		homogenous massive matrix w little fracture or void filling; fine dissem. leucocres throughout matrix; becomes more massive to depth
1202		M	CG	MSV	GY	TCL	It						-	Tr		84789	26.06	.001		weakly ANK'd UM to vens filled by talc and calcite; mildly Sx'd sections
1202																				EOH



ROYAL OAK ANALYTICAL LABORATORY


CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-154  
 Date Assayed: 12/20/95  
 Week/Tray: 95DEC18/AF013

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C50484		0.001	35
2	C50485		0.002	70
3	C50486		0.001	35
4	CONTROL	Control	0.101	3460
5	C50487		0.001	35
-----				
6	C50488		0.001	35
7	C50489		0.001	35
8	C50490		0.002	70
9	C50491		0.009	310
10	C50492		0.015	515
-----				
11	C50493		0.021	720
12	C50494		0.031	1060
13	BLANK	Blank	0.001	35
14	C50495		0.032	1100
15	C50496		0.002	70
-----				
16	C50497		0.002	70
17	C50498		0.046	1580
18	C50499		0.001	35
19	C50500		0.064	2190
20	C84776		0.001	35
-----				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

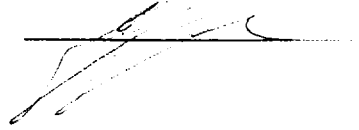
Hole Number: RN-95-138-154

Date Assayed: 12/21/95

Week/Tray: 95DEC18/AF022

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14151	Blank	0.001	35
2	BLANK		0.001	35
3	DXR14152		0.001	35
4	DXR14153		0.001	35
5	DXR14154		0.006	205
6	DXR14155		0.001	35
7	DXR14156		0.001	35
8	DXR14157		0.001	35
9	DXR14158		0.001	35
10	DXR14159		0.001	35
11	DXR14160	Control	0.001	35
12	CONTROL		0.100	3430
13	DXR14161		0.001	35
14	DXR14162		0.004	135
15	DXR14163		0.001	35
16	DXR14164		0.001	35
17	DXR14165		0.001	35
18	C84786		0.001	35
19	C84787		0.001	35
20	C84788		0.001	35
21	C84789		0.001	35
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

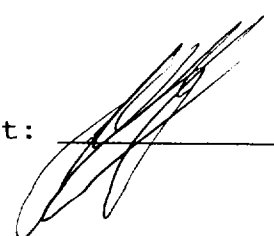
CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-154  
 Date Assayed: 12/29/95  
 Week/Tray: 95DEC25/AF009

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR22741		0.001	35
2	DXR22742		0.001	35
3	DXR22743		0.001	35
4	DXR22744		0.001	35
5	DXR22745		0.001	35
6	PM 601	Control	0.300	10290
7	DXR22746		0.001	35
8	DXR22747		0.001	35
9	BLANK	Blank	0.001	35
10	DXR22748		0.001	35
11	DXR22749		0.001	35
12	DXR22750		0.001	35
13	C50476		0.001	35
14	C50477		0.028	960
15	C50478		0.001	35
16	C50479		0.001	35
17	C50480		0.001	35
18	C50481		0.001	35
19	C50482		0.038	1300
20	C50483		0.001	35
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Geologist: P. HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

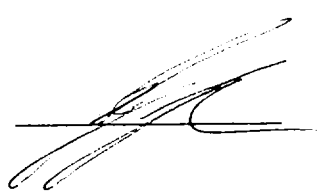
Hole Number: RN-95-137-154

Date Assayed: 12/22/95

Week/Tray: 95DEC18/AF025

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR24919		0.001	35
2	DXR24920		0.001	35
3	DXR24921		0.008	275
4	DXR24922		0.001	35
5	BLANK	Blank	0.001	35
6	DXR24923		0.001	35
7	DXR24924		0.001	35
8	DXR24925		0.001	35
9	DXR24926		0.001	35
10	DXR24927		0.001	35
11	C84777		0.001	35
12	C84778		0.005	170
13	CONTROL	Control	0.099	3390
14	C84779		0.001	35
15	C84780		0.001	35
16	C84781		0.001	35
17	C84782		0.001	35
18	C84783		0.001	35
19	C84784		0.001	35
20	C84785		0.001	35
21				
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Geologist: P. HARVEY

Chief Chemist: 

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ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-153-154

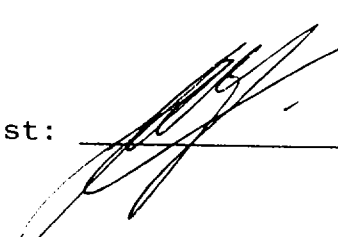
Date Assayed: 01/02/96

Week/Tray: 95DEC25/AF022

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB	
1	DXR14116		0.001	35	
2	DXR14117		0.002	70	
3	BLANK	Blank	0.001	35	
4	DXR14118		0.001	35	
5	DXR14119		0.001	35	
6	DXR14120			0.001	35
7	DXR14121			0.001	35
8	DXR14122		0.001	35	
9	DXR14123		0.001	35	
10	DXR14124		0.001	35	
11	DXR22726	Control	0.001	35	
12	DXR22727		0.001	35	
13	CONTROL		0.098	3360	
14	DXR22728		0.001	35	
15	DXR22729		0.001	35	
16	DXR22730		0.001	35	
17	DXR22731		0.001	35	
18					
19					
20					
21					
22					
23					
24					

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Geologist: P.HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

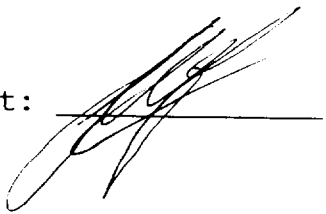
Hole Number: RN-95-~~(154)~~-142

Date Assayed: 12/29/95

Week/Tray: 95DEC25/AF010

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR22732		0.001	35
2	DXR22733		0.001	35
3	DXR22734		0.001	35
4	DXR22735		0.001	35
5	DXR22736		0.001	35
6	CONTROL	Control	0.096	3290
7	DXR22737		0.001	35
8	DXR22738		0.001	35
9	DXR22739		0.001	35
10	BLANK	Blank	0.001	35
11	DXR22740		0.001	35
12	DXR23696		0.001	35
13	DXR23697		0.001	35
14	DXR23698		0.001	35
15	DXR23699		0.001	35
16	DXR23700		0.001	35
17	DXR23701		0.001	35
18	DXR23702		0.008	275
19	DXR23703		0.059	2020
20	DXR23704		0.065	2230
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

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DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS	
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	QTZ	Py							
495.0		m	FmG	BRX	GY	CHL	1S						2		Tr		24771	100.0	G	.001	- DK GREY - DK GREY/GREEN - MORE CHL, LESS SRP - WK BRX - MSU, STR MAGNETIC - BROKEN/BLOCKY CORE IN PLACES - 492.4 - 498.0 - BROKEN CORE - 2% QTZ/CC VEINING
595.0		m	FmG	BRX	GY	CHL	1S						1		Tr		24772	100.0	G	.004	- SIMILAR TO PREVIOUS UNIT
645.0		m	FmG	BRX	GY	CHL	1S						2		Tr		24773	100.0	G	.004	- SIMILAR TO PREVIOUS UNIT - WK-MOD BRX WITH MORE MSU SECTIONS - MORE TALC AT END OF UNIT
759.5		m	FmG	BRX	GY	TCL	1E						4		Tr		24774	64.5	G	.001	- DK GREY, WK-MOD BRX, 3% QTZ/CC STUR - EASY TO SCRATCH, MOD-STR MAGNETIC - 1% QTZ/CC VEINS UP TO 1" WIDE - GRAN UPPER CONTACT
664.5		m	FmG	BRX	GY	TCL	1E						5		Tr		24775	5.0	C	.004	- SIMILAR TO PREVIOUS UNIT
669.5		m	FmG	BRX	GY	TCL	1E						5		Tr		23734	5.0	C	.001	- SIMILAR TO PREVIOUS SECTION
671.0		m	FmG	BRX	GG	CHL	1E						2		I		23735	1.5	C	.001	- GREY/GREEN, CHL RICH, WK BRX - WK MAGNETIC; EASY TO SCRATCH - 1% F-MG ANH - SUB PY



DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS	
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S	A1	J	A2	Qtz	Py							
774.3		m	FmG	POR	GY	ALB.	8fp						Tr	3			23736	3.3	C	.004	- FELD PORPH, GREY-GREY/GREEN CHL SPECKS, STR CHL CONTACTS - STR POR IN MIDDLE OF SECTION, MORE MSV AT MARGINS - 2% CHL FRAC - 3% FG DISSEM PY
777.4		m	FmG	BRX	GG	CHL	1E						6	1			23737	3.1	C	.001	- GREY/GREEN - GREEN, EASY TO SCRATCH, WK MAGNETIC IN PLACES - WK-MOD BRX, QTZ/CC/ANK STWK - 1% FG PY
782.4		m	FmG	POR	GY	ALB.	8fp	Q40				1	1				23738	5.0	C	.001	-777.4-800.2- FELD PORPH
787.4												1	1				39			<.001	- GREY - PINK/GREY, F-MG, POR - MORE
792.4								Q60				2	1				40			<.011	MSV IN PLACES, ZONED PLAG PHCN
797.4								Q60				2	1				41			<.005	- CHL SPECKS, 2% CHL FRAC
800.2								Q65				1	1				42	2.8	C	.002	- 1-2% QTZ VEINS UP TO 1/4" WIDE - Tr - 1% FG PY, RARE MD ALONG FRAC - 786.0- 1 SPECK SPH? IN QTZ VLET
803.2		m	FmG	BRX	GR	ANK	1Fu	Q60				5	1				23743	3.0	C	.001	- mod FUCH/CHL - WK-MOD BRX, 3% QTZ/ANK VEINS/ PATCHES UP TO 1/4" WIDE - 1% F-MG SUB-EUH PY

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS	
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B	A1	J	A2	QTZ	PY							
806.0		m	FmG	BRX	GR	CHL	16u		Q	45			4		Tr		23744	2.8		<.001	- MOD FUCH - STR CHL AT END OF SECTION - 1% QTE/ANK VEINS UP TO 1/4" WIDE - 805.4 - 805.5 - SYENITE BAND, 2-3% PY
809.0		m	FmG	MSU	PK	ALB	8S		Q	45			1		3		23745	3.0		<.004	- 806.0 - 831.8 - SYENITE
814.0									Q	20			1		2		46	5.0		<.024	- PINK-RED/PINK, MINOR ILM STAINING
819.0									Q	55			2		3		47	5.0		<.012	ALONG FRAC AND IN SYENITE
824.0									Q	25			2		2		48	5.0		<.003	- MSU WITH MINOR POR SECTIONS
829.0													1		3		49	5.0		<.003	- 1-2% CHL FRAC, MINOR CHL SPECKLES
831.8									Q	60			1		2		50	2.8		<.008	- 1-2% QTE VEINS < 1/4" WIDE - 2-3% F-MG SUB-EUH PY
836.8		m	FmG	BRX	GR	CHL	1ct?							Tr	Tr		30374	5.0		<.001	- GREEN-GREY/GREEN, MOD ANK ALT'N - MOD EASY TO SCRATCH, HARDER IN BOTTOM OF SECTION, BROKEN CORE AT LOWER CONTACT - POSS MAFIC PIL BRX IN LOWER PART - WK-MOD BRX, CHL STWK - Tr-1% FG PY
839.8		m	FmG	MSU	PK	ALB	8S		Q	70			1		4		30375	3.0		<.006	836.8 - 847.0 - SYENITE
842.8									Q	70			2		1		76	3.0		<.004	- PINK-PINK GREY, MSU WITH MINOR POR
847.0									Q	70			3		1		77	2.2		<.027	BATCHES, 3-4% CHL FRAC - 1-2% QTE VEINS/VELTS < 1/4" WIDE - MINOR VWK EPD' ALT'N - 2% FG PY

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	QZ	PY						
850.3		M	FmG	BRX	GG	ANK	1ct?					2		Tr		30378	3.3	C	.001	- GREY/GREEN, MOD ANK ALT'N - MOD EASY TO SCRATCH, WK BRX - MOTL - Tr FUCH, WK CHL - BROKEN CORE AT UPPER CONTACT
854.3		M	FmG	BRX	GG	ANK	1ct?					4		Tr		30379	4.0	C	.012	- SIMILAR TO PREVIOUS SECTION - Tr WK FUCH, Tr EPD? ALT'N
856.2		M	FmG	PKR	PK	ALB	8fp		Q75			8		3		30380	1.9	C	.001	- PINK/GREY, WK SCR? ALT'N AT CONTACTS, PKR MORE MSU AT MARGINS, 8% QZ VEINS UP TO 1/4" WIDE, 1% CHL FRAC, 3% FG PY
861.2		M	FmG	BRX	GR	CHL	2pb?					1		Tr		30381	5.0	C	.001	- 856.2-918.6 - MAFIC VOLC PIL BRX?
866.2												1		Tr		82	5.0	C	.001	- MINOR U. MAFIC AT TOP OF UNIT
871.2												3		1		83	5.0	C	.001	- GREEN - GREY/GREEN
885.0												2		Tr		84	13.8	G	.001	- MINOR EPD / SRP? ALT'N, Tr FUCH
890.0												1		1		85	5.0	C	.001	SPECKS AT TOP OF UNIT
913.6												1		Tr		86	23.6	G	.001	- WK BRX - MORE MSU.
918.6												2		1		87	5.0	C	.001	- MINOR VARIOLAS? OR CAUSED BY ALT'N - HARD - MOD HARD TO SCRATCH - CHL STWK / SELVAGES, MINOR QZ/CC - Tr QZ VLETS, Tr 1% PY IN VLETS/FRI - WK SIL IN PLACES, MORE GRAY IN COLOUR - Tr HEM STAINING IN UPPER PART

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	QTZ	PY						
																				- 870.0-871.2 - 3% F-MG PY IN FRAC
																				- 887.3-888.3 - 3% F-MG PY
921.2		M	FMB	POR	GY	ALB	8fp						Tr	1		30388	2.6	C.001		- DK GREY/PURPLE, Tr QTZ FRAC - 1% VF-FG PY SOME CONC ALONG FRAC
926.2		M	FG	BRX	GR	CHL	zpb						1	Tr		30389	5.0	C.001		- 921.2-940.5 - MAFIC VOLC PIL BRX
931.2													2			90	5.0	C.001		- GREEN, WK BRX - PILLOWED
936.2													1			91	5.0	C.001		- 5% CHL STWK/SEL/FRAC
940.5													1			92	4.3	C.001		- Tr 1% QTZ/cc STWK/VLETS - Tr HEM STAINING IN ONE FRAC
943.8		M	FMB	POR	GY	ALB	8fp						1	1		30393	3.3	C.001		- DK GREY, Tr CHL FRAC, 1% QTZ VLETS/FRAC, Tr-1% FG PY
948.2		M	FG	BRX	GR	CHL	zpb		Q 5				1	Tr		30394	4.4	C.001		- SIMILAR TO PREVIOUS zpb - 1-2% QTZ/cc VLETS & 5% TCA
952.0		M	FCG	POR	GY	ALB	8fp		Q 50				1	1		30395	3.8	C.002		- DK GREY - GREY/PINK AROUND FRAC - 1-2% QTZ VLETS/FRAC - 1% F-MG PY, SOME ALONG FRAC/VLETS - ONE VLET < 1/8" WIDE, Tr SPH?
956.0		M	FG	BRX	GR	CHL	zpb						1	Tr		30396	4.0	C.001		- 952.0-964.1 - MAFIC VOLC PIL BRX
960.0													1	Tr		97	4.0	C.001		- SIMILAR TO PREVIOUS MAFIC VOLCS
964.1									Q 45				2	Tr		98	4.1	C.001		- Tr EPD? ALT'N - MINOR GREY/GREEN WK SIL PATCHES

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J	A2	QTZ	PY						
966.7		m	FCG	POR	GY	ALB	8fp					1		Tr		30399	2.6		0.001	- COARSER GRAINED FELD / WK POR COMPARED WITH PREVIOUS PORPH. - 1% QTZ VLETS / FRAC
971.7		m	FG	BRX	GR	CHL	2pb					1		Tr		30400	5.0		0.001	- 966.7 - 982.4 - MAFIC VOLC
978.4												2		Tr		30401	6.7		0.001	- SIMILAR TO PREVIOUS MAFIC UNIT
983.4												1		Tr		30402	5.0		0.001	- WK - MOD BRX IN PLACES - MINOR U. MAFICS ? AT END OF UNIT
987.4		m	FMG	MSV	PK	ALB	8S	Q 20				3		2		30403	4.0		0.001	- 983.4 - 994.8 - SYENITE
991.4								Q 50				3		2		30404	4.0		0.014	- PINK-PINK/GREY, MSV - POR IN PLACES
994.8								Q 30				2		2		30405	3.4		0.016	- 3-4% CHL FRAC, CHL CONTACTS - 2-3% QTZ VEINS UP TO 1/2" WIDE MINOR CHL IN VEINS - Tr MO ALONG SOME FRAC - 2% FG PY
999.8		m	FG	BRX	GR	CHL	2pb					1		Tr		30406	5.0		0.001	- GREEN-GREY/GREEN, WK BRX
1004.8		m	FG	BRX	GR	CHL	2pb					2		Tr		30407	5.0		0.001	- SIMILAR TO PREVIOUS SECTION
1040.6		m	FG	FMG	GR	CHL	2pb					Tr		Tr		30408	35.8		0.001	- GREEN-GREY/GREEN, PIL - WK BRX - FG AT TOP OF UNIT - COARSER GRAINED IN LOWER PART - CHL STWK / SCL / FRAC - Tr QTZ FRAC / VLETS

DIST	ID	ROCK DESCRIPTION							STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	A1	J/F J	A2	QTZ	PY							
																					- Tr PY USUALLY IN OR NEAR QTZ - WK SIL IN PLACES
1045.6		m	FMG	BRX	GR	CHL	zpb		Q	BS		4		Tr			30409	5.0	c.001		- SIMILAR TO END OF PREVIOUS UNIT - 4% QTZ/CC VEINS UP TO 1/2" WIDE
1051.6		A	FMG	POB	GY	ALB	8fp					1		Tr			30410	6.0	c.001		- GREY - PINK/GREY AROUND QTZ - POB - MORE MSV LOOKING - 1-2% QTZ/VLETS /FRAC - MINOR CHL SPECKS /FRAC - Tr - NO PY
1056.6		m	FMG	BRX	GR	CHL	zpb					1		Tr			30411	5.0	c.001		- SIMILAR TO PREVIOUS zpb
1085.2		m	FMG	PKL	GR	CHL	zpb					1		Tr			30412	28.6	G.001		- PILLOWED - WK BRX /FRAC - MORE BRX AT LOWER CONTACT - 1% QTZ/CC VLETS /IN STWK
1114.4		m	FMG	BRX	GG	CHL	1E					2		Tr			30413	29.2	G.001		- GREY/GREEN - GREY, WK BRX - MODL - MOD-CHL IN PLACES - 1% QTZ/CC VLETS - MOD HARD - HARD TO SCRATCH
1116.7		m	FMG	MSV	GG	CHL	zm?					2		Tr			30414	2.3	c.001		- MAFIC VOLC? GREY/GREEN, MSV, FG HARD TO SCRATCH - 1/2" QTZ/CC VEIN AT TOP OF SECTION

DIST	ID	ROCK DESCRIPTION						STRUCTURE				GANGUE		METALLIC		SAMPLE #	WIDTH	T	AU opt grams	COMMENTS
		Com	Grs	Text	Co	Alt	Name 1	Name 2	B/S B	J/F A1	J/F J	J/F A2	QZ	Py						
																				- 3% F-MG PO
1155.6		M	FMG	BRX	GG	CHL	1E?						2	Tr	30415	38.9		0.001	- u.MAFIC? / MINOR MAFIC VOLCS. - GRAY/GREEN, F.MG, WK BRX - CHL STNK / MINOR QZ/CC - MOD HARD - HARD TO SCRATCH - 1-2% QZ/CC VLETS/FAC - MINOR LT GREEN PATCHES / ALMOST VAR. - MORE MAFIC? IN LOWER PART OF UNIT	
1158.1		M	FG	MSV	GY	CHL	2m?						10	Tr	30416	2.5		0.001	- FG, MSV, 1-2% QZ/CC VLETS/FAC - 4% F-MG PO - 3" QZ/CC VEIN AT TOP OF SECTION, Tr Py	
1197.3		M	FMG	MSV	GG	CHL	2m?						3	Tr	30417	39.4		0.002	- MAFIC VOLC? / u.MAFIC - GRAY/GREEN, MSV - WK BRX, CHL/ MINOR QZ/CC STNK - HARD TO SCRATCH - 2-3% QZ/CC VLETS/FAC - MINOR VAR?	
1197.3							EOH													- 1197.5 - EOH

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

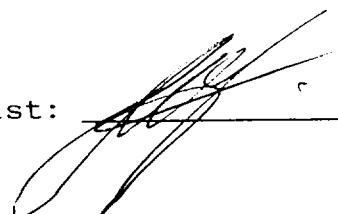
Hole Number: RN-95-153-155

Date Assayed: 01/02/96

Week/Tray: 95DEC25/AF025

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR14125		0.001	35
2	DXR14126		0.004	135
3	DXR14127		0.003	105
4	DXR14128		0.002	70
5	BLANK	Blank	0.001	35
6	DXR14129		0.002	70
7	DXR14130		0.001	35
8	DXR14131		0.003	105
9	DXR14132		0.001	35
10	DXR14133		0.001	35
11	DXR24768		0.001	35
12	DXR24769		0.001	35
13	DXR24770		0.001	35
14	DXR24771		0.001	35
15	CONTROL	Control	0.102	3500
16	DXR24772		0.004	135
17	DXR24773		0.004	135
18	DXR24774		0.001	35
19	DXR24775		0.004	135
20	DXR23734		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

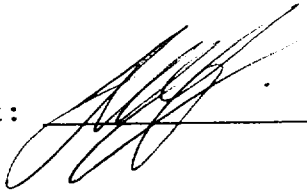
CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-155  
 Date Assayed: 01/05/96  
 Week/Tray: 96JAN01/AF009

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX30385		0.001	35
2	AX30386		0.001	35
3	AX30387		0.001	35
4	AX30388		0.001	35
5	AX30389		0.001	35
6	AX30390		0.001	35
7	AX30391		0.001	35
8	AX30392		0.001	35
9	BLANK	Blank	0.001	35
10	AX30393		0.001	35
11	AX30412		0.001	35
12	AX30413		0.001	35
13	AX30414		0.001	35
14	AX30415		0.001	35
15	AX30416		0.001	35
16	CONTROL	Control	0.100	3430
17	AX30417		0.002	70
18				
19				
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Geologist: P. HARVEY

Chief Chemist: 

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## ROYAL OAK ANALYTICAL LABORATORY

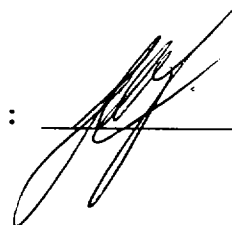
CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-155  
 Date Assayed: 01/02/96  
 Week/Tray: 96JAN01/AF001

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	BLANK	Blank	0.001	35
2	DXR23735		0.001	35
3	DXR23736		0.004	135
4	DXR23737		0.001	35
5	CONTROL	Control	0.097	3330
6	DXR23738		0.001	35
7	DXR23739		0.001	35
8	DXR23740		0.011	375
9	DXR23741		0.005	170
10	DXR23742		0.002	70
11	DXR23743		0.001	35
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

Geologist: P. HARVEY

Chief Chemist: 

Exploration Copy

## ROYAL OAK ANALYTICAL LABORATORY

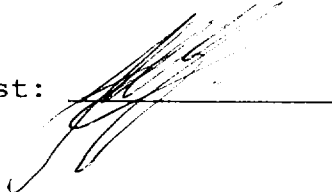
CERTIFICATE OF ANALYSIS

Exploration 5675-1620

Hole Number: RN-95-155  
 Date Assayed: 01/02/96  
 Week/Tray: 95DEC25/AF027

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	DXR23744		0.001	35
2	DXR23745		0.004	135
3	BLANK	Blank	0.001	35
4	DXR23746		0.024	825
5	DXR23747		0.012	410
6	DXR23748		0.003	105
7	DXR23749		0.003	105
8	DXR23750		0.008	275
9	AX30374		0.001	35
10	AX30375		0.006	205
11	AX30376		0.004	135
12	AX30377		0.027	925
13	PM 601	Control	0.306	10490
14	AX30378		0.001	35
15	AX30379		0.012	410
16	AX30380		0.001	35
17	AX30381		0.001	35
18	AX30382		0.001	35
19	AX30383		0.001	35
20	AX30384		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy

## ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-1620

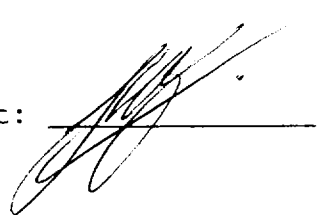
Hole Number: RN-95-155

Date Assayed: 01/05/96

Week/Tray: 96JAN01/AF006

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX30394	Blank	0.001	35
2	BLANK		0.001	35
3	AX30395		0.002	70
4	AX30396		0.001	35
5	AX30397		0.001	35
6	AX30398		0.001	35
7	AX30399		0.001	35
8	AX30400		0.001	35
9	AX30401		0.001	35
10	AX30402		0.001	35
11	AX30403	Control	0.001	35
12	CONTROL		0.097	3330
13	AX30404		0.014	480
14	AX30405		0.016	550
15	AX30406		0.001	35
16	AX30407		0.001	35
17	AX30408		0.001	35
18	AX30409		0.001	35
19	AX30410		0.001	35
20	AX30411		0.001	35
21				
22				
23				
24				

Geologist: P.HARVEY

Chief Chemist: 

Exploration Copy



# Report of Work Conducted After Recording Claim

## Mining Act

Transaction Number  
**W9660.00358**

Personal information collected on this form is obtained under the authority of the Access to Information Act. This collection should be directed to the Provincial Manager, Mining, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



42A10SW0045 W9660-00358 MACKLEM

ns about  
r Street.

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for details.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

900

Recorded Holder(s) <b>ROYAL OAK MINES INC.</b>		Client No. <b>136226</b>
Address <b>P.O. BAG 2010, TIMMINS, ONT. P4N 7X7</b>		Telephone No. <b>360-1141</b>
Mining Division <b>PORCUPINE</b>	Township/Area <b>MACKLEM</b>	M or G Plan No. <b>G-3997</b>
Dates Work Performed From: <b>Oct 17 1995</b>		To: <b>Dec 22 1995</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	<b>Diamond Drilling</b>
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECORDED  
JUN 14 1996

Total Assessment Work Claimed on the Attached Statement of Costs \$ **386,330**

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<b>Randy Maass (Author)</b>	<b>40 Royal Oak Mines Inc. - address above</b>
<b>MacKenzie Drilling Ltd</b>	<b>Box 53, Timmins Ont., P4N 7C5</b>
<b>NDS Drilling</b>	<b>Box 2180, Timmins Ont., P4N 7X8</b>
<b>Courte Diamond Drilling</b>	<b>Box 436, Porcupine Ont., P0W 1C0</b>

(attach a schedule if necessary)

**Certification of Beneficial Interest * See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>June 14 '96</b>	Recorded Holder or Agent (Signature) <b>Peter Harvey</b>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------	-------------------------------------------------------------

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>Peter Harvey 40 Royal Oak Mines Inc. Address above</b>		
Telephone No. <b>360-1141</b>	Date <b>June 14 '96</b>	Certified By (Signature) <b>Peter Harvey</b>

**For Office Use Only**

Total Value Cr. Recorded <b>\$386,330</b>	Date Recorded	Mining Recorder	 JUN 14 1996 PORCUPINE MINING DIVISION
	Deemed Approval Date <b>SEPT. 12/96</b>	Date Approved <b>Sept 12/96</b>	
	Date Notice for Amendments Sent		



Number for Applying Reserve	Claim Number (see Note 2)	of Claim Units	Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	868205	1		1200		
	867800	1		1200		
	868221	1		400		
	868211	1		400		
	868206	1		1200		
	867799	1		1200		
	868222	1		400		
	868210	1		800		
	868207	1		400		
	867798	1		1200		
	868223	1		400		
	868209	1		800		
	868208	1		1200		
	867797	1		1200		
	868224	1		400		
	868220	1		800		
	868215	1		1200		
Total Number of Claims			Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature Peter Harvey	Date June 14 1996
---------------------------------------------------------------------------------------------------------------------------------	---------------------------	----------------------

Number for Applying Reserve	Claim Number (see Note 2)	of Claim Units	Assessment of Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	868214	1		1200		
	868228	1		400		
	868227	1		400		
	868226	1		400		
	868225	1		400		
	868219	1		1200		
	868216	1		1200		
	868213	1		1200		
	868218	1		1200		
	868217	1		1200		
	868212	1		1200		
	790588	1		400		
	790547	1		400		
	995075	1		400		
	995003	1		400		
	995005	1		400		
	995002	1		400		
Total Number of Claims			Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

241 (03/91)  
 pg 3 of 4

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
	Peter Harvey	June 14 '96



Number for Applying Reserve	Claim Number (see Note 2)	of Claim Units	Assessment of Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	790497	1		400		
	849668	1		400		
	849670	1		400		
	995351	1		400		
	1129803	12		14,400		
Total Number of Claims						
			386,330	54,000	54,000	332,330

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
	Peter Harvey	June 14 '96



Statement of Costs  
for Assessment Credit

État des coûts aux fins  
du crédit d'évaluation

Transaction No./N° de transaction  
W9660.00358

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	31,850	
	Field Supervision Supervision sur le terrain		31,850
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Drill Contractors MacKenzie + NDS + Courte	327,533	
	Survey	3,280	
	Assay	18,000	348,813
Supplies Used Fournitures utilisées	Type Coresaw blades	2,150	
	Core storage	3,517	
			5,667
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs		386,330	

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	386,330

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0.50 =

Certification Verifying Statement of Costs

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Project Geologist I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts JUN 14 1996

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature: Peter Harvey Date: June 14 '96

**MAP SYMBOLOLOGY**

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Interprovincial	Double Track
District, Township, Indian Reserve	Abandoned
Approximate	Turntable
Lot, Concession, Township	Road
Part Boundary	Highway County Township
Bridge	Access (road of doubtful importance or significant driveway)
Road, Railroad	Trail, Beach Road (garage strip)
Building	Rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Contours	Reservoir
Intersected	River, Stream, Canal
Approximate	Approximate stream
Depression	Direction of flow
Control Points	Rock outcrop
Horizontal	Roof
Vertical	Spot Elevation (from elevation) 100.0
Culvert	Tower
Falls	Transmission Line
Double line river	Poles
Fence, Hedge, Wall	Tunnel
Feature Outline (Construction features, etc.)	Utility Poles
Flooded Land	Wharf, Dock, Pier
Lock	Wooded Area
Marsh or Swamp	
Mast	
Mine Head Frame	
Outcrop	

**AREAS WITHDRAWN FROM DISPOSITION**

M.R.O. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File No.
EXPLORATORY LICENSE OF OCCUPATION #14920				
ISSUED JULY 06, 1989 ORDER #0-P-5/89-NR				

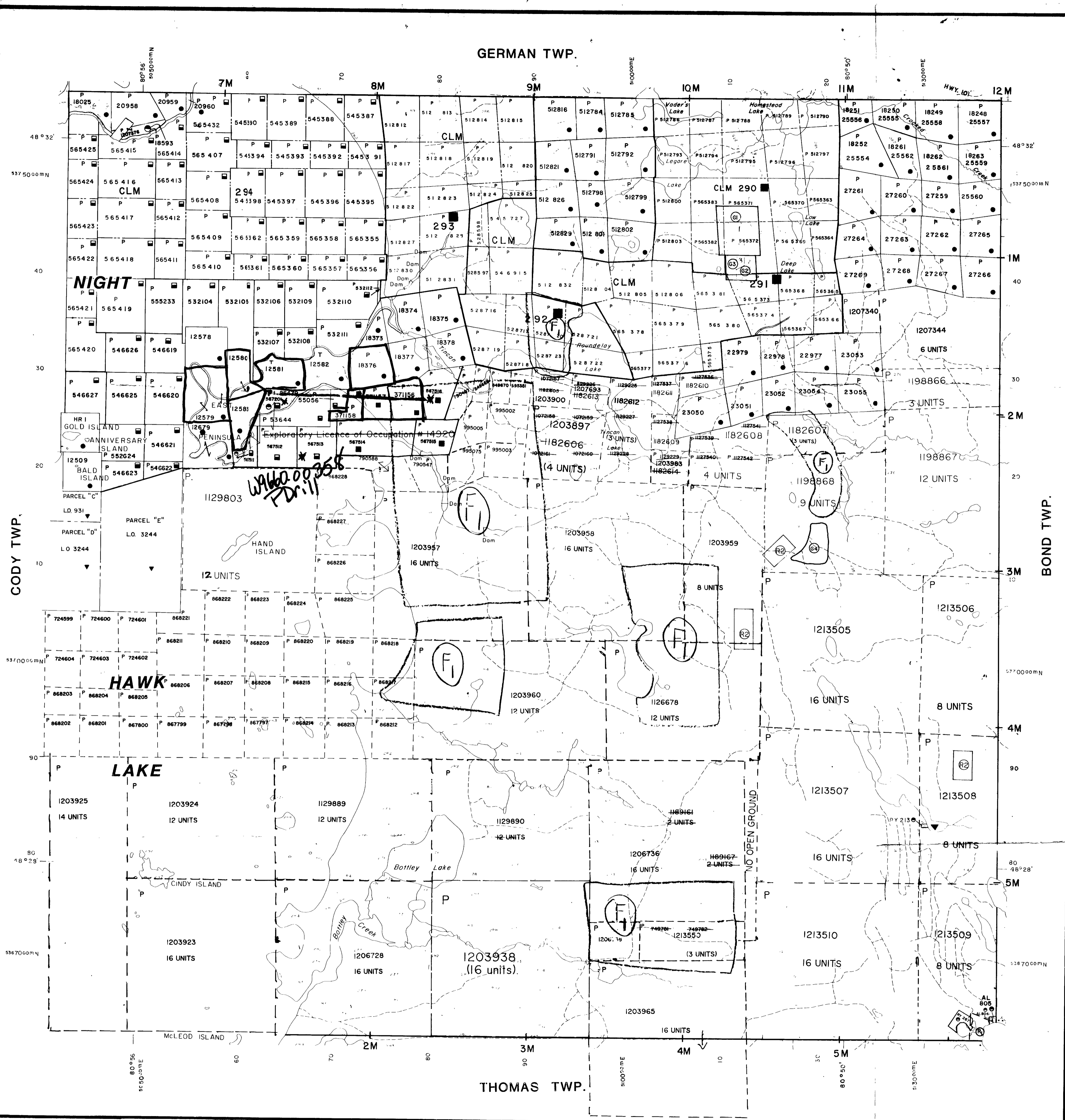
① - SITE PREPARATION 06/02/83, 7704 V.6

② - SURFACE AND MINING RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE BY ORDER NO. W-P-56/93 HER DATED SEPT. 27, 1993 SECTION 35, THE MINING ACT, R.S.O. 1990 (FOREST TEST PLOTS)

③ - THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1994/95 FURTHER INFORMATION AVAILABLE ON FILE.

**SAND AND GRAVEL**

①	AGGREGATE PERMIT - ISSUED AUG.5/88
②	AGGREGATE PERMIT - ISSUED FEB.9/89
③	AGGREGATE PERMIT - ISSUED NOV.21/90
④	AGGREGATE PERMIT - ISSUED SEPT.21/91



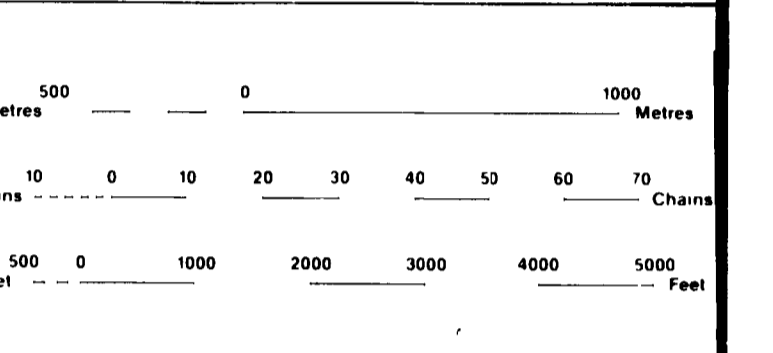
**LEGEND**

Symbol	Description
—	HIGHWAY AND ROUTE No.
—	OTHER ROADS
—	TRAILS
—	SURVEYED LINES
—	TOWNSHIPS, BASE LINES, ETC.
—	LOTS, MINING CLAIMS, PARCELS, ETC.
—	UNSURVEYED LINES
—	LOT LINES
—	PARCEL BOUNDARY
—	MINING CLAIMS ETC.
—	RAILWAY AND RIGHT OF WAY
—	UTILITY LINES
—	NON PERENNIAL STREAM
—	FLOODING OR FLOODING RIGHTS
—	SUBDIVISION OR COMPOSITE PLAN
—	RESERVATIONS
—	ORIGINAL SHORELINE
—	MARSH OR MUSKEG
—	MINES
—	TRAVERSE MONUMENT

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	□
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63 SUBSECTION 1.

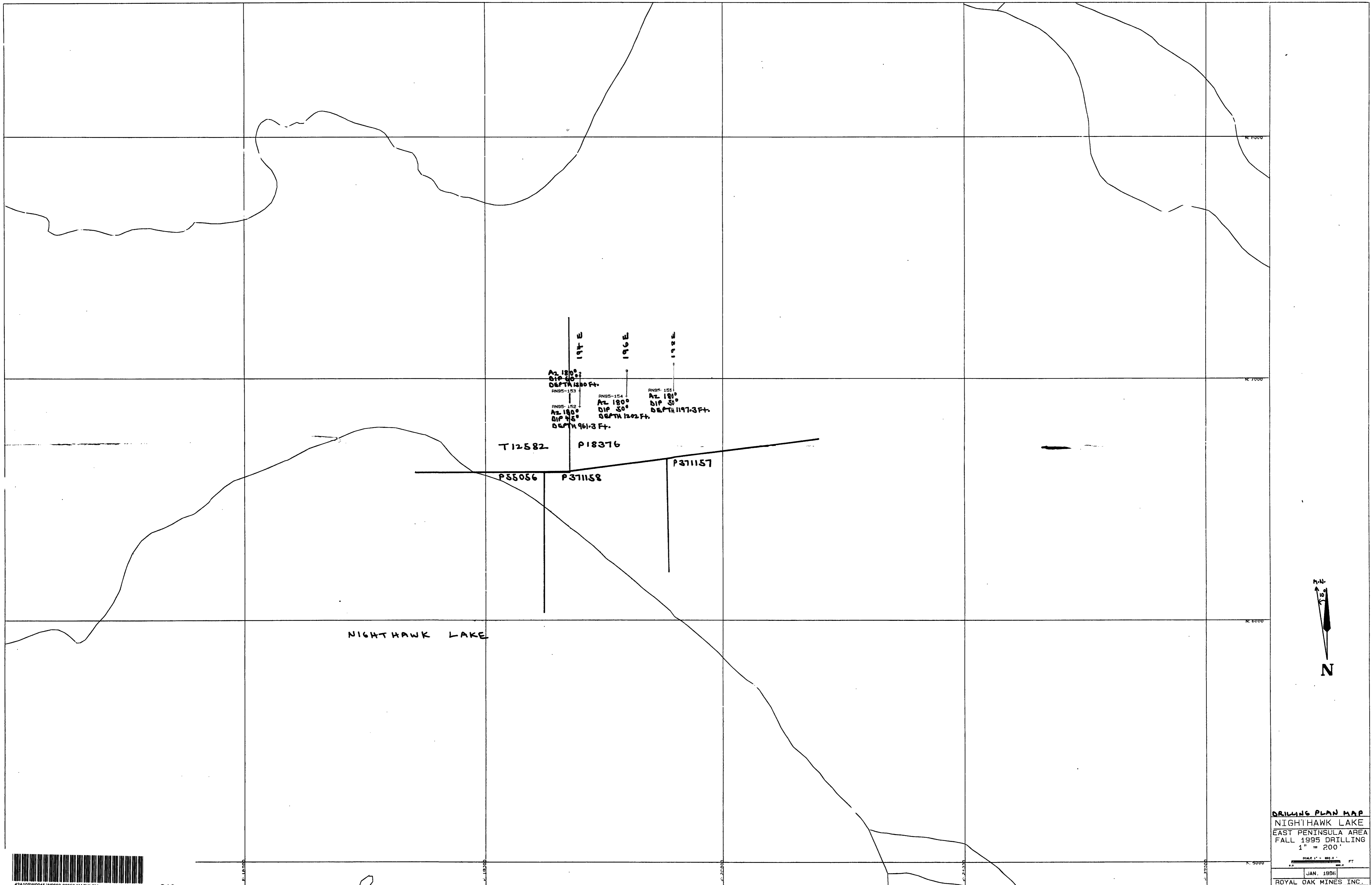


THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TOWNSHIP  
**MACKLEM**  
 M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
 MINING DIVISION  
**PORCUPINE**  
 LAND TITLES / REGISTRY DIVISION  
**COCHRANE**

Ministry of Natural Resources  
 Land Management Branch  
 Ontario

ORIGINAL COMPILED JULY 1984  
 REVISED BY D.C. ACTIVATED APRIL 13/93  
 Number: **G-3997**

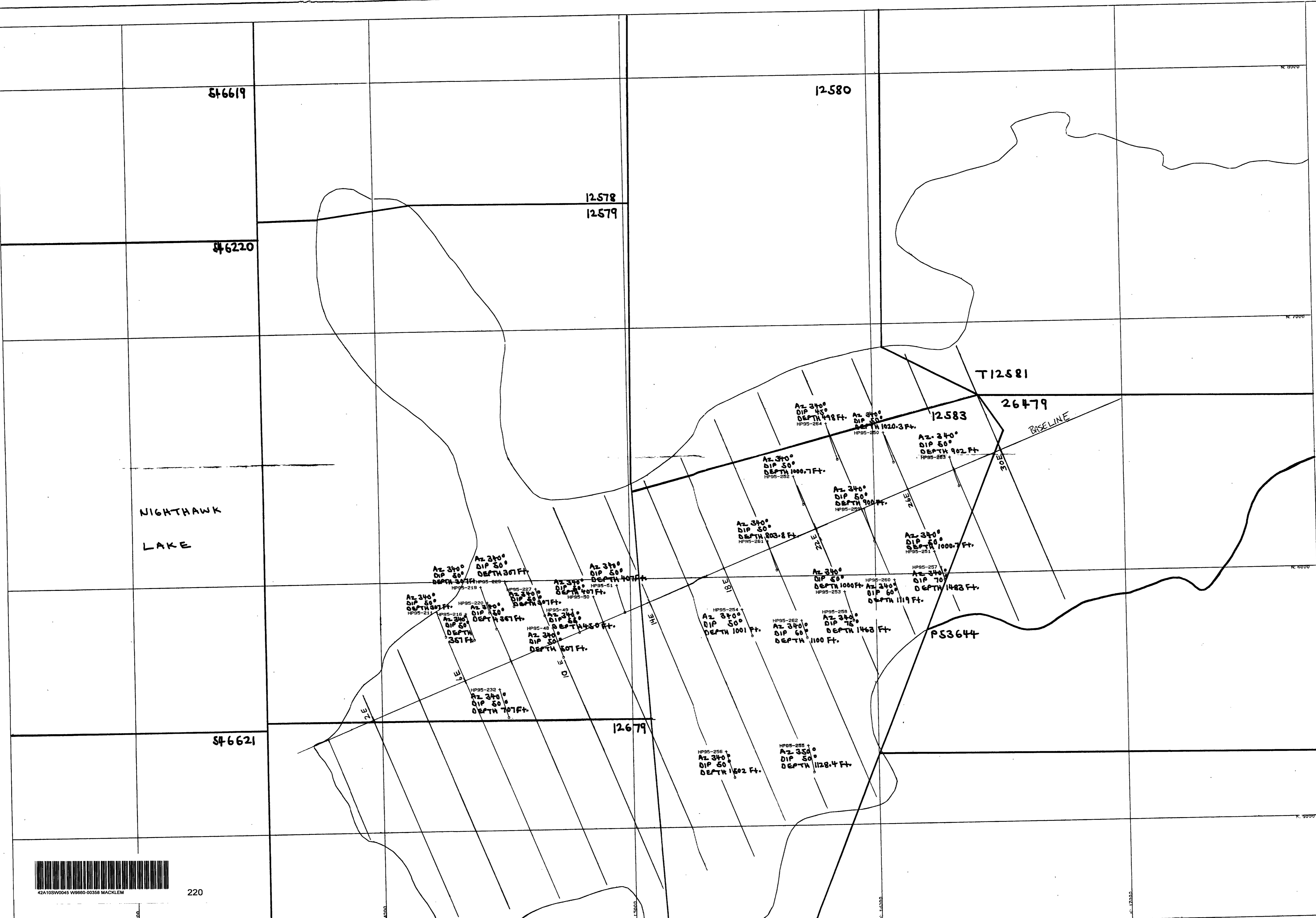


**DRILLING PLAN MAP**  
 NIGHTHAWK LAKE  
 EAST PENINSULA AREA  
 FALL 1995 DRILLING  
 1" = 200'

SCALE 1" = 200.0' FT

JAN. 1996

ROYAL OAK MINES INC.



NIGHTHAWK  
LAKE

T12581

26479

12583

12578  
12579

846619

846220

846621

12679

12580

Az 340°  
DIP 45°  
DEPTH 478 Ft.  
HP95-284

Az 340°  
DIP 50°  
DEPTH 1020.3 Ft.  
HP95-250

Az 340°  
DIP 50°  
DEPTH 902 Ft.  
HP95-283

Az 340°  
DIP 50°  
DEPTH 1000.7 Ft.  
HP95-282

Az 340°  
DIP 50°  
DEPTH 900 Ft.  
HP95-259

Az 340°  
DIP 50°  
DEPTH 803.8 Ft.  
HP95-281

Az 340°  
DIP 50°  
DEPTH 1000.7 Ft.  
HP95-281

Az 340°  
DIP 50°  
DEPTH 1000 Ft.  
HP95-253

Az 340°  
DIP 70°  
DEPTH 1483 Ft.  
HP95-257

Az 340°  
DIP 50°  
DEPTH 1001 Ft.  
HP95-254

Az 340°  
DIP 60°  
DEPTH 1100 Ft.  
HP95-262

Az 340°  
DIP 75°  
DEPTH 1463 Ft.  
HP95-258

P53644

Az 340°  
DIP 50°  
DEPTH 1502 Ft.  
HP95-256

Az 350°  
DIP 50°  
DEPTH 1128.4 Ft.  
HP95-285

Az 340°  
DIP 50°  
DEPTH 307 Ft.  
HP95-219

Az 340°  
DIP 50°  
DEPTH 307 Ft.  
HP95-220

Az 340°  
DIP 50°  
DEPTH 407 Ft.  
HP95-51

Az 340°  
DIP 50°  
DEPTH 357 Ft.  
HP95-218

Az 340°  
DIP 50°  
DEPTH 367 Ft.  
HP95-215

Az 340°  
DIP 50°  
DEPTH 307 Ft.  
HP95-227

Az 340°  
DIP 50°  
DEPTH 457 Ft.  
HP95-49

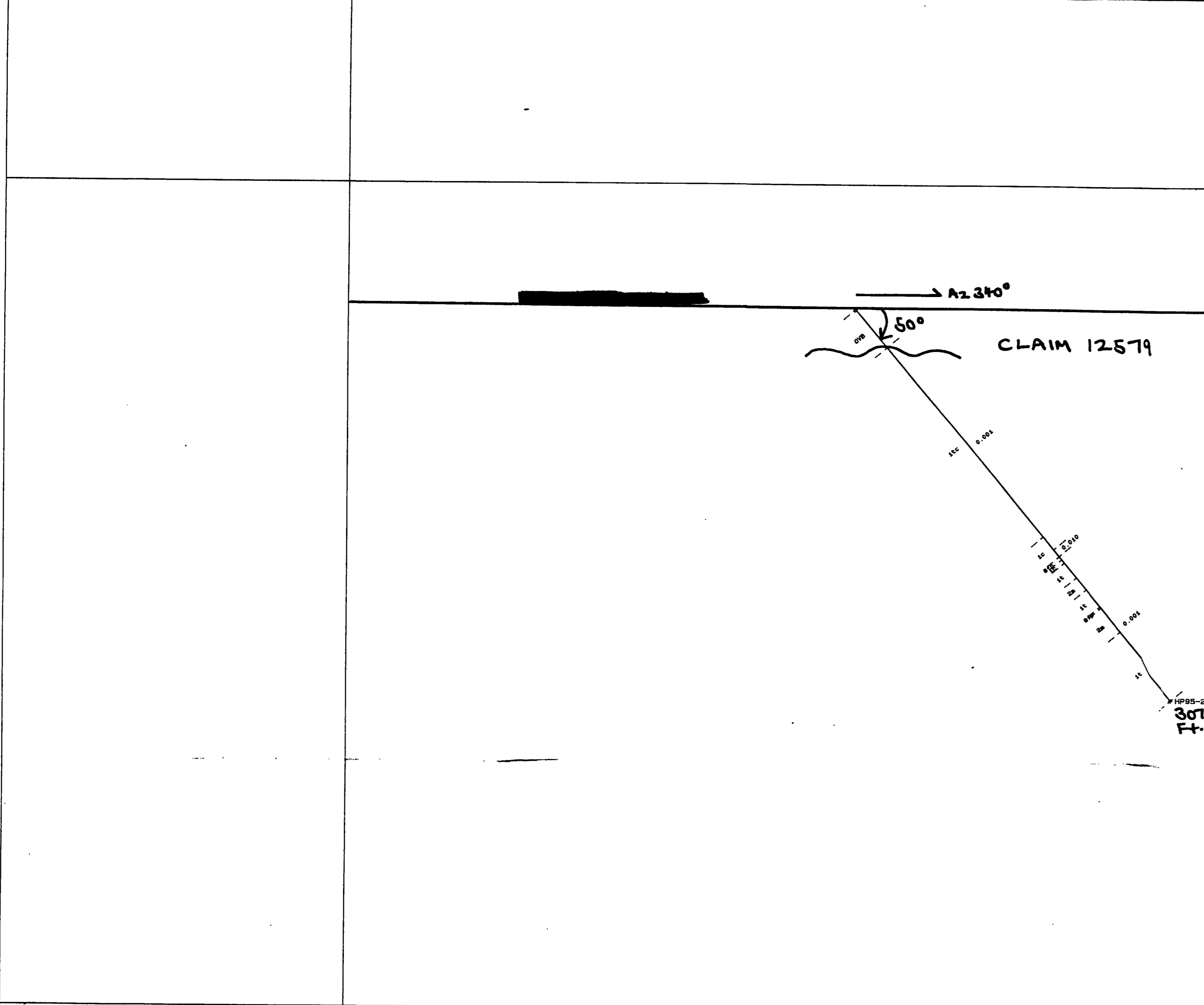
Az 340°  
DIP 50°  
DEPTH 357 Ft.  
HP95-218

Az 340°  
DIP 50°  
DEPTH 307 Ft.  
HP95-48

Az 340°  
DIP 50°  
DEPTH 707 Ft.  
HP95-232



DRILLING PLAN MAP  
NIGHTHAWK LAKE  
EAST PENINSULA AREA  
FALL 1995 DRILLING  
1" = 200'  
SCALE 1" = 200.0 FT  
JAN. 1998  
ROYAL OAK MINES INC.



LEGEND

12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

- 10a Arkose
- 10w Wacke
- 10arg Argillite
- 10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8qp Quartz porphyry
- 8fp Feldspar porphyry
- 8qfp Quartz feldspar porphyry
- 8f Felsite, p (porphyritic), ap (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8hbt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8gd Granodiorite
- 8pg Porphyritic granodiorite
- 8lg Leucocratic granodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8a Aplite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7gg Quartz gabbro
- 7pg Pegmatoidal gabbro
- 7l Lamprophyre
- 7ib Intrusive breccia
- 7n Niobium-type dioritic aillite

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6ph Pyroxene-hornblende
- 6c Carbonized
- 6tm Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Graywacke
- 5sl Slate
- 5p Porphyritic, ap (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5w Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5ag Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5sa Sandstone
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5tp Quartz porphyritic tuff
- 5phyl Phyllite
- 5GFZ Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4df Rhyolite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4da Agglomerate-breccia conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4ap (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4phyl Phyllite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillow
- 3L3T Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonized
- 3am Amphibolized
- 3pb Pillow bre
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillow
- 2a Amygdaloidal
- 2opl Amygdaloidal pillow lava
- 2v Varolitic
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonized
- 2pb Pillow Breccia
- 2h Hydroclastic
- 2ag Agglomerate
- 2am Amphibolized
- 2sch Schistose
- 2sh Shear
- 2F Dominantly Fe-tholeiite
- 2M Dominantly Mg-tholeiite
- 2AL Dominantly AL-tholeiite
- 2I Dominantly Icelandite

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1a Serpentinized, massive, polytextured, peridotitic komatiite
- 1ax Olivine-spinifex textured peridotitic komatiite flows
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillow
- 1c Carbonized peridotitic komatiite
- 1t Talcosa
- 1b Basaltic komatiite
- 1cb Carbonized basaltic komatiite

IRON FORMATION

- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFj Jasper
- IFB Banded iron formation
- IFCh Chlorite-rich
- IFgr Graphitic

SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

OXIDES

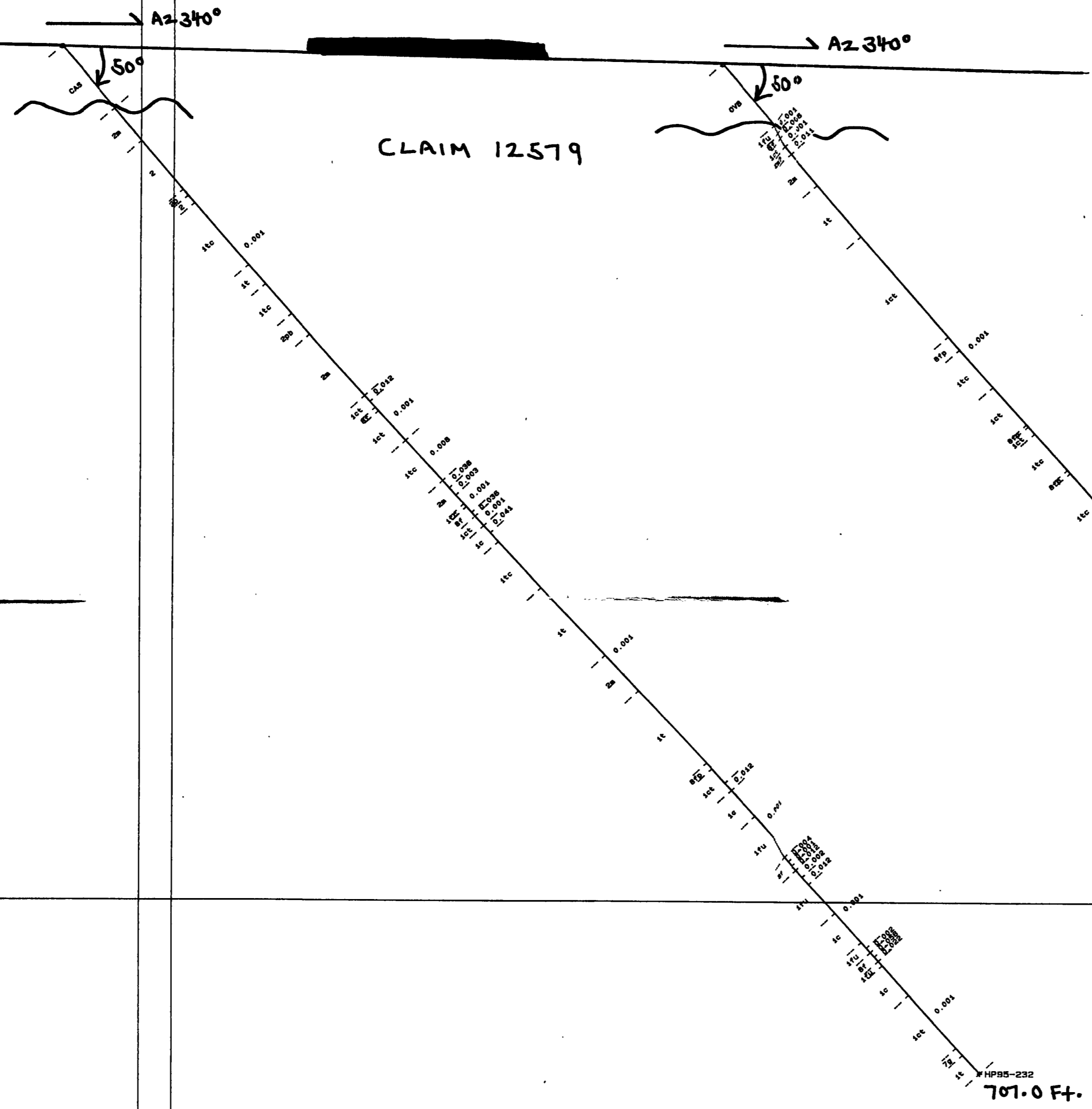
- Mt Magnetite (80-100%)
- QW Quartz orthite veining

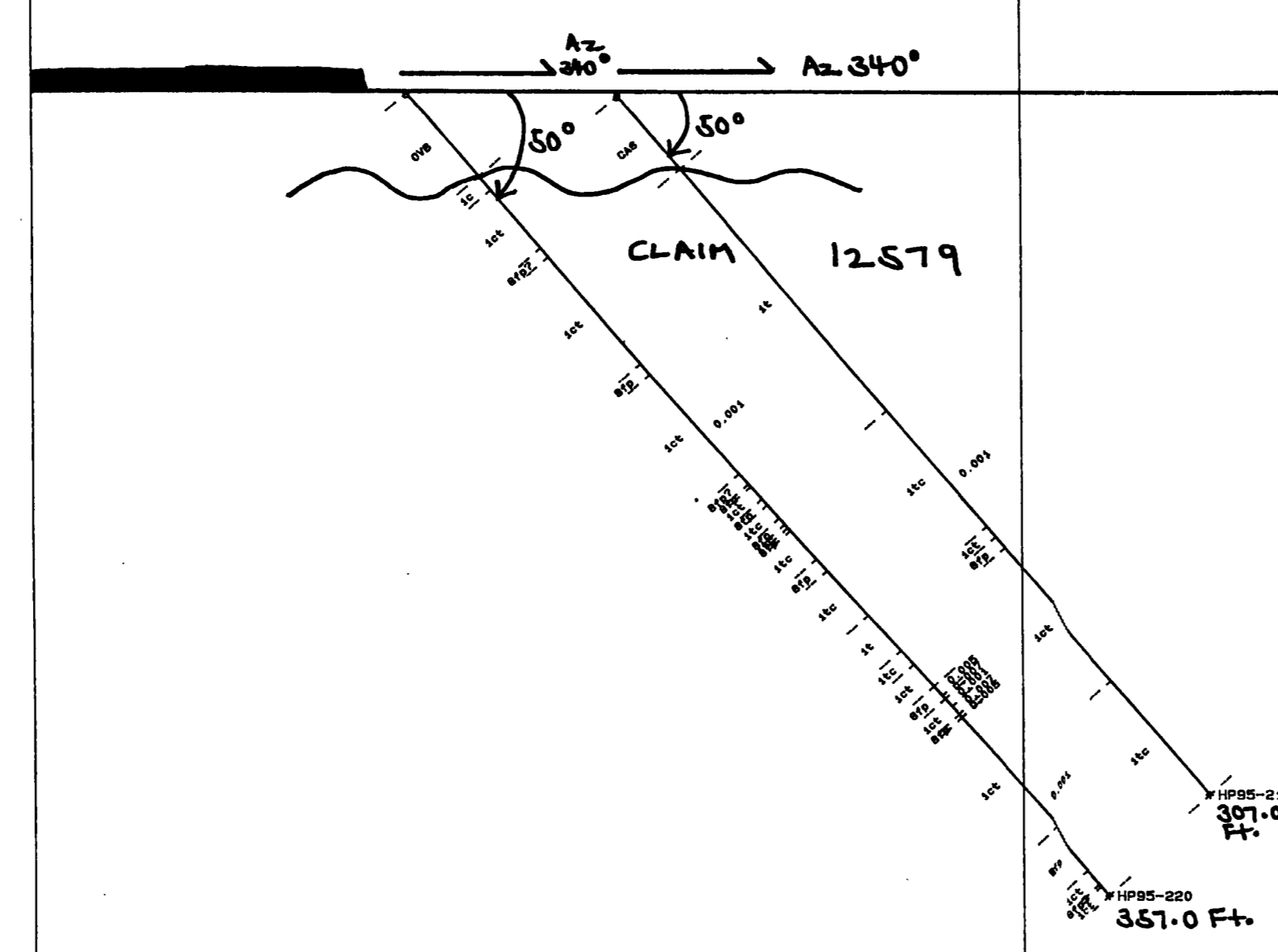


HP 95-211  
 Nighthawk Lake  
 East Peninsula Area  
 Fall 1995 Drilling  
 Section 6E  
 Scale 1" = 50.0'  
 JAN. 96  
 1" = 50'  
 ROYAL OAK MINES INC.

LEGEND

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p><b>12 OLIVINE DIABASE</b></p> <p><b>11 QUARTZ DIABASE</b></p> <p><b>10 HURONIAN SEDIMENTS</b></p> <p>10c Arkose<br/>10w Wacke<br/>10org Argillite<br/>10c Conglomerate</p> <p><b>9 MATACHEWAN DIABASE</b></p> <p><b>8 FELSIC INTRUSIVE ROCKS</b></p> <p>8 Unsubdivided<br/>8sp Quartz porphyry<br/>8fp Feldspar porphyry<br/>8qfp Quartz feldspar porphyry<br/>8f Feltsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)<br/>8hbt Hornblende-biotite trondhjemite<br/>8pm Porphyritic monzonite<br/>8pd Granodiorite<br/>8pg Porphyritic granodiorite<br/>8ig Leucocratic granodiorite<br/>8hd Hornblende diorite<br/>8of Quartz diorite<br/>8p Porphyry<br/>8a Apatite<br/>8s Syenite<br/>8g Granite or quartz-rich syenite<br/>8t Trachyte</p> <p><b>7 MAFIC INTRUSIVE ROCKS</b></p> <p>7 Unsubdivided<br/>7a Anorthosite<br/>7d Diorite<br/>7g Gabbro<br/>7qg Quartz gabbro<br/>7pg Pegmatoidal gabbro<br/>7l Lamprophyre<br/>7ib Intrusive breccia<br/>7n Nipissing-type diabase sills</p> <p><b>6 ULTRAMAFIC INTRUSIVE ROCKS</b></p> <p>6 Unsubdivided<br/>6s Serpentinized diorite-peridotite<br/>6ph Pyroxene-hornblende<br/>6c Carbonized<br/>6tm Talc-magnetite</p> | <p><b>5 SEDIMENTS</b></p> <p>5 Unsubdivided<br/>5a Argillite<br/>5c Conglomerate<br/>5g Greywacke<br/>5ai Siltstone<br/>5p Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)<br/>5d Debris flow<br/>5q Quartzite<br/>5ow Quartz wacke<br/>5gr Graphite<br/>5ch Chert<br/>5ag Agglomerate<br/>5t Tuffaceous-sediment<br/>5s Siltstone<br/>5sa Sandstone<br/>5sch Schist<br/>5sh Shear<br/>5ex Exhalite<br/>5tp Quartz porphyritic tuff<br/>5phy Phyllite<br/>5fz Graphitic Fault Zone</p> <p><b>4 INTERMEDIATE-FELSIC VOLCANICS</b></p> <p>4d Dacite<br/>4rd Rhyodacite flows<br/>4dt Dacite tuffa<br/>4dp Dacite pyroclastics<br/>4do Agglomerate-brassic conglomerate<br/>4dit Dacite lapilli tuff<br/>4dm Dacite massive flow<br/>4p Intermediate-felsic pyroclastics<br/>4r Rhyolite-undifferentiated<br/>4sch Intermediate-felsic schist<br/>4sh Shear<br/>4rm Massive rhyolite<br/>4rt Rhyolite tuff<br/>4rlt Rhyolite lapilli tuff<br/>4ra Rhyolite agglomerate<br/>4p (quartz-eye porphyritic)<br/>4pp (plagioclase-porphyritic)<br/>4phy Phyllite</p> <p><b>3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)</b></p> <p>3 Unsubdivided<br/>3a Andesite<br/>3m Massive<br/>3p Pillowed<br/>3lt Tuff, lapilli-tuff<br/>3b Breccia<br/>3c Carbonized<br/>3am Amphibolitized<br/>3pb Pillow brex<br/>3sh Shear</p> | <p><b>2 THOLEIITIC VOLCANICS</b></p> <p>2 Unsubdivided<br/>2m Massive<br/>2p Pillowed<br/>2a Amygdaloidal<br/>2opi Amygdaloidal pillow lava<br/>2v Variolite<br/>2t Tuff, lapilli-tuff<br/>2b Breccia<br/>2c Carbonatized<br/>2pb Pillow Breccia<br/>2h Hyaloclastite<br/>2ag Agglomerate<br/>2am Amphibolitized<br/>2acf Spherulitic, chicken-feed<br/>2sch Schistose<br/>2sh Shear<br/>2f Dominantly Fe-tholeiite<br/>2d Dominantly Mg-tholeiite<br/>2al Dominantly AL-tholeiite<br/>2l Dominantly Icelandite</p> <p><b>1 KOMATIITIC VOLCANICS</b></p> <p>1 Unsubdivided<br/>1s Serpentinized, massive, polysaturated, peridotitic komatiite<br/>1ox Olivine-spinifex textured peridotitic komatiite flows<br/>1px Pyroxene-spinifex textured basaltic komatiite flows<br/>1mb Massive basaltic komatiite<br/>1m Massive<br/>1p Pillowed<br/>1c Carbonatized peridotitic komatiite<br/>1t Talcosa<br/>1b Basaltic komatiite<br/>1cb Carbonatized basaltic komatiite</p> <p><b>IRON FORMATION</b></p> <p>ifo Oxide<br/>ifs Sulphide (py-po)<br/>ifc Carbonate<br/>ifj Jasper<br/>bif Banded iron formation<br/>fchl Chlorite-rich<br/>ifgr Graphitic</p> <p><b>SULPHIDES</b></p> <p>ds Disseminated sulphides<br/>ss Stringer sulphides<br/>ms Massive sulphides<br/>sms Semi-massive sulphides</p> <p><b>OXIDES</b></p> <p>mt Magnetite (50-100%)<br/>qav Quartz ankerite veining</p> |
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- 12 OLMNE DIABASE
- 11 QUARTZ DIABASE
- 10 HURONIAN SEDIMENTS

- 10a Arkose
- 10w Wacke
- 10org Argillite
- 10c Conglomerate

- 9 MATACHEWAN DIABASE
- 8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8qp Quartz porphyry
- 8fp Feldspar porphyry
- 8qsp Quartz feldspar porphyry
- 8fp (perphyritic), qp (quartz-eye porphyritic)
- 8pp (plagioclase-porphyritic)
- 8hb Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8gd Granodiorite
- 8pgr Porphyritic granodiorite
- 8lg Leucocratic granodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8a Apatite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

- 7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7qp Quartz gabbro
- 7pp Pegmatoidal gabbro
- 7l Lamprophyre
- 7ib Intrusive breccia
- 7n Nipissing-type diabase sills

- 6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6s Serpentinized diorite-peridotite
- 6ph Pyroxene-hornblende
- 6c Carbonatized
- 6tm Talc-magnetite

- 5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Greywacke
- 5sl Slate
- 5p Parphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5qw Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5ag Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5sd Sandstone
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5tsp Quartz porphyritic tuff
- 5phyl Phyllite
- 5fz Graphitic Fault Zone

- 4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4da Agglomerate-breccia conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4p (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4phyl Phyllite

- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillowed
- 3L3t Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonatized
- 3am Pillow brex
- 3sh Shear

- 2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillowed
- 2a Amygdaloidal
- 2apl Amygdaloidal pillow lava
- 2v Volcanite
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2pb Pillow Breccia
- 2h Hyaloclastite
- 2ag Agglomerate
- 2am Amphibolitized
- 2acr Spherulitic, chicken-feed
- 2ach Schistose
- 2sh Shear
- 2F Dominantly Fe-troctite
- 2M Dominantly Mg-tholeiite
- 2AL Dominantly AL-tholeiite
- 2I Dominantly Icelandite

- 1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1s Serpentinized, massive, polysutured, peridotite komatiite
- 1ox Olivine-spinifex textured peridotite komatiite
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillowed
- 1c Carbonatized peridotite komatiite
- 1t Talrose
- 1b Basaltic komatiite
- 1cb Carbonatized basaltic komatiite

- IRON FORMATION

- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFj Jasper
- IFB Banded iron formation
- IFCh Chlorite-rich
- IFGr Graphitic

- SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

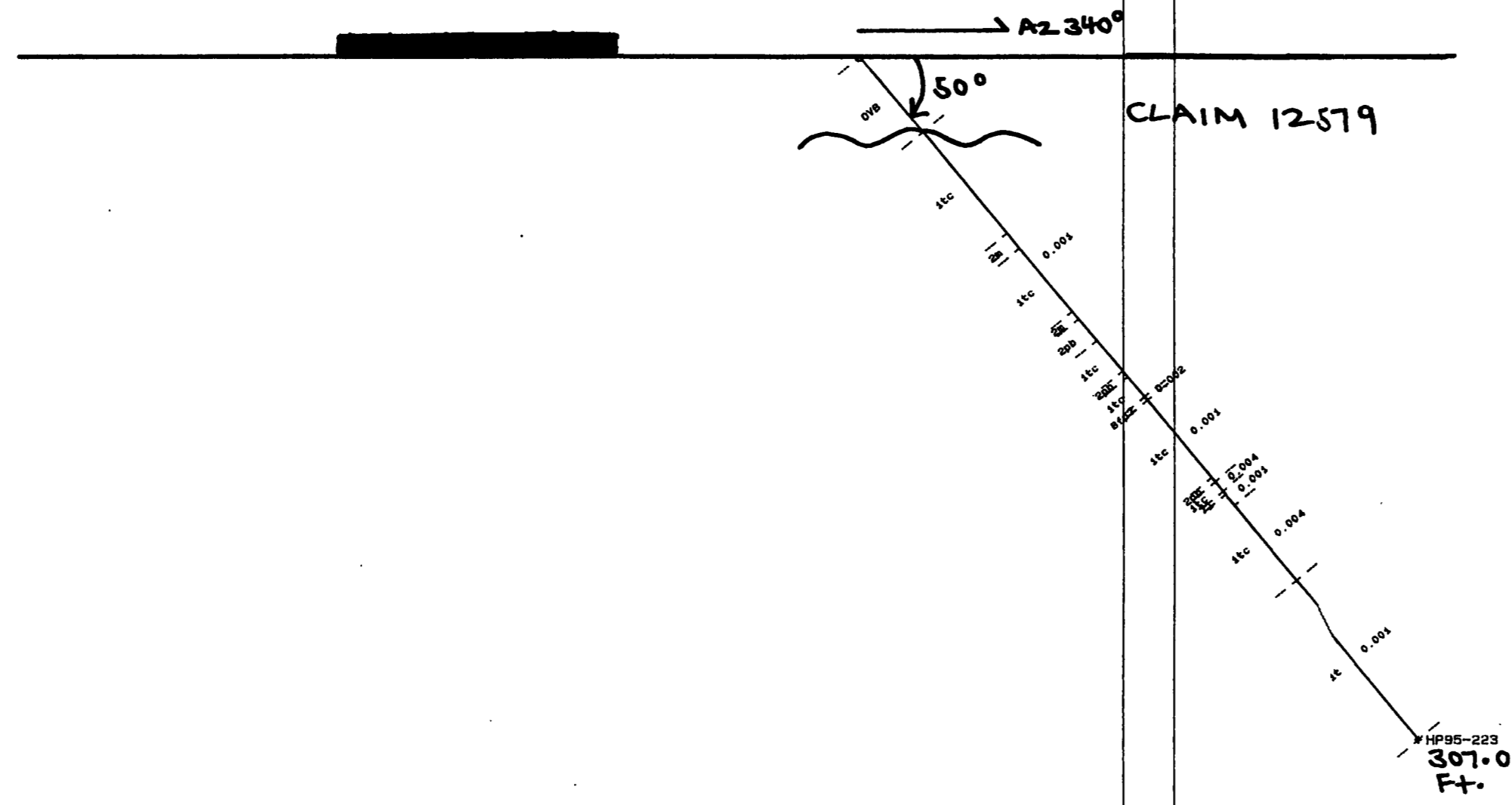
- OXIDES

- MT Magnetite (80-100%)
- QAV Quartz ankerite veining





LEGEND



12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

- 10a Arkose
- 10w Wacke
- 10arg Argillite
- 10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8sp Quartz porphyry
- 8lp Feldspar porphyry
- 8fp Quartz feldspar porphyry
- 8f Feltsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8hbt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8gd Granodiorite
- 8pg Porphyritic granodiorite
- 8lg Leucocratic granodiorite
- 8hd Hornblende diorite
- 8sd Quartz diorite
- 8p Porphyry
- 8a Aplite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7gg Quartz gabbro
- 7pg Pegmatoidal gabbro
- 7l Lamprophyre
- 7b Intrusive breccia
- 7n Nipissing-type diabase sills

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6b Pyroxene-hornblende
- 6c Carbonized
- 6tm Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Greywacke
- 5sl Slate
- 5p Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5cw Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5ag Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5sa Sandstone
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5tap Quartz porphyritic tuff
- 5phy Phyllite
- 5fz Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4da Agglomerate-braccio conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4p (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4phy Phyllite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillowed
- 3L3lt Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonized
- 3am Amphibolized
- 3pb Pillow brx
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillowed
- 2a Amygdaloidal
- 2opl Amygdaloidal pillow lava
- 2v Variolite
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonized
- 2pb Pillow Breccia
- 2h Hyaloclastite
- 2ag Agglomerate
- 2am Amphibolized
- 2acf Spherulitic, chicken-feed
- 2sch Schistose
- 2sh Shear
- 2f Dominantly Fe-tholeiite
- 2d Dominantly Mg-tholeiite
- 2AL Dominantly AL-tholeiite
- 2I Dominantly Icelandite

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1a Serpentinized, massive, polytextured, peridotitic komatiite
- 1ox Olivine-spinifex textured peridotitic komatiite flows
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillowed
- 1c Carbonized peridotitic komatiite
- 1t Talcosa
- 1b Basaltic komatiite
- 1cb Carbonized basaltic komatiite

IRON FORMATION

- IFe Oxide
- IFs Sulphide (py-pe)
- IFc Carbonate
- IFJ Jasper
- IFB Banded iron formation
- IFCh Chert-rich
- IFgr Graphitic

SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

OXIDES

- Mt Magnetite (80-100%)
- QAV Quartz ankerite veining



LEGEND

12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

- 10a Arkose
- 10b Wacke
- 10c Argillite
- 10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8q Quartz porphyry
- 8p Feldspar porphyry
- 8p Quartz feldspar porphyry
- 8f Feltsite, p (porphyritic), qp (quartz-eye porphyritic)
- 8p (plagioclase-porphyritic)
- 8h Hornblende-biotite trondhjemite
- 8hbt Perphyritic monzonite
- 8p Perphyritic monzonite
- 8gd Granodiorite
- 8p Porphyritic granodiorite
- 8p Leucocratic granodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Perphyry
- 8a Aplite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7gq Quartz gabbro
- 7p Pegmatoidal gabbro
- 7l Lamprophyre
- 7b Intrusive breccia
- 7n Nipissing-type diabase sill

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6p Pyroxene-hornblende
- 6c Carbonatized
- 6tm Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Graywacke
- 5ai Siltstone
- 5p Porphyritic, qp (quartz-eye porphyritic)
- 5p (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5qw Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5og Agglomerate
- 5t Turfaceous-sediment
- 5s Siltstone
- 5ss Sandstone
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5lap Quartz porphyritic tuff
- 5phyl Phyllite
- 5GFZ Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastica
- 4da Agglomerate-breccia conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastica
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4ra Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4p (quartz-eye porphyritic)
- 4p (plagioclase-porphyritic)
- 4phyl Phyllite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillowed
- 3lt,3lt Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonatized
- 3cm Amphibolized
- 3pb Pillow bre
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillowed
- 2ap Amygdaloidal pillow lava
- 2v Variolite
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2cb Pillow Breccia
- 2pb Pillow Breccia
- 2h Hydroclastic
- 2ag Agglomerate
- 2am Amphibolized
- 2sc Spherulitic, chicken-feed
- 2sch Schistose
- 2sh Shear
- 2F Dominantly Fe-tholeiite
- 2M Dominantly Mg-tholeiite
- 2AL Dominantly Al-tholeiite
- 2I Dominantly Icaandite

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1a Serpentinized, massive, polysutured, peridotite komatiite
- 1ox Olivine-spinifex textured peridotite komatiite flows
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillowed
- 1c Carbonatized peridotite komatiite
- 1t Talcose
- 1b Basaltic komatiite
- 1cb Carbonatized basaltic komatiite

IRON FORMATION

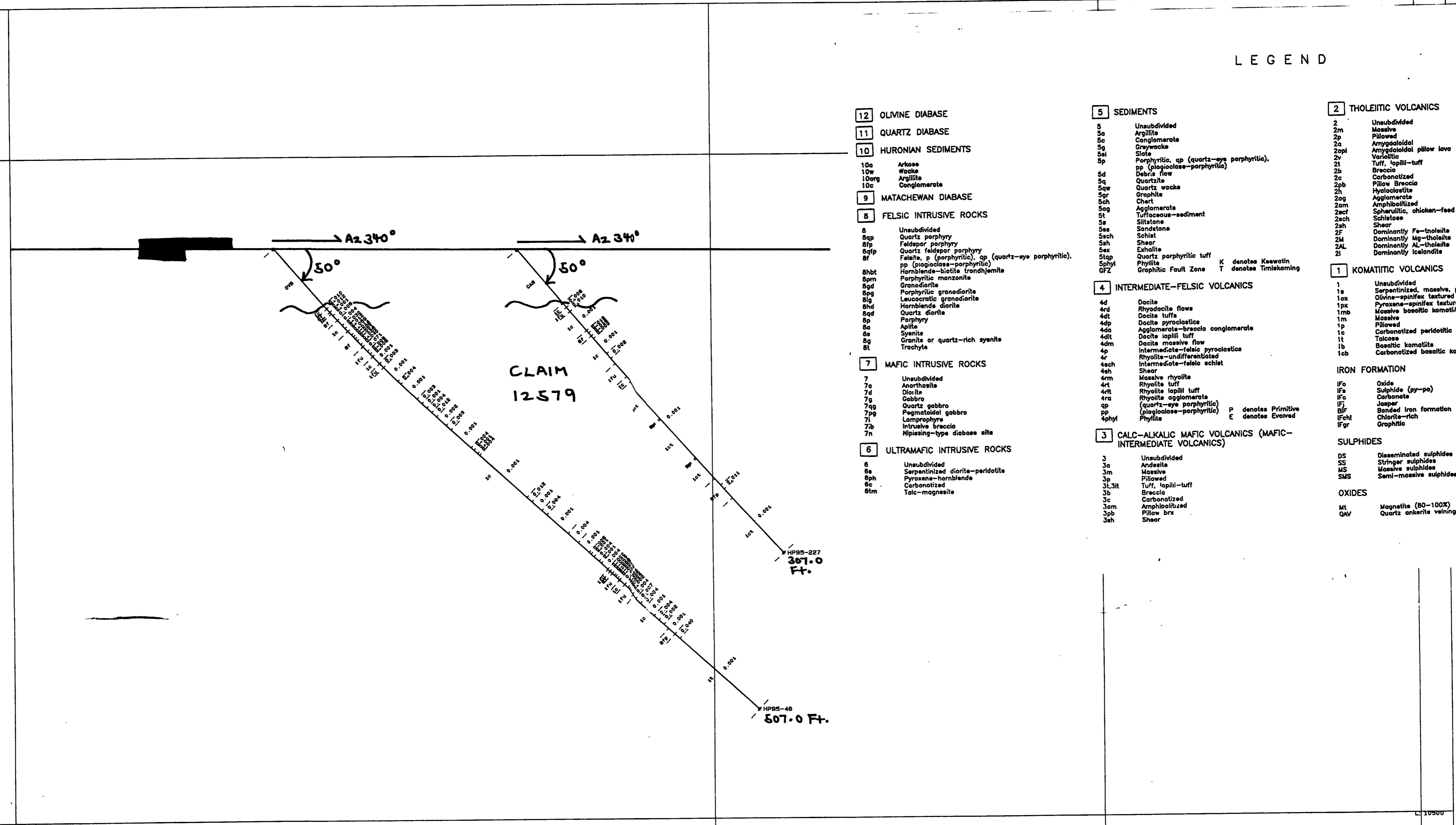
- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFJ Jasper
- IFB Banded iron formation
- IFCh Chlorite-rich
- IFgr Graphitic

SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

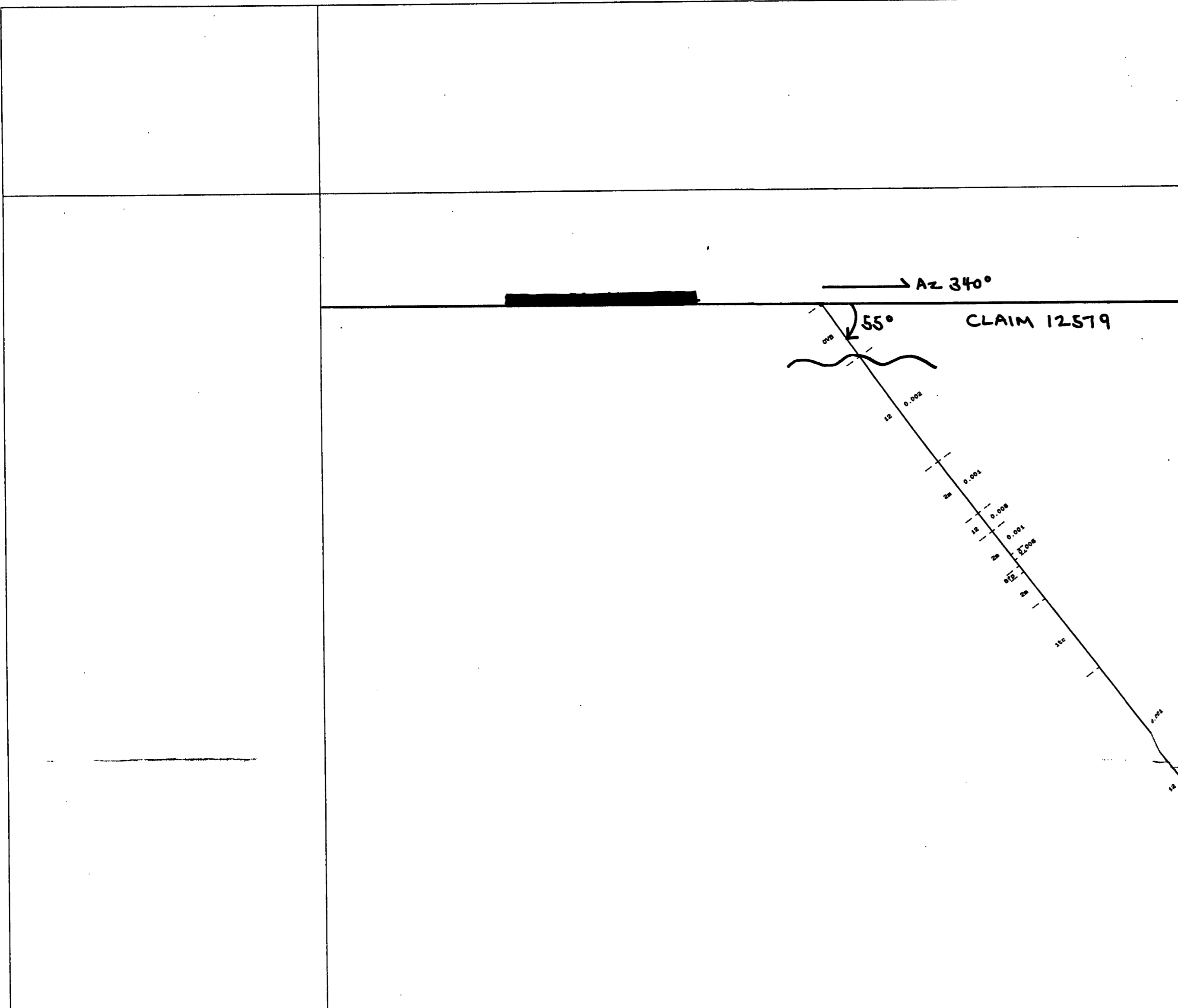
OXIDES

- MT Magnetite (80-100%)
- QAV Quartz arkosite veining



HP 95-227 HP 95-48  
 Nighthawk Lake  
 East Peninsula Area  
 Fall 1995 Drilling  
 Section 10E  
 SCALE 1" = 50.0 FT.  
 JAN. 96 1" = 50'  
 ROYAL OAK MINES INC.





LEGEND

12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

- 10a Arkose
- 10b Wacke
- 10org Argillite
- 10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8qp Quartz porphyry
- 8fp Feldspar porphyry
- 8qfp Quartz feldspar porphyry
- 8f Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8hbt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8gd Granodiorite
- 8pg Porphyritic granodiorite
- 8ig Leucocratic granodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8a Aplite
- 8s Spessite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7gg Quartz gabbro
- 7pg Pegmatoidal gabbro
- 7l Lamprophyre
- 7b Intrusive breccia
- 7n Nipissing-type diabase sills

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6b Pyroxene-hornblende
- 6c Carbonatized
- 6m Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Graywacke
- 5s Siltstone
- 5p Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5w Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5ag Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5sd Sandstone
- 5ss Schist
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5stg Quartz porphyritic tuff
- 5phyl Phyllite
- 5GZ Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4da Agglomerate-breccia conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4p (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4phyl Phyllite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillowed
- 3L3lt Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonatized
- 3am Amphibolitized
- 3pb Pillow brx
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillowed
- 2a Amygdaloidal
- 2opl Amygdaloidal pillow lava
- 2v Variolite
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2pb Pillow Breccia
- 2h Hyaloclastite
- 2ag Agglomerate
- 2am Amphibolitized
- 2acf Spherulitic, chicken-foed
- 2sch Schistose
- 2sh Shear
- 2F Dominantly Fe-tolerant
- 2M Dominantly Mg-tholeiite
- 2AL Dominantly Al-basaltic
- 2I Dominantly Icelandite

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1s Serpentinized, massive, polysaturated, peridotitic komatite
- 1ox Olivine-spinifex textured peridotitic komatite flows
- 1px Pyroxene-spinifex textured basaltic komatite flows
- 1mb Massive basaltic komatite
- 1m Massive
- 1p Pillowed
- 1c Carbonatized peridotitic komatite
- 1t Talcose
- 1b Basaltic komatite
- 1cb Carbonatized basaltic komatite

IRON FORMATION

- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFJ Jasper
- IFB Banded iron formation
- IFCh Chert-rich
- IFg Graphitic

SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

OXIDES

- MT Magnetite (80-100%)
- QAV Quartz ankerite veining



HP 95-49  
 NIGHTHAWK LAKE  
 EAST PENINSULA AREA  
 FALL 1995 DRILLING  
 SECTION 11E  
 SCALE 1" = 50.0'  
 JAN. 96 1" = 50'  
 ROYAL OAK MINES INC.

LEGEND

12 OLIVINE DIABASE

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- 10a Arkose
- 10w Wacke
- 10dg Argillite
- 10c Conglomerate

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8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8qp Quartz porphyry
- 8fp Feldspar porphyry
- 8fqp Quartz feldspar porphyry
- 8f Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8bt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8pd Granodiorite
- 8pg Porphyritic granodiorite
- 8lg Leucocratic granodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8a Apatite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7ga Quartz gabbro
- 7p Pegmatoidal gabbro
- 7l Lamprophyre
- 7b Intrusive braccia
- 7n Niissing-type diabase sills

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6s Serpentinized diorite-peridotite
- 6ph Pyroxene-hornblende
- 6c Carbonatized
- 6tm Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Greywacke
- 5ai Slate
- 5p Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5w Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5ag Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5sa Sandstone
- 5sch Schist
- 5sh Shear
- 5ec Exhalite
- 5tap Quartz porphyritic tuff
- 5ph Phyllite
- 5fz Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4ca Agglomerate-braccia conglomerate
- 4dt Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4p (quartz-eye porphyritic)
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3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillowed
- 3l,3lt Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonatized
- 3am Amphibolitized
- 3pb Pillow brx
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillowed
- 2a Amygdaloidal
- 2api Amygdaloidal pillow lava
- 2v Ventralite
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2cb Pillow Breccia
- 2h Hyaloclastite
- 2ag Agglomerate
- 2am Amphibolitized
- 2acf Spherulitic, chicken-feed
- 2sch Schistose
- 2sh Shear
- 2f Dominantly Fe-tholeiite
- 2m Dominantly Mg-tholeiite
- 2al Dominantly AL-tholeiite
- 2l Dominantly basaltic

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1a Serpentinized, massive, polytextured, peridotitic komatite
- 1px Olivine-spinifex textured peridotitic komatitic flows
- 1px Pyroxene-spinifex textured basaltic komatitic flows
- 1mb Massive basaltic komatite
- 1m Massive
- 1p Pillowed
- 1c Carbonatized peridotitic komatite
- 1t Talcosa
- 1b Basaltic komatite
- 1cb Carbonatized basaltic komatite

IRON FORMATION

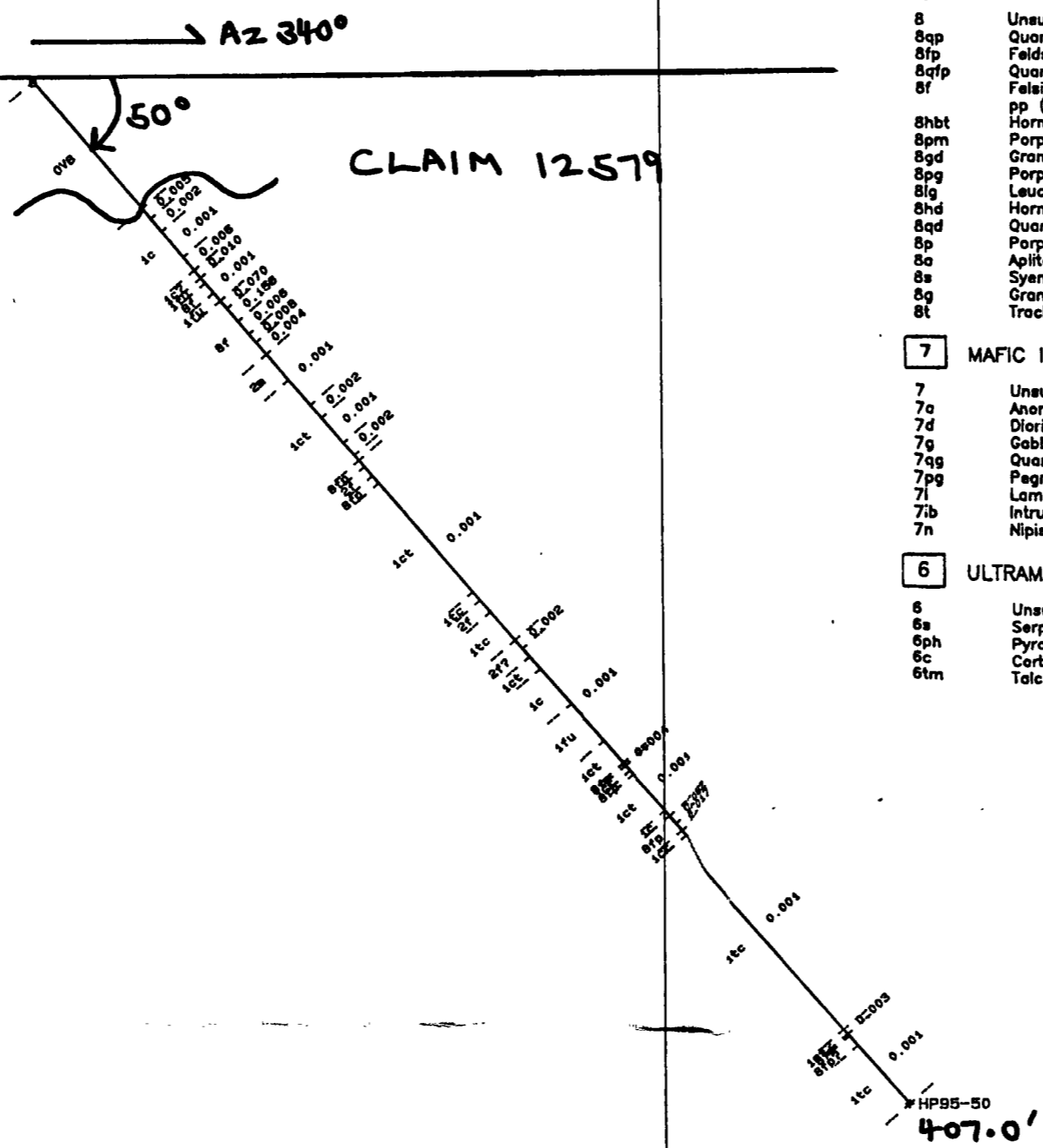
- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFj Jasper
- IFB Banded iron formation
- IFch Chert-rich
- IFgr Graphitic

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- DS Disseminated sulphides
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- MS Massive sulphides
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- 7a Anorthosite
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6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6s Serpentinized diorite-peridotite
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- 5 Unsubdivided
- 5a Argillite
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- 3pb Pillow bre
- 3sh Shear

2 THOLEIITIC VOLCANICS

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- 2m Massive
- 2p Pillow
- 2a Amygdaloidal
- 2ap Amygdaloidal pillow lava
- 2v Volcanitic
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2pb Pillow Breccia
- 2h Hydroclastic
- 2ag Agglomerate
- 2am Amphibolized
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- 1m Massive
- 1p Pillow
- 1c Carbonatized peridotitic komatiite
- 1t Talcose
- 1b Basaltic komatiite
- 1cb Carbonatized basaltic komatiite

IRON FORMATION

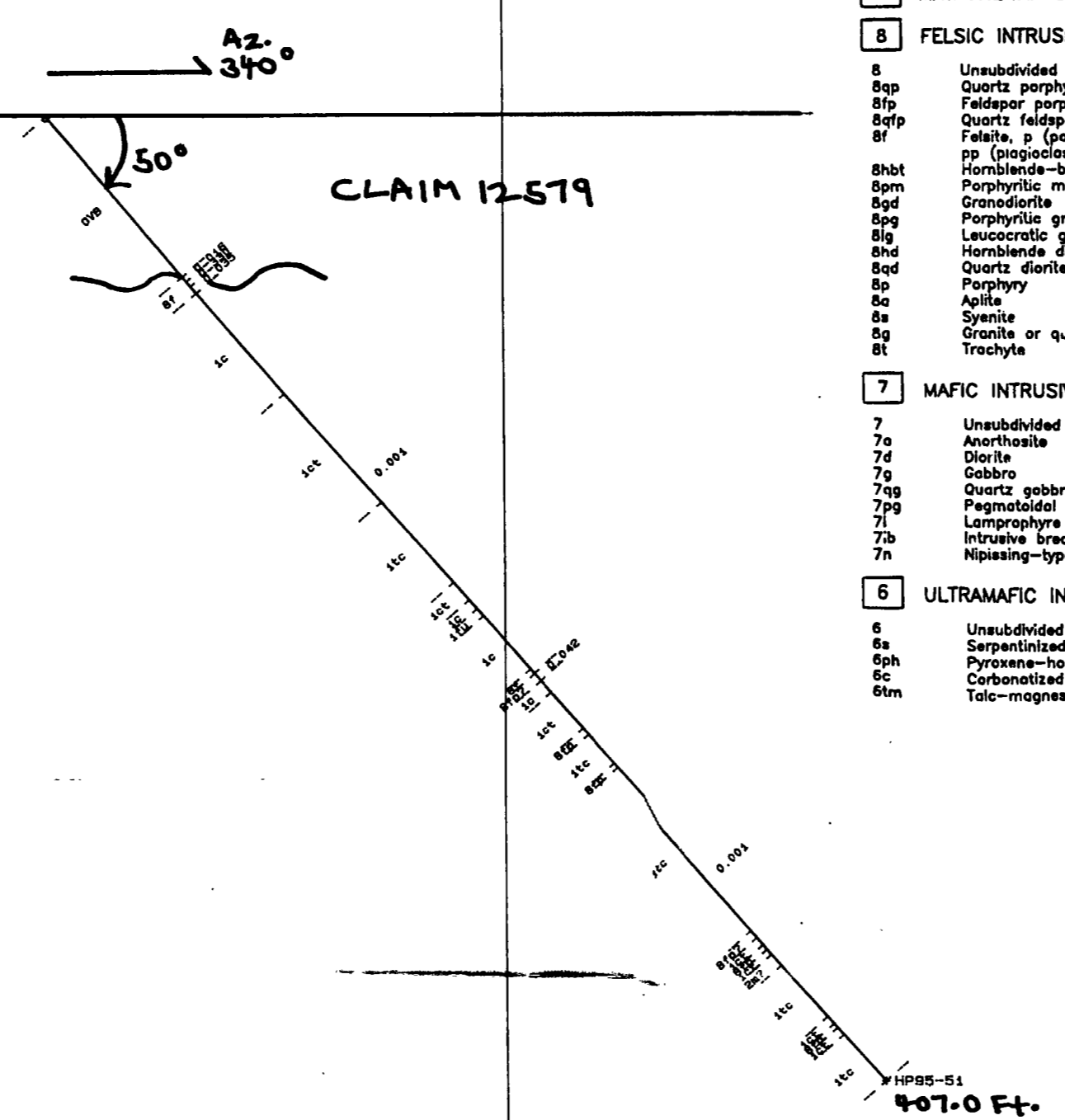
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7 MAFIC INTRUSIVE ROCKS

6 ULTRAMAFIC INTRUSIVE ROCKS

5 SEDIMENTS

4 INTERMEDIATE-FELSIC VOLCANICS

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

2 THOLEIITIC VOLCANICS

1 KOMATIITIC VOLCANICS

IRON FORMATION

SULPHIDES

OXIDES

Other symbols and codes

Other symbols and codes

Other symbols and codes

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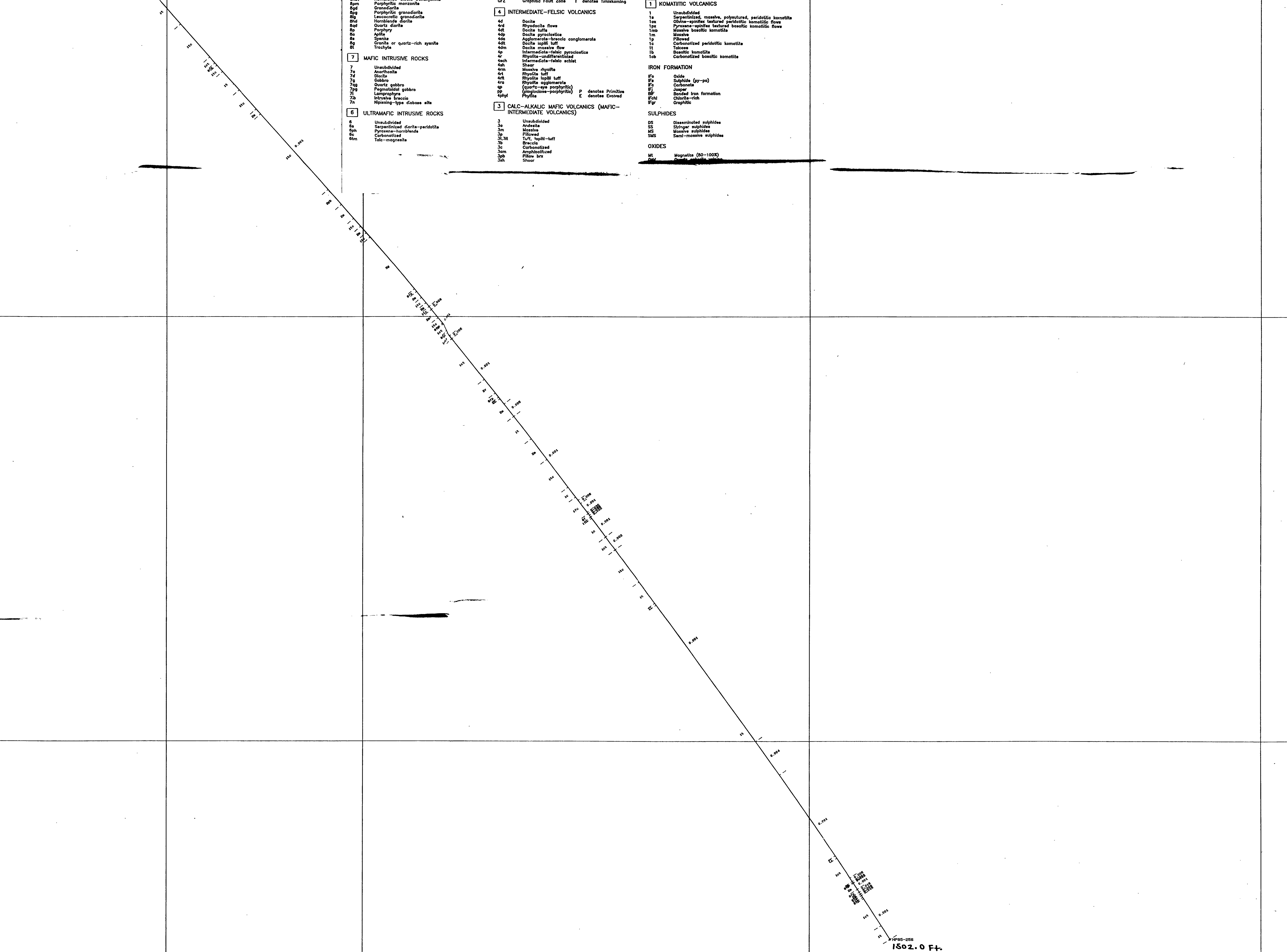
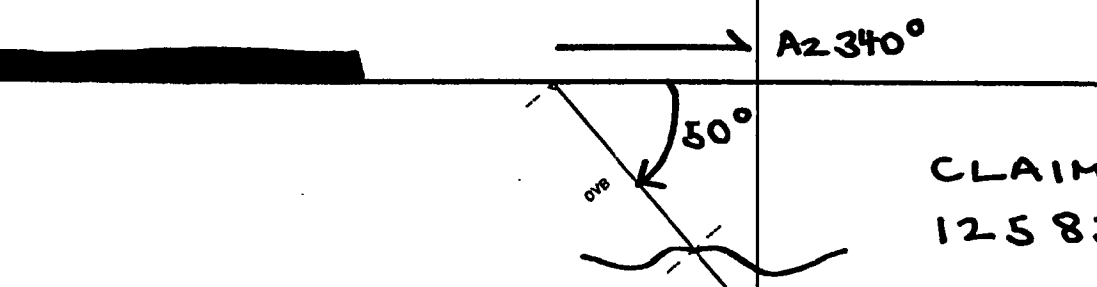
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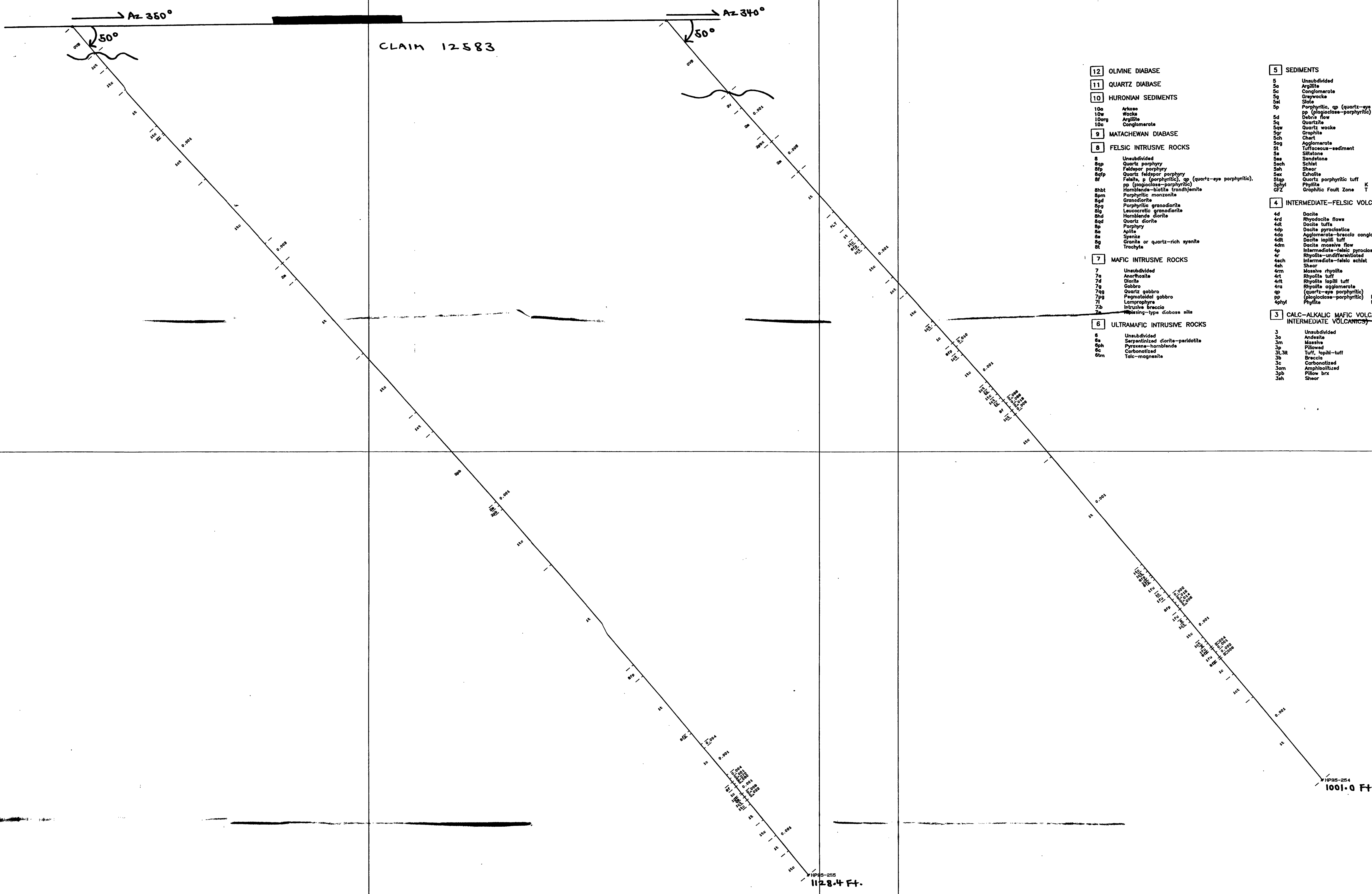
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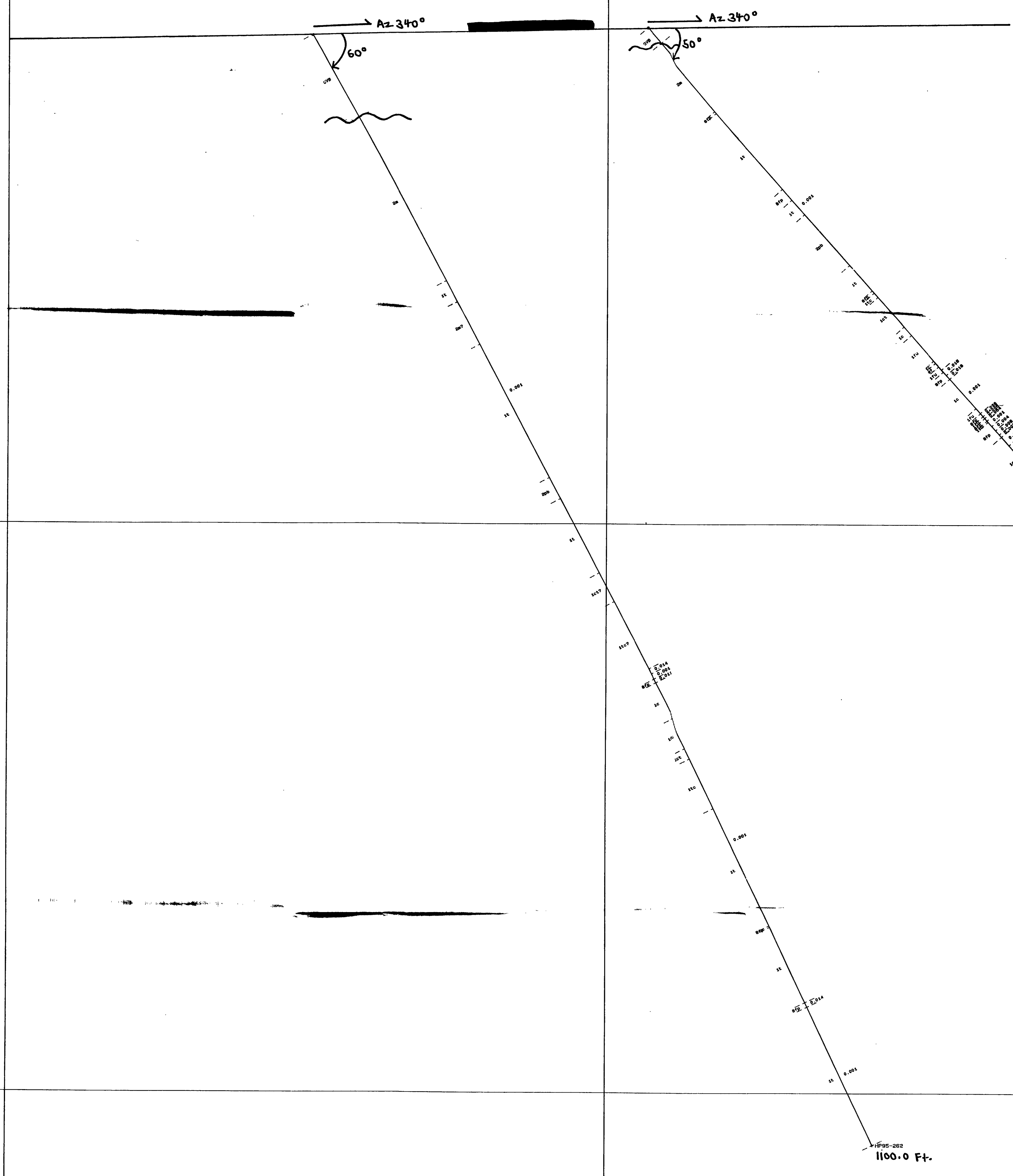
CLAIM 12583

LEGEND

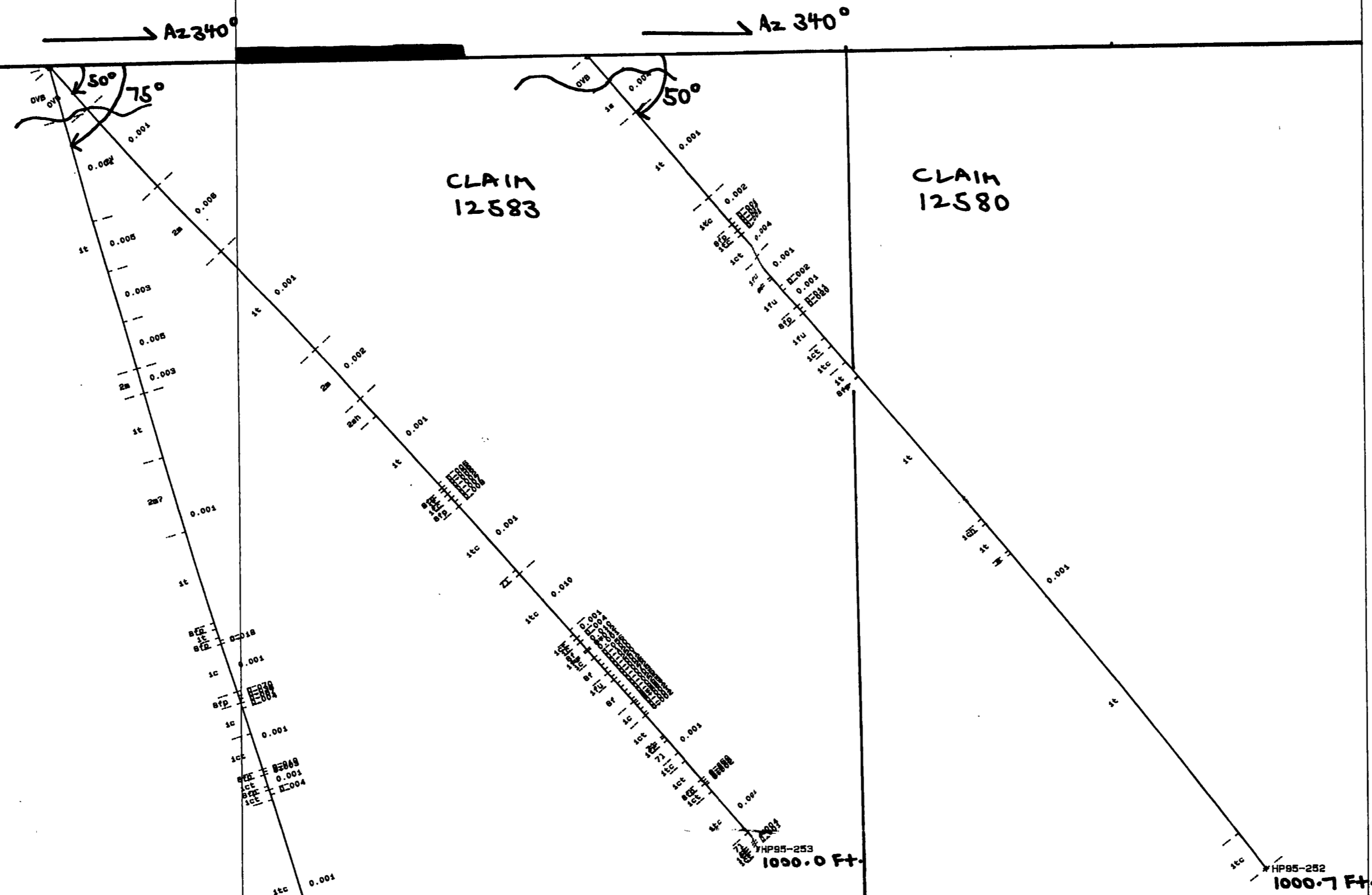
- 12 OLIVINE DIABASE**
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- 10 HURONIAN SEDIMENTS**
- 9 MATACHEWAN DIABASE**
- 8 FELSIC INTRUSIVE ROCKS**
- 7 MAFIC INTRUSIVE ROCKS**
- 6 ULTRAMAFIC INTRUSIVE ROCKS**
- 5 SEDIMENTS**
- 4 INTERMEDIATE-FELSIC VOLCANICS**
- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)**
- 2 THOLEIITIC VOLCANICS**
- 1 KOMATIITIC VOLCANICS**

LEGEND

- 12 OLIVINE DIABASE
- 11 QUARTZ DIABASE
- 10 HURONIAN SEDIMENTS
  - 10a Arkose
  - 10b Arkose
  - 10c Arkose
  - 10d Arkose
  - 10e Arkose
  - 10f Arkose
  - 10g Arkose
  - 10h Arkose
  - 10i Arkose
  - 10j Arkose
  - 10k Arkose
  - 10l Arkose
  - 10m Arkose
  - 10n Arkose
  - 10o Arkose
  - 10p Arkose
  - 10q Arkose
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  - 10t Arkose
  - 10u Arkose
  - 10v Arkose
  - 10w Arkose
  - 10x Arkose
  - 10y Arkose
  - 10z Arkose
- 9 MACHEWAN DIABASE
- 8 FELSIC INTRUSIVE ROCKS
  - 8a Unsubdivided
  - 8b Unsubdivided
  - 8c Unsubdivided
  - 8d Unsubdivided
  - 8e Unsubdivided
  - 8f Unsubdivided
  - 8g Unsubdivided
  - 8h Unsubdivided
  - 8i Unsubdivided
  - 8j Unsubdivided
  - 8k Unsubdivided
  - 8l Unsubdivided
  - 8m Unsubdivided
  - 8n Unsubdivided
  - 8o Unsubdivided
  - 8p Unsubdivided
  - 8q Unsubdivided
  - 8r Unsubdivided
  - 8s Unsubdivided
  - 8t Unsubdivided
  - 8u Unsubdivided
  - 8v Unsubdivided
  - 8w Unsubdivided
  - 8x Unsubdivided
  - 8y Unsubdivided
  - 8z Unsubdivided
- 7 MAFIC INTRUSIVE ROCKS
  - 7a Unsubdivided
  - 7b Unsubdivided
  - 7c Unsubdivided
  - 7d Unsubdivided
  - 7e Unsubdivided
  - 7f Unsubdivided
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  - 7v Unsubdivided
  - 7w Unsubdivided
  - 7x Unsubdivided
  - 7y Unsubdivided
  - 7z Unsubdivided
- 6 ULTRAMAFIC INTRUSIVE ROCKS
  - 6a Unsubdivided
  - 6b Unsubdivided
  - 6c Unsubdivided
  - 6d Unsubdivided
  - 6e Unsubdivided
  - 6f Unsubdivided
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- 5 SEDIMENTS
  - 5a Unsubdivided
  - 5b Unsubdivided
  - 5c Unsubdivided
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  - 5f Unsubdivided
  - 5g Unsubdivided
  - 5h Unsubdivided
  - 5i Unsubdivided
  - 5j Unsubdivided
  - 5k Unsubdivided
  - 5l Unsubdivided
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  - 5w Unsubdivided
  - 5x Unsubdivided
  - 5y Unsubdivided
  - 5z Unsubdivided
- 4 INTERMEDIATE-FELSIC VOLCANICS
  - 4a Unsubdivided
  - 4b Unsubdivided
  - 4c Unsubdivided
  - 4d Unsubdivided
  - 4e Unsubdivided
  - 4f Unsubdivided
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  - 3a Unsubdivided
  - 3b Unsubdivided
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  - 3d Unsubdivided
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  - 2j Unsubdivided
  - 2k Unsubdivided
  - 2l Unsubdivided
  - 2m Unsubdivided
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  - 2o Unsubdivided
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  - 2x Unsubdivided
  - 2y Unsubdivided
  - 2z Unsubdivided
- 1 KOMATIITIC VOLCANICS
  - 1a Unsubdivided
  - 1b Unsubdivided
  - 1c Unsubdivided
  - 1d Unsubdivided
  - 1e Unsubdivided
  - 1f Unsubdivided
  - 1g Unsubdivided
  - 1h Unsubdivided
  - 1i Unsubdivided
  - 1j Unsubdivided
  - 1k Unsubdivided
  - 1l Unsubdivided
  - 1m Unsubdivided
  - 1n Unsubdivided
  - 1o Unsubdivided
  - 1p Unsubdivided
  - 1q Unsubdivided
  - 1r Unsubdivided
  - 1s Unsubdivided
  - 1t Unsubdivided
  - 1u Unsubdivided
  - 1v Unsubdivided
  - 1w Unsubdivided
  - 1x Unsubdivided
  - 1y Unsubdivided
  - 1z Unsubdivided







LEGEND

- 12 OLIVINE DIABASE
- 11 QUARTZ DIABASE
- 10 HURONIAN SEDIMENTS

- 10a Arkose
- 10w Wacke
- 10arg Argillite
- 10c Conglomerate

- 9 MATACHEWAN DIABASE
- 8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8ep Quartz porphyry
- 8fp Feldspar porphyry
- 8qfp Quartz feldspar porphyry
- 8f Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8hbt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8pd Granodiorite
- 8pg Porphyritic granodiorite
- 8lg Leucocratic granodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8a Andite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

- 7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7q Quartz gabbro
- 7pg Pegmatoidal gabbro
- 7l Lamprophyre
- 7b Intrusive breccia
- 7n Nipissing-type diabase sill

- 6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6sh Pyroxene-hornblende
- 6c Carbonatized
- 6tn Talc-magnetite

- 5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Graywacke
- 5al Siltite
- 5p Porphyritic, ap (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5qw Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5og Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5ss Sandstone
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5qp Quartz porphyritic tuff
- 5ph Phyllite
- 5pzt Graphitic Fault Zone
- 5fz Graphitic Fault Zone

- 4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuff
- 4dp Dacite pyroclastics
- 4da Agglomerate-braccia conglomerate
- 4dti Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rtt Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4rp (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4pht Phyllite

- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillow
- 3p-3h Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonatized
- 3am Amphibolized
- 3pb Pillow breccia
- 3sh Shear

- 2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillow
- 2a Amygdaloidal
- 2opl Amygdaloidal pillow lava
- 2v Volcanic
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2pb Pillow Breccia
- 2h Hyaloclastite
- 2ag Agglomerate
- 2am Amphibolized
- 2sf Spherulitic, oholken-feed
- 2sch Schistose
- 2sh Shear
- 2f Dominantly Fe-tholeiite
- 2M Dominantly Mg-tholeiite
- 2AL Dominantly Al-tholeiite
- 2I Dominantly Icelandite

- 1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1a Serpentinized, massive, polysaturated, peridotitic komatiite
- 1ox Olivine-spinifex textured peridotitic komatiite flows
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillow
- 1c Carbonatized peridotitic komatiite
- 1t Talcose
- 1b Basaltic komatiite
- 1cb Carbonatized basaltic komatiite

- IRON FORMATION

- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFB Jasper
- IFP Banded iron formation
- IFh Chlorite-rich
- IFgr Graphitic

- SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

- OXIDES

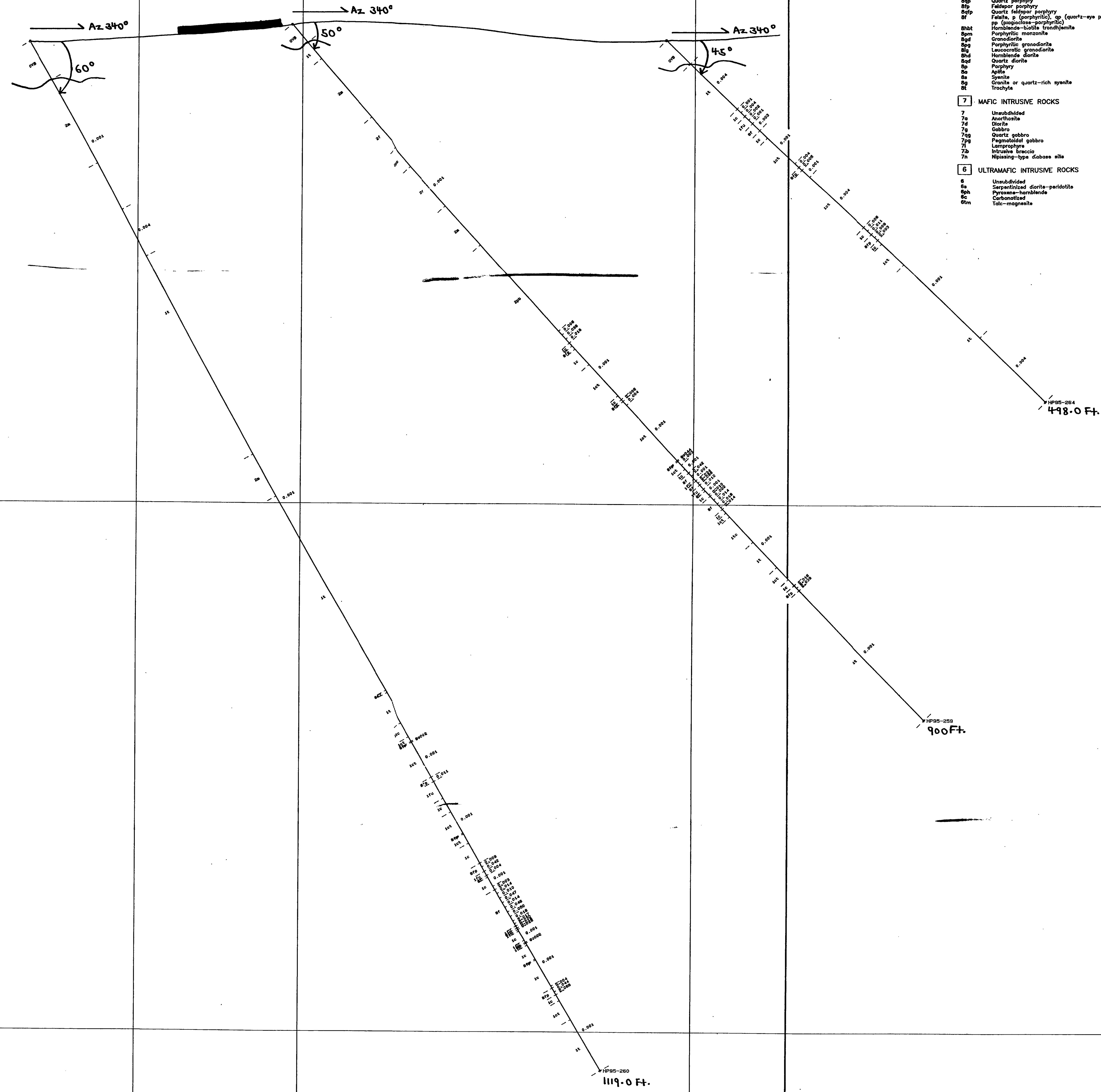
- Mt Magnetite (80-100%)
- QAV Quartz ankerite veining



HP 95-252, 253, 258  
 NIGHTHAWK LAKE  
 EAST PENINSULA AREA  
 FALL 1995 DRILLING  
 SECTION 22E  
 SCALE 1" = 100' FT  
 JAN. 96  
 1" = 100'  
 ROYAL OAK MINES INC.

LEGEND

- 12 OLIVINE DIABASE**
- 11 QUARTZ DIABASE**
- 10 HURONIAN SEDIMENTS**
- 9 MATACHEWAN DIABASE**
- 8 FELSIC INTRUSIVE ROCKS**
- 7 MAFIC INTRUSIVE ROCKS**
- 6 ULTRAMAFIC INTRUSIVE ROCKS**
- 5 SEDIMENTS**
- 4 INTERMEDIATE-FELSIC VOLCANICS**
- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)**
- 2 THOLEIITIC VOLCANICS**
- 1 KOMATIITIC VOLCANICS**



Az 340°

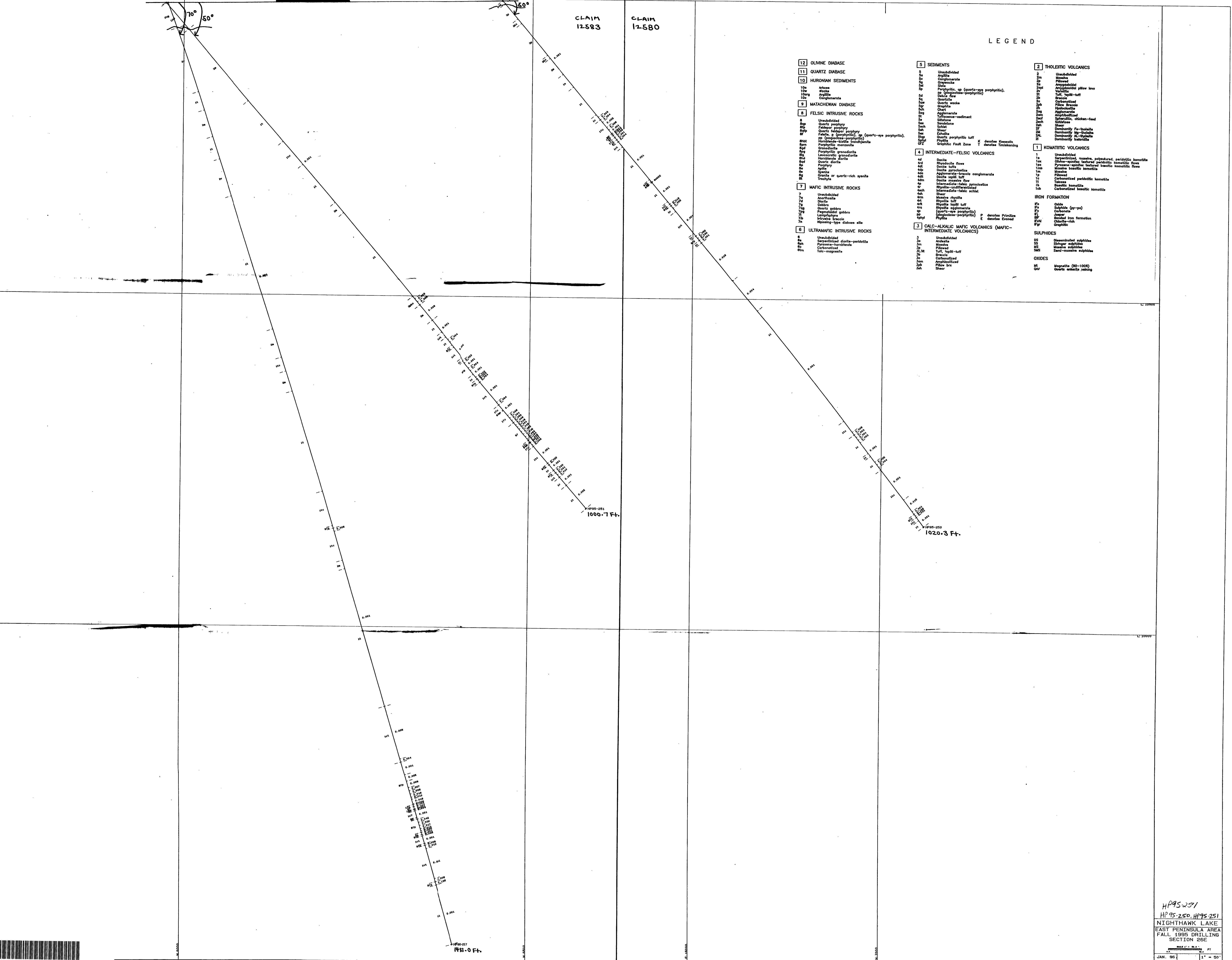
Az 340°

CLAIM 12583

CLAIM 12580

LEGEND

- 12 OLIVINE DIABASE**
- 11 QUARTZ DIABASE**
- 10 HURONIAN SEDIMENTS**
  - 10a Arkose
  - 10b Wacke
  - 10c Argillite
  - 10d Conglomerate
- 9 MATACHEWAN DIABASE**
- 8 FELSIC INTRUSIVE ROCKS**
  - 8 Unsubdivided
  - 8p Quartz porphyry
  - 8q Feldspar porphyry
  - 8r Quartz feldspar porphyry
  - 8s Felsite, p (perphyritic), sp (quartz-eye porphyritic), sp (spindler-porphyrific)
  - 8t Hornblende-biotite (trondhjemite)
  - 8u Perphyritic monzonite
  - 8v Diorandrite
  - 8w Perphyritic gneissoidite
  - 8x Leucocratic gneissoidite
  - 8y Hornblende diorite
  - 8z Quartz diorite
  - 8aa Pyroxenite
  - 8ab Anorthite
  - 8ac Syenite
  - 8ad Granite or quartz-rich syenite
  - 8ae Trochyle
- 7 MAFIC INTRUSIVE ROCKS**
  - 7 Unsubdivided
  - 7a Anorthosite
  - 7b Diorite
  - 7c Gabro
  - 7d Quartz gabro
  - 7e Pegmatoid gabro
  - 7f Lamprophyre
  - 7g Maficite breccio
  - 7h Nepheline-type Gabro sills
- 6 ULTRAMAFIC INTRUSIVE ROCKS**
  - 6 Unsubdivided
  - 6a Serpentinized gabbro-peddite
  - 6b Pyroxene-hornblende
  - 6c Carbonatized
  - 6d Calc-magnetite
- 5 SEDIMENTS**
  - 5 Unsubdivided
  - 5a Argillite
  - 5b Conglomerate
  - 5c Gypsiferous
  - 5d Perphyritic, sp (quartz-eye porphyritic), sp (spindler-porphyrific)
  - 5e Tuff, lapilli-tuff
  - 5f Quartzite
  - 5g Quartzite breccio
  - 5h Graphite
  - 5i Chert
  - 5j Agglomerate
  - 5k Tuffaceous-sediment
  - 5l Siltstone
  - 5m Sandstone
  - 5n Schist
  - 5o Gneiss
  - 5p Quartz porphyritic tuff
  - 5q Pyroxite
  - 5r Graphitic Fault Zone
  - 5s T denotes Keweenaw
  - 5t denotes Tonskamung
- 4 INTERMEDIATE-FELSIC VOLCANICS**
  - 4d Dacite
  - 4e Rhyodacite flow
  - 4f Dacite tuff
  - 4g Dacite pyroclastic
  - 4h Agglomerate-breccio conglomerate
  - 4i Dacite lapilli tuff
  - 4j Dacite spume flow
  - 4k Intermediate-felsic pyroclastic
  - 4l Rhyolite-andersite
  - 4m Intermediate-felsic schist
  - 4n Shear
  - 4o Massive rhyolite
  - 4p Rhyolite tuff
  - 4q Rhyolite lapilli tuff
  - 4r Rhyolite agglomerate
  - 4s (quartz-eye porphyritic)
  - 4t (spindler-porphyrific)
  - 4u Rhyolite
  - 4v P denotes Pinnacles
  - 4w E denotes Evedale
- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)**
  - 3 Unsubdivided
  - 3a Andesite
  - 3b Basalt
  - 3c Pliwud
  - 3d Tuff, lapilli-tuff
  - 3e Breccio
  - 3f Carbonatized
  - 3g Amphibolized
  - 3h Flow bre
  - 3i Shear
- 2 THOLEIITIC VOLCANICS**
  - 2 Unsubdivided
  - 2a Basalt
  - 2b Pliwud
  - 2c Amygdaloid
  - 2d Amygdaloid pillow lava
  - 2e Vuhille
  - 2f Tuff, lapilli-tuff
  - 2g Breccio
  - 2h Carbonatized
  - 2i Flow breccio
  - 2j Hydrothermal
  - 2k Agglomerate
  - 2l Amphibolized
  - 2m Spargite, chicken-feed
  - 2n Schistose
  - 2o Shear
  - 2p Dominantly Fe-tuffs
  - 2q Dominantly Mg-tuffs
  - 2r Dominantly Al-tuffs
  - 2s Dominantly basaltic
- 1 KOMATIITIC VOLCANICS**
  - 1 Unsubdivided
  - 1a Serpentinized, massive, polymorphous, peridotite komatiite
  - 1b Chlorite-serpentine textured peridotite komatiite flow
  - 1c Pyroxene-serpentine textured basaltic komatiite flow
  - 1d Massive basaltic komatiite
  - 1e Basaltic
  - 1f Carbonatized peridotite komatiite
  - 1g Talcose
  - 1h Basaltic komatiite
  - 1i Carbonatized basaltic komatiite
- IRON FORMATION**
  - IFa Chert
  - IFb Sulphide (py-pe)
  - IFc Carbonate
  - IFd Jasper
  - IFe Banded iron formation
  - IFf Chert-rich
  - IFg Graphitic
- SULPHIDES**
  - SS Disseminated sulphides
  - SS Stringer sulphides
  - MS Massive sulphides
  - SMS Sulf-massive sulphides
- OXIDES**
  - MT Magnetite (80-100%)
  - OV Quartz overbite veinings



HP95-251  
 HP95-250, HP95-251  
 NIGHTHAWK LAKE  
 EAST PENINSULA AREA  
 FALL 1995 DRILLING  
 SECTION 26E  
 1" = 50'  
 JAN. 96  
 ROYAL OAK MINES INC.

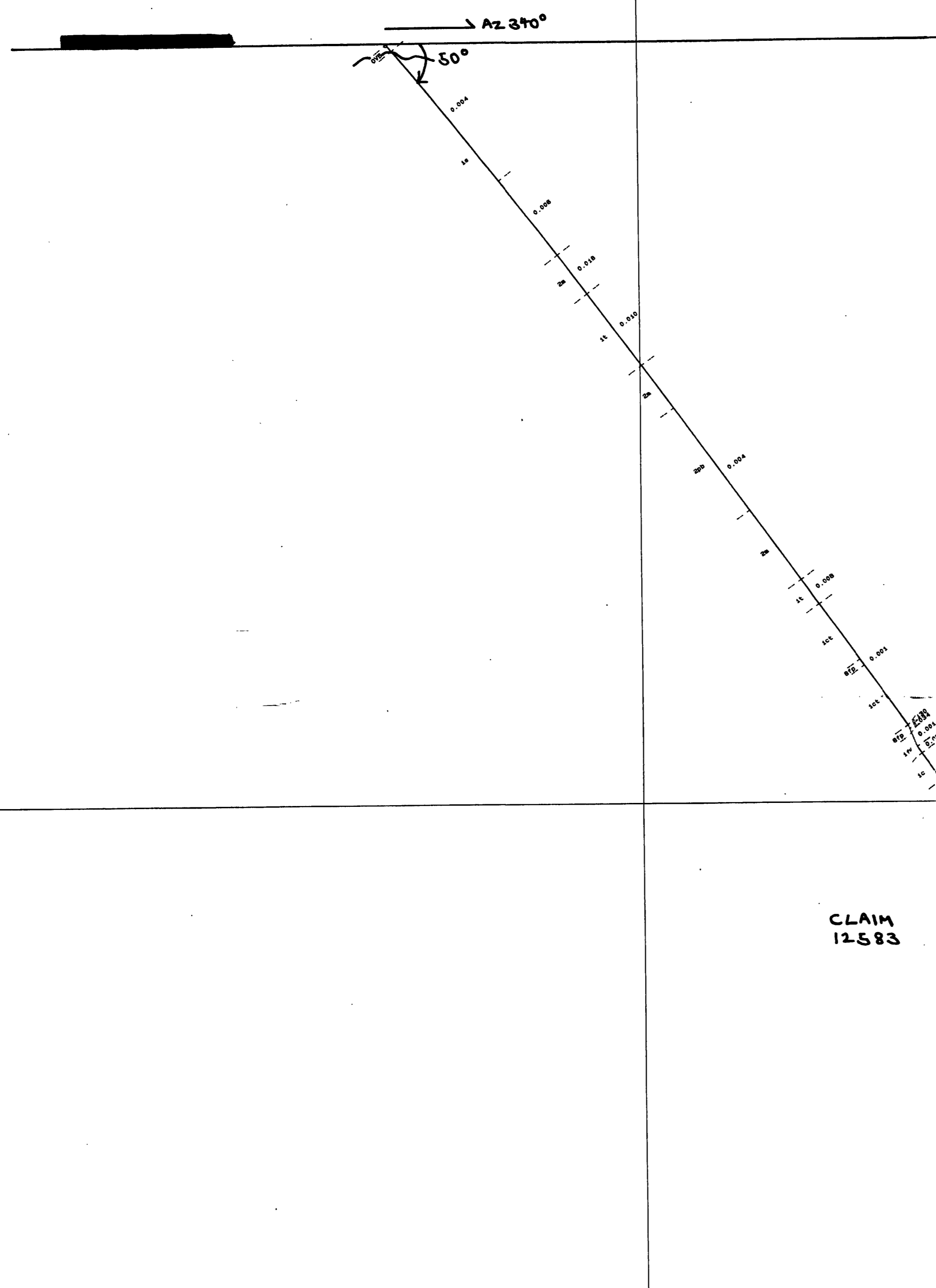


LEGEND

- 12 OLIVINE DIABASE**
- 11 QUARTZ DIABASE**
- 10 HURONIAN SEDIMENTS**
  - 10a Arkose
  - 10w Wacke
  - 10arg Argillite
  - 10c Conglomerate
- 9 MATACHEWAN DIABASE**
- 8 FELSIC INTRUSIVE ROCKS**
  - 8 Unsubdivided
  - 8ap Quartz porphyry
  - 8fp Feldspar porphyry
  - 8qf Quartz feldspar porphyry
  - 8f Felsite, p (porphyritic), qp (quartz-eye porphyritic)
  - pp (plagioclase-porphyritic)
  - 8hb Hornblende-biotite trondhjemite
  - 8bht Porphyritic monzonite
  - 8pm Granodiorite
  - 8pg Porphyritic granodiorite
  - 8lg Leucocratic granodiorite
  - 8hd Hornblende diorite
  - 8qd Quartz diorite
  - 8p Porphyry
  - 8a Aplite
  - 8s Syenite
  - 8g Granite or quartz-rich syenite
  - 8t Trochyle
- 7 MAFIC INTRUSIVE ROCKS**
  - 7 Unsubdivided
  - 7a Anorthosite
  - 7d Diorite
  - 7g Gabbro
  - 7qg Quartz gabbro
  - 7pg Pegmatoidal gabbro
  - 7l Lamprophyre
  - 7b Intrusive breccia
  - 7n Nipissing-type diabase sill
- 6 ULTRAMAFIC INTRUSIVE ROCKS**
  - 6 Unsubdivided
  - 6s Serpentinized diorite-peridotite
  - 6ph Pyroxene-hornblende
  - 6c Carbonized
  - 6tm Talc-magnetite

- 5 SEDIMENTS**
  - 5 Unsubdivided
  - 5a Argillite
  - 5c Conglomerate
  - 5g Greywacke
  - 5al Siltstone
  - 5p Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
  - 5d Debris flow
  - 5q Quartzite
  - 5qw Quartz wacke
  - 5gr Graphite
  - 5ch Chert
  - 5ag Agglomerate
  - 5t Tuffaceous-sediment
  - 5s Siltstone
  - 5sa Sandstone
  - 5sch Schist
  - 5sh Shear
  - 5ex Exhalite
  - 5tqp Quartz porphyritic tuff
  - 5tpp Phyllite
  - 5fz Graphitic Fault Zone
- 4 INTERMEDIATE-FELSIC VOLCANICS**
  - 4d Dacite
  - 4rd Rhyodacite flows
  - 4dt Dacite tuffs
  - 4dp Dacite pyroclastics
  - 4da Agglomerate-bracole conglomerate
  - 4dlt Dacite lapilli tuff
  - 4dm Dacite massive flow
  - 4p Intermediate-felsic pyroclastics
  - 4r Rhyolite-undifferentiated
  - 4sch Intermediate-felsic schist
  - 4sh Shear
  - 4rm Massive rhyolite
  - 4rt Rhyolite tuff
  - 4rit Rhyolite lapilli tuff
  - 4ra Rhyolite agglomerate
  - 4rp (quartz-eye porphyritic)
  - 4pp (plagioclase-porphyritic)
  - 4phy Phyllite
- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)**
  - 3 Unsubdivided
  - 3a Andesite
  - 3m Massive
  - 3p Pillowed
  - 3LH Tuff, lapilli-tuff
  - 3b Breccia
  - 3c Carbonized
  - 3am Amphibolitized
  - 3pb Pillow brx
  - 3sh Shear

- 2 THOLEIITIC VOLCANICS**
  - 2 Unsubdivided
  - 2m Massive
  - 2p Pillowed
  - 2a Amygdaloidal
  - 2api Amygdaloidal pillow lava
  - 2v Variolitic
  - 2t Tuff, lapilli-tuff
  - 2b Breccia
  - 2c Carbonized
  - 2pb Pillow Breccia
  - 2h Hyaloclastite
  - 2ag Agglomerate
  - 2am Amphibolitized
  - 2af Spherulitic, chicken-feed
  - 2sch Schistose
  - 2sh Shear
  - 2F Dominantly Fe-tholeiite
  - 2M Dominantly Mg-tholeiite
  - 2AL Dominantly AL-tholeiite
  - 2I Dominantly Isthodites
- 1 KOMATITIC VOLCANICS**
  - 1 Unsubdivided
  - 1a Serpentinized, massive, polysaturated, peridotite komatite
  - 1ox Olivine-spinifex textured peridotite komatite flows
  - 1px Pyroxene-spinifex textured basaltic komatite flows
  - 1mb Massive basaltic komatite
  - 1m Massive
  - 1p Pillowed
  - 1c Carbonized peridotite komatite
  - 1t Talcosa
  - 1b Basaltic komatite
  - 1cb Carbonized basaltic komatite
- IRON FORMATION**
  - IFo Oxide
  - IFs Sulphide (py-pe)
  - IFc Carbonate
  - IFj Jasper
  - IFB Banded iron formation
  - IFCh Chert-rich
  - IFgr Graphitic
- SULPHIDES**
  - DS Disseminated sulphides
  - SS Stringer sulphides
  - MS Massive sulphides
  - SMS Semi-massive sulphides
- OXIDES**
  - MI Magnetite (80-100%)
  - QAV Quartz ankerite veining



HP 95-263  
 NIGHTHAWK LAKE  
 EAST PENINSULA AREA  
 FALL 1995 DRILLING  
 SECTION 28E  
 SCALE 1" = 50.0'  
 JAN. 96 1" = 50'  
 ROYAL OAK MINES INC.

Az. 180°

45°

961.3 Ft.

1300.0 Ft.

CLAIM 371158

CLAIM 18376

LEGEND

- 12 OLIVINE DIABASE**
- 11 QUARTZ DIABASE**
- 10 HURONIAN SEDIMENTS**
- 9 MATACHEWAN DIABASE**
- 8 FELSIC INTRUSIVE ROCKS**
- 7 MAFIC INTRUSIVE ROCKS**
- 6 ULTRAMAFIC INTRUSIVE ROCKS**
- 5 SEDIMENTS**
- 4 INTERMEDIATE-FELSIC VOLCANICS**
- 3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)**
- 2 THOLEIITIC VOLCANICS**
- 1 KOMATIITIC VOLCANICS**
- IRON FORMATION**
- SULPHIDES**
- OXIDES**



Az 180°

50°

CLAIM P371158

CLAIM P18376

RN85-184  
1202.0 Ft.



42A105W0045 V0660-00358 MACKLEM

390

LEGEND

12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

- 10a Arkose
- 10w Wacke
- 10dg Argillite
- 10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8qp Quartz porphyry
- 8fp Feldspar porphyry
- 8qfp Quartz feldspar porphyry
- 8f Felaita, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8hbt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8gd Granodiorite
- 8pg Porphyritic granodiorite
- 8ig Leucocratic granodiorite
- 8nd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8o Aplite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7ag Quartz gabbro
- 7pg Pegmatoidal gabbro
- 7l Lamprophyre
- 7b Intrusive breccia
- 7n Nipissing-type diabase sills

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6ph Pyroxene-hornblende
- 6c Carbonatized
- 6rn Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Greywacke
- 5ai Slate
- 5p Porphyritic, qp (quartz-eye porphyritic), sp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5qw Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5og Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5sa Sandstone
- 5sch Schist
- 5sh Shear
- 5es Esholite
- 5tqp Quartz porphyritic tuff
- 5phl Phyllite
- 5fz Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4dc Agglomerate-breccia conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate
- 4p (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4phl Phyllite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillowed
- 3L,3H Breccia
- 3b Tuff, lapilli-tuff
- 3c Carbonatized
- 3am Amphibolitized
- 3pb Pillow brex
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillowed
- 2a Amygdaloidal
- 2opl Amygdaloidal pillow lava
- 2v Vesicular
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2pb Pillow Breccia
- 2h Hyaloclastite
- 2ag Agglomerate
- 2am Amphibolitized
- 2acf Spherulitic, chicken-feed
- 2ach Schistose
- 2sh Shear
- 2F Dominantly Fe-tholeiite
- 2M Dominantly Mg-tholeiite
- 2AL Dominantly AL-tholeiite
- 2I Dominantly Icelandite

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1s Serpentinized, massive, polysaturated, peridotitic komatiite
- 1ox Olivine-spinifex textured peridotitic komatiite flows
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillowed
- 1c Carbonatized peridotitic komatiite
- 1t Talcosa
- 1b Basaltic komatiite
- 1cb Carbonatized basaltic komatiite

IRON FORMATION

- IFo Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IFj Jasper
- IFB Banded iron formation
- IFch Chert-rich
- IFgr Graphitic

SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

OXIDES

- MT Magnetite (80-100%)
- QAV Quartz ankerite veining

NIGHTHAWK LAKE  
EAST PENINSULA AREA  
FALL 1995 DRILLING  
SECTION 196E

SCALE 1" = 50.0 FT  
JAN. 96 1" = 50'  
ROYAL OAK MINES INC.

P371157 CLAIM

P18376 CLAIM

Az 180°

50°

LEGEND

12 OLIVINE DIABASE

11 QUARTZ DIABASE

10 HURONIAN SEDIMENTS

- 10a Arkose
- 10w Wacke
- 10wg Argillite
- 10c Conglomerate

9 MATACHEWAN DIABASE

8 FELSIC INTRUSIVE ROCKS

- 8 Unsubdivided
- 8qp Quartz porphyry
- 8fp Feldspar porphyry
- 8fpp Quartz feldspar porphyry
- 8fp Felate, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 8hbt Hornblende-biotite trondhjemite
- 8pm Porphyritic monzonite
- 8gd Grenodiortite
- 8pg Porphyritic gneodiorite
- 8lg Leucocratic gneodiorite
- 8hd Hornblende diorite
- 8qd Quartz diorite
- 8p Porphyry
- 8a Aplite
- 8s Syenite
- 8g Granite or quartz-rich syenite
- 8t Trachyte

7 MAFIC INTRUSIVE ROCKS

- 7 Unsubdivided
- 7a Anorthosite
- 7d Diorite
- 7g Gabbro
- 7gg Quartz gabbro
- 7pg Pegmatoidal gabbro
- 7i Lamprophyre
- 7b Intrusive breccia
- 7n Nipissing-type diabase sills

6 ULTRAMAFIC INTRUSIVE ROCKS

- 6 Unsubdivided
- 6a Serpentinized diorite-peridotite
- 6ph Pyroxene-hornblende
- 6c Carbonatized
- 6fn Talc-magnetite

5 SEDIMENTS

- 5 Unsubdivided
- 5a Argillite
- 5c Conglomerate
- 5g Graywacke
- 5al Siltite
- 5p Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
- 5d Debris flow
- 5q Quartzite
- 5qw Quartz wacke
- 5gr Graphite
- 5ch Chert
- 5ag Agglomerate
- 5t Tuffaceous-sediment
- 5s Siltstone
- 5ee Sandstone
- 5sch Schist
- 5sh Shear
- 5ex Exhalite
- 5kpp Quartz porphyritic tuff
- 5phyl Phyllite
- 5gfy Graphitic Fault Zone

4 INTERMEDIATE-FELSIC VOLCANICS

- 4d Dacite
- 4rd Rhyodacite flows
- 4dt Dacite tuffs
- 4dp Dacite pyroclastics
- 4da Agglomerate-breccia conglomerate
- 4dit Dacite lapilli tuff
- 4dm Dacite massive flow
- 4p Intermediate-felsic pyroclastics
- 4r Rhyolite-undifferentiated
- 4sch Intermediate-felsic schist
- 4sh Shear
- 4rm Massive rhyolite
- 4rt Rhyolite tuff
- 4rit Rhyolite lapilli tuff
- 4ra Rhyolite agglomerate (quartz-eye porphyritic)
- 4pp (plagioclase-porphyritic)
- 4phyl Phyllite

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

- 3 Unsubdivided
- 3a Andesite
- 3m Massive
- 3p Pillow
- 3lt Tuff, lapilli-tuff
- 3b Breccia
- 3c Carbonatized
- 3am Amphibolitized
- 3pb Pillow brx
- 3sh Shear

2 THOLEIITIC VOLCANICS

- 2 Unsubdivided
- 2m Massive
- 2p Pillow
- 2a Amygdaloidal
- 2apl Amygdaloidal pillow lava
- 2v Vesicular
- 2t Tuff, lapilli-tuff
- 2b Breccia
- 2c Carbonatized
- 2pb Pillow Breccia
- 2h Hydroclastic
- 2ag Agglomerate
- 2am Amphibolitized
- 2sch Schistlike, chicken-feed
- 2sch Schistose
- 2sh Shear
- 2F Dominantly F-tholeiite
- 2M Dominantly M-tholeiite
- 2AL Dominantly AL-tholeiite
- 2I Dominantly I-tholeiite

1 KOMATIITIC VOLCANICS

- 1 Unsubdivided
- 1a Serpentinized, massive, polysutured, peridotitic komatiite
- 1ox Olivine-spinifex textured peridotitic komatiite flows
- 1px Pyroxene-spinifex textured basaltic komatiite flows
- 1mb Massive basaltic komatiite
- 1m Massive
- 1p Pillow
- 1c Carbonatized peridotitic komatiite
- 1t Talcose
- 1b Basaltic komatiite
- 1cb Carbonatized basaltic komatiite

IRON FORMATION

- IFa Oxide
- IFs Sulphide (py-po)
- IFc Carbonate
- IF Jasper
- IFB Banded iron formation
- IFCh Chlorite-rich
- IFgr Graphitic

SULPHIDES

- DS Disseminated sulphides
- SS Stringer sulphides
- MS Massive sulphides
- SMS Semi-massive sulphides

OXIDES

- MT Magnetite (80-100%)
- QAV Quartz ankerite veining



400

1197.3 Ft.

NIGHTHAWK LAKE  
 EAST PENINSULA AREA  
 FALL 1995 DRILLING  
 SECTION 198E

SCALE 1" = 50 FT

JAN. 96 1" = 50'

ROYAL OAK MINES INC.