



42A09SE9005 51 MUNRO

010

DIAMOND DRILLING

TWP/AREA MUNRO

REPORT NO. 51

WORK PERFORMED FOR: DAVID J. MEUNIER

RECORDED HOLDER: SAME AS ABOVE
: OTHER

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
783733	MM 90-01	376.7m	Sept. 28/90	(1)
783734	MM 90-02	230.4m	Oct. 3/90	
783734	MM 90-02	369.4m	Oct. 11/90	

NOTES: (1) 9380.00238

REPORT ON 1990 DIAMOND DRILLING
MEUNIER OPTION
MUNRO, MCCOOL, MICHAUD
AND GUIBORD TOWNSHIPS

LARDER LAKE MINING DIVISION, ONTARIO
NTS 42A/9

M. Kenneth Kryklywy, P.Eng.
American Barrick Resources Corporation
Kirkland Lake, Ontario
November, 1990

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Surface Plan of Diamond Drilling and Interpreted Geology (1:500)		
Diamond Drill Section	L 34+00W	(1:500)
Diamond Drill Section	L 35+00W	(1:500)
Diamond Drill Section	L 36+00W	(1:500)

SUMMARY

In September, 1990, American Barrick Resources optioned 67 claims along the Pipestone Fault (a splay of the Destor Porcupine Fault Zone) from David Meunier of Timmins. Barrick diamond drilled 3 holes totalling 967.6m to test downdip from 3 closely spaced holes previously drilled by Canamax Resources which intersected anomalous to ore-quality gold values in well altered, mineralized zones within an ultramafic flow-chloritic-graphitic tuff contact zone. The 1990 drilling by Barrick intersected two zones, however, the assay results were all low. No further work is recommended.

NOTE: Drill core is stored at KIRKLAND LAKE Core Library as per
phone call to D. Meunier Oct 14/93
R/S.

INTRODUCTION:

In September 1990, American Barrick Resources Corporation of Kirkland Lake, Ontario, optioned 67 claims in Munro, McCool, Guibord and Michaud Townships from David Meunier of South Porcupine, Ontario. The claims were optioned to follow-up some favourable diamond drilling results by Canamax Resources in 1986-87 in which one of their holes intersected 2.69g/t Au over an interpreted true width of 2.6m in highly altered, veined, mineralized komatiitic and tuffaceous rock. In September - October 1990, American Barrick did follow-up diamond drilling within this zone. The following report outlines this work.

LOCATION AND ACCESS:

The claims are situated at the junction of Munro, McCool, Guibord and Michaud Townships in the Larder Lake Mining Division (Figs. 1,2). They are located 10 miles east of Matheson or 18 miles west of American Barrick's Holt-McDermott Mine and are easily accessible by Highway 101 which crosses the property. The drilling area can be approached from the north by using the Hedman Mine Road and then a network of old logging roads.

CLAIM STATUS:

The property consists of 67 contiguous claims in Munro, McCool, Guibord and Michaud Townships (Fig. 3). The following chart outlines the status of the claims.

**MEUNIER PROJECT
STATUS OF CLAIMS**

<u>Claim Number</u>	<u>Township</u>	<u>Date Recorded</u>	<u>Status of Claim</u>
L 737677	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 737678	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 737679	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 737680	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 758895	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 758896	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 758897	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 758898	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 758899	Guibord	18/01/84	Ext. to Lease applied to 18/07/91

<u>Claim Number</u>	<u>Township</u>	<u>Date Recorded</u>	<u>Status of Claim</u>
L 758900	McCool	18/01/84	Ext. to Lease applied to 18/07/91
L 758901	McCool	18/01/84	Ext. to Lease applied to 18/07/91
L 758902	McCool	18/01/84	Ext. to Lease applied to 18/07/91
L 783656	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783657	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783658	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783659	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783660	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783661	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783662	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783663	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783664	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783665	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783666	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783667	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783673	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783674	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783675	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783676	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783677	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783678	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783679	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783680	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783681	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783682	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783683	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783684	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783685	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783686	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 783687	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 783688	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 783689	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 783690	Guibord	18/01/84	Ext. to Lease applied to 18/07/91
L 783691	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783692	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783693	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783694	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783695	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783696	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783697	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783698	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783727	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783728	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783729	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783730	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783731	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783732	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783733	Munro	18/01/84	Ext. to Lease applied to 18/07/91

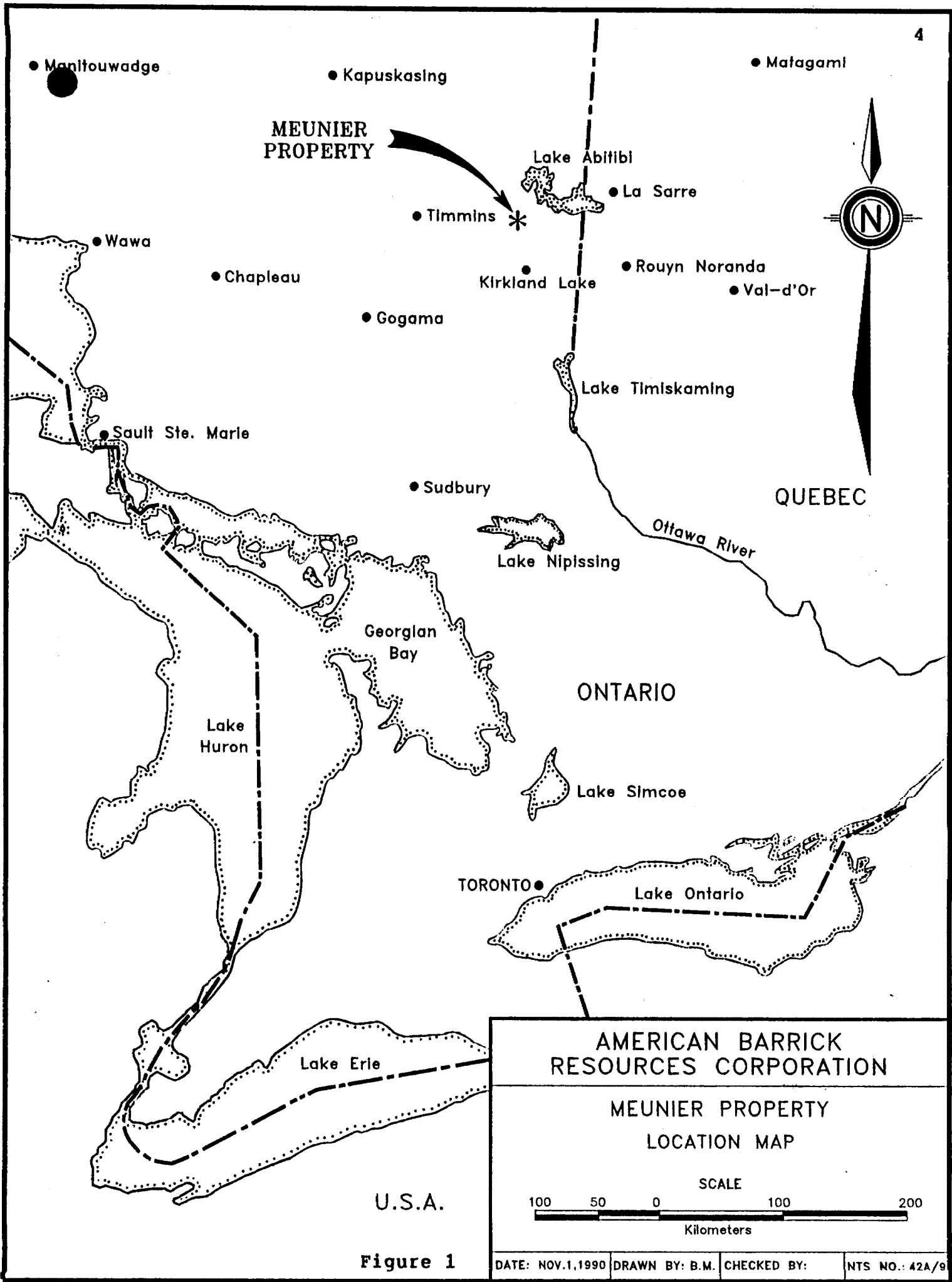
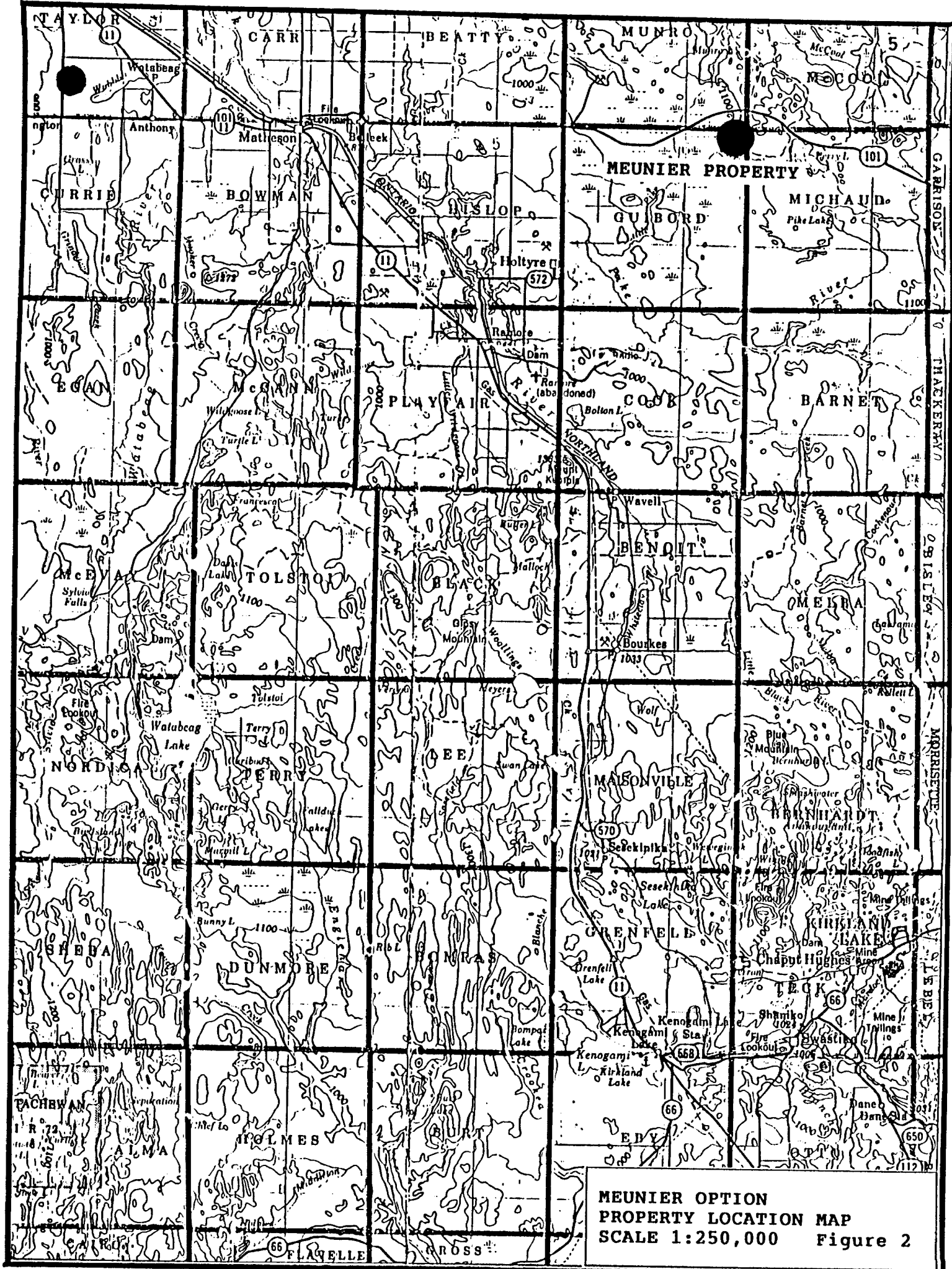
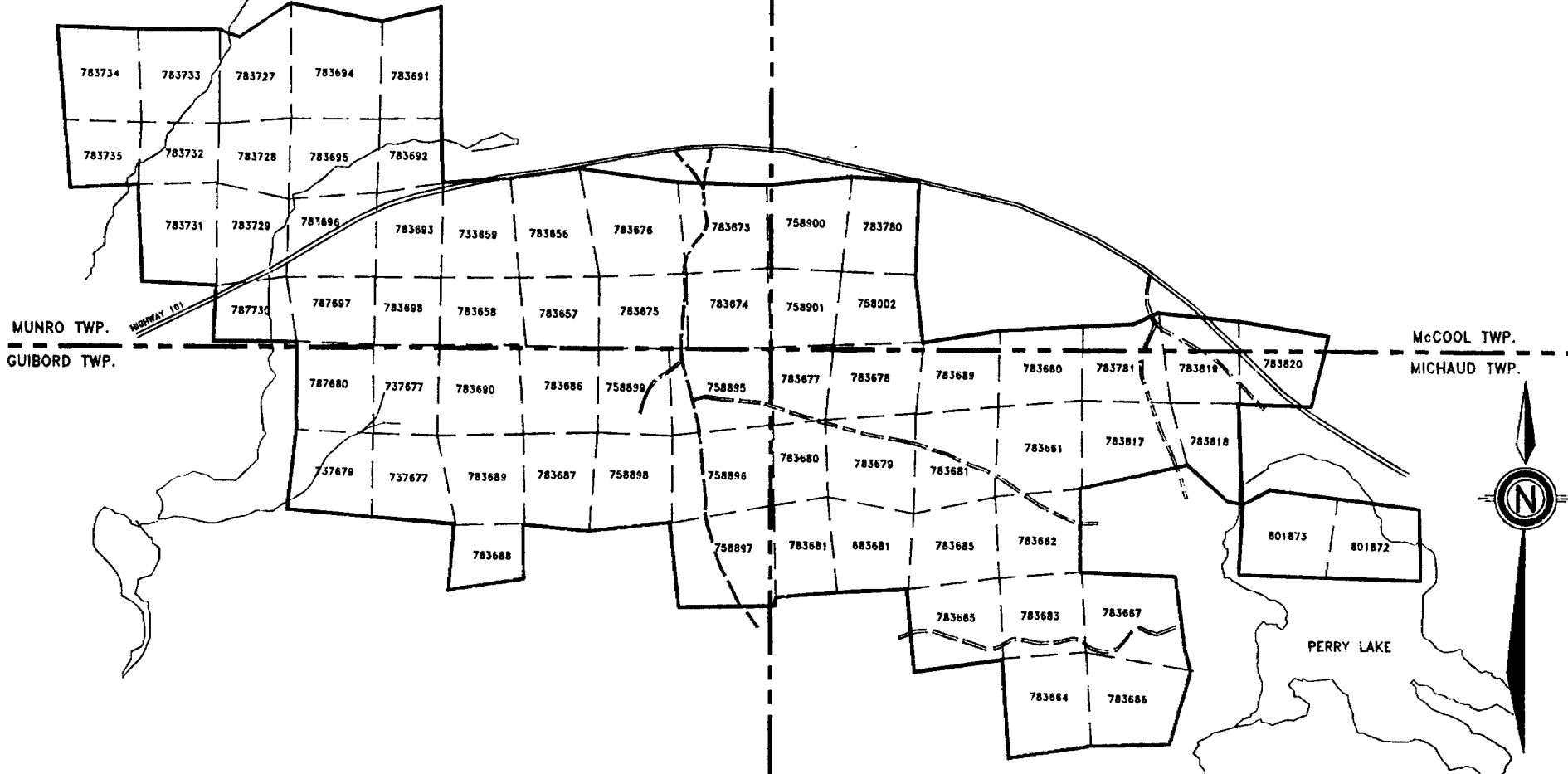


Figure 1



MEUNIER OPTION
 PROPERTY LOCATION MAP
 SCALE 1:250,000 Figure 2



**AMERICAN BARRICK
RESOURCES CORPORATION**

**MEUNIER OPTION
CLAIM MAP
FIGURE 3**

SCALE 1" = 1/2 MILE

0 1/4 1/2 1 2
MILES

DATE: NOV.14.1990 DRAWN BY: B.M CHECKED BY: K.K. NTS NO.: 42A/9

<u>Claim Number</u>	<u>Township</u>	<u>Date Recorded</u>	<u>Status of Claim</u>
L 783734	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783735	Munro	18/01/84	Ext. to Lease applied to 18/07/91
L 783780	McCool	18/01/84	Ext. to Lease applied to 18/07/91
L 783781	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783817	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783818	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783819	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 783820	Michaud	18/01/84	Ext. to Lease applied to 18/07/91
L 801872	Michaud	23/05/84	Ext. to Lease applied to 23/05/91
L 801873	Michaud	23/05/84	Ext. to Lease applied to 23/05/91

PHYSIOGRAPHY:

The topography is relatively flat and is covered by mixed forest of spruce, pine, poplar and birch. Some outcrop exposure occurs in the northeast corner and along the southern boundary of the property, however, the majority of the claims are covered by sands of the Munro Esker system varying up to 200m in thickness.

PREVIOUS WORK:

The most pertinent work on or near the property is listed as follows:

- 1950: Canadian Johns Manville Co. drilled a 386 ft hole just south of the property in Guibord Township near the Guibord-Michaud Township boundary. Low results were encountered.
- 1965: Canadian Johns Manville Co. drilled 7 holes totalling 3242 ft in the eastern part of Munro and Guibord Townships near the township boundary. Four of the holes were drilled into the current Meunier claims and 3 holes were drilled along strike just to the west of the claims. All but one of the holes intersected narrow sheared and/or altered zones. The best gold intersection was 0.05 oz/t Au over 2.5 ft in a hole drilled to the west of the property near the southern ultramafic-mafic volcanic contact.

- 1984: Labrador Mining and Exploration did linecutting, ground MAG and horizontal loop EM over the claims.
- 1986-87: Canamax Resources did detailed mapping and sampling and drilled 7 holes totalling 5581 ft in the northwest part of the property. Their best intersection was 2.69 g/t Au over 3.00m core length. As well, Canamax drilled 5 holes totalling 3901 ft on the Lalonde claims to the west along strike of the Meunier property. The best assay from this drilling was 0.82 g/t Au.
- 1988-89: Corona Corporation drilled 7 holes totalling 3884 ft to test along strike from the Canamax drilling and to test new horizons identified by I.P. Surveys on the western half of the claims. Much faulting and deformation was noted in the drillcore, however alteration was weak and gold values were negligible.

GEOLOGY:

REGIONAL GEOLOGY

The volcanic rocks of the Meunier claim group are of Archean age and belong to the Superior Province of the Canadian Shield. The stratigraphy of the Abitibi Belt has been subdivided as follows (Jensen, 1985). (Fig. 4):

)	Timiskaming Group
UPPER)	Blake River Group
SUPERGROUP)	Kinojevis Group
)	Stoughton-Roquemaure Group
)	Porcupine Group
LOWER)	Hunter Mine Group (Skead Group Equivalent)
SUPERGROUP)	Catherine Group
)	Wabewawa Group

The two supergroups represent successive volcanic cycles from ultrabasic komatiitic volcanism to acid calcalkalic volcanism. Each cycle is topped by a dominantly sedimentary (tuffaceous) sequence which reflects relative quiescence in extrusive activity.

The tectonic regime in which the majority of these rocks are located is one of regional subsidence. The formation of a broad, east-trending synclinal basin is attributed to this subsidence. The Destor-Porcupine Fault Complex forms the north boundary of this basin, and the south side is marked by the Larder Lake Fault Complex.

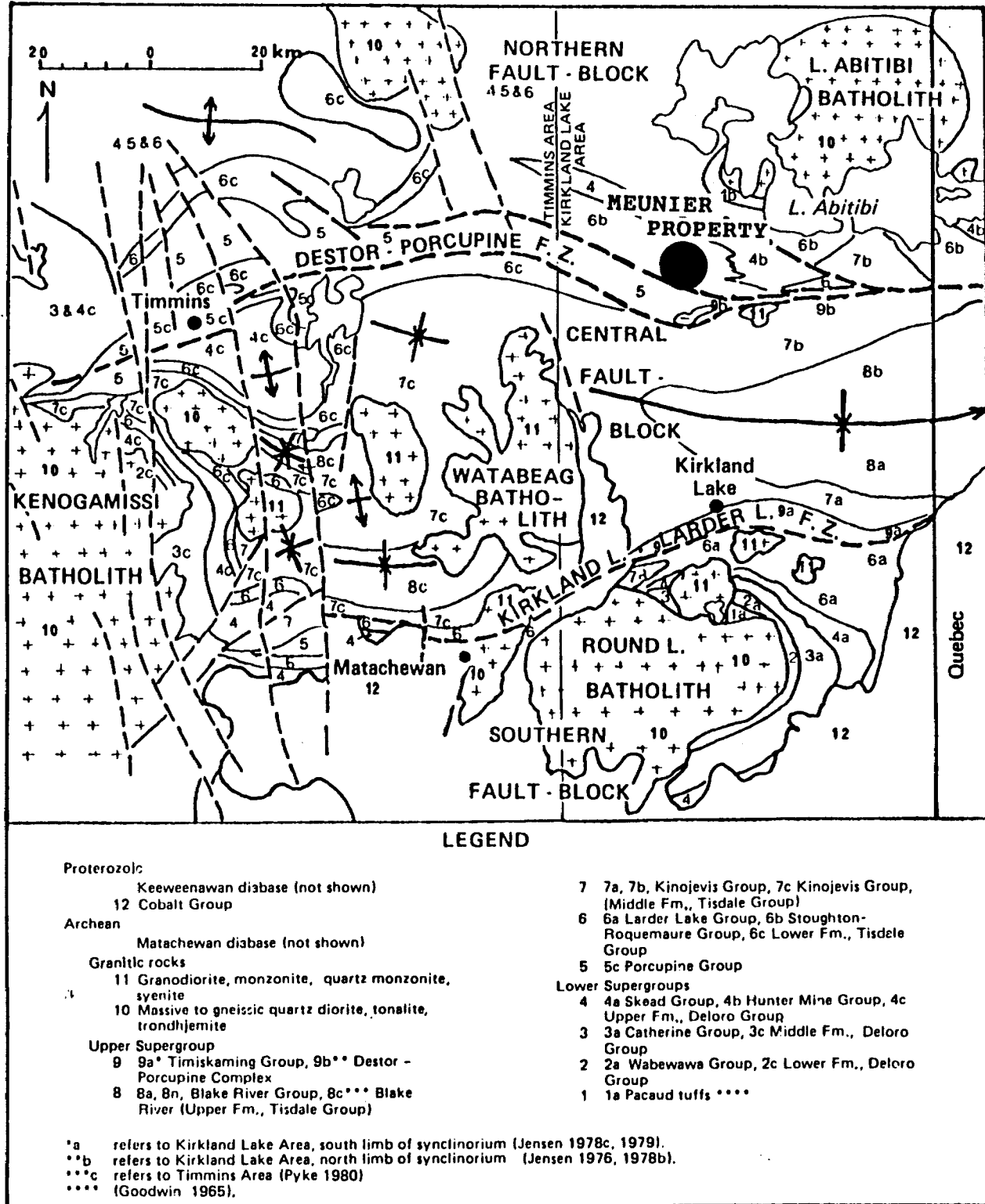


Figure 4 Geological map of the Timmins - Kirkland Lake area.

A few later intrusives have been emplaced into the volcanic succession. Compositionally, these rocks range from pyroxenite, diabase and lamprophyre, to diorite, granite and syenite. The mafic and ultramafic varieties tend to be found as narrow dykes, whereas the intermediate and felsic varieties are more common as larger rounded bodies.

LOCAL GEOLOGY

The Destor-Porcupine Complex strikes approximately 115° in the Meunier claim group. The claims are located within mafic to ultramafic flows or intrusives of the Stoughton-Roquemaure Group.

In the 1990 drilling area the rock units are north facing and dip steeply to the south. They can be divided into 3 main units which are from oldest to youngest: ultramafic (komatiitic) flow, graphitic-chloritic lapilli tuff and, tholeiitic basalt. These units are cut by diabase or gabbro dykes.

To the south, the ultramafic flow is weakly altered, dark green to black, and strongly serpentized. It is well altered through the rest of the drilled section. It varies in colour from olive-green to yellow-green to grey-green and mostly consists of fine grained massive flows which usually appear variably brecciated and foliated. Well developed spinifex texture commonly marks out flowtops. Alteration types consist of pervasive sericitization, patchy carbonatization (ankerite) and local fuchsite alteration. The ultramafic flows are commonly intercalated with graphitic-chloritic lapilli tuff (up to 20% of the section).

Towards the top of the ultramafic flow the intercalated chloritic-graphitic-tuff is thicker and occurs more frequently. This intercalated section or "contact zone" averages 65m in thickness in the 3 holes drilled. The tuff has a black very fine grained graphitic to chloritic matrix which supports lapilli sized altered ultramafic fragments up to a few centimetres across. The tuff is locally carbonatized or silicified. Bedding is well indicated by a preferred orientation of fragments. Commonly associated with the chloritic-graphitic tuff but also sometimes occurring on its own within the ultramafic flow are interbeds up to a few metres in thickness of a sub-unit tentatively identified as felsic tuff. The felsic tuff is fine grained, massive and has sharp contacts. It varies considerably in colour through various shades of grey with yellow to buff to green coloured hues. Silicification, carbonatization and/or pyritization commonly occur within the unit.

There is a sharp contact between the tuff and the tholeiitic basalt to the north. The basalt consists of a thick sequence of pillowed flows to the east and more massive flows to the west. Narrow gabbro dykes commonly cut the basalt.

Weakly to moderately magnetic diabase occurs as possible sills from 5m to 45m in thickness. The diabase bodies can vary in dip from 82°N to 82°S whereas the dip of the host geology varies from 82°S to vertical.

The rocks are locally sheared or foliated concordant with the bedding. The bedding is commonly undulating and is near vertical or dips steeply to the south. The Pipestone Fault, a regional fault zone in the area is possibly represented by a 6.0m section of numerous clay-grit seams near the top of hole Mm.90-03. The fault is near vertical dipping. Another fault zone, also displayed as a narrow clay-grit seam, is associated with the mineralized zone outlined in the contact zone of the ultramafic flow with the graphitic-chloritic tuff.

Mineralization consistently occurs within 2 well defined, brecciated to sheared, commonly quartz veined zones near the north edge of the contact zone between the ultramafic flow and the tuff. The zones generally have 2 to 10% fine disseminated pyrite and trace to 1% disseminated to semi-massive bands or patches of arsenopyrite. Other local mineralized zones also occur within the drilled package of rock. Some of the zones carry sphalerite or chalcopyrite mineralization.

DIAMOND DRILLING:

A 3-hole diamond drill programme totaling 967.6m was completed between September 25 and October 17, 1990. The drilling was performed by Phillipon Diamond Drilling of Rouyn, Quebec. The core was logged by K. Kryklywy of American Barrick Resources in Kirkland Lake, and the assaying of samples was done at the Holt-McDermott Mine lab and at the Swastika Laboratory in Swastika, Ontario.

The diamond drilling programme was originally budgeted for 780m, however, due to unexpected geology (ie. south-dipping rather than north-dipping units) and to uncharacteristic steepening of holes, 187.6m of drilling was added to the original budget to reach the proposed targets.

The 3 holes were targeted at a mineralized zone located within a contact zone between ultramafic flow and chloritic-graphitic tuff, which was identified from 3 holes previously

drilled by Canamax Resources. The Canamax holes intersected values of 2.69 g/t Au over 2.6m, 1.41 g/t Au over 2.2m and 0.70 g/t Au over 4.5m. (* Note: All of the widths given are previously calculated true widths which have since decreased dramatically using the additional geological information from the 1990 drilling. As well, the 1990 drilling indicated 2 parallel mineralized zones spaced 20 to 30m apart rather than a single zone as originally interpreted.)

The 1990 drillholes are summarized as follows (see accompanying sections).

DDH Mm.90-01 @ 24+00W, 5+10N, Az. 196°, Dip -55°, L=376.7m

<u>From</u>	<u>To</u>	<u>Description</u>
0.0	2.1m	Casing
2.1	62.0	Basalt
62.0	96.4	Gabbro
96.4	149.6	Basalt
149.6	157.1	Gabbro
157.1	286.0	Basalt
286.0	332.6	Graphitic-chloritic tuff (with intercalated felsic tuff)
332.6	364.5	Ultramafic flow
364.5	376.7	Diabase
376.7		End of Hole

The targeted mineralized horizon was intersected from 332.6 to 345.7m where there is a good-looking, strongly altered zone in ultramafic flow and tuff with abundant quartz veining, brecciation and sulphides consisting of 1 to 5% pyrite and trace to 1% disseminated or stringers of arsenopyrite. The footwall (north side) of the mineralized zone is marked by a narrow fault zone. The hole was not drilled deep enough to reach the south mineralized horizon.

The best assay in the hole is 1.01 g/t Au from 314.0 to 315.0m in chloritic tuff. The best intersection in the north mineralized zone is 0.55 g/t Au over 0.7m true width from 341.8 to 344.2m. The zone was intersected 210m below the intersection in Canamax hole 081-01-03 rather than 75m below as originally planned. This was due to drilling downdip and steepening of the hole. The original intersection of 0.70 g/t Au over 4.5m in Canamax hole 081-01-03 is now interpreted to be the south mineralized zone and an intersection of 0.64 g/t Au over 0.65m is interpreted to be the north mineralized zone.

DDH Mm.90-02 @ 36+00W, 2+95N, Az. 16°, Dip -55°, L=230.4m

<u>From</u>	<u>To</u>	<u>Description</u>
0.0	4.0m	Casing
4.0	12.4	Ultramafic flow
12.4	39.8	Diabase
39.8	174.3	Ultramafic flow with intercalated tuff
174.3	203.9	Graphitic-chloritic tuff
203.9	211.0	Ultramafic flow
211.0	230.4	Basalt
230.4		End of Hole

This hole was drilled to test 75m downdip from an intersection of 1.41 g/t Au over 2.2m (previously estimated true width) in Canamax hole 081-01-01.

A mineralized zone was intersected from 53.88 to 62.51m within a mixed zone of altered ultramafic flow, graphitic and felsictuff. There is local strong quartz veining, silicification, carbonatization and 1 to 10% pyrite with local grains of sphalerite. The best intersection in this zone is 1.21 g/t Au and 1412 ppm Zn over a core length of 0.87m.

The south mineralized zone assayed 1.30 g/t Au over a true width of 0.45m from 136.00 to 136.70m in altered komatiite, with 1% pyrite and traces of arsenopyrite. The targeted north mineralized zone was intersected from 169.84 to 170.78m in graphitic tuff with 2 to 4% pyrite and trace arsenopyrite. A possible narrow fault occurs on the footwall (north) side. The north zone assayed 0.45 g/t Au over 0.60m true width. Canamax's north zone intersection of 1.41 g/t Au over 2.2m is now revised to 1.41 g/t Au over 1.3m true width due to the new interpreted dip.

DDH Mm.90-03 @ 35+00W, 2+07.5N, Az. 16°, Dip -55°, L=369.4m

<u>From</u>	<u>To</u>	<u>Description</u>
0.0	34.5m	Overburden
34.5	113.9	Ultramafic flow (possible Pipestone Fault from 64.5 to 70.5m)
113.9	144.8	Diabase
144.8	151.2	Ultramafic flow
151.2	162.1	Diabase
162.1	177.3	Ultramafic flow
177.3	196.1	Diabase
196.1	301.7	Ultramafic flow with intercalated tuff
301.7	317.0	Diabase
317.0	333.6	Ultramafic flow

333.6	344.4	Graphitic-chloritic tuff with intercalated felsic tuff
344.4	369.4	Basalt
369.4		End of Hole

This hole was drilled to intersect the south mineralized zone 75m below Canamax hole 081-01-07 which intersected 2.69 g/t Au over a previously estimated true width of 2.6m. The hole collar was originally planned at a dip of -50° , however, due to soft swampy ground conditions and the sandy nature of the overburden, the collar of the hole fell to -55° . In addition, the hole steepened to -61° by the end, resulting in the mineralized zone being intersected 185m below hole 081-01-07. Some 69.5m of drilling was added to the hole to reach the mineralized zone.

A mineralized section in the ultramafic flow with strong quartz veining, alteration, 1 to 5% pyrite and local patchy arsenopyrite was intersected from 229.4 to 239.9m. Another zone with patchy silicification and local heavy quartz veining was intersected from 255.2 to 286.0m. This zone is interpreted to be the south mineralized zone outlined in Canamax hole 081-01-07. An assay of 1.10 g/t Au over 0.64m true width occurs in weakly altered komatiite from 286.00 to 287.00m in DDH Mm.90-3.

Graphitic tuff with some intercalated felsic tuff was cut from 333.6 to 344.4m. The upper 1.5m of the tuff is possibly the north mineralized zone and contains 1 to 2% pyrite and trace arsenopyrite. It assayed 0.47 g/t Au over 0.43m true width from 333.57 to 334.33m. A narrow fault occurs on the hanging wall (south) side of the zone.

Other anomalous intersections in the hole include 1.24 g/t Au over 0.38m core length from 210.62 to 211.00m associated with a 2cm band of semi-massive arsenopyrite. The previous Canamax intersection of 2.69 g/t Au over 2.6m is now adjusted to 2.69 g/t Au over a true width of 1.5m based on the new geological information from DDH Mm.90-03

CONCLUSIONS AND RECOMMENDATIONS:


The property was optioned from David Meunier of Timmins to drill-test downdip from 3 holes previously drilled by Canamax Resources. Canamax intersected anomalous to ore quality gold values over significant widths in strongly altered, mineralized and quartz veined zones within the ultramafic flow-chloritic-graphitic tuff contact zone. The 3 hole, 967.6m drill programme intersected the mineralized horizons in each hole. However, in 2 of the 3 holes drilled, the targeted horizon was cut much deeper than originally anticipated due to an uncharacteristic steepening of

holes and because the rocks were found to dip steeply south rather than north as originally interpreted.

The 1990 drill programme encountered low results with the best gold assay being 1.24 g/t over a core length of 0.38m. Another section assayed 1.21 g/t Au and 1412 ppm Zn over a core length of 0.87m. The best intersection within the targeted mineralized zones is 1.10 g/t Au over a true width of 0.64m.

Due to the poor results it is recommended that no further work be done and the property be returned to its vendor, David Meunier.

Respectfully Submitted,



M. Kenneth Kryklywy

APPENDIX I

DIAMOND DRILL LOGS

AMERICAN BARRICK RESOURCES CORPORATION

Co-ords: .0 .0 DIAMOND DRILL RECORD HOLE NO.: NH.90-01
 Azimuth: 196.0 Section: 34+00W Property: NEUNIER
 Dip: -65.0 Core Size: B0 Location: 34+00W 5+10N
 Elevation: 8.0
 Length: 376.7 Date Started: Sept. 25, 1990
 Date Completed: Sept. 28, 1990
 Logged by: K. Kryklywy
 Measurement: Metric **CLINAL-783735**

Comments: Casing left in hole. Hole extended from 315.77 to 376.73 from October 16-17, 1990

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-63.5	181.40	201.0	-65.0	274.32		-63.0
89.94	201.0	-65.0	182.80		-65.0	300.23		-64.0
91.44		-64.0	228.60		-63.0	350.52		-63.0
137.16		-64.0	272.87	204.0	-64.0	375.21	211.0	-66.0

-----Log Summary-----

.00 2.13 CASING.
 2.13 62.00 BASALT.
 62.00 96.35 GABBRO.
 96.35 149.60 BASALT.
 149.60 157.10 GABBRO.
 157.10 286.02 BASALT.
 286.02 317.06 Chloritic TUFF.
 317.06 324.05 Felsic TUFF.
 324.05 332.58 Graphitic TUFF.
 332.58 364.54 ULTRAMAFIC.
 364.54 376.73 DIABASE.
 376.73 END OF HOLE.

AMERICAN BARRICK RESOURCES CORPORATION

Hole No.: MM.90-01

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From	To	Description	Sample	From	To	Length	% Sol	GW	Au g/t
.00	2.13	CASING							
.00	1.83	OVERBURDEN.							
2.13	62.00	BASALT							
			73701	61.50	62.00	.50	TS	.110	.22
2.13	36.65	Pillowed flow. Medium greenish-grey, fine grained, massive, locally silicified pillow centers with well defined narrow sheared to brecciated to chloritic to hyaloclastite-rich pillow ribs or selvages. Minor fracturing and accessory veining. Trace to nil pyrite.							
6.09	6.43	Blocky, highly fractured core.							
6.43	6.69	Light purple brecciated silicified band or possible quartz vein at 70 degrees to the core axis.							
36.65	37.33	Mafic intrusive. Medium greenish-grey, fine grained, massive with sharp contacts at 60 / irregular degrees to the core axis.							
37.33	62.00	Pillowed flow. Same as described above from 2.13 to 36.65. Sharp irregular lower contact.							
62.00	96.35	GABBRO							
			73702	62.00	63.50	.50	2	.070	.14
			73703	85.17	86.17	1.00	TR	.140	.14
			73704	90.28	91.06	.78	1	.094	.12
		Medium to dark grey to grey-green, medium to coarse grained. Composition is black to dark green amphibole, dark greenish-grey feldspars and minor quartz. Nonmagnetic. Trace to nil pyrite. Minor calcite amygdulies. 5% white quartz veining varying up to 20 cm							

From To -----Description----- Sample From To Length % Sol GW Au g/t

in width.

78.68 78.88 : white quartz vein at 30 / 50 degrees to the core axis.

83.32 85.63 : slightly bleached and undulating foliation along core axis.

85.63 91.07 : 10 to 25% quartz veining at all orientations. Barren and white.

92.00 93.95 : moderate to strong calcitic alteration. 10% silica amygdules starting at 93.20.

93.95 96.35 : 10% quartz amygdules up to a few cm size. At 94.78, brecciated, silicified flow top or pillowed basalt. Sharp contacts at 30 / 60 degrees to the core axis.

At 96.35 : sharp lower contact at 30 degrees to the core axis.

96.35 149.60 BASALT

96.35 147.78 Pillowed flow. Medium green very fine grained, silicified pillow centers with well defined chloritic to chilled to hyaloclastite to brecciated pillow rims or selvages. Weakly to moderately fractured with quartz or calcite filling of fractures. Nonmagnetic. Trace pyrite. Local calcitic patches.

147.78 149.60 Sheared brecciated. Dark green chloritic subrounded to subangular fragments up to 2 cm in a light green very fine grained mafic matrix. Fine white feldspar phenocrysts throughout matrix. Sheared at average 25 to 35 degrees to the core axis. Minor local reddish coloured patches.

149.60 157.10 GABBRO

Dark green, fine grained, massive, locally mottled. Finely fractured throughout with fine calcite coating of fractures. Overprinting of 10 to 20% finely disseminated leucoxene. Patchy sericitic alteration or streaks. Local gashes of quartz or calcite. Sharp lower contact at 30 degrees to the core axis.

From	To	Description	Sample	From	To	Length	% Sol	GW	Bu g/l
157.10	286.02	BASALT	73705	157.73	158.73	1.00	5-10	.110	.11
			73706	158.73	159.00	.27	NIL	.100	.37
157.10	158.73	Pillowed flow. Medium green, fine to very fine grained, variably silicified, massive pillow centers with moderately to well defined, brecciated to sheared to chloritized pillow selvages or rims. Minor local hyaloclastite. Moderately fractured with quartz or calcite filling of fractures. Generally trace sulphides. 5 to 10% pyrrhotite from 158.10 to 158.47.	73707	159.08	160.08	1.00	TR	.120	.12
			73708	285.02	286.02	1.00	TR	.170	.17
158.73	159.08	Quartz - carbonate vein. White to well brecciated light purple - grey coloured. No sulphides. Contacts at 40 degrees to the core axis.							
159.08	159.61	Dyke. Dark green, fine grained, massive to locally sheared to mottled. Moderately fractured. Local fine white feldspar phenocrysts. Local small black mafic filled amygdules. Sharp lower contact at 30 degrees to the core axis.							
159.61	178.95	Pillowed flow. Same as described above from 157.10 to 158.73. Lower contact at 30 / 45 degrees to the core axis.							
178.95	180.90	Dyke. Dark grey-green, fine grained, massive with fine black porphyritic amphibole throughout. Moderately calcitic. Lower contact at 40 degrees to the core axis.							
180.90	259.44	Pillowed flow. Same as described above from 157.10 to 158.73. Pillow rims are moderately to weakly defined. Locally amygdular. Pillow rims are less well defined and spaced further apart down section. Moderately fractured with 2 to 3% gash calcite veining. Local pyrite or pyrrhotite concentrations in pillow selvages. Irregular lower contact.							
259.44	265.60	Possible flow breccia. Greenish-grey coloured with local light green to yellow - green mottled sections. Very fine grained. Generally well fractured to brecciated appearance with dark green chloritic or calcitic fracture filling. Minor local patches of fine white feldspar phenocrysts. 2 to 4% later fine calcite veining. Minor quartz stringers.							
265.60	268.59	Dyke. Medium green, fine to medium grained, massive, moderately to well fractured with calcite coating of fractures. Moderate pervasive calcitic							

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From	To	Description	Sample	From	To	Length	% Sol	GR	Au g/t	
		alteration. Sharp contacts at 35 / 25 degrees to the core axis.								
268.59	286.02	Possible flow top breccia. Same as described above from 259.44 to 265.60. Minor local finely disseminated pyrite or pyrrhotite associated with selvages. Sharp lower contact at 60 degrees to the core axis.								
286.02	317.06	CHLORITIC TUFF								
			73709	286.02	287.00	.50		TR	.127	.13
			73710	287.00	288.00	1.00		TR	.110	.11
		Medium green, fine grained, rounded to angular, unsorted, fractured, unstretched tholeiitic basalt, fragments up to 15 cm but generally less than 2 cm or local bands of fragments up to a few cm in width in a dark green to black very fine grained chloritic matrix. Minor black graphitic streaks. 50 to 70% matrix, 30 to 50% basalt fragments. Good bedding undulating along core axis but locally up to 40 degrees to the core axis. Trace pyrite. Weak to moderate pervasive calcitic alteration. 5% calcite veining throughout, generally concordant with foliation but also at all other orientations.	73711	288.00	289.00	1.00		TR	.120	.12
			73712	289.00	290.00	1.00		TR	.190	.19
			73713	290.00	291.00	1.00		TR	.140	.14
			73714	291.00	292.00	1.00		TR	.250	.25
			73715	292.00	293.00	1.00		TR	.090	.09
			73716	293.00	294.00	1.00		TR	.170	.17
			73717	294.00	295.00	1.00		TR	.090	.09
			73718	295.00	296.00	1.00		TR	.120	.12
			73719	296.00	297.00	1.00		TR	.140	.14
			73720	297.00	298.00	1.00		TR	.080	.08
			73721	298.00	299.00	1.00		TR	.060	.06
			73722	299.00	300.00	1.00		TR	.310	.31
		286.02 297.00 : bedding at 0 to 40 degrees to the core axis.	73723	300.00	301.00	1.00		TR	.050	.05
			73724	301.00	302.00	1.00		TR	.200	.20
		297.00 312.40 : bedding averages 0 to 15 degrees to the core axis.	73725	302.00	303.00	1.00		TR	.200	.20
			73726	303.00	304.00	1.00		TR	.310	.31
		298.60 : grey clay slip at 15 degrees to the core axis.	73727	304.00	305.00	1.00		TR	.260	.26
			73728	305.00	306.00	1.00		TR	.240	.24
		312.40 314.40 : bedding averages 15 to 30 degrees to the core axis.	73729	306.00	307.00	1.00		TR	.200	.20
			73730	307.00	308.00	1.00		TR	.230	.23
		314.40 315.77 : bedding averages 0 degrees to the core axis.	73731	308.00	309.00	1.00		TR	.220	.22
			73732	309.00	310.00	1.00		TR	.160	.16
		315.80 316.70 ULTRAMAFIC. Light greenish-grey, fine grained with possible development of spinifex texture. Trace to 1% pyrite associated with fractures or minor calcite stringers. Upper contact along core axis for 45 cm, lower contact at 30 degrees to the core axis.	73733	310.00	311.00	1.00		TR	.390	.39
			73734	311.00	312.00	1.00		TR	.290	.29
			73735	312.00	313.00	1.00		TR	.120	.12
			73736	313.00	314.00	1.00		TR	.180	.18
			73737	314.00	315.00	1.00		TR	1.010	1.01
			73738	315.00	315.77	.77		TR	.308	.40
			73960	315.77	316.70	.93		TR-1	.140	.15
		At 317.06, lower contact at 55 degrees to the core axis.	73961	316.70	317.06	.36		1-2	.126	.35
317.06	324.05	FELSIC TUFF								
			73962	317.06	318.06	1.00		1	.120	.12
			73962	323.05	324.05	1.00		1	.080	.08

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From	To	Description	Sample	From	To	Length	% Sul	GW	As g/t
		Medium grey coloured, fine grained, massive with local patches of calcite grains or black mafic grains up to 1 mm size. Moderately pervasively calcitic down to 321.40 becoming weakly to noncalcitic after that. 1% finely disseminated pyrite. Lower contact at 32 degrees to the core axis.							
	322.10	332.29							
		: chloritic TUFF / ULTRAMAFIC interbed at 15 / 30 degrees to the core axis.							
324.05	332.58	GRAPHITIC TUFF							
			73964	324.05	325.00	.95	1-2	.124	.13
			73965	325.00	326.00	1.00	1-2	.100	.10
		Black, fine grained graphitic - chloritic groundmass with 20 to 40% olive green coloured, angular, fractured komatiitic fragments or interbeds up to 5 cm in width. Bedding is undulating at 0 to 40 degrees to the core axis. 5% quartz - ankerite veining commonly concordant with bedding but also at all other orientations. 1 to 2% finely disseminated or fracture filling pyrite. Sharp irregular lower contact.	73966	326.00	327.00	1.00	1-2	.200	.20
			73967	327.00	328.00	1.00	1-2	.190	.19
			73968	328.00	329.00	1.00	1-2	.050	.05
			73969	329.00	330.00	1.00	1-2	.070	.09
			73970	330.00	331.00	1.00	1-2	.080	.08
			73971	331.00	332.00	1.00	1-2	.170	.17
			73972	332.00	332.58	.58	1-2	.093	.16
	332.42	Clay slip. Chloritic - graphitic - clay slip at 40 degrees to the core axis.							
332.58	344.54	ULTRAMAFIC							
			73973	332.58	333.48	.90	2-3	.144	.16
			73974	333.48	334.19	.71	1	.266	.36
	332.58	341.77	73975	334.19	335.19	1.00	1-2	.400	.40
		Quartz - carbonate veining mineralized. Highly deformed section of ULTRAMAFIC with 10 to 15% intercalated graphitic chloritic TUFF all cut by 10 to 20% gash quartz - carbonate veining. ULTRAMAFIC is medium olive green coloured, locally well sheared to brecciated with local sections of fine grained massive flow or spinifex flow top material. Graphitic - chloritic TUFF occurs in highly deformed fragments patches or bands varying from a few cm to 1.10 m in width. Bedding (shearing?) is greatly undulating or kinked and can vary from 0 to 60 degrees to the core axis, however it averages 25 degrees to the core axis. Section is well fractured and fractures are commonly filled with quartz and ankerite. Quartz-carbonate veining occurs as white to grey coloured fracture fillings or pods, commonly concordant with	73976	335.19	335.93	.74	2-6	.326	.44
			73977	335.93	336.45	.52	1-2	.107	.21
			73978	336.45	337.11	.66	2	.251	.38
			73979	337.11	337.83	.72	2-4	.137	.19
			73980	337.83	338.52	.69	2	.260	.27
			73981	338.52	339.37	.85	2-3	.400	.47
			73982	339.37	340.00	.63	2-3	.088	.14
			73983	340.00	340.65	.65	2	.143	.22
			73984	340.65	341.28	.63	3	.082	.13
			73985	341.28	341.77	.49	2-3	.049	.10
			73986	341.77	342.82	1.05	5-10	.557	.53
			73987	342.82	343.65	.83	4-5	.531	.64
			73988	343.65	344.21	.56	2	.269	.48
			73989	344.21	345.07	.86	1-2	.181	.21
			73990	345.07	345.55	.48	TR	.053	.11
			73991	345.55	346.22	.67	TR-1	.154	.23
			73992	346.22	347.22	1.00	TR	.110	.11
			73993	347.22	348.22	1.00	TR	.020	.02
			73994	348.22	349.22	1.00	TR	.030	.03

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		bedding but also at all other orientations. Average 1 to 3% finely disseminated pyrite with local patches of arsenopyrite.	73995	349.22	350.12	.90	TR	.019	.02
			73996	350.12	351.10	.98	TR	.265	.27
			73997	351.10	352.10	1.00	TR	.100	.10
			73998	352.10	353.10	1.00	1	.010	.01
334.00	338.55	: local patches of remnant spinifex texture	73999	353.10	354.10	1.00	1	.150	.15
335.19	335.46	: dirty greenish-grey highly brecciated possible felsic TUFF band at 25 / 45 degrees to the core axis with 10% disseminated arsenopyrite.	74000	354.10	355.10	1.00	2	.140	.14
			74001	355.10	356.10	1.00	2-3	.040	.04
			74002	356.10	356.95	.85	10	.162	.19
			74003	356.95	358.00	1.05	TR-1	.073	.07
335.83	335.93	: dirty greenish-grey possible felsic TUFF band at 25 degrees to the core axis with 5 to 10% arsenopyrite.	74004	358.00	359.00	1.00	TR-1	.050	.05
			74005	359.00	360.00	1.00	TR-1	.030	.03
			74006	360.00	361.00	1.00	TR-1	.030	.03
336.45	340.65	: 1% stringers of finely disseminated arsenopyrite generally concordant with bedding.	74007	361.00	362.00	1.00	TR-1	.010	.01
			74008	362.00	363.00	1.00	TR-1	.010	.01
			74009	363.00	364.00	1.00	TR-1	.030	.03
340.65	341.77	: 90% graphitic - chloritic TUFF. 1% local stringers of arsenopyrite. Irregular lower contact. Foliations : 30 Degrees to the core axis at 333.0 m. 25 Degrees to the core axis at 334.20 m. 30 Degrees to the core axis at 335.50 m. 25 Degrees to the core axis at 336.80 m. 55 Degrees to the core axis at 337.80 m. 20 Degrees to the core axis at 338.60 m. 60 Degrees to the core axis at 339.40 m. 20 Degrees to the core axis at 340.40 m. 10 Degrees to the core axis at 340.90 m. 0 Degrees to the core axis at 341.70 m.	74010	364.00	364.54	.54	TR-1	.011	.02
341.77	342.82	Felsic TUFF. Dark grey, fine grained, massive, finely fractured and highly silicified. 5% narrow interbeds of graphitic TUFF at 35 to 55 degrees to the core axis. 5 to 10% very finely disseminated or fracture filling pyrite. 1% stringers of arsenopyrite commonly associated with graphitic bands or contacts. Sharp lower contact at 45 degrees to the core axis marked by a 4 mm seam of semi-massive arsenopyrite.							
342.82	345.07	Quartz - carbonate veining deformed. A 50 - 50 matrix of olive green coloured, brecciated to sheared ULTRAMAFIC and black chloritic - graphitic TUFF. 25% quartz-carbonate stringers, pods, gashes or fragments occur throughout. Commonly sheared (bedded?) at 25 to 35 degrees to the core axis. 2 to 5% finely disseminated pyrite. 1% finely disseminated or stringers of arsenopyrite.							
345.07	345.55	Possible FAULT ZONE. Upper contact marked by a narrow dark grey broken clay seam at							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		approximately 20 degrees to the core axis. Lower contact marked by a graphitic clay slip at 20 degrees to the core axis. Rest of zone is blocky, highly fractured core with fragments of graphitic TUFF and quartz veining subparallel to core axis.							
345.55	349.22	Altered graphitic. 90% olive green, brecciated, fragmented konatiite with 10% fine stringers or beds of graphitic TUFF. Appears much like an AGGLOMERATE. Bedding at average 20 to 25 degrees to the core axis. Weak to moderate pervasive ankerite alteration. Sericitic patches or fine stringers throughout. Minor quartz-carbonate veining. Trace pyrite. Sharp lower contact at 20 degrees to the core axis.							
345.70	345.95	: dark grey, finely bedded felsic TUFF at 25 / 20 degrees to the core axis. Fine white carbonate amygdules. 1% finely disseminated pyrite.							
349.22	350.12	Felsic TUFF. Medium grey coloured, fine grained, massive. Sharp contact at 20 degrees to the core axis. Weakly ankeritic. Trace pyrite.							
350.12	356.10	Altered graphitic. 50 - 50 highly fragmented medium olive green coloured ULTRAMAFIC and graphitic - chloritic TUFF with increasing TUFF down section. Well bedded at average 20 degrees to the core axis. Minor quartz-carbonate veining. 1 to 2% finely disseminated or patches of finely disseminated pyrite. Interbeds of felsic TUFF occur from 354.45 to 354.65, 355.16 to 355.28 and 355.48 to 355.56.							
353.29		Chloritic - graphitic - clay slip at 20 degrees to the core axis.							
356.10	356.95	Felsic TUFF. Dark grey, fine grained, massive, weakly to moderately silicified. Finely fractured. 10% very finely disseminated and fracture filling pyrite. Sharp lower contact marked by a graphitic clay slip at 10 degrees to the core axis.							
356.95	364.54	Black deformed. Black with local mottled green coloured patches, fine grained and massive to locally foliated at 0 to 10 degrees to the core axis. Soft. 10 to 20% fine gash ankerite veining generally concordant with foliation but also crosscutting. Locally well brecciated. Trace to 1% finely disseminated pyrite. Interbedded graphitic streaks over upper							

From To Description Sample From To Length & Sul GW. An y/L

1.5 m. Sharp lower contact at 10 degrees
to the core axis.
358.03 358.54 : green felsic TUFF unit along core axis.

360.54 376.73 DIABASE

Gray, fine grained, massive, moderately magnetic. Weakly
fractured and minor veining. 1 to 2% finely disseminated
pyrite. Chilled upper contact.

376.73 END OF HOLE.

K. Kryklywy
Sept. 22/93

AMERICAN BARRICK RESOURCES CORPORATION

Co-ords:	.0 .0	DIAMOND DRILL RECORD	HOLE NO.:	MM.90-02
Azimuth:	16.0	Section: 35+00W	Property:	HEUNIER
Dip:	-55.0	Core Size: BR	Location:	35+00W ^{36+00W} 2+95N
Elevation:	.0		Date Started:	October 1, 1990
Length:	230.4		Date Completed:	October 3, 1990
Measurement:	Metric		Logged by:	K. Kryklyw
Comments:	Casing left in hole		CL. NR.	L-7837 ³ / ₄

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-54.0	137.16		-53.5	228.60		-53.5
91.44		-54.5	182.88		-52.5			

-----Log Summary-----

.00 3.56 CASING.
 3.96 4.24 Boulder.
 4.24 12.35 ULTRAMAFIC.
 12.35 39.75 DIABASE.
 39.75 62.51 ULTRAMAFIC.
 62.52 67.72 Felsic TUFF.
 67.72 73.85 ULTRAMAFIC.
 73.85 77.98 Graphitic TUFF.
 77.98 82.65 ULTRAMAFIC.
 82.65 85.45 Graphitic TUFF.
 85.45 109.50 ULTRAMAFIC.
 109.50 122.46 DIABASE.
 122.46 133.81 ULTRAMAFIC.
 133.81 135.34 Possible felsic TUFF.
 135.34 174.30 ULTRAMAFIC.
 174.30 203.92 Graphitic TUFF.
 203.92 210.97 ULTRAMAFIC.
 210.97 225.02 BASALT.
 225.02 227.30 DIABASE.
 227.30 230.43 BASALT.
 230.43 END OF HOLE.

From	To	Description	Sample	From	To	Length	% Sul	GW	As g/t	Zn ppm
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.00 3.96 CASING

3.96 4.24 BOULDER

Probable boulder. Grey coloured, medium grained, massive, nonmagnetic. Composition is amphibole, grey feldspar and minor quartz. Probable GABBRO. Slightly rounded lower edge indicates a boulder.

4.24 12.35 ULTRAMAFIC

73739	4.24	5.00	.76	1	.160	.21
73740	5.00	6.00	1.00	TR	.160	.16
73741	6.00	7.00	1.00	TR	.190	.19
73742	7.00	7.82	.82	TR	.131	.16
73743	7.82	9.00	1.18	TR-1	.118	.10
73744	9.00	10.00	1.00	TR	.210	.21
73745	10.00	11.00	1.00	TR	.580	.58
73746	11.00	12.00	1.00	TR	.170	.19
73747	12.00	12.35	.35	TR	.049	.14

4.24 12.35 Altered.

4.24 7.82 : yellow - green coloured, fine grained, massive, very soft, angular to rounded komatiitic fragments up to 10 cm across in a medium grey coloured weakly calcitic matrix. 90% fragments, 10% matrix. Locally crudely foliated at 40 degrees to the core axis. 2 to 4% carbonate quartz veining at various orientations. Trace pyrite occurs as fine disseminations or stringers. Moderate pervasive ankeritic alteration throughout matrix.

7.82 12.35 : CONTACT ZONE between ULTRAMAFIC and DIABASE. Medium grey to yellow - green grey coloured, variably brecciated to fractured to sheared to veined. Consists predominantly of soft komatiitic rock which has been cut by 10 to 20% grey to white to light green coloured quartz-carbonate veining at average 30 to 35 degrees to the core axis but also at all other orientations. Quartz-carbonate veining

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Note No.: MM.90-02

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From	To	Description	Sample	From	To	Length	% Sul	BW	Au g/t	Zn ppm
		varies from fine stringers or gashes to 3 cm in width. Minor stringers of light blue talc. Trace pyrite. Locally foliated at average 30 degrees to the core axis. Strong pervasive calcitic alteration. Sharp irregular, brecciated contact.								
12.35	39.75	DIABASE	73748	12.35	13.35	1.00	TR-1	.150	.15	
		Dark grey to grey-green, fine to medium grained, massive, homogeneous DIABASE. 1 to 2% finely disseminated or clots of pyrite. Weakly magnetic throughout. Moderately fractured. No veining. Lower contact light grey coloured and intensely silicified over lower 14 cm. Contact sharp at 90 degrees to the core axis.								
39.75	62.51	ULTRAMAFIC	73749	39.75	41.00	1.25	TR	.100	.08	
			73750	41.00	42.11	1.11	TR	.111	.10	
39.75	42.11	Black deformed. Generally black, fine grained and massive but cut by numerous (30%) fine carbonate (noncalcitic) stringers at all orientations. Fine carbonatized ovoids common throughout. Locally crudely foliated at 20 to 30 degrees to the core axis. Rock is very soft. Locally well brecciated with olive green to black rounded fragments up to 5 cm in a carbonatized matrix. Trace pyrite. From 40.68 to 40.73, a light grey chilled DIABASE dyke at 30 degrees to the core axis. Sharp lower contact at 30 degrees to the core axis.	73751	42.11	43.11	1.00	TR	.130	.13	
			73752	43.11	44.12	1.01	TR	.081	.08	
			73753	44.12	45.12	1.00	TR	.210	.21	
			73754	45.12	45.64	.52	TR	.057	.11	
			73755	45.64	45.99	.35	TR	.042	.12	
			73756	45.99	46.99	1.00	TR	.080	.06	
			73757	46.99	47.59	1.00	TR	.090	.09	
			73758	47.99	49.03	1.04	TR	.114	.11	
			73759	49.03	50.00	.97	TR	.097	.10	
			73760	50.00	51.00	1.00	TR	.100	.10	
			73761	51.00	52.00	1.00	TR	.070	.07	
			73762	52.00	53.00	1.00	TR	.100	.10	
			73763	53.00	53.88	.88	TR	.097	.11	
42.11	44.12	Olive green deformed. Olive green coloured, fine grained massive fragments or less deformed sections up to 50 cm in width with 10% ankerite veining between breccia fragments. Local patches or spots of a lighter green coloured carbonate (?) alteration. Local patches of fine white calcite ovoids. Sheared over upper 30 cm at 20 to 30 degrees to the core axis. Lower 6 cm (upper contact because drilled from bottom) marked by well developed spinifex texture.	73764	53.88	54.34	.46	3-5	.599	1.30	1930
			73765	54.34	54.75	.41	5-7	.447	1.09	830
			73766	54.75	55.75	1.00	2	.230	.23	
			73767	55.75	56.75	1.00	1	.170	.17	
			73768	56.75	57.75	1.00	TR-1	.450	.45	
			73769	57.75	58.75	1.00	TR	.080	.08	
			73770	58.75	59.75	1.00	TR	.090	.09	
			73771	59.75	60.75	1.00	1	.300	.30	89
			73772	60.75	61.60	.85	1-2	.170	.21	
			73773	61.60	61.82	.22	10	.150	.68	
			73774	61.82	62.51	.69	2-3	.290	.42	146

From	To	Description	Sample	From	To	Length	% Sul	EW	Au g/t	Zn ppm
		veining. Sharp contacts at 30 / 60 degrees to the core axis.								
54.34	62.51	Graphitic flow top. Same as described above from 49.03 to 53.98. Minor local possible patches of sphalerite.								
54.34	54.75	: 20% quartz veins up to 1 cm in width average 65 to 85 degrees to the core axis. Fuchsite stringers throughout. 5 to 7% fine to very finely disseminated, clots or stringers of pyrite. Fine graphitic veinlets at 65 to 85 degrees to the core axis. 2% possible patches of sphalerite. Patchy silicification. Well brecciated and sheared at 65 to 85 degrees to the core axis.								
61.60	61.82	: felsic TUFF. Medium grey - brown, fine grained, massive with 50% fine white feldspar grains. Weakly silicified. Weakly foliated at 30 to 35 degrees to the core axis. 10% very finely disseminated and stringers of pyrite. Sharp contacts at 20 / 50 degrees to the core axis.								
61.82	62.51	: possible sub-graphitic sediment. Dark grey, fine grained, highly contorted with 20% yellow - green kaolinitic fragments up to 1 cm size. Contorted foliation averages 50 degrees to the core axis. Weakly ankeritic. Moderately silicified. 2 to 3% finely disseminated pyrite. Includes a quartz-carbonate vein at 30 degrees to the core axis from 62.07 to 62.15 with possible sphalerite along contacts. Sharp lower contact at 60 degrees to the core axis.								
62.51	67.72	FELSIC TUFF								
			73775	62.51	63.51	1.00	1-3	.180	.18	
			73776	63.51	64.51	1.00	1-3	.100	.10	
		Medium grey coloured with local yellow to brown coloured hues. Fine grained, massive, weakly to moderately pervasively silicified. 3 to 5% disseminated fuchsite grains down to 64.25. Weakly fractured with 1% quartz veining up to 3 cm in width average 25 to 30 degrees to the core axis. Weakly pervasively ankeritic. 1 to 3% very finely disseminated pyrite. Fine altered (to light coloured micas) mafic minerals throughout. Some possible ghosts of remnant fragments. Sharp lower contact at 45 degrees to the core axis.	73777	64.51	65.51	1.00	1-3	.130	.13	
			73778	65.51	66.51	1.00	1-3	.080	.08	
			73779	66.51	66.72	.21	1-3	.052	.25	

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From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t	In g/t
67.72	73.85	ULTRAMAFIC								
			73780	67.72	68.72	1.00	TR	.100	.16	76
			73781	68.72	69.72	1.00	TR	.060	.06	
			73782	72.85	73.85	1.00	1	.070	.07	
		67.72 73.85 Altered.								
		67.72 70.05 : olive green to greenish-grey, granular (possible cumulate texture). Patchy or streaks of fuchsite alteration common throughout. 10% crosscutting grey coloured carbonate veining at all orientations. Minor quartz veining. Possible sphalerite associated with carbonate veining.								
		70.85 73.85 : becomes more massive textured with minor local graphitic streaks. Still coarsely brecciated with carbonate veining between breccia fragments. Trace pyrite. Lower contact at 35 degrees to the core axis.								
73.85	77.98	GRAPHITIC TUFF								
			73783	73.85	74.85	1.00	1	.080	.08	
			73784	74.85	75.75	.90	1	.081	.09	
		Black, well foliated, sub-graphitic TUFF with streaks or fine fragments of altered komatiitic material. Komatiitic fragments are highly altered to fuchsite or other green carbonate minerals. Foliation locally contorted but generally at 40 to 45 degrees to the core axis. Local bands up to 40 cm in width of fuchsitic ultramafic rock. Weak pervasive ankerite alteration. Lower contact at 40 degrees to the core axis marked by 10 cm quartz vein.	73785	75.85	76.15	.30	TR	.024	.03	
			73786	76.15	77.15	1.00	1	.090	.09	
			73787	77.15	77.98	.83	2	.075	.09	
77.98	82.65	ULTRAMAFIC								
			73788	77.98	78.90	1.00	TR	.080	.08	
			73789	78.90	79.40	.42	TR	.097	.23	
		Olive green to grey-green to fuchsite green, fine grained, brecciated and fractured with increasing spinifex texture towards base of unit. Fuchsite is pervasive to disseminated to stringers. Trace to 1% finely disseminated or stringers of pyrite. Graphitic TUFF bands occur from 78.15 to 78.18, 79.40 to 79.75 at 20 / 25 degrees to the core axis and from 81.60 to 82.15 at 25 / 30 degrees to the core axis. ULTRAMAFIC becomes fine grained and massive after last graphitic TUFF band. Lower contact marked by a 4 cm quartz vein with broken contact.	73790	79.40	79.75	.35	1	.077	.22	
			73791	79.75	80.75	1.00	1	.130	.15	
			73792	80.75	81.60	.85	1	.225	.27	
			73793	81.60	82.15	.55	1	.094	.17	
			73794	82.15	82.65	.50	1	.050	.19	

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From	To	Description	Sample	From	To	Length	2 Sul	GW	Au	Zn
									g/t	ppm
		at average 30 to 40 degrees to the core axis. Also crosscutting veining. Sharp lower contact at 50 degrees to the core axis								
109.50	122.46	DIABASE	73818	121.46	122.46	1.00	1-2	.238	.23	
		Dark grey, fine grained, massive, unfractured, weakly pervasively magnetic. Trace to 2% finely disseminated pyrite. Sharp chilled contacts at 45 / 60 degrees to the core axis.								
122.46	133.81	ULTRAMAFIC	73819	122.46	123.46	1.00	TR-1	.120	.13	
			73820	124.05	125.05	1.00	TR	.120	.12	
122.46	133.81	Altered fine grained massive flow. Medium to dark green, generally fine grained with local medium grained sections, massive and soft. Cut by 10 to 15% carbonate veining (mostly ankerite) at average 25 to 45 degrees to the core axis. Veins generally mm size but can be up to 2.5 cm in width. Also crosscutting veining. Minor quartz veining. Locally foliated as outlined by carbonate veining at 25 to 45 degrees to the core axis. Trace to 1% pyrite locally concentrates as fine disseminations within carbonate vein. Moderately fractured and locally brecciated.	73821	125.05	126.05	1.00	TR-1	.110	.11	
			73822	130.47	131.47	1.00	1	.060	.06	
			73823	132.81	133.81	1.00	TR	.140	.14	
122.65	122.71	: DIABASE dyke at 40 / 45 degrees to the core axis. Highly chilled and very fine grained.								
123.07	123.14	: possible mafic intrusive at irregular / 50 degrees to the core axis. Dark green, fine grained, foliated at 40 degrees to the core axis.								
127.55	127.75	: possible flow top as indicated by well developed spinifex texture. Possible lower contact at 20 degrees to the core axis.								
129.87		: green clay slip at 20 degrees to the core axis.								
133.81	135.34	POSSIBLE FELSIC TUFF								
	133.81	: sharp lower contact at 5 degrees to the core axis.	73824	133.81	134.55	.74	1	.052	.07	
			73825	134.55	135.34	.79	1	.043	.08	

From	To	Description	Sample	From	To	Length	% Sul	BW	Au g/t	Zn ppm
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graphitic TUFF. Foliated at average 30 degrees to the core axis. Lower contact at 65 degrees to the core axis.

174.30 203.92 GRAPHITIC TUFF

			73817	174.30	175.00	.70	1	.070	.10	
			73838	179.40	180.40	1.00	TR	.030	.03	
		A black chloritic, graphitic groundmass with 30 to 40% yellow - green coloured, altered, fractured, angular to subangular komatiitic fragments up to 3 cm. Well bedded (foliated?) at average 30 - 45 degrees to the core axis although bedding is locally undulating and can vary from 0 to 65 degrees to the core axis. Pervasive ankerite alteration and well veined with 15 to 20% fine ankerite gashes, stringers and veinlets generally concordant with foliation. Generally trace to 1% pyrite with local higher concentrations.	73839	180.40	181.40	1.00	1	.030	.05	
			73840	181.40	182.10	.70	3-7	.287	.41	
			73841	182.10	183.10	1.00	2-3	.170	.17	
			73842	183.10	184.10	1.00	2-4	.270	.27	
			73843	184.10	184.80	.70	TR-1	.020	.04	
			73844	184.80	185.65	.85	TR	.048	.08	
			73845	185.65	186.15	.50	1-2	.035	.07	
			73846	186.15	186.80	.65	1-2	.020	.03	
			73847	186.80	187.80	1.00	1	.070	.07	

181.40 182.10 Felsic TUFF ? possibly BASALT. Medium grey-green coloured, fine grained, massive. Weakly ankeritic. Weakly silicified. Moderately fractured. Minor ankerite veining. 5 to 7% finely disseminated pyrite. Contacts at 10 / 45 degrees to the core axis.

183.10 183.21 : felsic TUFF, as described above from 181.40 to 182.10. Contacts at 50 / 35 degrees to the core axis.

184.23 184.32 : felsic TUFF, as described above from 181.40 to 182.10. Contacts at 55 / 40 degrees to the core axis.

192.46 193.10 : 75% of unit is ULTRAMAFIC, rest is intercalated graphitic TUFF.

199.60 199.61 Possible fault plane. Chlorite - clay - graphite seam at 45 degrees to the core axis.

At 203.92 sharp lower contact at 65 degrees to the core axis.

203.92 210.97 ULTRAMAFIC

203.92 210.97 Fine grained massive flow. Black coloured, very soft, cut by 15 to 20% fine ankerite stringers at all orientations. Trace pyrite. Sharp lower contact at 70 degrees to the core axis.

From	To	Description	Sample From	To	Length & Sol	GR	Mo g/t	Zn ppm
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210.97 225.02 BASALT

210.97 225.02 Fine grained massive flow. Medium green to greenish-grey, weakly fractured and weakly veined with calcite. Some chlorite fracture filling. Trace pyrite.

225.02 227.30 DIABASE

Medium grey, fine grained, massive, nonmagnetic. 15 to 20% fine black porphyritic amphibole grain throughout. Sharp contacts at 25 / 35 degrees to the core axis.

227.30 230.43 BASALT

227.30 230.43 Fine grained massive flow. Same as described above from 210.97 to 225.02.

230.43 END OF HOLE.

*K. Kuykley
Sept. 22/93*

AMERICAN BARRICK RESOURCES CORPORATION

Coordinates: .0 .0

DIAMOND DRILL RECORD

HOLE NO.: MM.90-03

Azimuth: 16.0

Section: 35+00W

Property: MEUNIER

Dip: -55.0

Core Size: 6Q

Location: 35+00W 2+07.5N

Elevation: 1.0

Date Started: October 3, 1990

Length: 369.4

Date Completed: October 11, 1990

Measurement: Metric

Logged by: K. Kryklywy

Comments: Casing Pulled

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-55.0	182.88		-59.0	321.56	24.5	-61.0
91.44		-57.0	213.36	22.0	-60.0	364.54		-59.5
137.16		-58.5	228.60		-58.0	369.42	24.0	-61.0
146.61	351.5	-59.5	274.32		-60.0			

-----Log Summary-----

.00 34.50 OVERBURDEN.
 34.50 113.85 ULTRAMAFIC.
 113.85 144.77 DIABASE.
 144.77 151.18 ULTRAMAFIC.
 151.18 162.10 DIABASE.
 162.10 177.30 ULTRAMAFIC.
 177.30 196.05 DIABASE.
 196.05 217.38 ULTRAMAFIC.
 217.38 219.01 Graphitic TUFF.
 219.01 301.71 ULTRAMAFIC.
 310.71 317.03 DIABASE.
 317.03 333.57 ULTRAMAFIC.
 333.57 335.08 Graphitic TUFF.
 335.08 339.90 Felsic TUFF.
 339.90 344.43 Graphitic TUFF.
 344.43 369.42 BASALT.
 369.42 END OF HOLE.

From To -----Description----- Sample From To Length 2 Sul GW Au g/t

.00 34.50 DVERBURDEN

34.50 113.85 ULTRAMAFIC

73866 112.85 113.85 1.00 TR .190 .19

- 34.50 48.05 Blocky, highly fractured core. Rock fragments of medium green to black fine grained massive flow. Commonly slickensided, greasy chlorite or serpentine coating of fractures. Locally strongly calcitic. Occasional green clay coating of fractures.
- 48.05 52.30 Possible DIABASE dyke or ultramafic intrusive. Black, fine grained, massive, moderately fractured with 3% calcite veining. Blocky, highly fractured core down to 49.38. Serpentine coating of fractures. Sharp contacts at 30 / 55 degrees to the core axis.
- 52.30 55.97 Fine grained massive flow. Medium green, pervasively calcitic, weakly fractured.
- 55.97 62.20 Flow top. Medium green to black, fine grained, massive, angular to subangular fragments up to a few cm size in a finely brecciated to mafic matrix. Moderately fractured with serpentine coating of fractures.
- 62.20 64.54 Fine grained massive flow. Medium green to black coloured. Moderately to well fractured. Serpentine coating of fractures.
- 64.54 64.59 Clay-grit seam at 85 degrees to the core axis
- 64.59 65.80 Fine grained massive flow. Same as described above from 62.20 to 64.54. Lower contact marked by 1 cm serpentine - clay seam at 30 degrees to the core axis.
- 65.80 67.01 Flow top breccia. Black, serpentinized

From	To	Description	Sample From	To	Length	% Sul	GW	Au g/t
		ultramafic fragments in a medium green to black brecciated matrix. Strongly schistose over lower 50 cm at 65 degrees to the core axis.						
67.01	67.20	Clay-grit seam. Ultramafic fragments in a light green clay - talc - serpentine matrix. Seam at 55 degrees to the core axis.						
67.20	68.78	Flow top breccia. Same as described above from 65.80 to 67.01.						
68.78	68.88	Clay-grit seam with ultramafic fragments in a light green clay - serpentine matrix. Not able to tell orientation because broken.						
68.88	70.40	Flow top breccia. Same as described above from 65.80 to 67.01. Strong clay developed along fractures.						
70.40	70.47	Clay-grit seam. Same as described above from 68.78 to 68.88. At 40 degrees to the core axis.						
70.47	105.46	Fine grained massive flow. Black, fine grained, massive, soft. Cut by 5 to 10% carbonate veining (mostly calcite) at all orientations. Trace pyrite. Minor local brecciated patches. Patchy calcitic alteration.						
88.56	93.14	: fractured, brecciated section with patchy yellow - green coloured sericitic alteration. Possible flow top.						
105.46	113.85	Altered. Yellow - green to olive green coloured, fine grained and massive to grainy textured. Locally brecciated and sheared at 35 degrees to the core axis. Patchy calcitic alteration. 5% fine carbonate veining. Lower m is hematized to a purple - red colour. Lower contact at 60 degrees to the core axis.						

113.85 144.77 DIABASE

Dark green, fine to medium grained, weakly fractured, weakly magnetic throughout. Minor calcite veining. Trace to 1% finely disseminated pyrite. Local yellow - green, anhedral glomeroporphyritic grains up to 1 cm in diameter. Fine grained towards contacts. Sharp lower contact at 15 degrees to the core axis.

From To -----Description----- Sample From To Length Z Sul GW Au g/t

144.77 151.18 ULTRAMAFIC

144.77 151.18 Fine grained massive flow. Dark green to black, fine grained and massive. Soft. Patchy calcitic alteration. Moderately fractured and locally brecciated. 5% carbonate veining. Sharp lower contact at 50 degrees to the core axis.

151.18 162.10 DIABASE

Same as described above from 113.85 to 144.77 except no phenocrysts. Lower contact at 25 degrees to the core axis

162.10 177.30 ULTRAMAFIC

162.10 177.30 Fine grained massive flow. Dark green to black, fine grained, massive, moderately to well fractured with 5% fine ankeritic veining at all orientations. Trace pyrite associated with veining. Local patches of fine white coloured ankeritic grains. Becomes increasingly brecciated and sheared over lower 2 m of unit. Shearing at average 35 to 40 degrees to the core axis. Sharp lower contact at 43 degrees to the core axis.

177.30 196.05 DIABASE

Same as described above from 151.18 to 162.10. Lower contact at 40 degrees to the core axis.

185.50 186.03 Quartz vein at 35 / 20 degrees to the core axis with DIABASE inclusion.

194.75 194.99 : brecciated, altered komatiite xenolith.

AMERICAN BARRICK RESOURCES CORPORATION

Hole No.: MM.90-03

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From	To	Description	Sample	From	To	Length	% Sul	BW	Au g/t
196.05	217.38	ULTRAMAFIC	73867	197.69	198.19	.50	1	.010	.02
			73868	210.00	210.62	.62	TR	.056	.09
196.05	209.48	Altered deformed. Significant change in character of ULTRAMAFIC from other side of DIABASE. Yellow - green to olive green green, soft, angular, fractured fragments of komatiite up to 10 cm across in a grey coloured ankerite matrix or fracture filling. Fragments are all fine grained massive flow. Generally trace finely disseminated pyrite. Crudely foliated at average 30 to 40 degrees to the core axis. Sharp lower contact at 30 degrees to the core axis.	73869	210.62	211.00	.38	5-7	.471	1.24
			73870	211.00	212.00	1.00	TR-1	.200	.20
			73871	212.00	213.00	1.00	TR-1	.340	.34
			73872	213.00	214.00	1.00	TR-1	.490	.49
			73873	214.00	215.00	1.00	TR-1	.030	.03
			73874	215.00	216.00	1.00	TR-1	.180	.18
			73875	216.00	217.00	1.00	TR-1	.250	.25
			73876	217.00	217.38	.38	TR-1	.080	.21
209.48	210.62	Flow top. Spinifex textured komatiitic fragments in an ankeritic matrix as described above from 196.05 to 209.48. Lower contact at 35 degrees to the core axis.							
210.62	217.38	Altered deformed. Same as described above from 196.05 to 209.48. Crudely foliated at average 40 to 50 degrees to the core axis. Strong grey coloured ankeritic overprinting from 215.27 to 215.60 and from 216.70 to 217.38. Trace to 1% fine to coarse disseminated pyrite. Lower contact at 40 degrees to the core axis.							
		210.67 : semi-massive band of ansenopyrite at 45 degrees to the core axis.							
217.38	219.01	GRAPHITIC TUFF	73877	217.38	218.20	.82	1-2	.394	.48
			73878	218.20	219.01	.81	1-2	.016	.02
		Black, fine grained, graphitic and chloritic with 5 to 10% SMALL grey ankeritic clasts and minor yellow - green komatiitic clasts. Well foliated at 25 to 35 degrees to the core axis with foliation outlined by 15 to 20% concordant very fine ankerite stringers. Moderately siliceous. 1 to 2% finely disseminated pyrite. Lower contact at 45 degrees to the core axis.							
		217.90 : graphitic, slickensided fracture at 30 degrees to the core axis.							
219.01	301.71	ULTRAMAFIC	73879	219.01	220.00	.99	1	.149	.15

AMERICAN BARRICK RESOURCES CORPORATION

Hole No.: MM.90-03

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From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
			73880	220.00	221.00	1.00	1	.120	.12
219.01	233.00	Graphitic flow top breccia. 80 to 90% komatiitic fragments, 10 to 20% graphitic streaks or infilling between breccia fragments. Fragments are medium yellow-green coloured, locally fuchsitic, generally massive, angular, fractured and up to a few cm in size. Graphitic TUFF bands can be up to 25 cm in width. Weakly to moderately silicified. Generally bedded at 30 to 35 degrees to the core axis down to 229.00 and at 10 to 20 degrees to the core axis after that. Strong ankeritic overprinting over upper 75 cm. Possible remnant spinifex texture from 221.29 to 223.60. 2% quartz veining up to 9 cm in width averages 50 to 55 degrees to the core axis.	73881	221.00	222.00	1.00	1	.220	.22
			73882	222.00	223.00	1.00	1	.120	.12
			73883	223.00	224.00	1.00	1	.100	.10
			73884	224.00	225.00	1.00	1	.270	.27
			73885	225.00	226.00	1.00	1	.090	.09
			73886	226.00	227.00	1.00	1	.130	.13
			73887	227.00	228.00	1.00	1	.190	.19
			73888	228.00	229.00	1.00	1	.100	.10
			73848	229.00	230.00	1.00	1	.010	.01
			73849	230.00	231.00	1.00	1	.030	.03
			73850	231.00	232.00	1.00	2-3	.170	.17
			73851	232.00	233.00	1.00	3-4	.250	.25
			73852	233.00	233.72	.72	3-5	.094	.13
			73853	233.72	234.72	1.00	1-2	.120	.12
			73854	234.72	235.72	1.00	1-2	.270	.27
		73855	235.72	236.57	.85	1	.366	.43	
		73856	236.57	237.52	.95	TR	.009	.01	
		73857	237.52	237.89	.37	TR	.015	.04	
		73858	237.89	238.55	.66	1	.013	.02	
		73859	238.55	239.20	.65	1	.013	.02	
		73860	239.20	239.85	.65	2-5	.039	.06	
229.40	233.00	: 1 to 4% finely disseminated pyrite concentrations in fractures or as stringers concordant with bedding. Traces of arsenopyrite.	73889	239.85	241.00	1.15	TR	.161	.14
233.00	235.72	Flow top. Grey-green to fuchsite-green coloured, highly brecciated with well developed spinifex texture throughout. Grey coloured quartz-carbonate infilling between komatiite fragments. Weak patchy silicification. 1 to 5% finely disseminated pyrite concentrates in fractures or as fine stringers. Minor local patches of finely disseminated arsenopyrite.	73890	241.00	242.00	1.00	TR	.100	.10
			73891	242.00	243.00	1.00	TR	.120	.12
			73892	243.00	244.00	1.00	TR	.100	.10
			73893	244.00	245.00	1.00	TR	.080	.08
			73894	245.00	246.00	1.00	TR	.070	.07
			73895	246.00	247.00	1.00	TR	.100	.10
			73896	247.00	248.00	1.00	TR	.060	.06
			73897	248.00	248.68	.68	TR	.034	.08
			73898	248.68	249.01	.33	5-7	.056	.17
			73899	249.01	249.48	.47	1-3	.089	.19
235.72	236.57	Quartz vein. White with mottled dark grey patches. Patches of semi-massive pyrite within 5 cm of upper contact. Minor chalcopyrite. Contacts at 30 / 60 degrees to the core axis.	73900	249.48	250.00	.52	TR	.031	.06
			73901	250.00	251.00	1.00	TR	.100	.10
			73902	251.00	252.00	1.00	TR	.040	.04
			73903	252.00	253.00	1.00	TR	.080	.08
			73904	253.00	254.00	1.00	TR	.090	.09
236.57	237.52	Altered. Fuchsite green coloured, brecciated komatiite in a medium green coloured to black graphitic matrix. Well foliated at 30 to 40 degrees to the core axis. 2 to 3% quartz veining. Trace pyrite. Weakly ankeritic. Strong fuchsitic overprinting.	73905	254.00	255.15	1.15	TR	.138	.12
			73906	255.15	256.00	.85	TR	.077	.09
			73907	256.00	257.00	1.00	TR	.060	.06
			73908	257.00	258.00	1.00	TR	.070	.07
			73909	258.00	259.00	1.00	TR	.060	.06
			73910	259.00	260.00	1.00	TR	.070	.07
			73911	260.00	261.00	1.00	TR	.080	.08
237.52	237.89	Quartz vein. White to grey coloured, with minor komatiite or graphitic fragments. Trace pyrite. Contacts at 50 / 40 degrees to the core axis.	73912	261.00	262.00	1.00	TR	.140	.14
			73913	262.00	263.00	1.00	TR	.090	.09
			73914	263.00	264.00	1.00	TR	.090	.09
237.89	239.20	Graphitic ULTRAMAFIC. 50% brecciated fuchsitic ULTRAMAFIC clasts in a graphitic chloritic groundmass. Well foliated at 45 to 55 degrees to the core axis. 1% finely	73915	264.00	265.00	1.00	TR	.080	.08
			73916	265.00	266.00	1.00	TR	.060	.06
			73917	266.00	267.00	1.00	TR	.080	.08
			73918	267.00	268.00	1.00	TR	.020	.02

AMERICAN BARRICK RESOURCES CORPORATION

Hole No.: MM.90-03

Page No.: 7

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		disseminated pyrite. 2% quartz veining.	73919	268.00	269.00	1.00	TR	.036	.03
		Sharp lower contact at 60 degrees to the core axis.	73920	269.00	270.00	1.00	TR	.050	.05
239.20	239.85	Felsic TUFF. Yellow - grey coloured, fine grained, weakly foliated (bedded?) at 50 degrees to the core axis. Very grainy appearance with recognizable white ankeritic grains, fuchsite grains, magnetic and quartz grains. 2 to 5% very finely disseminated pyrite. Lower 12 cm of unit is graphitic TUFF and quartz veining. Sharp lower contact at 40 degrees to the core axis.	73921	270.00	270.12	.12	TR	.012	.10
			73922	271.12	272.00	.88	TR	.044	.05
			73923	272.00	273.00	1.00	TR	.090	.09
			73924	273.00	274.00	1.00	TR	.070	.07
			73925	274.00	275.00	1.00	TR	.100	.10
			73926	275.00	276.00	1.00	TR	.100	.10
			73927	276.00	277.00	1.00	TR	.060	.06
			73928	277.00	278.00	1.00	TR	.070	.07
			73929	278.00	279.00	1.00	TR	.090	.09
			73930	279.00	280.00	1.00	TR	.110	.11
			73931	280.00	281.00	1.00	TR	.270	.27
239.85	248.68	Altered graphitic. Fuchsite- grain to olive green, to grey-green coloured with 10 to 20% intercalated black graphitic streaks or bands up to 30 cm in width. Highest concentration of graphitic banding from 247.0 to 252.66 m. Konatiite is well fractured to brecciated and strongly altered to fuchsite, sericite or other green minerals. Fine white or grey ankerite veining along fractures. 2 to 4% quartz veining up to 5 cm in width crosscuts local foliation at various orientations. Foliation of konatiite or bedding (?) of graphitic bands averages 20 to 40 degrees to the core axis (generally decreasing down section). Generally trace to 1% finely disseminated or fracture filling pyrite.	73932	281.00	282.00	1.00	TR	.070	.07
			73933	282.00	283.05	1.05	TR	.073	.07
			73934	283.05	284.00	.95	TR	.057	.06
			73935	284.00	285.00	1.00	TR	.020	.02
			73936	285.00	286.00	1.00	TR	.120	.12
			73937	286.00	287.00	1.00	TR	1.100	1.10
			73938	287.00	288.01	1.01	TR	.485	.48
			73939	288.01	289.00	.99	TR	.109	.11
			73940	289.00	290.00	1.00	TR	.130	.13
			73941	290.00	291.00	1.00	TR	.060	.06
			73942	291.00	292.00	1.00	TR	.030	.03
			73943	292.00	293.00	1.00	TR	.220	.22
			73944	293.00	293.97	.97	TR	.097	.10
			73945	293.97	295.00	1.03	TR	.062	.06
			73946	295.00	296.00	1.00	TR	.150	.15
			73947	296.00	297.00	1.00	TR	.120	.12
			73948	297.00	298.00	1.00	TR	.230	.23
			73949	298.00	298.43	.43	TR	.318	.74
248.68	249.01	Felsic TUFF. Light grey, fine grained, weakly foliated at 35 to 40 degrees to the core axis. Weakly silicified. Finely fractured with 5 to 7% pyrite fracture filling. Sharp contacts marked by chloritic - graphitic slips at 35 / 50 degrees to the core axis.	73950	298.43	299.00	.57	1	.068	.12
			73951	299.00	300.00	1.00	1	.540	.54
			73952	300.00	301.00	1.00	TR	.350	.35
			73953	301.00	301.71	.71	TR	.099	.14
249.01	255.15	Altered graphitic. Same as described above from 239.85 to 248.68. Sharp lower contact at 25 degrees to the core axis.							
249.35	249.48	: felsic TUFF as described above from 248.68 to 249.01. 3 to 4% pyrite. Sharp contacts at irregular / 20 degrees to the core axis.							
255.15	271.12	Silicified stringers. Fuchsite- green to olive green to grey-green, fractured to brecciated, well foliated, altered konatiite with 10 to 20% light grey to blue - grey coloured, silicified, weakly ankeritic stringers or bands up to 1 cm in width generally concordant with foliation							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		but occasionally crosscutting. Foliated at average 30 degrees to the core axis but sometimes between 20 and 45 degrees to the core axis. Alteration types inclusion fuchsite (patchy over upper 6 m), patchy sericitic and weak ankerite alteration. Trace pyrite. Minor quartz veining.							
		256.05 256.10 : possible spinifex texture.							
271.12	283.05	Quartz veining. Komatiite becomes more grey-green coloured, fine grained and massive with minor weakly foliated zones. Well fractured and intersected throughout by 20% irregularly oriented white to grey coloured quartz stringers, veins or swarms up to 20 cm in width but generally less than 1 cm in width. Trace pyrite. Good looking zone except for a lack of mineralization and intense alteration.							
283.05	286.00	Patchy silicification. Grey-green to green to olive green coloured, well brecciated and sheared at average 40 to 50 degrees to the core axis. Weak to moderate silicification occurs as grey coloured patches up to 50 cm in width, stringers bands or 5% white to grey coloured quartz veining generally concordant with foliation but sometimes crosscutting. Trace pyrite. Weakly ankeritic.							
286.00	288.01	Flow top. Green coloured, weakly altered, generally undeformed komatiite displaying possible spinifex texture. Sharp lower contact at 20 degrees to the core axis.							
288.01	293.97	Quartz - carbonate veining foliated. Medium green to greenish-grey coloured, fine grained and well foliated at 40 to 55 degrees to the core axis (increasing down section). 10 to 20% quartz - carbonate veining or stringers up to 1 cm in width generally concordant with foliation. Trace pyrite. Locally well brecciated. Lower contact at 25 degrees to the core axis.							
293.97	298.43	Fine grained massive flow. Yellow - green, fine grained, massive and moderately fractured with increasing fracturing, brecciation and quartz - ankerite veining down section after 296.58 m. Trace pyrite. Sheared lower contact at 45 degrees to the core axis.							
298.43	301.71	Brecciated sheared. Dark green to black coloured, well brecciated to sheared at 40 to 50 degrees to the core axis. Wispy sericitic alteration. 10% quartz -							

From	To	Description	Sample	From	To	Length	% Sol	GW	Au g/t
		ankerite veining generally concordant with foliation but also crosscutting. Trace to 1% pyrite. Sharp lower contact at 45 degrees to the core axis.							
301.71	317.03	DIABASE							
		Dark green, fine grained, massive, weakly to moderately magnetic, weakly fractured. 1 to 2% finely disseminated pyrite. Sharp lower contact at 55 degrees to the core axis.							
317.03	333.57	ULTRAMAFIC							
			73961	332.15	332.86	.71	TR-1	.014	.02
			73962	332.86	333.57	.71	1-2	.014	.02
317.03	323.30	Black fine grained massive flow. Black, fine grained, massive, soft, strongly veined with 10 to 20% fine white ankerite veining averaging 40 to 45 degrees to the core axis. Trace pyrite. Becomes more greenish-grey coloured over lower 10 cm. Gradational lower contact.							
323.30	332.15	Flow top. Medium green to greenish-grey, moderately fractured and locally brecciated with well developed spinifer texture throughout. Commonly chlorite fracture filling. Sharp lower contact at 40 degrees to the core axis.							
332.15	333.57	Altered deformed. Grey-green coloured, very brecciated, fractured komatiite with carbonate or graphitic infilling between breccia fragments. Foliated at average 60 degrees to the core axis. Weakly ankeritic. Sericitized. Trace to 3% pyrite. Lower 20 cm consists of grey-green, fine grained, massive felsic TUFF. Lower contact at 35 degrees to the core axis.							
333.57	335.09	GRAPHITIC TUFF							
			73963	333.57	334.33	.76	1-2	.057	.47
			73964	334.33	335.09	.76	1-7	.165	.22

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		75% Black graphitic, chloritic groundmass with 25% yellow - green coloured, angular, fractured konoite fragments and white carbonate fragments up to 3 cm across. Highly kinked foliation (bedding ?) averages 30 to 60 degrees to the core axis. 1 to 2% very finely disseminated pyrite and possibly trace arsenopyrite. Lower contact at 35 degrees to the core axis.							
333.61	333.62	Clay-grit seam at 45 degrees to the core axis. Grey coloured.							
335.08	339.90	FELSIC TUFF	73965	335.08	336.03	1.00		FR .000	.11
		Medium greenish-grey coloured, fine grained, massive to weakly foliated at average 30 to 40 degrees to the core axis. Fine black mafic or white carbonate grains dispersed throughout. Trace finely disseminated pyrite. Lower contact at 50 degrees to the core axis.	73954	338.90	339.90	1.00		1 .310	.01
339.90	344.43	GRAPHITIC TUFF	73955	339.90	341.00	1.10		1 .530	.50
		Black, fine grained, well bedded at average 40 to 50 degrees to the core axis. 25% green mafic, subrounded to angular fragments up to 1 cm size in a black very fine grained chloritic - graphitic matrix. 5 to 10% quartz - carbonate veining concordant with bedding. Bedding is locally highly kinked. 1% finely disseminated patches or clots of pyrite. An interbed or possible fragment of ULTRAMAFIC occurs from 340.34 to 340.67 at 35 / 40 degrees to the core axis. Sharp lower contact at 25 degrees to the core axis.	73956	341.00	342.00	1.00		1 .130	.13
			73957	342.00	343.00	1.00		1 .410	.41
			73958	343.00	344.00	1.00		1 .070	.07
			73959	344.00	344.43	.43		1 .050	.12
344.43	369.42	BASALT							
344.43	345.79	Pillowed flow. Medium green, fine to very fine grained massive pillow centers with poorly to moderately defined, chloritic to sheared to brecciated pillow rims and selvages. Moderately fractured with chloritic infilling along fractures. Trace pyrite in selvages. Locally amygdular.							

From	To	Description	Sample	From	To	Length	Dul	EW	As g/t
345.79	346.69	Mafic intrusive. Medium greenish-grey coloured, fine grained, massive, nonmagnetic. Contacts at 60 / 35 degrees to the core axis.							
346.69	346.62	Pillowed flow. Same as described above from 344.43 to 345.79. Sharp lower contact at 40 degrees to the core axis.							
346.62	346.75	Fine grained massive flow. Dark green, weakly fractured with 10 to 15% finely disseminated leucoxene. Minor veining.							
346.75	345.75	Mafic intrusive. Dark gray, fine grained, massive, nonmagnetic. Variolitic upper contact at 35 degrees to the core axis. Lower contact at 20 degrees to the core axis.							
345.75	346.51	Fine grained massive flow. Same as described above from 342.62 to 346.75.							
346.51	346.95	Mafic intrusive. Same as described above from 344.75 to 345.75. Contact along core axis.							
346.95	349.42	Fine grained massive flow. Same as described above from 342.62 to 346.75.							
349.42		END OF HOLE.							

*K. Kryklywsky
Sept. 22/93*

LEGEND FOR DIAMOND DRILL SECTIONS AND PLAN

ALTD	Altered
BLDR	Boulder
BLK	Black
BXD	Brecciated
CAS	Casing
CLGS	Clay grit seam
CTZ	Contact zone
DEFD	Deformed
DYKE	Dyke
EOH	End of hole
FAZ	Fault zone
FBX	Flow breccia
FEL	Felsic
FGMF	Fine grained massive flow
FMGMF	Fine to medium grained massive flow
FOLD	Foliated
FP	Fault Plane
FT	Flow top
FTBX	Flow top breccia
GPC	Graphitic
MI	Mafic intrusive
MIND	Mineralized
OB	Overburden
OL	Olive green
PATY	Patchy
PF	Pillowed flow
POS	Possible
QC	Quartz-carbonate
QCV	Quartz-carbonate vein
QCVG	Quartz-carbonate veining
QV	Quartz vein
SID	Silicified
SHD	Sheared
SIN	Silicification
ST	Stringers
VG	Veining
V7	Basalt
V9	Tuff
V13	Ultramafic
WY	Weakly
3D	Diabase
3G	Gabbro



Ministry of
Northern Development
and Mines

Ontario

Assess Files

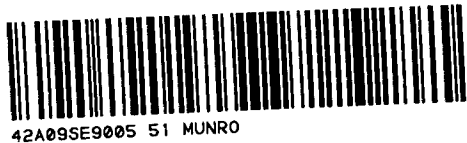
Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
DOCUMENT No. **W 9380-0023**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Instructions: - Please type or print and submit in duplicate.
Refer to the Mining Act



42A09SE9005 51 MUNRO

900

nents of filing assessment work or consult the Mining
GIS - ASSESSMENT FILES
each Work Group.
rm in duplicate.
, must accompany this form.

ONTARIO GEOLOGICAL SURVEY
NOV 15 1993
RECEIVED

Recorded holder(s) DAVID J. MEUNIER	Telephone No. 169976
Address 403 DOME ST. S. PORCUPINE ONT. P3N 1W6	Telephone No. 705-235-5426
Mining Division LARDER LAKE	M or G Plan No. M0376
Township/Area Munro	
Dates Work Performed From: SEPT. 25.90	To: OCT. 17.90

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	DIAMOND DRILLING
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **79,325.00** **39,663.**

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
PHILLIPON DIAMOND DRILLING	829, CHEMIN GRANADA C.P. 788-1 BOUYN QUEBEC J9X-5C7
KEN KRYKLYWY (AUTHOR) AMERICAN BARRICK RES CORP.	KIRKLAND LAKE ONTARIO

(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 SEPT 18 93	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	---------------------------	--

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 DAVID J. MEUNIER P.O. Box 1624 Porcupine Ont P3N 1W6	Date SEPT. 18.93	Certified By (Signature) <i>[Signature]</i>
Telephone No. 705-235-5426		

For Office Use Only

Total Value Cr. Recorded 800	Date Recorded SEPT 23/93	Mining Recorder <i>[Signature]</i>	Received Stamp SEP 28 1993
38863	Deemed Approval Date SEP 23 1993	Date Approved OCTOBER 12/93	10:30
Date Notice for Amendments Sent			

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction
 DOCUMENT NO.
 W9380-00238

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	\$5325	
	Field Supervision Supervision sur le terrain	\$5000	10325
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	DIAMOND DRILLING	\$69,000	69,000
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			79325

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 démoblisation			
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)	

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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
	× 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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	Évaluation totale demandée
	× 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 Recorded Holder I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

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)

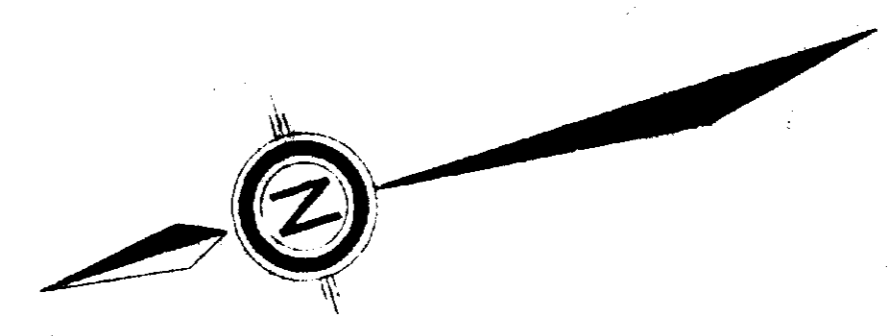
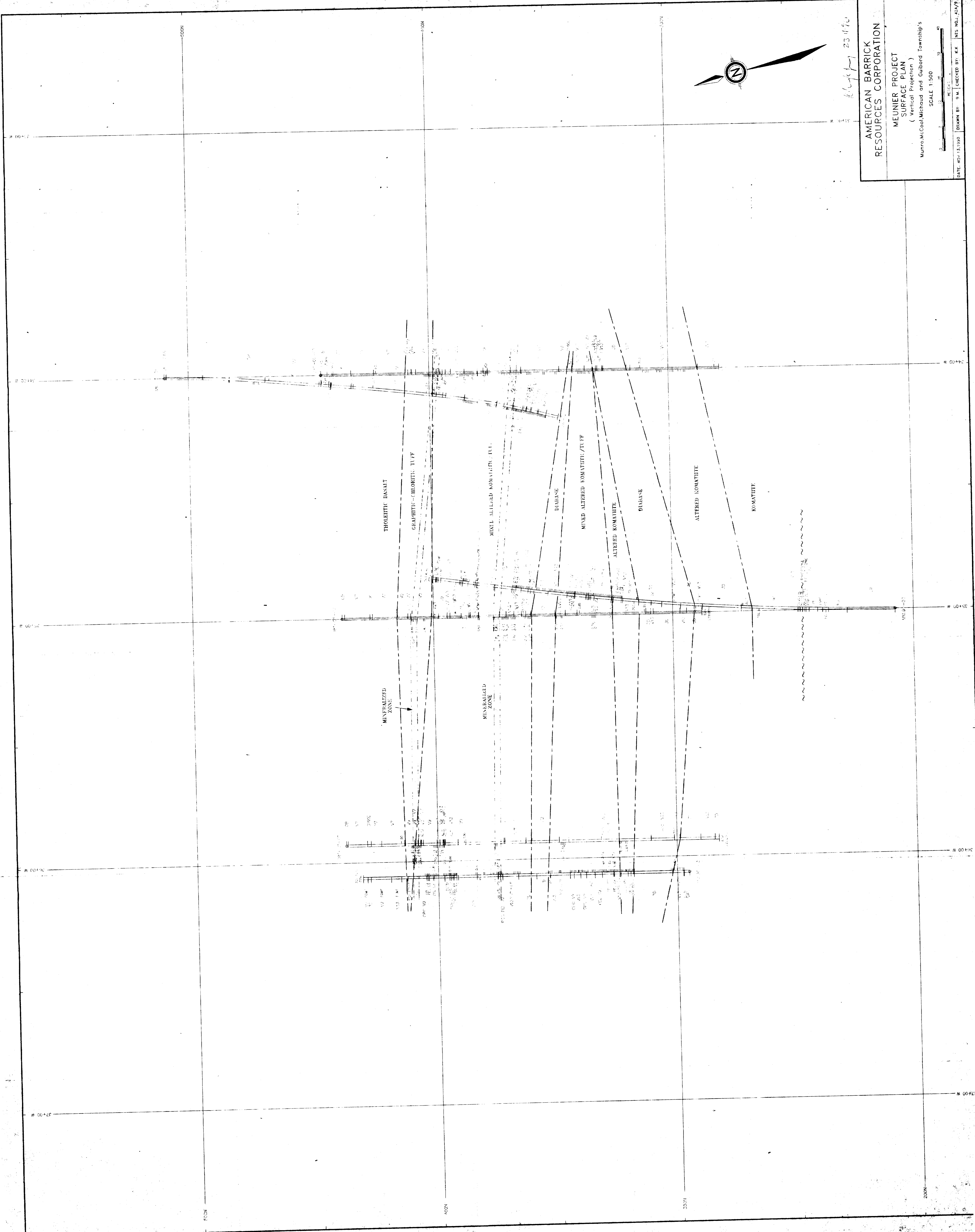
à faire cette attestation.

Signature [Signature] Date Sept 22 93



DAVID J. MEUNIER PROPERTY.			
LOCATION OF DIAMOND DRILL HOLES MM. 90-01 MM. 90-02 AMERICAN BARRECK RES. CORP. NOV. 1970.			
DATE	BY	SCALE	
4-1-73	DMF-1973	1:5000	





23 of 90

AMERICAN BARRICK
RESOURCES CORPORATION

MEUNIER PROJECT
SURFACE PLAN
(Vertical Projection)
Munro, McCool, Michaud and Garbord Township's

SCALE 1:500

DATE: NOV 15, 1990 DRAWN BY: S.M. CHECKED BY: K.K. NTS. NO.: 82479

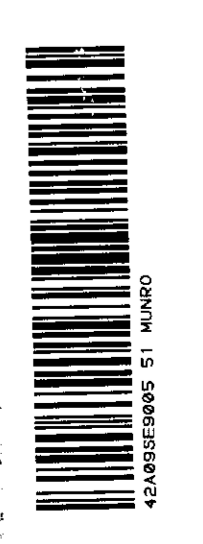
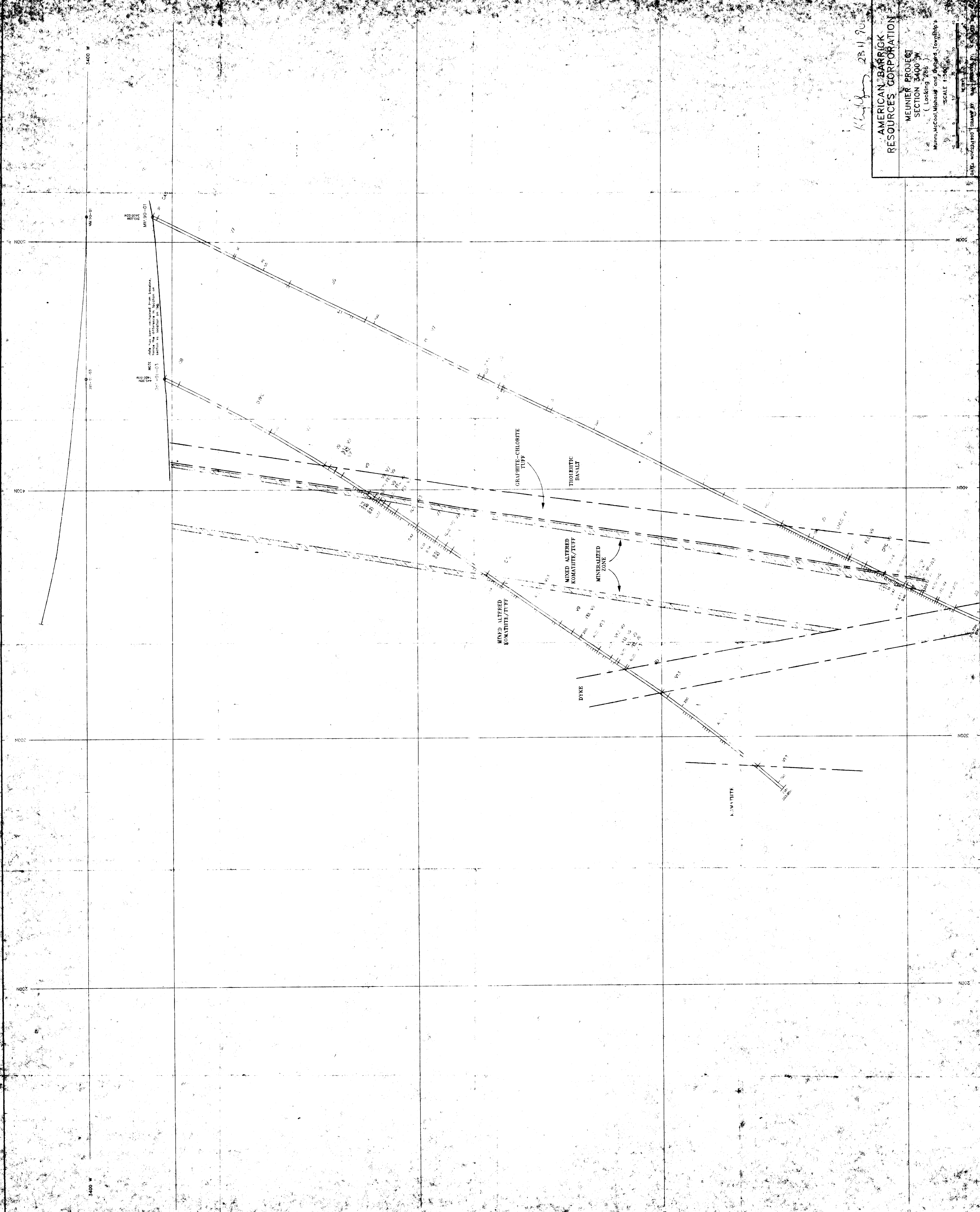
Kelley 28.11.90

AMERICAN BARRICK
RESOURCES CORPORATION

MEUNIER PROJECT
SECTION 3400 W
(Looking 286°)

Munro, McCool, McLeod and Johnson Township's

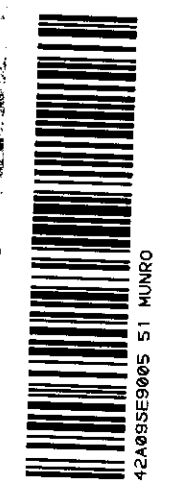
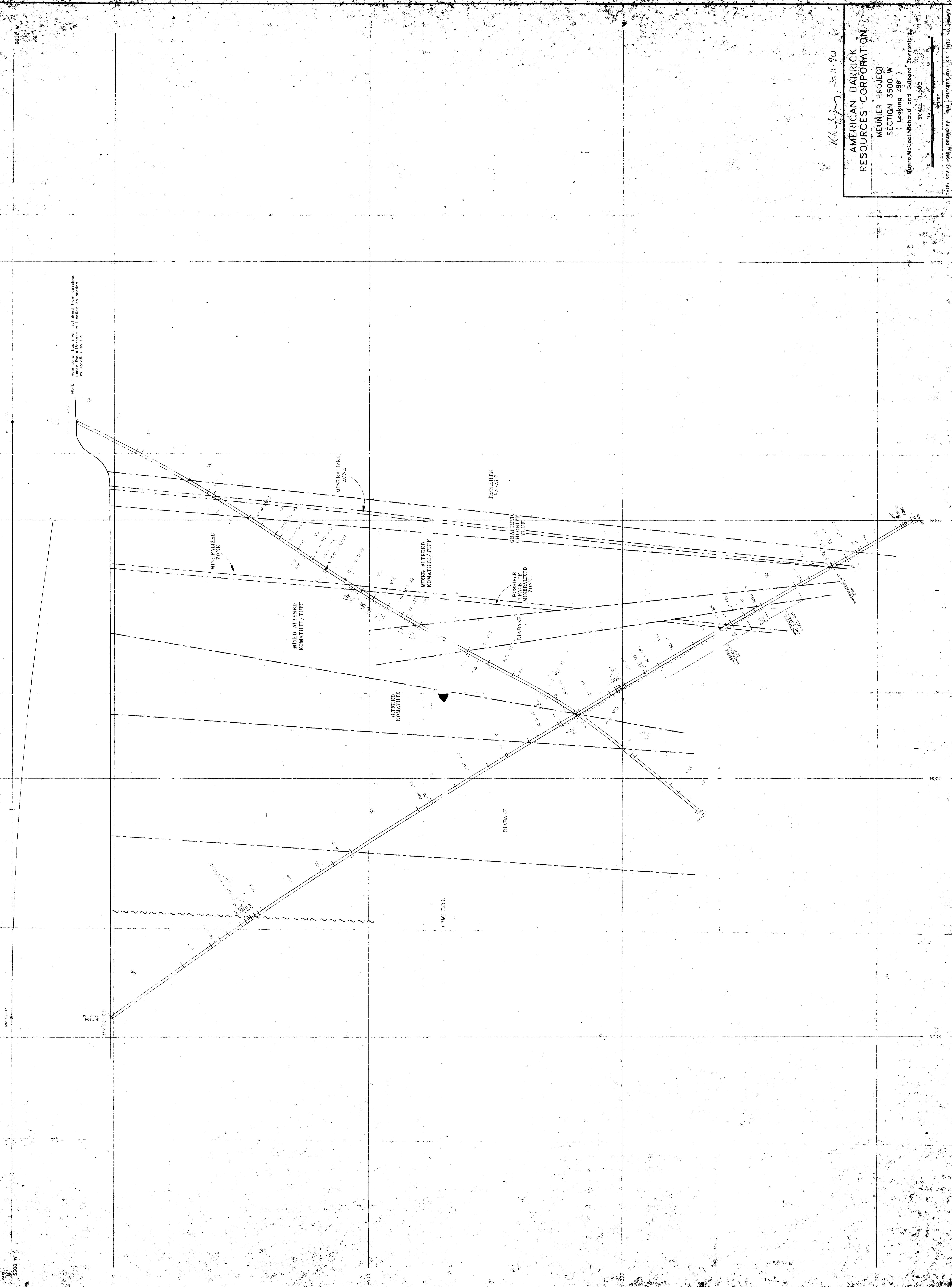
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11/11/90

AMERICAN BARRICK
RESOURCES CORPORATION
MEUNIER PROJECT
SECTION 3500 W
(Looking 286°)
Munro, McCool, Mehard and Gulbord Township
SCALE 1:500
DATE: NOV 22 1990 DRAWN BY: BBA CHECKED BY: K.K. TNS NO. 20472

NOTE
This map shows the location of the
meunier project in relation to the
meunier fault zone.



23 11 90

AMERICAN BARRICK
RESOURCES CORPORATION

MEUNIER PROJECT
SECTION 3600 W
(Loc 3013 29E)
Munro, McCool, McLeod and Gubbard Township's

SCALE 1:500

DATE: NOV 22, 1990 DRAWN BY: B.M. CHECKED BY: J.R.C. I.T.S. NO. 4347

