



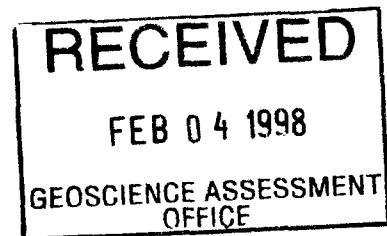
43B13SW2002 2.18134 527834

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**MONOPROS LIMITED**

**ASSESSMENT REPORT ON THE  
WINTER 1997  
REVERSE CIRCULATION DRILLING PROGRAMME  
OF THE X-RAY AND WHISKEY KIMBERLITES**

2.18134



**Casey Hetman  
January 5, 1998**

**TABLE OF CONTENTS**

**1.0 INTRODUCTION..... 3**

**1.1 Camp Description ..... 3**

**1.2 General Geology..... 3**

**1.3 Logistics..... 4**

**2.0 DISCUSSION..... 5**

**2.1 Geophysics..... 5**

***2.1.1 Geophysical Interpretation of the X-ray Kimberlite..... 5***

**2.2 Drilling..... 6**

***2.2.1 Sample Description of the X-ray Kimberlite. .... 6***

***2.2.2 Sample Description of the Whiskey Kimberlite..... 7***

***2.2.3 Sample Treatment..... 8***

***2.2.4 Results..... 9***

**3.0 CONCLUSIONS AND RECOMMENDATIONS..... 9**

**FIGURE 1. .... 10**

**TABLE 1. .... 11**

**TABLE 2. .... 12**

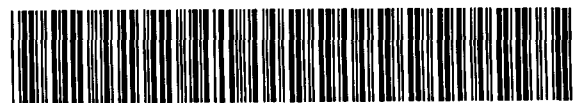
**REFERENCES..... 13**

**APPENDIX A..... 14**

**DRILL LOGS AND SECTIONS..... 14**

**APPENDIX B..... 15**

**MAPS ..... 15**



## **1.0 INTRODUCTION**

A 22 195.0 kg sample of kimberlite was collected from the X-ray kimberlite pipe, and a 648.6 kg sample was collected from the Whiskey kimberlite pipe. This material was collected using two MHD reverse circulation drills. Prior to the collection of this material, detailed ground geophysics were completed over X-ray in order to better define the outline of the kimberlite in preparation for drilling. No geophysics was completed over the Whiskey kimberlite. The purpose of this drilling project was to recover macrodiamonds from the X-ray kimberlite in order to assess its economic potential. The material from Whiskey was collected for mineral chemistry.

### **1.1 Camp Description**

The camp was located on NTS mapsheet 43B/13, zone 17 at the UTM location of 305607 E and 5855252 N (NAD27). On January 20th the helicopter and geophysics crew arrived at Boomerang Lake (308700E, 5862500N) and the construction of the camp was completed on January 27th. The camp was set up, and closed by Services Exploration of Rouyn-Noranda. The camp consisted of eight tents; one kitchen tent, one "dry" tent, four sleeping tents, one storage tent and a generator tent. One survival tent was also placed at Boomerang Lake. The camp was powered by a 7.5 kW diesel generator. Water was obtained from a small creek approximately 50m from the "dry" tent.

### **1.2 General Geology**

The Attawapiskat kimberlite cluster is located near the Attawapiskat river some 100 km west of the coast of James Bay, Ontario. The kimberlites lie within the Superior Structural Province of the Canadian Shield.

Paleozoic rocks unconformably overly the Precambrian basement rocks of the Superior, and attain a thickness of up to 800m within the Moose River Basin. These rocks range from Ordovician at the contact with the Shield rocks to the west, to Silurian rocks, which

cover most of the Lowlands and consist of shales, limestones, dolomites, siltstones and sandstones (Norris and Sanford, 1968). These Paleozoic rocks are overlain by glacial and Recent deposits varying in thickness from 0 to more than 150m. Thin Pleistocene till sheets deposited by glaciers flowing north to south are covered by thin marine and coastal Holocene deposits which formed during the ongoing recession of the early post glacial Tyrrell sea (Martini, 1988). Silurian reefs and bioherm deposits (430 Ma) outcrop in the vicinity of the Attawapiskat kimberlites and consist predominantly of limestone and dolostone (Suchy and Stearn, 1993).

### **1.3 Logistics**

The geophysics crew and camp equipment were mobilized by twin Otter and turbo Otter from Nakina to Boomerang Lake (704 km: round trip). From the lake, equipment was taken by a Bell 204 helicopter to the camp site which is located close to the Victor kimberlite (16 km: round trip). The camp was placed in this location so that snowmobiles could be used to move people and light equipment to the grids and drills each day. The helicopter was only used to move pails of kimberlite and drilling equipment.

The bulk of the fuel for the drilling project was transported to the Attawapiskat First Nation community on the winter road from Moosonee. This fuel was then transported to Boomerang Lake by turbo Otter (192 km: round trip) from the community, then slung to camp with the helicopter.

Samples were transported to Boomerang Lake from sample caches on the individual kimberlites with the helicopter. They were then flown by the Otter to the Attawapiskat First Nation community. At the community they were loaded into 20 foot containers (approx. 400 pails/container), and then transported down the winter road to Moosonee. From Moosonee they were loaded onto a rail car and shipped to Val d'Or. A small number of samples were taken to Nakina, and transported by truck back to Val d'Or.

The drilling equipment was also transported to the Attawapiskat First Nation community by winter road from Moosonee. From the community the helicopter transported the drills and compressors to camp (five loads at 1.5 hrs round trip). The remaining equipment was transported with the twin Otter to Boomerang Lake, then slung with the helicopter to camp.

At the end of the project the drills, and camp equipment were transported to the community by air, loaded into containers and onto flatbeds, then transported down the winter road to Moosonee.

## **2.0 DISCUSSION**

### **2.1 Geophysics**

The geophysical work was completed by Services Exploration with a five man crew. The work consisted of re-establishing the grid over X-ray and collecting total field magnetometer data using a GEM GSM19 V5.0 in normal mobile mode. Work on the grid started on January 28, 1997 and was completed on February 02, 1997. The initial ground magnetometer survey was conducted on a grid with 100m line spacing and 25 m station interval. The new survey was conducted on a grid with 50m line spacing, with readings every 12.5m. This grid was placed over the kimberlite in order to get a better idea of the size and structure of the pipe in preparation for drilling. The total line kilometers surveyed by Services Exploration on the X-ray grid was 11.0 km.

#### ***2.1.1 Geophysical Interpretation of the X-ray Kimberlite***

This kimberlite is represented by an irregular shaped 220 x 300m magnetic "high" that is characterized by a series of magnetic "lows" within the centre of the pipe. The intensity of the anomaly varies across the pipe but is as high as 1 000 nT. Much more apparent structure within the pipe can be observed on the new map, which is often characteristic of hypabyssal facies kimberlite. The old data shows a slightly larger sized anomaly made up of two magnetic "highs" with an estimated size of 5.7ha. This body is now thought to be only 4.0 ha in area.

## 2.2 Drilling

The drilling crew consisted of two drillers and two helpers from Boart-Longyear. Two drills were used for the collection of the sample. One driller and one helper were required on each drill with one geologist and one or two field assistants. A total of 12 holes were drilled into X-ray. All holes completed on this kimberlite sampled below 66.0 meters. Five holes reached depths of around 90.0 metres. A total of 22 860.6 kg (wet) of material was collected from this kimberlite. The theoretical mass drilled is 24 195.0 kg for a percent recovery of 94.5%. A total of six drilling days was spent on this pipe.

One hole was drilled into the Whiskey kimberlite to a depth of 28.5 m. A total of 648.6 kg of kimberlite was collected.

2.10134

### 2.2.1 *Sample Description of the X-ray Kimberlite.*

This kimberlite is a hard green/gray (weathers to a yellow brown) coloured hypabyssal macrocrystic kimberlite that grades into a hypabyssal macrocrystic kimberlite breccia at depth. These two different rock types are separated by a 15 m thick layer of very altered kimberlite that is clay rich and occurs around 40.0 m. This clay rich zone was intersected in most of the holes, especially the ones on the west side of the pipe. This altered material is a pink/brown colour and contains very abundant limestone/dolomite xenoliths. Indicators within this material are relatively abundant with ilm>cpx>gnt. Phlogopite is rare and occurs as deep green coloured macrocrysts.

Olivine is abundant to very abundant within the fresh kimberlite and is clast supported in areas with a fine grained groundmass. Olivines are anhedral and display varying degrees of alteration. Above the clay zone olivines are slightly larger, usually less than 4.0 mm with some larger megacrysts present. These are typically weathered to a yellow brown colour. Within the clay zone olivine is rare. Below the clay rich zone, within the breccia, the

olivines are smaller, usually 2.0 mm with very few megacrysts. These olivines are quite fresh in areas and some have been replaced by carbonate as well as magnetite.

Garnets are conspicuous within this kimberlite and increase in abundance with depth. These garnets are usually 1.0 mm or less and occur as sharp glassy slivers (fragments of larger grains) as well as rounded sugary grains. A number of the garnets appear quite altered. Some garnets have kelyphite rims. These are commonly intergrown with clinopyroxene, fractured, contain tiny black inclusions, and are pink/purple in colour. A few orange coloured garnets were observed.

Chrome diopside varies in abundance within the chips that were examined. These grains are often a cloudy green colour with calcite along cleavage planes. These grains are usually less than 4.0 mm, and have blocky shapes. Chrome diopside was observed intergrown with phlogopite. Very fresh clear glassy grains were less than 1.0 mm.

Ilmenite is relatively abundant throughout the pipe, grains are usually less than 4.0 mm. Spinel is present as small (100  $\mu\text{m}$ ) euhedral grains. Much of the phlogopite is altered to a deep green colour, however within the breccia some very fresh phlogopite was observed. Perovskite was not observed. Amorphous pyrite and magnetite as well as tiny (10-50  $\mu\text{m}$ ) euhedral pyrite crystals are common within the kimberlite breccia around 90.0 m

Xenoliths consist of gray and brown coloured limestone, red brown dolomitic limestone and a striking royal blue coloured chert that becomes white after exposure to air. Only one eclogite xenolith was observed. A single small phlogopite rich nodule was also observed (? glimmerite). The limestone xenoliths display reaction haloes in contact with the kimberlite. Some 1.0 cm sized autoliths were observed.

### ***2.2.2 Sample Description of the Whiskey Kimberlite***

This kimberlite can be described as a hard, brown colored, macrocrystic hypabyssal kimberlite. Olivines are anhedral, abundant to very abundant (clast supported). Most

olivine grains are less than 3.0 mm with few coarser macrocrysts observed. Most of the olivine is fresh, but some is weathered to a cloudy yellow brown colour.

Indicators in this pipe are dominantly ilmenite and chrome diopside. Ilmenite is relatively abundant and typically less than 3.0 mm. Chrome diopside is conspicuous. Larger deformed clinopyroxene megacrysts are quite altered and deformed, in some cases being almost entirely replaced by calcite. Inclusions of phlogopite inside chrome diopside megacrysts are present. Very few garnets were observed in the samples collected. The garnets are usually very tiny (< 1.0 mm), pink/purple in colour, and are sugary and cloudy in appearance with fine black inclusions. Some fresh clear pink/red garnets, and orange varieties were observed. Small (200 µm) perfect octahedrons of spinel are present.

Xenoliths consist of limestone which are rare, these have reacted with the kimberlite host and have alteration haloes.

### ***2.2.3 Sample Treatment***

The sample collected from Whiskey kimberlite was sent to Ron Sage of the Ontario Geological Survey for microprobe work on the garnets. The remaining material is being stored in Val d'Or, this was not processed for macrodiamonds. The 24 samples from the X-ray kimberlite were shipped from Val d'Or to Kimberley, South Africa for treatment. Initially the samples were weighed then dumped into a feed bin with a vibrating feeder which sent the material to a scrubber with a bottom screen of 1.0 mm and a top screen of 8.0 mm. Material less than 1.0 mm was sent to a slimes dam. The remaining material that was greater than 8.0 mm was passed through a jaw crusher. All the material was then passed through a dewatering screen, and any material less than 1.0 mm was sent to the slimes dam. From the dewatering screen the material was passed into a storage bin then into a mixing box, into a 150 mm cyclone. The concentrate was then screened and packaged, and the remaining material from the cyclone was sent to a tailings (see figure 1). The concentrates were then sorted for diamonds.



#### **2.2.4 Results**

A total of 15 macrodiamonds were recovered from the X-ray kimberlite, see table 1. Macrodiamonds are stones that are greater than 1.0 mm.

### **3.0 CONCLUSIONS AND RECOMMENDATIONS**

Due to the number of macrodiamonds that were recovered from the X-ray kimberlite, no further work is recommended on this body.

*Donald R. Benson*

*for*

Casey Hetman  
January 5, 1998

#### **Distribution :**

Toronto : 1 copy

Val-d'Or : 1 copy

Data Bank : 1 copy

Ministry of Northern Development and Mines : 2 copies

# KIMBERLY SAMPLE TREATMENT FLOWSHEET

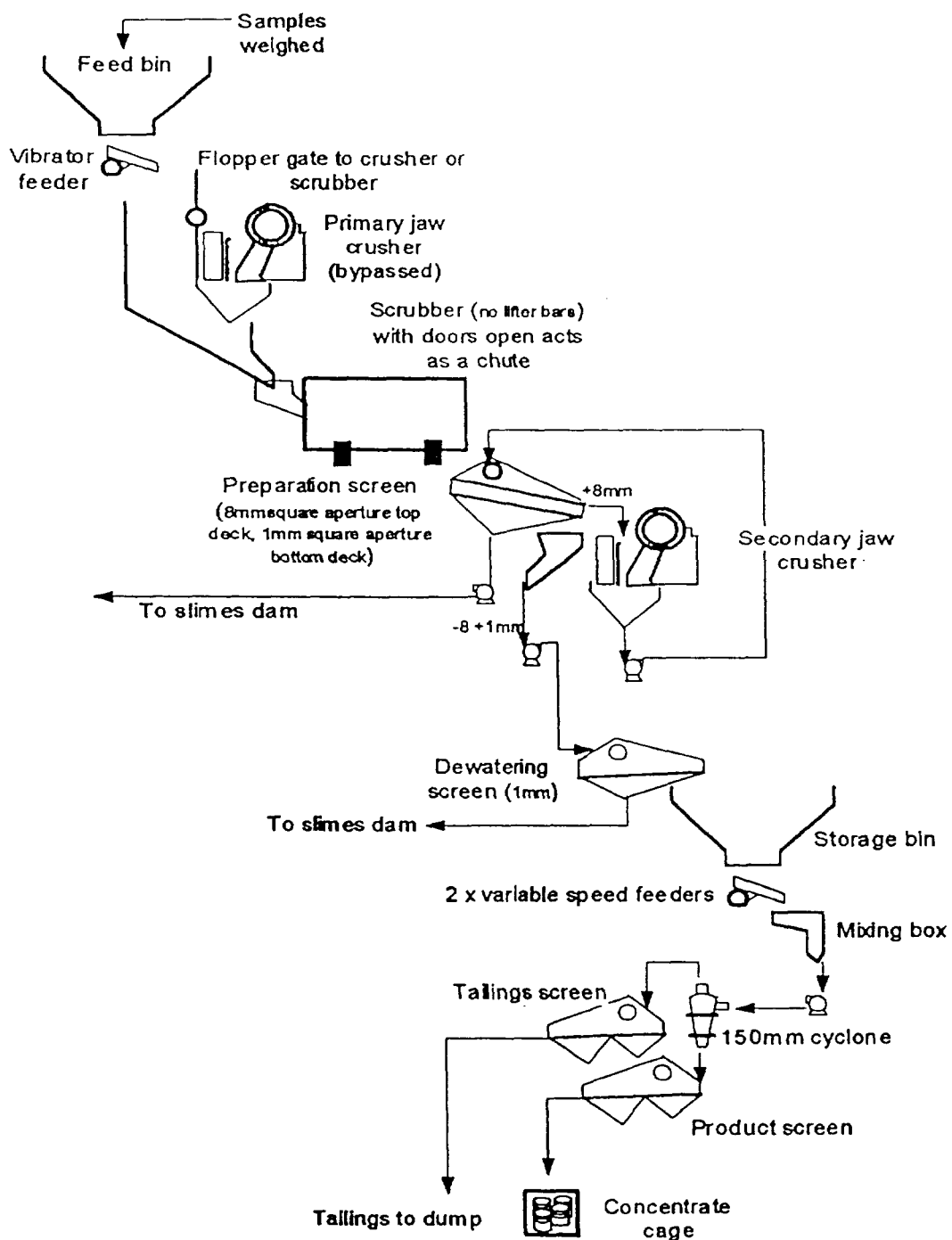


FIGURE 1.

**RESULTS FROM THE X-RAY KIMBERLITE**

<b>SAMPLE</b>	<b>DRILL HOLE</b>	<b>INTERVAL (m)</b>	<b>TOTAL STONES*</b>
DGA 034	X-01-97	6.0-37.5	0
DGA 035	X-01-97	37.5-75.0	1
DGA 036	X-02-97	6.0-39.0	2
DGA 037	X-02-97	39.0-72.0	0
DGA 038	X-03-97	15.0-37.5	0
DGA 039	X-03-97	37.5-60.0	2
DGA 040	X-04-97	4.5-42.0	1
DGA 041	X-04-97	42.0-72.9	0
DGA 042	X-05-97	6.0-46.5	1
DGA 043	X-05-97	46.5-84.9	2
DGA 044	X-06-97	7.5-49.5	0
DGA 045	X-06-97	49.5-94.5	1
DGA 046	X-07-97	7.5-39.0	0
DGA 047	X-07-97	39.0-75.0	1
DGA 048	X-08-97	4.5-46.5	0
DGA 049	X-08-97	46.5-87.9	3
DGA 050	X-10-97	4.5-52.5	0
DGA 051	X-10-97	52.5-89.1	0
DGA 052	X-11-97	15.0-55.5	0
DGA 053	X-11-97	55.5-90.0	0
DGA 054	X-12-97	7.5-45.0	0
DGA 055	X-12-97	45.0-90.0	0
DGA 056	X-13-97	13.5-43.5	0
DGA 057	X-13-97	43.5-75.0	0
SPILLAGE			1
<b>TOTAL STONES</b>			<b>15</b>

**\*STONES ARE MACRODIAMONDS GREATER THAN 1.0MM**

**TABLE 1.**

**ATTAWAPISKAT DRILLING EXPENSES 1997  
THE X-RAY AND WHISKEY KIMBERLITE**

Geologists	\$22,922.94
Part time help	\$12,936.31
Field office equipment	\$3,226.05
Travel expenses	\$4,144.21
Vehicle costs	\$577.35
Helicopter	\$74,552.75
Fixed wing aircraft	\$59,150.54
Freight storage and handling	\$34,976.24
Field supplies	\$18,665.02
Field accommodation	\$912.13
Drill contractor	\$15,396.62
Geophysics contractor	\$9,906.24
Sample processing	\$7,606.02
Diamond sorting	\$35,900.00
<b><i>total</i></b>	<b>\$300,872.43</b>

**TABLE 2.**

## REFERENCES

Martini, I.P. 1988. The Hudson Bay Lowland: major geologic features and assets: *Geologie en Mijnbouw*, Volume 68, p. 25-34.

Norris, A.W. and Sanford, B.V. 1968. Paleozoic and Mesozoic Geology of the Hudson Bay Lowlands. *In* Hood, P.J. ed., *Earth Science Symposium on Hudson Bay*, Geological Survey of Canada, Paper 68-53.

Suchy, D.R. and Stearn, C.W. 1993. Lower Silurian reefs and post-reef beds of the Attawapiskat Formation, Hudson Bay Platform, northern Ontario. *Canadian Journal*.

**APPENDIX A**  
**DRILL LOGS AND SECTIONS**

# MONOPROS LIMITED

## DRILL LOG

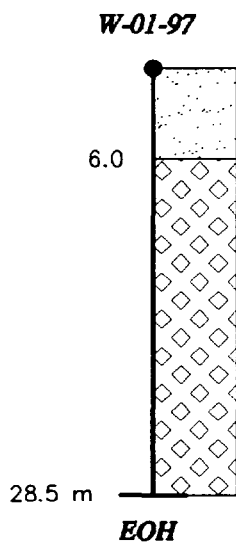
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :W-01-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L400W+950N</b>
<b>CLAIM :</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :17-MAR-97</b>
<b>Date :17-MAR-97</b>	<b>Completed :17-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-6.0	OVERBURDEN: Clay rich till with some carbonate clasts.
6.0-28.5	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite with some carbonate xenoliths.
28.5	END OF HOLE.

# DRILL HOLE SECTION



Hole number: *W-01-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *UTM NAD 27*  
*307050E,5854500N*  
 Length of hole: *28.5 m*  
 Claim number: *P1052713*  
 Diameter of bit: *123.8 mm*

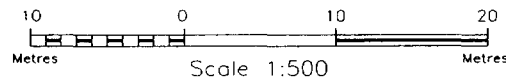
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

*DRILLING 1997*  
 ATTAWAPISKAT RIVER AREA

WHISKEY KIMBERLITE

REVISION:	DATE	DESCRIPTION	BY	AUTHOR:	SCALE:
					1:500
				DRAWN:	FILE:
				A. Latendresse	W0197DH
				DATE:	N.T.S.
				11/05/97	43B/13



# MONOPROS LIMITED

## DRILL LOG

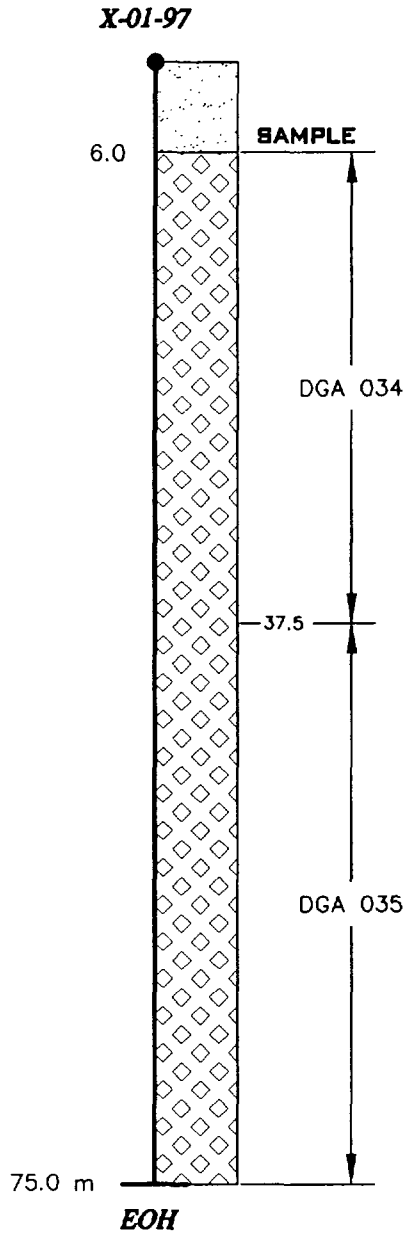
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-01-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L400E+400S</b>
<b>CLAIM :P1052267</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :10-MAR-97</b>
<b>Date :10-MAR-97</b>	<b>Completed :10-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-6.0	OVERBURDEN: Clay rich till with some carbonate clasts.
6.0-75.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
75.0	EOH

# DRILL HOLE SECTION



Hole number: *X-01-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L400E+400S*  
 Length of hole: *75.0 m*  
 Claim number: *P1052267*  
 Diameter of bit: *123.8 mm*

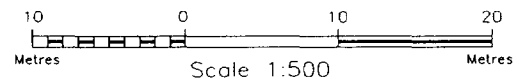
## LEGEND



OVERBURDEN



KIMBERLITE



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DRILLING 1997

ATTAWAPISKAT RIVER AREA

XRAY KIMBERLITE

REVISION Date	Description	By	AUTHOR:	SCALE:
			DRAWN: A. Latendresse	1:500
			DATE: 11/05/97	FILE: X0197DH
				N.T.S. 43B/13

# MONOPROS LIMITED

## DRILL LOG

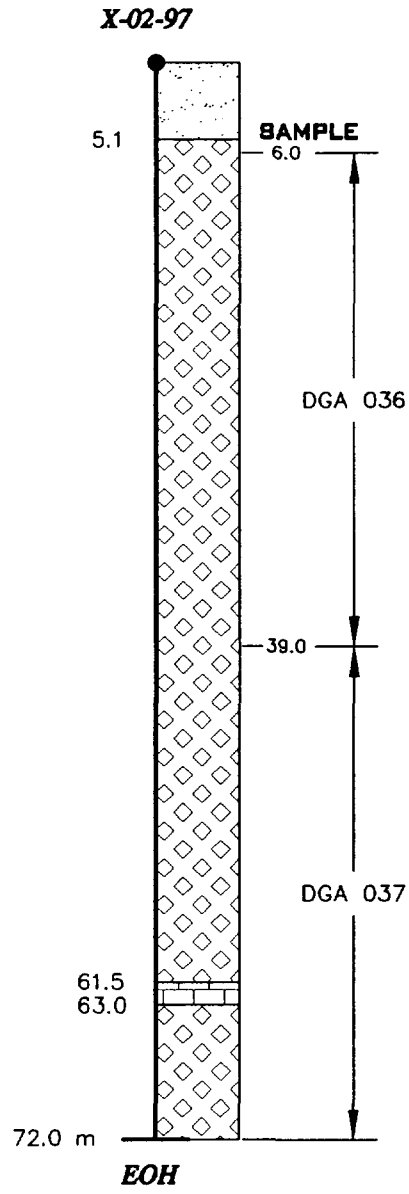
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<b>NTS Sheet :43B/13</b>	<b>GRID :L350E+370S</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :11-MAR-97</b>
<b>Date :11-MAR-97</b>	<b>Completed :11-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-5.1	OVERBURDEN: Clay rich till with some carbonate clasts.
5.1-61.5	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
61.5-63.0	LIMESTONE
63.0-72.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
72.0	EOH

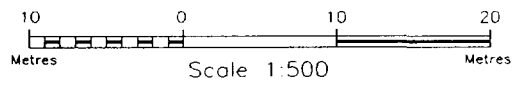
# DRILL HOLE SECTION



Hole number: *X-02-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L350E+370S*  
 Length of hole: *72.0 m*  
 Claim number: *P1052266*  
 Diameter of bit: *123.8 mm*

### LEGEND

	OVERBURDEN
	KIMBERLITE
	LIMESTONE



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*DRILLING 1997*  
 ATTAWAPISKAT RIVER AREA

XRAY KIMBERLITE

REVISION: Date	Description	By	AUTHOR:	SCALE: 1:500
			DRAWN: A. Latendresse	FILE: X0297DH
			DATE: 11/05/97	N.T.S. 43B/13

# MONOPROS LIMITED

## DRILL LOG

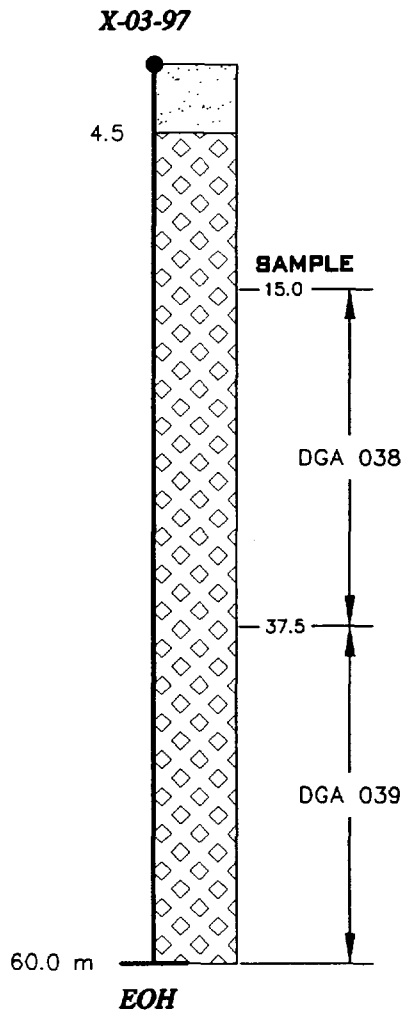
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<b>NTS Sheet :43B/13</b>	<b>GRID :L350E+400S</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :8 -MAR-97</b>
<b>Date :8 -MAR-97</b>	<b>Completed :8-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-15.0	OVERBURDEN: Clay rich till with some carbonate clasts.
15.0-60.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
60.0	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-03-97*  
 Angle of hole: *-90°*  
 Position on grid: *L350E+400S*  
 Length of hole: *60.0 m*  
 Claim number: *P1052266*  
 Diameter of bit: *123.8 mm*

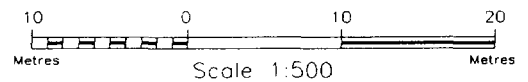
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

*DRILLING 1997*  
 ATTAWAPISKAT RIVER AREA



**XRAY KIMBERLITE**

REVISION:	Date	Description	By	AUTHOR	SCALE:
					1:500
				DRAWN:	FILE:
				A. Lotendresse	X0397DH
				DATE:	N.T.S.
				11/06/97	43B/13

# MONOPROS LIMITED

## DRILL LOG

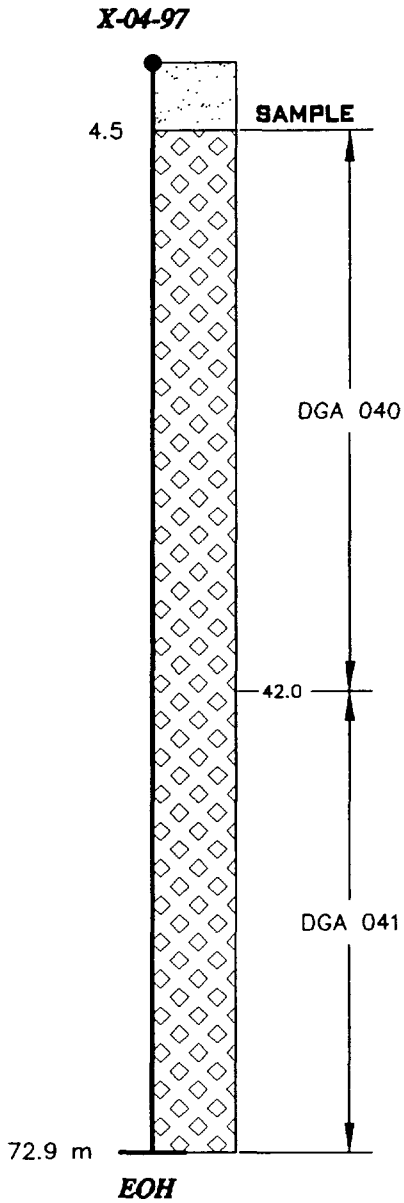
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-04-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L300E+400S</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :6-MAR-97</b>
<b>Date :6-MAR-97</b>	<b>Completed :6-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-4.5	OVERBURDEN: Clay rich till with some carbonate clasts.
4.5-72.9	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
72.9	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-04-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L300E+400S*  
 Length of hole: *72.9 m*  
 Claim number: *P1052266*  
 Diameter of bit: *123.8 mm*

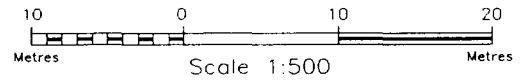
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

DRILLING 1997

ATTAWAPISKAT RIVER AREA

XRAY KIMBERLITE

REVISION: Date	Description	AUTHOR:	SCALE: 1:500
		DRAWN: A. Latendresse	FILE: X0497DH
		DATE: 11/06/97	N.T.S. 43B/13



# MONOPROS LIMITED

## DRILL LOG

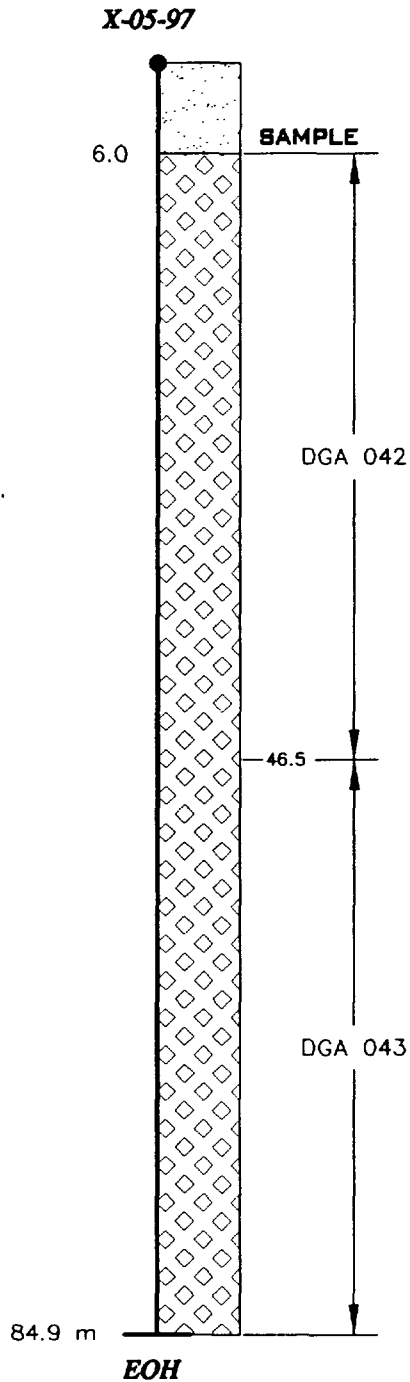
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-05-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L300E+437.5S</b>
<b>CLAIM :P1052269</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :7-MAR-97</b>
<b>Date :7-MAR-97</b>	<b>Completed :7-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-6.0	OVERBURDEN: Clay rich till with some carbonate clasts.
6.0-84.9	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
84.9	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-05-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L300E+437.5S*  
 Length of hole: *84.9 m*  
 Claim number: *P1052269*  
 Diameter of bit: *123.8 mm*

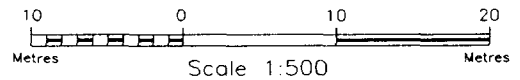
## LEGEND



OVERBURDEN



KIMBERLITE



# MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA



XRAY KIMBERLITE

REVISION:	DESCRIPTION:	BY:	AUTHOR:	SCALE:
				1:500
			DRAWN:	FILE:
			A. Latendresse	X0597DH
			DATE:	N.T.S.
			11/06/97	43B/13

# MONOPROS LIMITED

## DRILL LOG

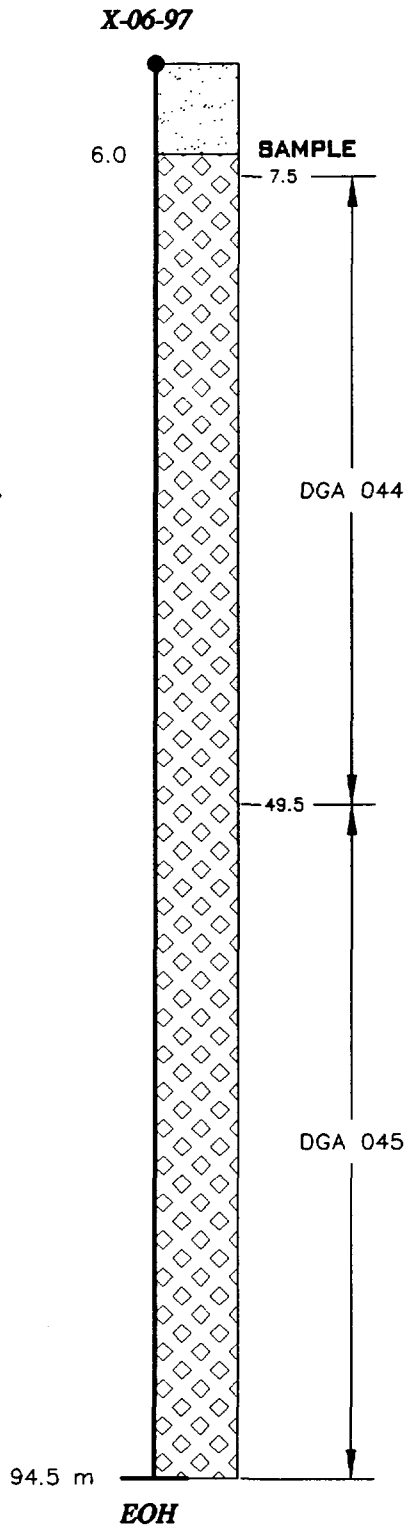
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-06-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L250E+465S</b>
<b>CLAIM :P1052269</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :7-MAR-97</b>
<b>Date :7-MAR-97</b>	<b>Completed :7-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-6.0	OVERBURDEN: Clay rich till with some carbonate clasts.
6.0-94.5	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
94.5	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-06-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L250E+465S*  
 Length of hole: *94.5 m*  
 Claim number: *P1052269*  
 Diameter of bit: *123.8 mm*

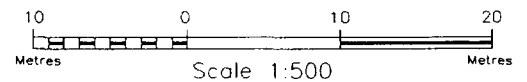
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA

XRAY KIMBERLITE

REVISION:	Date	Description	By	AUTHOR:	SCALE:
					1:500
				DRAWN:	FILE:
				A. Latendresse	X0697DH
				DATE:	N.T.S.
				11/06/97	43B/13

# MONOPROS LIMITED

## DRILL LOG

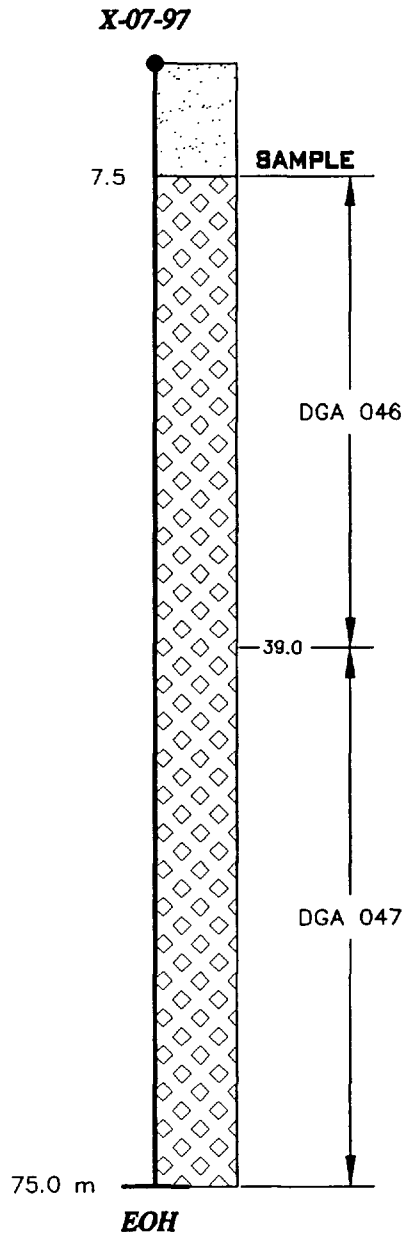
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-7-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L250E+400S</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :6-MAR-97</b>
<b>Date :6-MAR-97</b>	<b>Completed :6-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-7.5	OVERBURDEN: Clay rich till with some carbonate clasts.
7.5-75.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
75.0	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-07-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L250E+400S*  
 Length of hole: *75.0 m*  
 Claim number: *P1052266*  
 Diameter of bit: *114.3 mm*

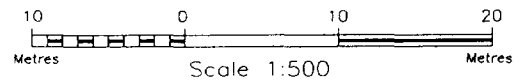
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA

XRAY KIMBERLITE

REVISION: Date	Description	By	AUTHOR:	SCALE: 1:500
			DRAWN: A. Latendresse	FILE: X0797DH
			DATE: 11/06/97	N.T.S. 43B/13

# MONOPROS LIMITED

## DRILL LOG

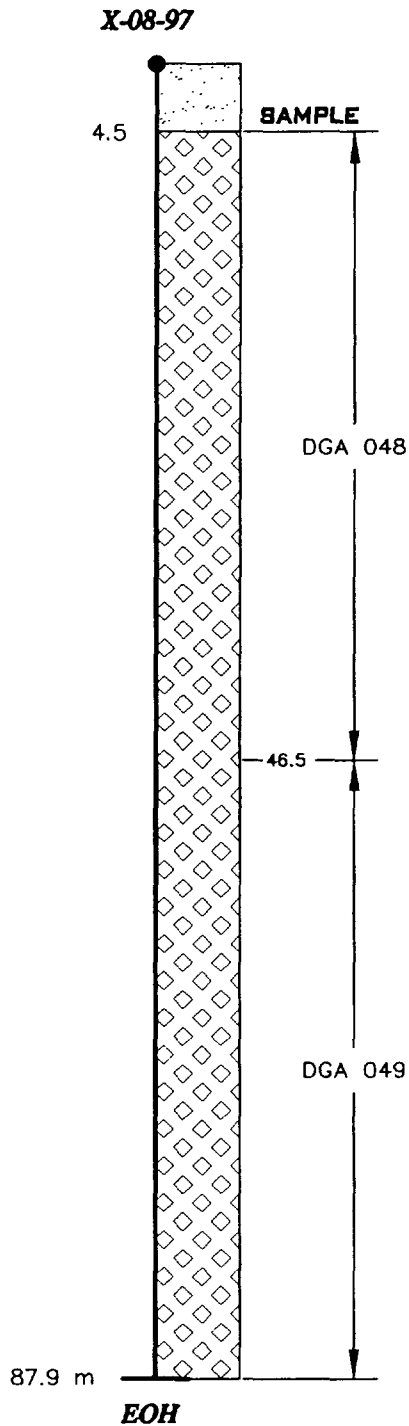
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-08-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L250E+370S</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :8-MAR-97</b>
<b>Date :8-MAR-97</b>	<b>Completed :8-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-4.5	OVERBURDEN: Clay rich till with some carbonate clasts.
4.5-87.9	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
87.9	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-08-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L250E+370S*  
 Length of hole: *87.9 m*  
 Claim number: *P1052266*  
 Diameter of bit: *123.8 mm*

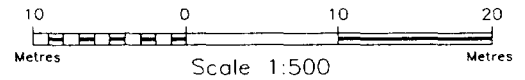
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA

XRAY KIMBERLITE

REVISION:	DESCRIPTION:	BY:	AUTHOR:	SCALE:
				1:500
			DRAWN: A. Latendresse	FILE: X0897DH
			DATE: 11/06/97	N.T.S. 43B/13



# MONOPROS LIMITED

## DRILL LOG

<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-09-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :</b>
<b>Date :</b>	<b>Completed :</b>
<b>Storage Location :</b>	

**Depth (m)**

**DESCRIPTION**

	This drill hole was proposed, but not drilled.
--	--

# MONOPROS LIMITED

## DRILL LOG

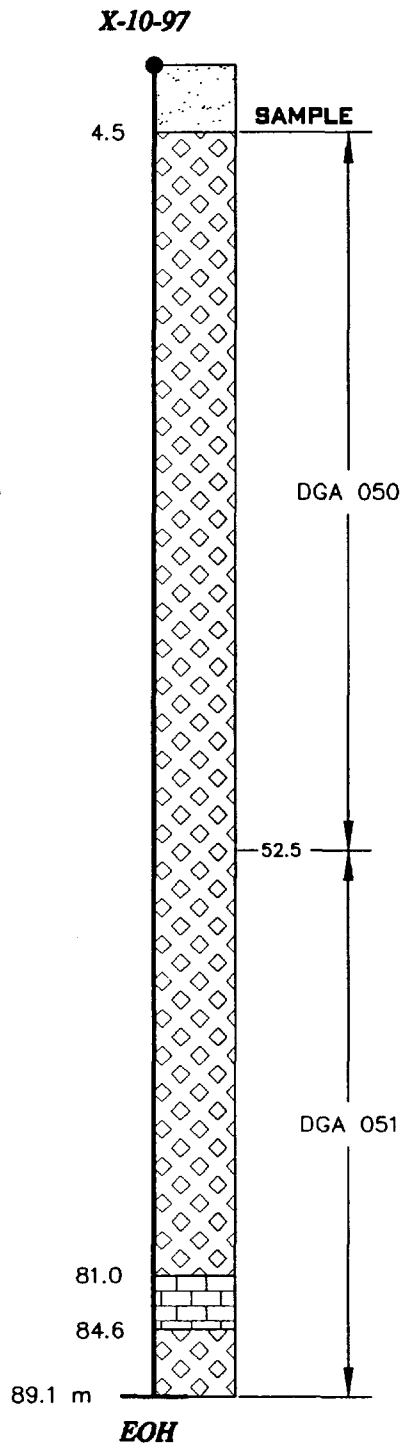
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-10-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L275E+425S</b>
<b>CLAIM :P1052269</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :11-MAR-97</b>
<b>Date :11-MAR-97</b>	<b>Completed :11-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-4.5	OVERBURDEN: Clay rich till with some carbonate clasts.
4.5-81.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
81.0-84.6	LIMESTONE
84.6-89.1	LIMESTONE: Fine stringers of kimberlite.
89.1	EOH

# DRILL HOLE SECTION



Hole number: *X-10-97*  
 Angle of hole: *-90°*  
 Position on grid: *L275E+425S*  
 Length of hole: *89.1 m*  
 Claim number: *P1052269*  
 Diameter of bit: *123.8 mm*

## LEGEND



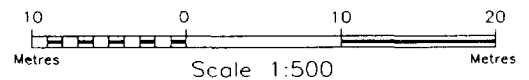
OVERBURDEN



KIMBERLITE



LIMESTONE



## MONOPROS LIMITED

*DRILLING 1997*

ATTAWAPISKAT RIVER AREA

**XRAY KIMBERLITE**

REVISION:	DESCRIPTION:	AUTHOR:	SCALE:
			1:500
		DRAWN:	FILE:
		A. Lotendresse	X1097DH
		DATE:	N.T.S.
		11/05/97	43B/13

# MONOPROS LIMITED

## DRILL LOG

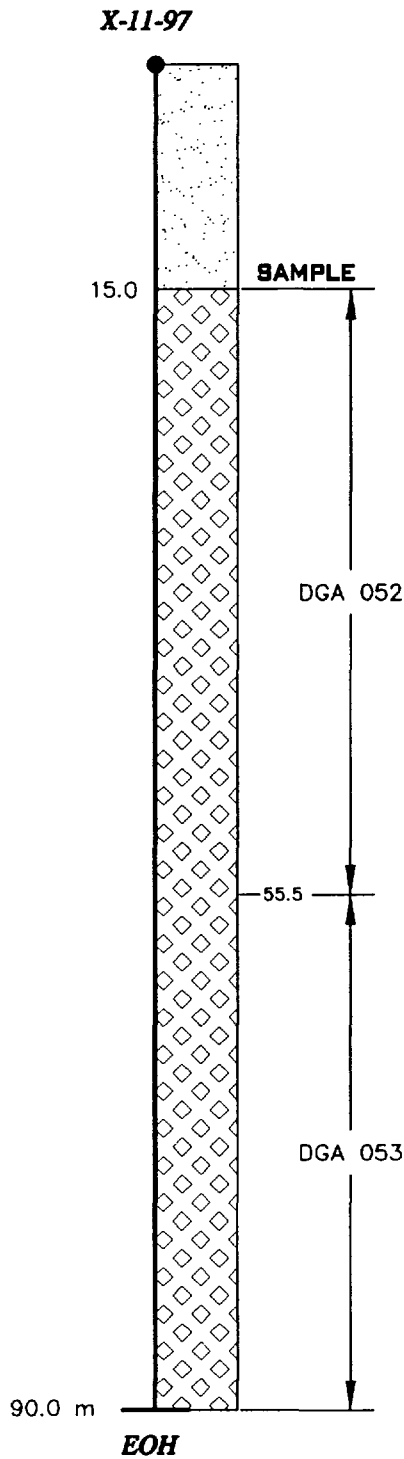
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-11-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L210E+400N</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :10-MAR-97</b>
<b>Date :10-MAR-97</b>	<b>Completed :10-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-15.0	OVERBURDEN: Clay rich till with some carbonate clasts.
15.0-90.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
90.0	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-11-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L210E+400S*  
 Length of hole: *90.0 m*  
 Claim number: *P1052266*  
 Diameter of bit: *123.8 mm*

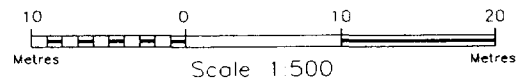
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA



XRAY KIMBERLITE

REVISION: Date	Description	By	AUTHOR:	SCALE: 1:500
			DRAWN: A. Latendresse	FILE: X1197DH
			DATE: 11/06/97	N.T.S. 43B/13

# MONOPROS LIMITED

## DRILL LOG

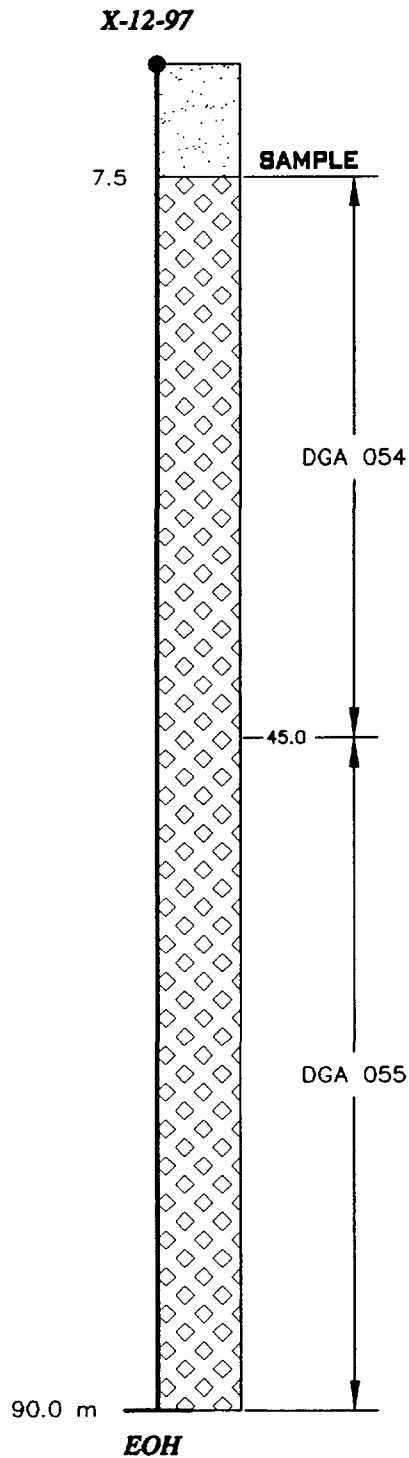
<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-12-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L300E+370S</b>
<b>CLAIM :P1052266</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :9-MAR-97</b>
<b>Date :9-MAR-97</b>	<b>Completed :9-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

**Depth (m)**

**DESCRIPTION**

0-7.5	OVERBURDEN: Clay rich till with some carbonate clasts.
7.5-90.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
90.0	END OF HOLE

# DRILL HOLE SECTION



Hole number: *X-12-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L300E+370S*  
 Length of hole: *90.0 m*  
 Claim number: *P1052266*  
 Diameter of bit: *114.3 mm*

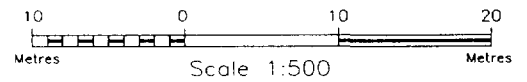
## LEGEND



OVERBURDEN



KIMBERLITE



## MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA

X XRAY KIMBERLITE

REVISION: Date	Description	By	AUTHOR:	SCALE: 1:500
			DRAWN: A. Latendresse	FILE: X1297DH
			DATE: 11/06/97	N.T.S. 43B/13

**MONOPROS LIMITED**

**DRILL LOG**

<b>AREA :ATTAWAPISKAT</b>	<b>HOLE # :X-13-97</b>
<b>NTS Sheet :43B/13</b>	<b>GRID :L300E+370S</b>
<b>CLAIM :P1052269</b>	<b>COORDS :</b>
<b>Contractor :BOART-LONGYEAR</b>	<b>ANGLE :-90</b>
<b>Drill Type :REVERSE CIRCULATION</b>	<b>Core :            Bearing : -</b>
<b>Logged By :C HETMAN</b>	<b>Started :9-MAR-97</b>
<b>Date :9-MAR-97</b>	<b>Completed :9-MAR-97</b>
<b>Storage Location :VAL D'OR</b>	

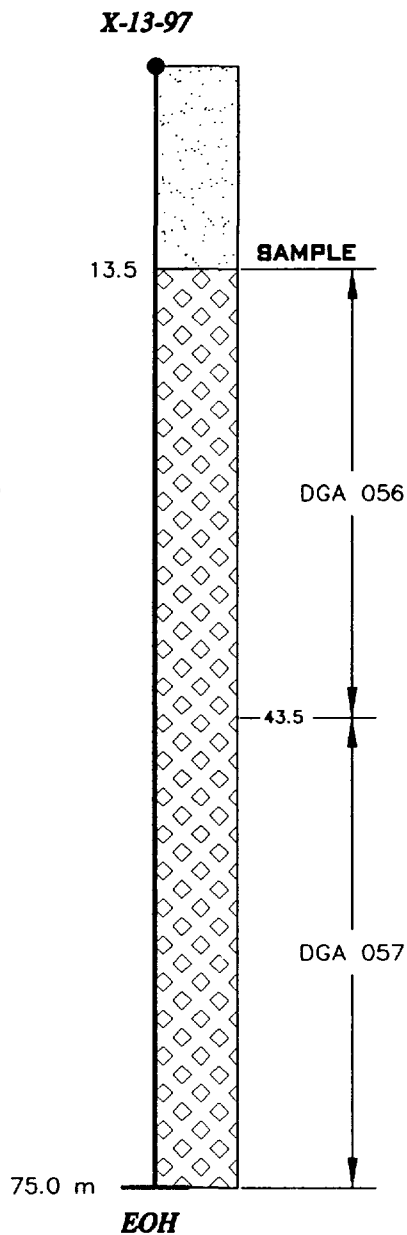
**Depth (m)**

**DESCRIPTION**

0-13.5	OVERBURDEN: Clay rich till with some carbonate clasts.
3.5-75.0	KIMBERLITE: Hypabyssal uniformly textured macrocrystic kimberlite.
75.0	END OF HOLE



# DRILL HOLE SECTION



Hole number: *X-13-97*  
 Angle of hole:  $-90^\circ$   
 Position on grid: *L350E+450S*  
 Length of hole: *75.0 m*  
 Claim number: *P1052269*  
 Diameter of bit: *123.8 mm*

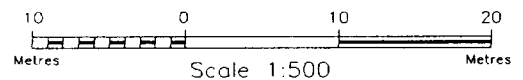
## LEGEND



OVERBURDEN



KIMBERLITE



# MONOPROS LIMITED

DRILLING 1997  
 ATTAWAPISKAT RIVER AREA



XRAY KIMBERLITE

REVISION	Date	Description	By	AUTHOR:	SCALE:
					1:500
				DRAWN:	FILE:
				A. Latendresse	X1397DH
				DATE:	N.T.S.
				11/06/97	43B/13

**APPENDIX B**

**MAPS**



Ministry of Northern Development and Mines

### Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

X-RAY

Transaction Number (office use) W9860.00084 Assessment Files Research Imaging
---



43B13SW2002 2.18134 527834

900

ity of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the 1 to review the assessment work and correspond with the mining land holder. ing Recorder, Ministry of Northern Development and Mines, 6th Floor.

**Instructions:** - For work performed on Crown Lands before recording a claim, use form 0240.  
- Please type or print in ink.

**1. Recorded holder(s) (Attach a list if necessary)**

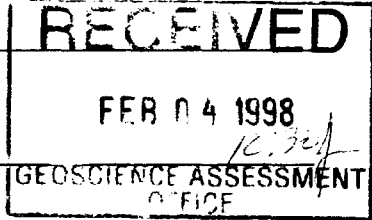
Name <u>JONATHAN ANTHONY FOWLER</u>	Client Number <u>133252</u>
Address <u>10 BAY STREET, SUITE 1510</u>	Telephone Number <u>(416) 363-2665</u>
<u>TORONTO ONTARIO M5J 2R8</u>	Fax Number <u>(416) 363-4278</u>
Name	Client Number
Address	Telephone Number
	Fax Number

**2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.**

- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling, stripping, trenching and associated assays       Rehabilitation

Work Type	Office Use
	Commodity
	Total \$ Value of Work Claimed <u>\$300,872</u> <u>(23,144 + 277,228)</u>
Dates Work Performed From <u>15</u> <u>01</u> <u>97</u> To <u>31</u> <u>03</u> <u>97</u>	NTS Reference
Global Positioning System Data (if available)	Mining Division <u>Porcupine</u>
Township/Area	Resident Geologist District <u>Timmins</u>
M or G-Plan Number <u>G-253</u>	

- Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- complete and attach a Statement of Costs, form 0212;  
- provide a map showing contiguous mining lands that are linked for assigning work;  
- include two copies of your technical report.



**3. Person or companies who prepared the technical report (Attach a list if necessary)**

Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

**4. Certification by Recorded Holder or Agent**

*Deemed. May 05/98*

I, JONATHAN ANTHONY FOWLER (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <u>Jonathan A. Fowler</u>	Date <u>3 February, 1998</u>
Agent's Address	Telephone Number
	Fax Number

5. Work to be recorded and distributed. Work that is performed on Crown Lands that are subsequently staked as a mining claim, can be claimed at 100% of its value (state this amount in column "a" below). If work is performed on Crown lands and not enclosed within a subsequently recorded claim, it can be claimed at 25% of its value (state this amount in column "b" below). Work can only be assigned to claims that are contiguous to (adjoining) the lands where work was performed at the time work was performed. A map showing the contiguous link must accompany this form.

1,9860.00084

Mining Claim Number	No. of Claims Units	Value of work performed before recording a mining claim		Value of work applied to this claim	Value of work assigned to other mining claims	Bank Value of work to be distributed at a later date
		(a) Work now within a claim. Show 100% of cost	(b) Work on adjacent Crown lands. Show 25% of cost.			
1234567	4	54000	5725	51000	5000	53305
1234568	2	N/A	N/A	5000	N/A	N/A
1 P1052265		0		2,400	0	0
2 P1052266		162,008		800	3,200	158,008
3 P1052267		23,144		800	0	22,344
4 P1052268		0		800	0	0
5 P1052269		92,576		400	2,400	89,776
6 P1052270		0		2,400	0	0
7 P1052709		0		800	0	0
8 P1052710		0		800	0	0
9 P1052713		23,144		800	2,400	19,944
10 P1052714		0		800	0	0
11						
12						
13						
14						
15						
Cumulative Totals		300,872		10,800	8,000	290,072

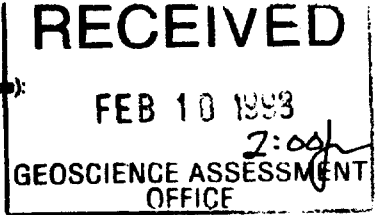
I, Jonathan Anthony Fowler, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Record Holder of right claimed in mining claim: Jonathan A. Fowler Date: 9 February 1998

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
CAMP SET UP + GEOPHYSICS + LINE CUTTING	11.0 km	900.57 <sup>¢</sup> /km	9,906.24
DRILLING	966.3 m	15.93 <sup>¢</sup> /m	15,396.62
GEOLOGISTS	2		22,922.94
PART TIME HELP	2		12,936.31
ANALYSES	24 SAMPLES	1,812.75 <sup>¢</sup> /SAMPLE	43,506.02
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
FIELD SUPPLIES			18,665.02
FREIGHT STORAGE + HANDLING			34,976.24
VEHICLE COSTS			577.35
TRAVEL EXPENSES			4,144.21
FIELD OFFICE EQUIPMENT			3,226.05
<b>Transportation Costs</b>			
FIXED WING (TWIN OTTER + TURBO BEAVER)			59,150.54
HELICOPTER (BELL 204)			74,552.75
<b>Food and Lodging Costs</b>			
			912.13

**RECEIVED**  
FEB 04 1998  
MINISTRY OF NORTHERN DEVELOPMENT AND MINES  
ASSESSMENT OFFICE

**RECEIVED**  
Total Value of Assessment Work  
FER 000000  
GEOSCIENCE ASSESSMENT OFFICE

300,872.43

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, JONATHAN ANTHONY FOWLER, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as RECORDED HOLDER I am authorized to make this certification.  
(please print full name)  
(recorded holder, agent, or state company position with signing authority)

Signature: Jonathan A. Fowler Date: 3 February 1998

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



May 6, 1998

JONATHAN ANTHONY FOWLER  
10 Bay Street  
Suite 1510  
Toronto, Ontario  
M5J 2R8

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5881

Dear Sir or Madam:

**Submission Number: 2.18134**

**Status**

**Subject: Transaction Number(s):** W9860.00084 Deemed Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at [jeromel2@epo.gov.on.ca](mailto:jeromel2@epo.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

Submission Number: 2.18134

Date Correspondence Sent: May 06, 1998

Assessor: Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9860.00084	1052266	527-834	Deemed Approval	May 05, 1998

Assessment work credit has been redistributed, as outlined on the attached Distribution of Assessment Work Credit sheet, to better reflect the location of the work.

*POVERB, ASSAY, MAG*

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

**Recorded Holder(s) and/or Agent(s):**

JONATHAN ANTHONY FOWLER  
Toronto, Ontario

Assessment Files Library  
Sudbury, ON

# Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

**Date:** May 06, 1998

**Submission Number:** 2.18134

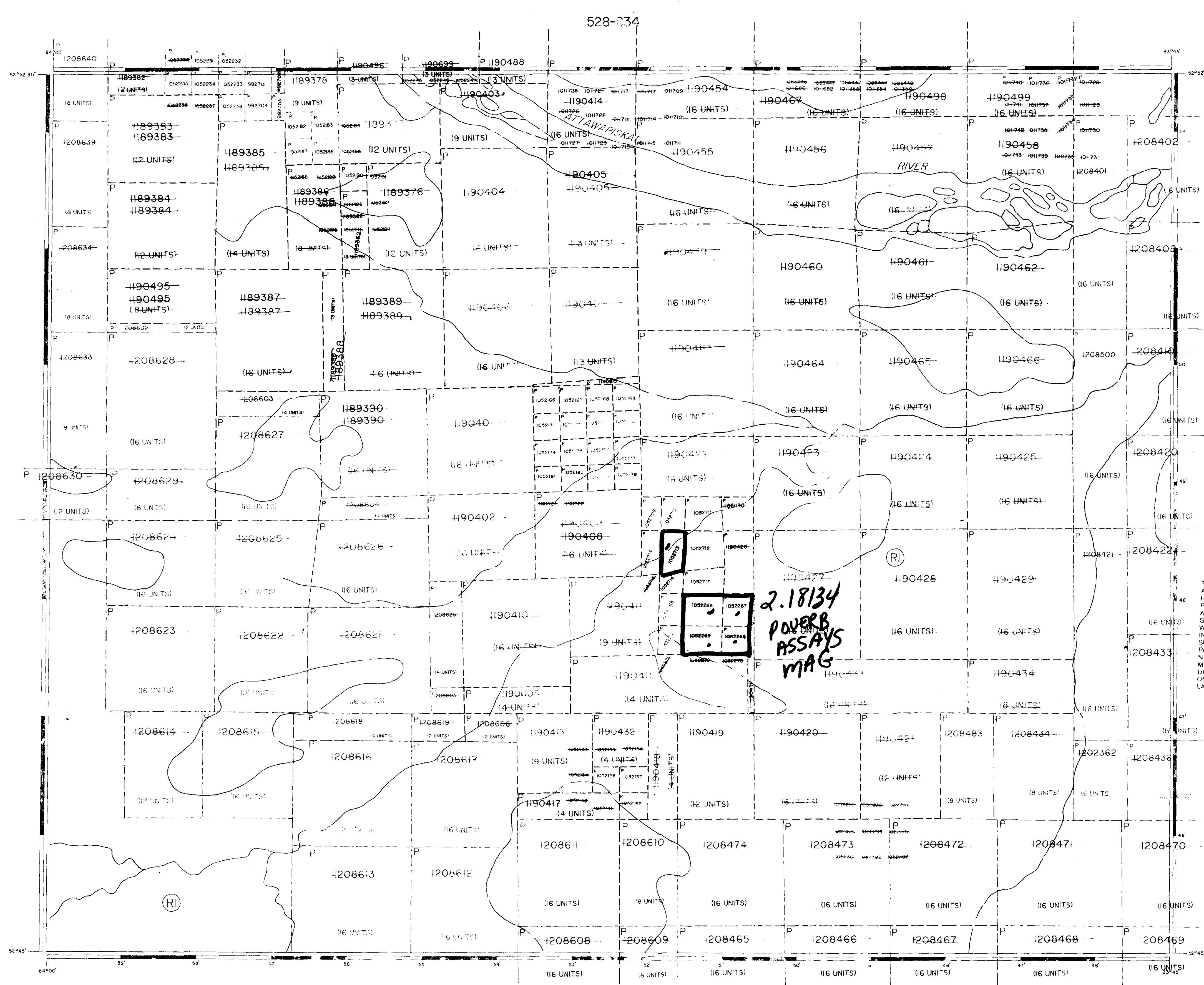
---

**Transaction Number:** W9860.00084

<u>Claim Number</u>	<u>Value Of Work Performed</u>
1052266	161,500.00
1052267	23,000.00
1052269	92,000.00
1052268	1,372.00
1052713	23,000.00
	<hr/>
<b>Total: \$</b>	<b>300,872.00</b>

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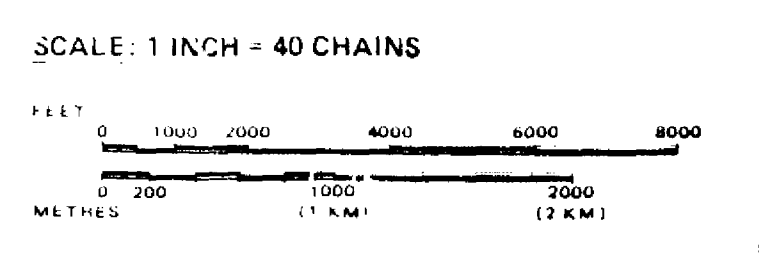
**LEGEND**

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED 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 6, 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 83, SUBSEC. 1.



**AREAS WITHDRAWN FROM DISPOSITION**

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.F.S. - MINING AND SURFACE RIGHTS				

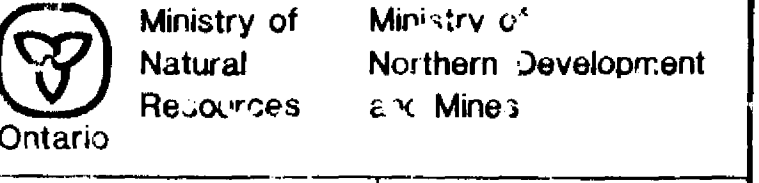
Ⓢ PENDING APP. FOR EXPLORATORY LICENCE OF NATURAL GAS (REG. 765) MNR

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.

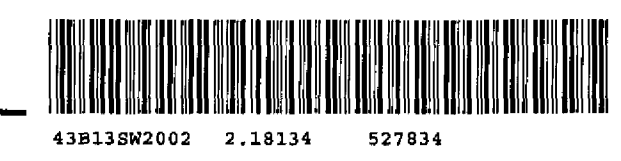
RECEIVED: DECEMBER, 1987

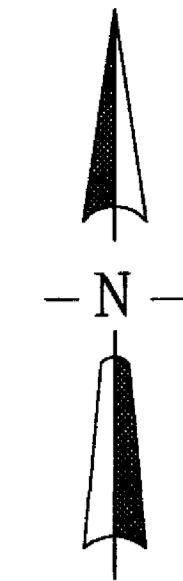
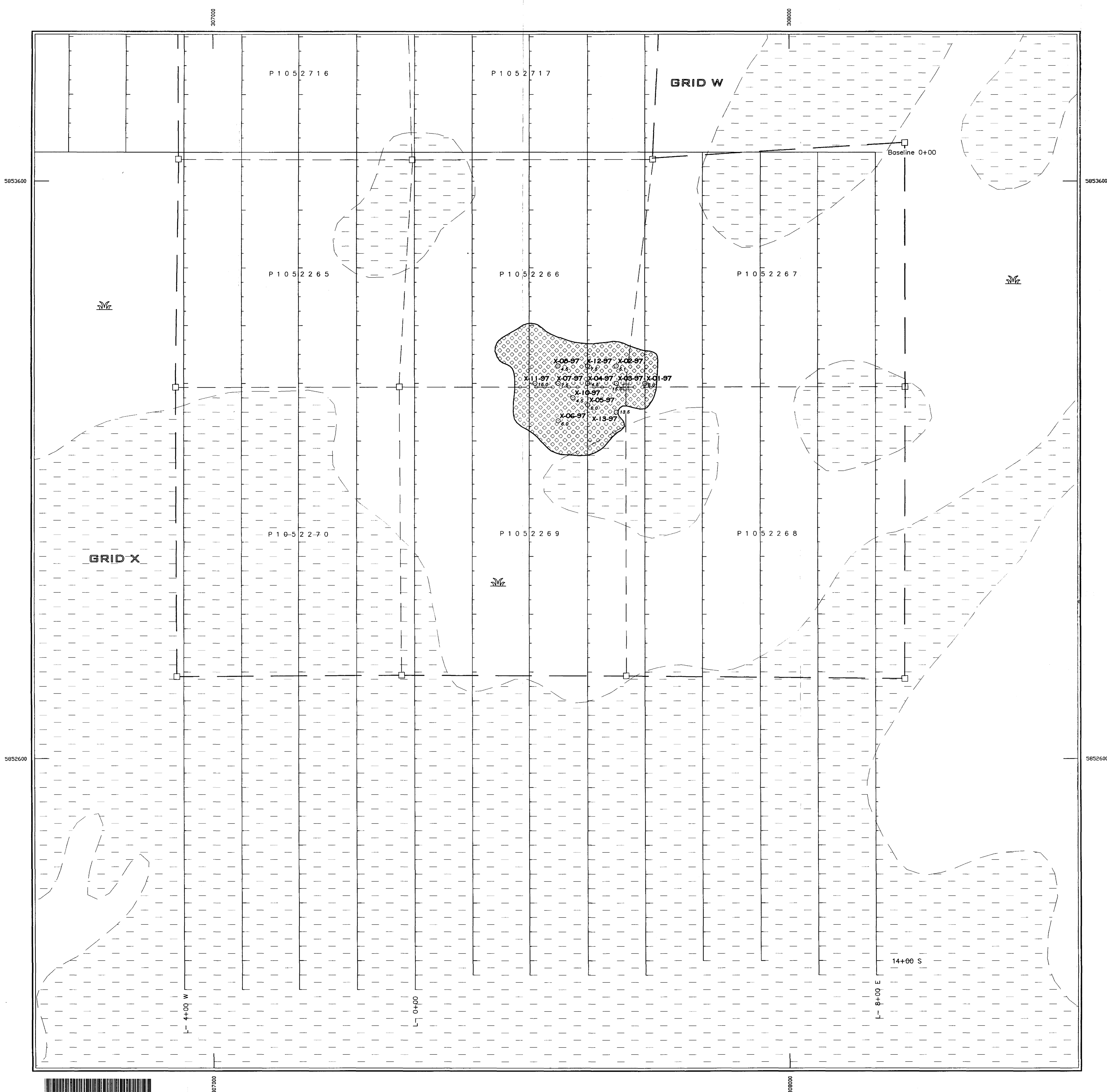
**AREA**  
**527-834**

M.M.S. ADMINISTRATIVE DISTRICT  
**MOOSONEE**  
MINING DIVISION  
**FORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**KEHORA/PATRICIA PORTION**


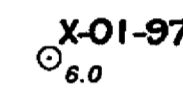


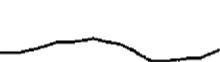
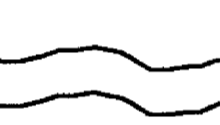



Date: NOVEMBER, 1987  
Number: **G-1253**



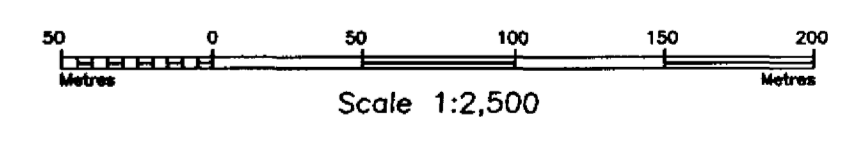


**LEGEND**

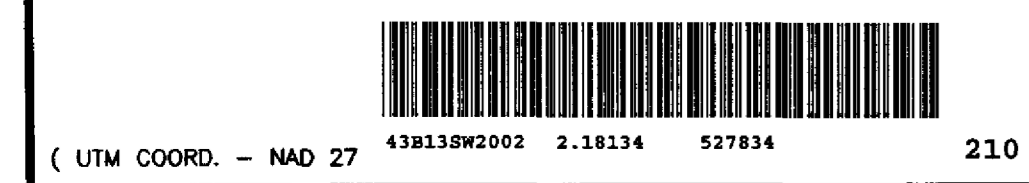
-  Outline of kimberlite  
Surface area - 4,23 ha
-  Diamond drill hole  
Overburden depth
-  Swamp
-  String bog
-  Creek
-  River
-  Claim post

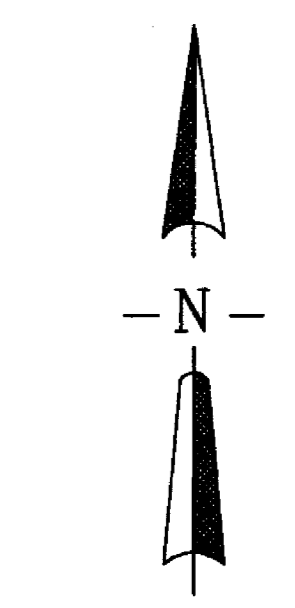
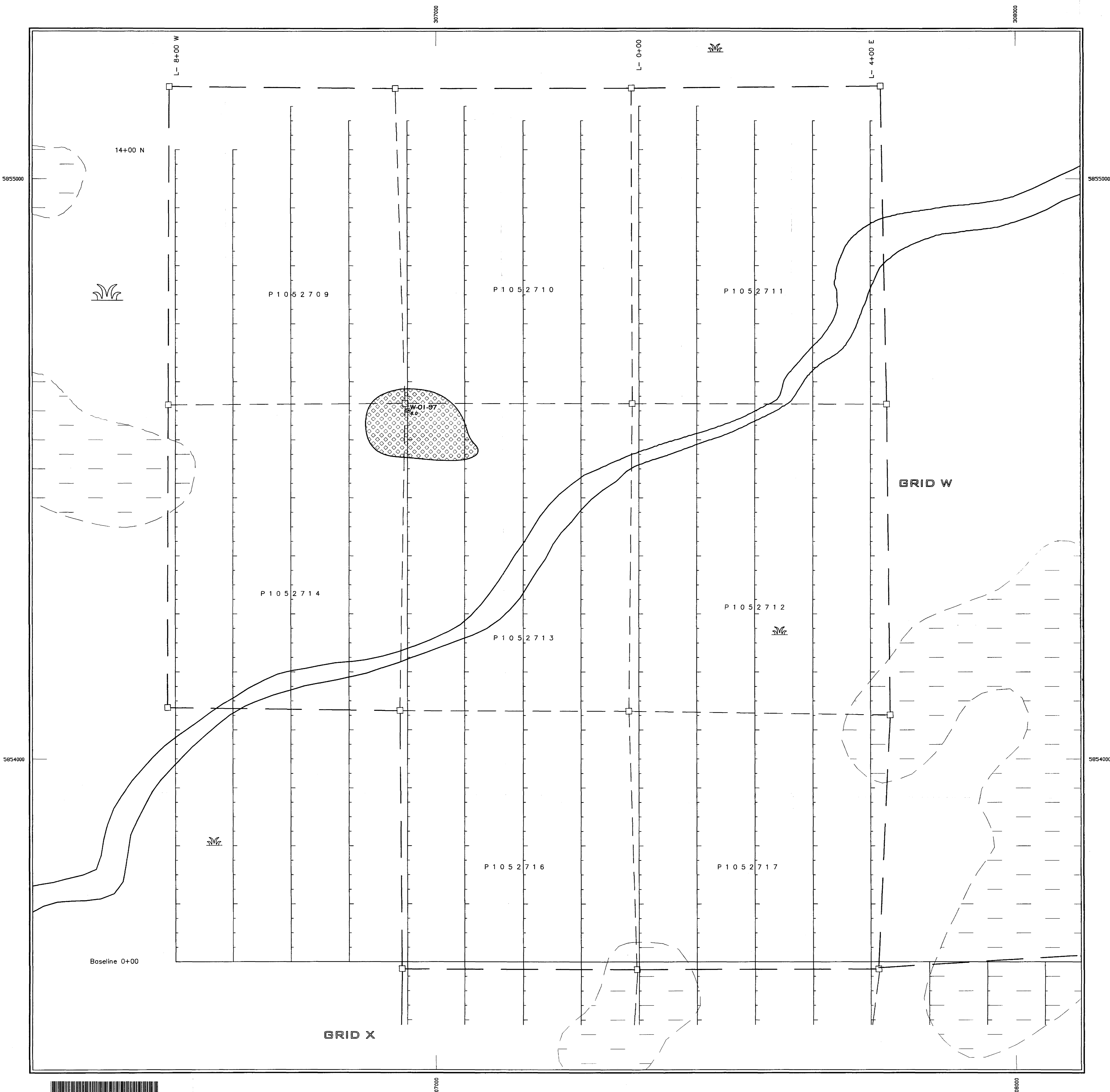
2.10134

DRB

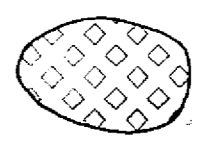
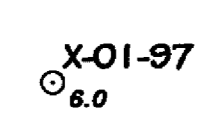







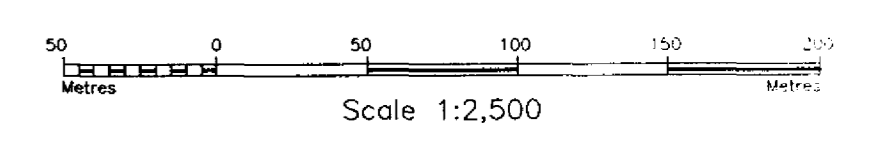
<b>MONOPROS LIMITED</b>			
ATTAWAPISKAT RIVER AREA X-RAY KIMBERLITE			
DRILL HOLE LOCATION MAP			
REGION	DESCRIPTION	BY	AUTHOR
			A. Latendresse
DATE	01/14/98	SCALE	1:2,500
		FILE	Locat_x.DWG
		NTS	43B/13





**LEGEND**

-  Outline of kimberlite
-  Diamond drill hole  
Overburden depth
-  Swamp
-  String bog
-  Creek
-  River
-  Claim post



**MONOPROS LIMITED**

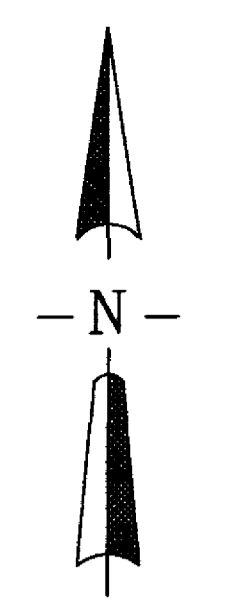
ATTAWAPISKAT RIVER AREA  
WHISKEY KIMBERLITE

**DRILL HOLE LOCATION MAP**

REGION	DRAWN	DATE	SCALE
Attawapiskat	A. Latendresse	01/16/98	1:2,500
PROJECT	FILE	NTS	
Whiskey Kimberlite	Locat_w.DWG	43B/13	

307000

308000



### LEGEND

□ Claim post

#### Magnetic Survey Specifications

Mobile Instrument: GEM GSM19 V5.0 Walkn  
 Instrument: Normal Mobile Mode  
 Instrument Mode: Total Magnetic Intensity (nT)  
 Measure Type: 12.5 metres  
 Reading Interval: Casey Helman  
 Operator(s): Monopros Limited  
 Contractor: February 2, 1997  
 Date(s) Surveyed: Schintrex/EDA Omni IV  
 Instrument: Manual (Visual)  
 Synchronization: 20 seconds  
 Reading Interval: Pos: -50, Line: 1  
 Base Station Location: Reference Datum: 0 nT

Type: Transverse Mercator

#### Datum and Projection

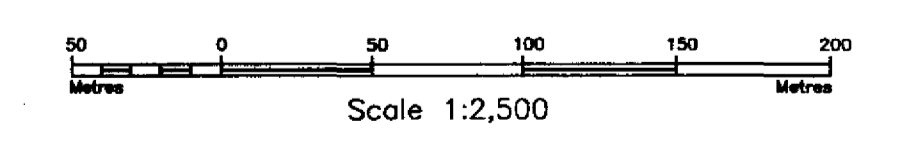
Datum	Projection
Datum: Canada NAD 1927	Projection: Transverse Mercator
Major Axis: 6378206.400	Scale Factor: 0.9996
Eccentricity: 0.082271854	False Easting: 500000
Delta X: 10	False Northing: 0
Delta Y: -158	Base Parallel: 0
Delta Z: -187	South Parallel: 0
	North Parallel: 0

#### Survey Grid Control Points

Point #	Local Grid	Geographic
1	150E, -350N	307613E, 5853517N

#### Survey Grid Specifications

Company: Monopros Limited  
 Traverse Interval: 50 m  
 Picket Interval: 12.5 m  
 XYZ data file: x\_corr.xyz  
 Z column: 3  
 Grid Cell Size: 3 m



**MONOPROS LIMITED**

ATTAWAPISKAT RIVER AREA  
X-RAY KIMBERLITE

**GROUND MAGNETIC SURVEY**  
TOTAL MAGNETIC FIELD READINGS

REVISION	Drawn by	DATE	SCALE
	A. Lotendresse	11/16/97	1:2,500
			FILE
			Data_x.dwg
			R.T.S.
			43B/13

*DRB*

GRID W

GRID X

P 105 2 7 1 6

P 105 2 7 1 7

P 105 2 2 6 7

P 105 2 2 6 5

P 105 2 2 7 0

P 105 2 2 6 8

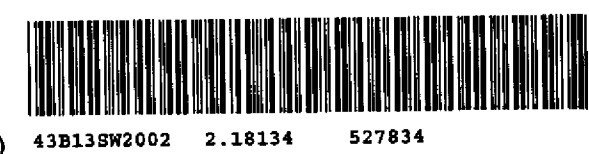
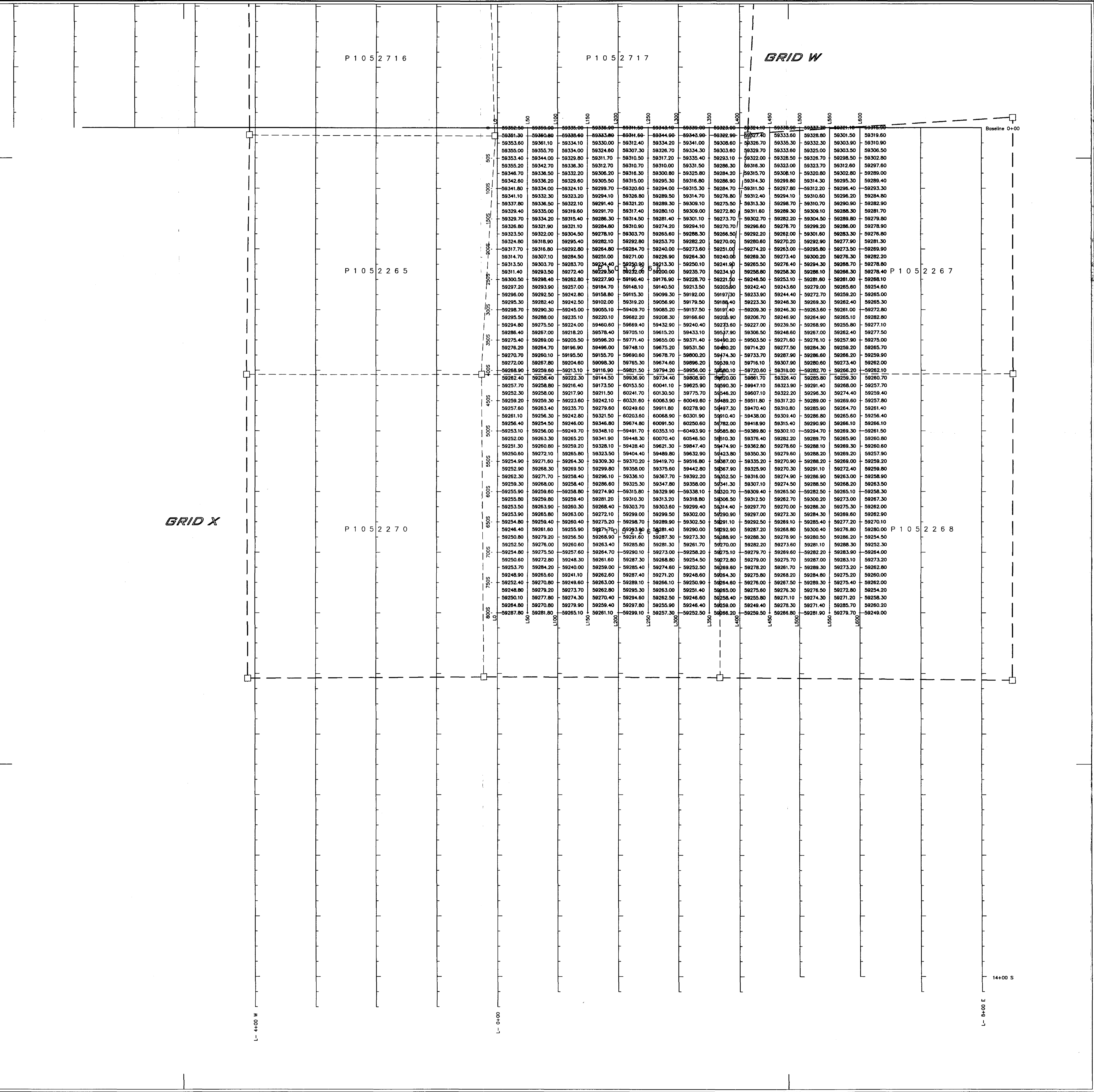
Baseline 0+00

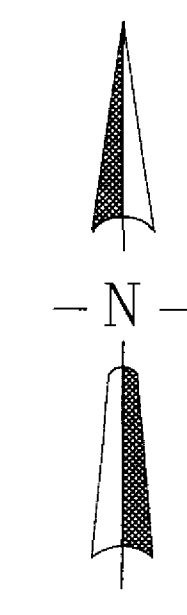
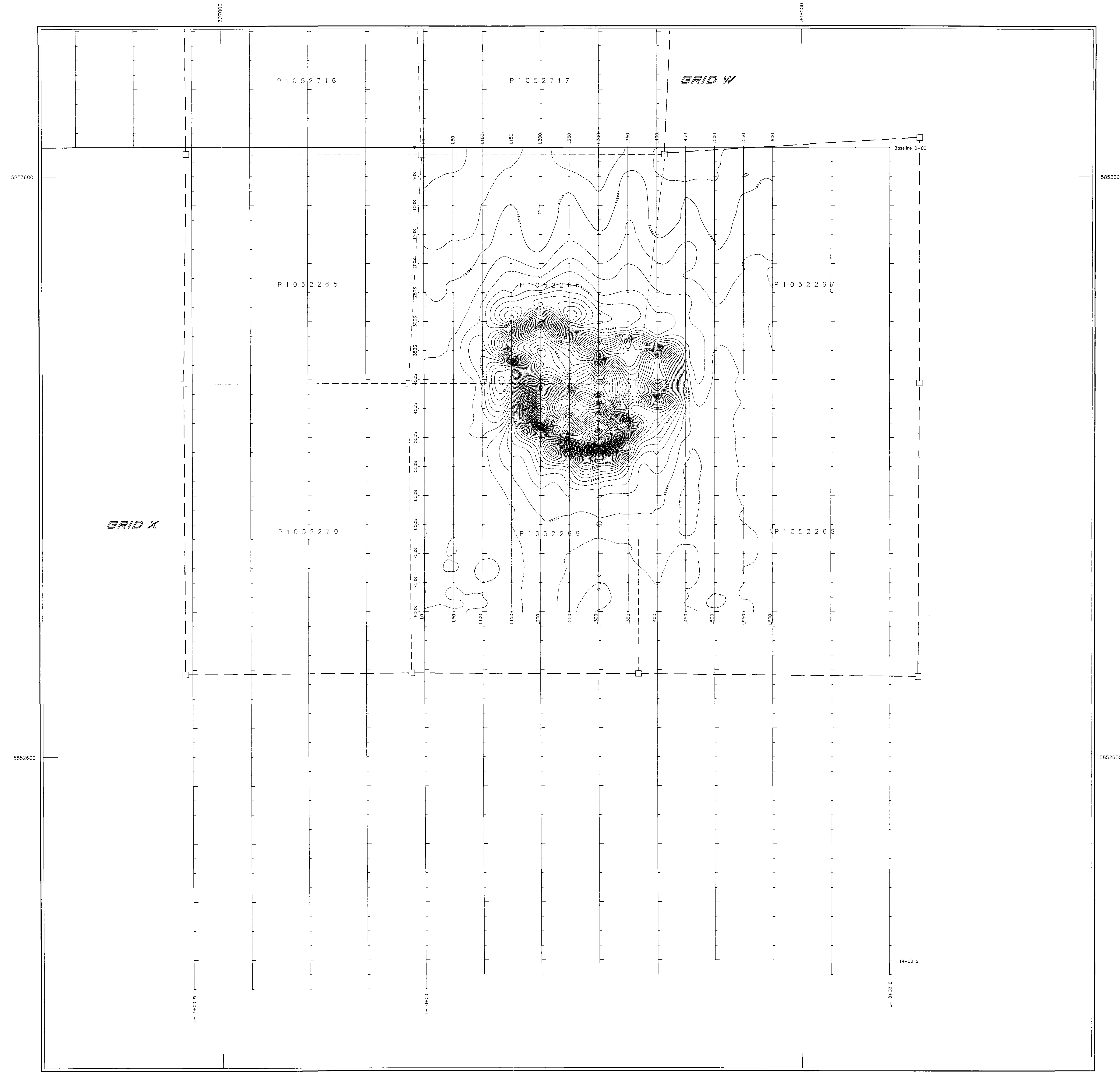
14400 S

L- 4+00 W

L- 0+00

L- 0+00





**LEGEND**

□ Claim post

Magnetic Survey Specifications

Mobile Instrument: CEM GSM19 V5.0 Walkm  
 Instrument Mode: Normal Mobile Mode  
 Measure Type: Total Magnetic Intensity (nT)  
 Reading Interval: 12.5 metres  
 Operator(s): Casey Hietman  
 Contractor: Monopros Limited  
 Date(s) Surveyed: February 2, 1997  
 Base Station: Schintrex/EDA Omni IV  
 Synchronization: Manual (Visual)  
 Reading Interval: 20 seconds  
 Base Station Location: Pos: -50, Line: 1  
 Reference Datum: 0 nT

Datum and Projection

Datum	Projection
Datum: Canada NAD 1927	Type: Transverse Mercator
Major Axis: 6378206.400	Scale Factor: 0.9996
Eccentricity: 0.082271854	False Easting: 500000
Delta X: 10	False Northing: 0
Delta Y: -158	Base Parallel: 0
Delta Z: -187	South Parallel: 0
	North Parallel: 0

Survey Grid Control Points

Point #	Local Grid	Geographic
1	150E, -350N	307613E, 5853517N

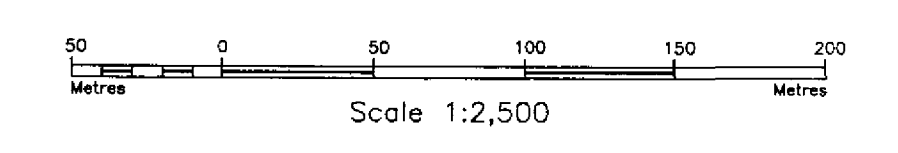
Survey Grid Specifications

Company: Monopros Limited  
 Traverse Interval: 50 m  
 Picket Interval: 12.5 m  
 XYZ data file: x\_corr.xyz  
 Z column: 3  
 Grid Cell Size: 3 m

Total Magnetic Intensity

nT  
 ----- 25 -----  
 ----- 100 -----

DR15



<b>MONOPROS LIMITED</b>			
ATTAWAPISKAT RIVER AREA X-RAY KIMBERLITE			
GROUND MAGNETIC SURVEY TOTAL MAGNETIC FIELD CONTOURS			
SCALE	1:2,500	DATE	01/14/98
DRAWN BY	A. Latendresse	FILE	Cont_x.dwg
DATE	01/14/98	PLT	43B/13

