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Outokumpu Mines Ltd.

Diamond Drilling Report

on the

Adams-Deloro-Eldorado Property

A handwritten signature in black ink, appearing to read 'Paul Davis', with a long horizontal stroke extending to the right.

Paul Davis
Outokumpu Mines Ltd.
February, 1996



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1.0 Introduction

Bradley Bros. Limited was contracted by Outokumpu Mines Ltd. to diamond drill 7 holes on the Adams-Deloro-Eldorado property located in Adams, Deloro, and Eldorado Townships, Porcupine Mining Division, District of Cochrane. The property is comprised of 45 contiguous unpatented mining claims totaling 145 units (Fig. 1).

A total of 2027 metres of BQ diamond drilling was completed in 7 diamond drill holes between November 16 and December 12, 1995. All of the core was logged by Outokumpu personnel at the Outokumpu Mines Ltd office in Timmins, Ontario. Copies of all of the logs are attached in appendix 1 at the back of this report.

The objective of this program was to test the komatiitic stratigraphy on the property. The diamond drilling was concentrated on the komatiitic succession approximately 2 to 6 kilometres west of the Redstone Nickel Mine (Fig. 1). Coincident high magnetic anomalies and electromagnetic conductors were targeted within this diamond drill program.

2.0 Location, Access, and Topography

The Adams-Deloro-Eldorado property is located in Adams (G-3925), Deloro (G-3993), and Eldorado (G-4001) Townships, District of Cochrane, Porcupine Mining Division. The property is situated approximately 16 kilometres south of the City of Timmins. The claim block is located in the northeastern corner of Adams Township, the northwestern corner of Eldorad Township, and the southeastern portion of Deloro Township. The Shaw Creek crosses the property in Deloro Township (Fig. 2).

The northern portion of the property is accessed by a bush road (Shaw Creek Road) that originates by the Buffalo Arkerite Tailings Dam during the spring, summer, and fall. The property was accessed via a winter road off of Mountjor Road which connects to Pine St. South. All roads used were pre-existing exploration or lumber roads.

The area is dominated by muskeg swamp and beaver ponds separated by outcrop ridges and eskers which comprise approximately 5 percent of the property. Outcrop exposure is less than 2 percent and is limited to areas dominated by the ridges.

3.0 Property

The Adams-Deloro-Eldorad property consists of 45 contiguous unpatented mining claims comprising 145 units in Adams, Deloro, and Eldorado Townships (table 1). The property is 100% owned by Outokumpu Mines Ltd.. There are currently no extensions on any of the mining claims within this property.

Komatiite Nickel Exploration Projects: Shaw Dome and Bartlett Dome

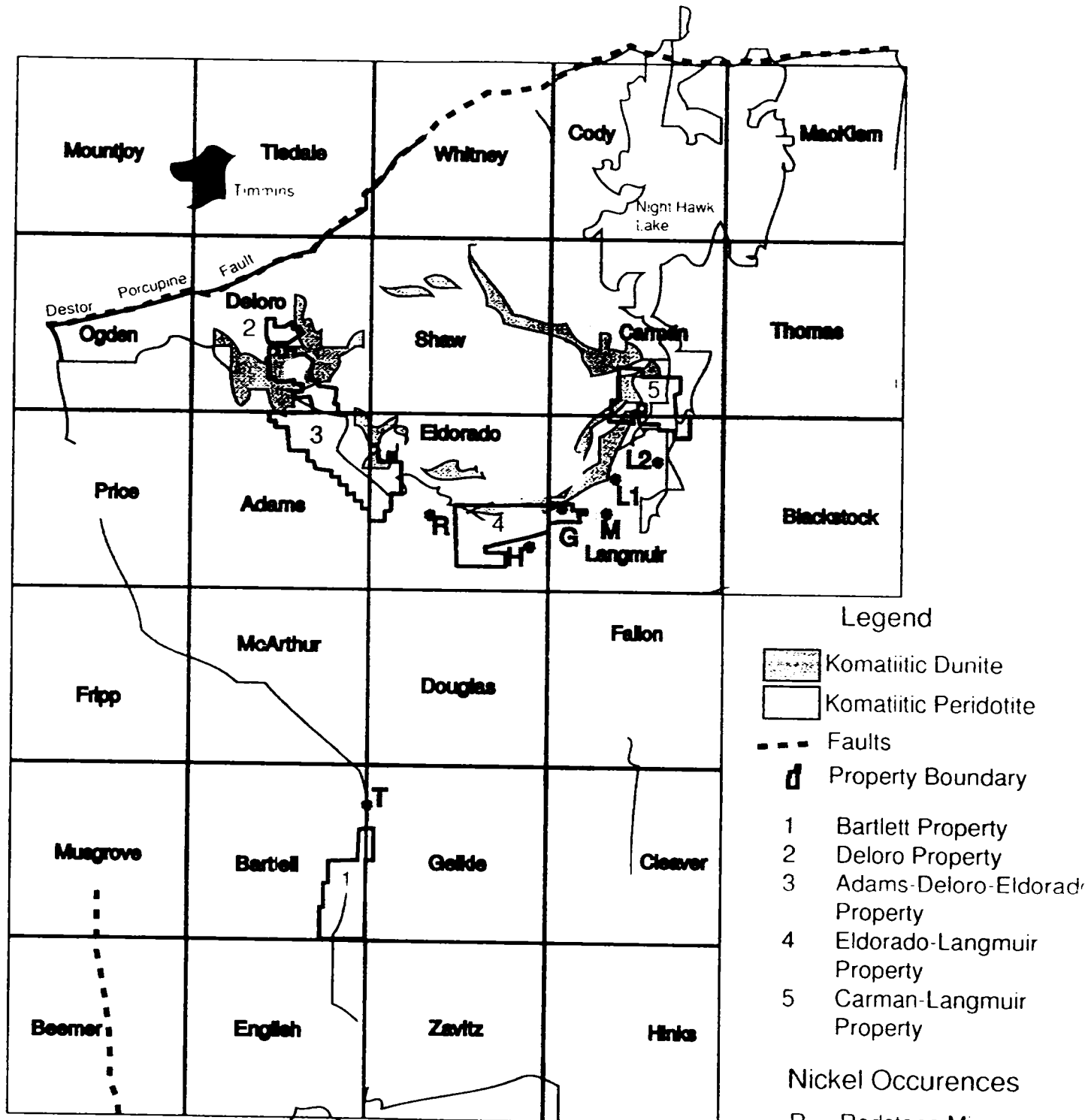


Figure 1: Location Map of Outokumpu Mines Ltd. Timmins Claims Grassroots Exploration Program

Nickel Occurrences

- R Redstone Mine
- L1 Langmuir #1 Mine
- L2 Langmuir #2 Mine
- H Hart Deposit
- M McWatters Deposit
- T Texmont Mine
- G Galata

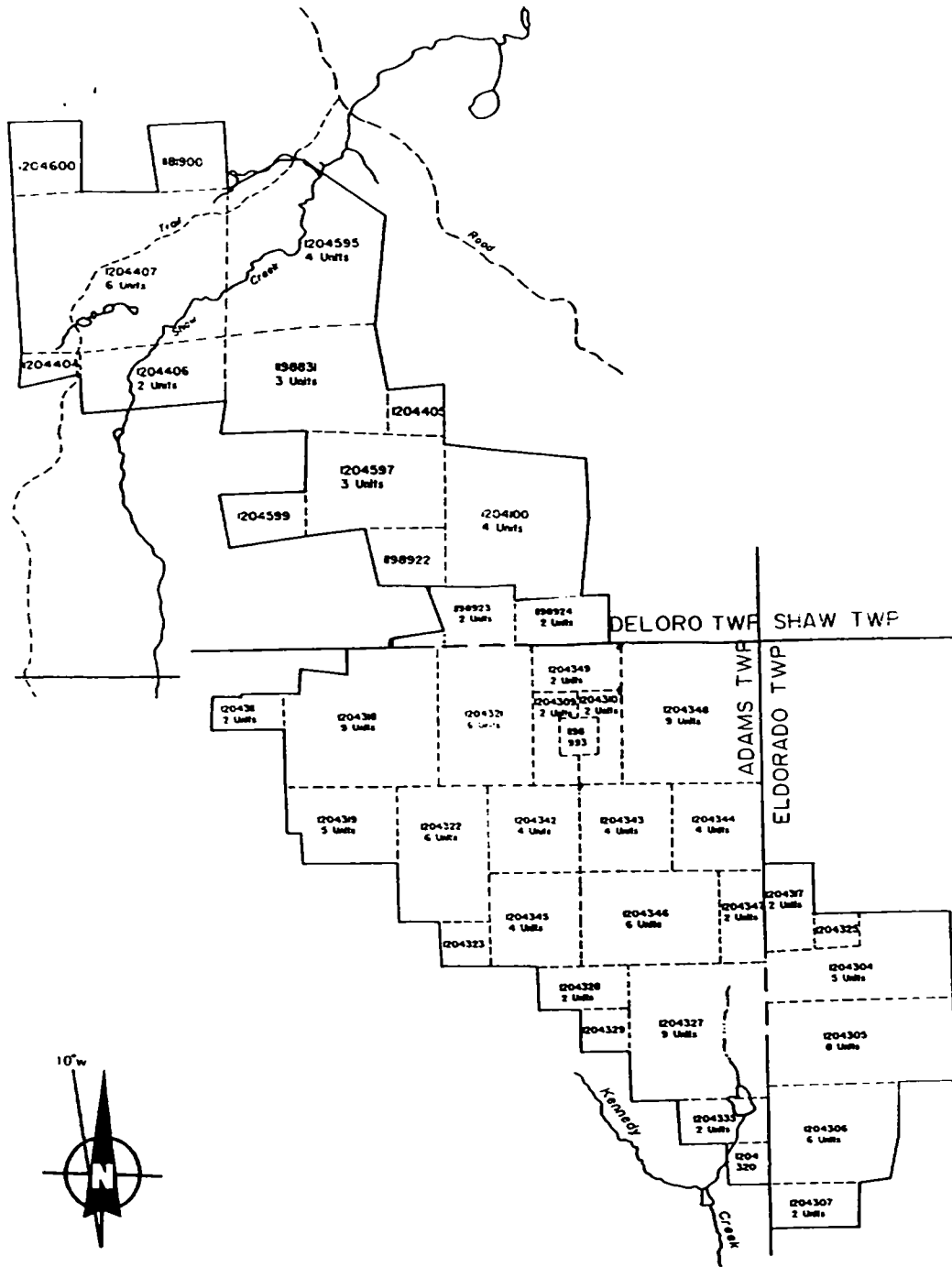


Figure 2: Outokumpu Mines Ltd., Claim Location Map
 Adams, Eldorado, and Deloro Townships.
 Scale 1:40,000

Paul

Claim Number	Township	Number of Unit
1198993	Adams	1
1204098	Adams	3
1204099	Adams	1
1204309	Adams	2
1204310	Adams	2
1204311	Adams	2
1204318	Adams	9
1204319	Adams	5
1204320	Adams	1
1204321	Adams	6
1204322	Adams	6
1204323	Adams	1
1204327	Adams	9
1204328	Adams	2
1204329	Adams	1
1204335	Adams	2
1204342	Adams	4
1204343	Adams	4
1204344	Adams	4
1204345	Adams	4
1204346	Adams	6
1204347	Adams	2
1204348	Adams	9
1204349	Adams	2
1181900	Deloro	1
1198831	Deloro	3
1198922	Deloro	1
1198923	Deloro	2
1198924	Deloro	2
1204100	Deloro	4
1204404	Deloro	1
1204405	Deloro	1
1204406	Deloro	2
1204407	Deloro	6
1204595	Deloro	4
1204597	Deloro	3
1204599	Deloro	1
1204600	Deloro	1
1204304	Eldorado	5
1204305	Eldorado	8
1204306	Eldorado	6
1204307	Eldorado	2
1204317	Eldorado	2
1204325	Eldorado	1
1204399	Eldorado	1

Table 1: Outokumpu Mines Ltd. Property Holdings: Adams-Deloro-Eldorado property.

4.0 Regional Geology

The Adams-DeLoro-Eldorado property is located in the southwestern portion of the Abitibi greenstone belt (Fig. 3). The Abitibi greenstone belt is characterized by east-west trending metasedimentary rocks and metavolcanic rocks that have been intruded by a series of felsic to intermediate plutons and diabase dykes.

The area south of the Destor-Porcupine Fault in the Timmins camp is comprised of a series of calc-alkalic mafic to felsic volcanic rocks, overlain by a series of thick sulphide and oxide iron formations, overlain by komatiitic dunites to basalts which are intercalated with minor proportions of tholeiitic volcanics, and is topped by a thick sequence of komatiitic basalts and tholeiitic mafic to intermediate volcanics. The entire sequence has been intruded by numerous granitic and granodioritic intrusions, tholeiitic dykes and sills, and several generations of diabase dykes.

5.0 Property Geology

The property consists of a succession of calc-alkalic intermediate volcanic rocks, overlain by a discontinuous and sporadic series of dominantly oxide and sulphide iron formation, overlain by a series of komatiitic dunites, peridotites, pyroxenites, and basalts. This stratigraphy is repeated in Adams Township resulting in an inner and an outer komatiite horizons. Diabase dykes cross-cut all other rock types.

The volcanic rocks top to the south as indicated by spinifex textures within the komatiitic flows, strikes roughly east-west, and dips steeply to the southwest as indicated by flow contacts, geophysics, and diamond drill sections. The rocks have been cut by several episodes of brittle faulting which has offset much of the iron formation stratigraphy.

No nickel mineralization has been discovered on the property to date.

6.0 Diamond Drilling

Seven diamond drill holes were completed for a total of 2027 metres of BQ diamond drill core (table 2). The diamond drill core was picked up daily from the drill and transported to the Outokumpu Mines Ltd. office in Timmins, Ontario. The core was then logged and sampled by Outokumpu personnel. Complete diamond drill logs with plans and sections have been attached to the back of this report in appendices 1 and 2.

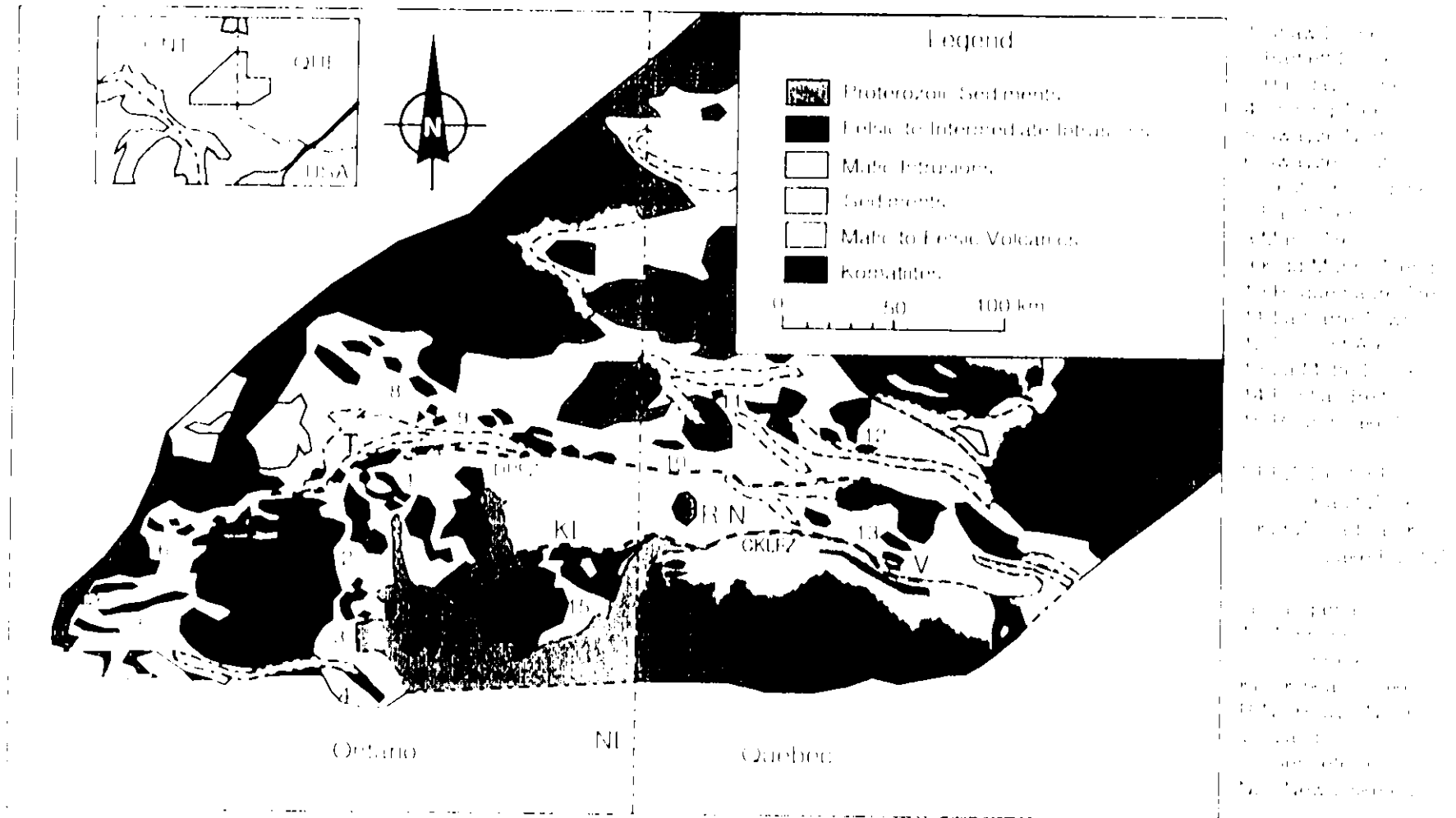


Figure 1. Regional geological map showing the distribution of komatiitic successions in the Abitibi greenstone belt (A-B) and the adjacent Pontiac metamorphic belt (H). (modified from Goodwin and Ridley, 1970; MEI, 1973; and Heather, 1983)

Hole Number	Total Depth
AD-1-95	309m
AD-2-95	254m
AD-3-95	290m
AD-4-95	319m
AD-5-95	293m
AD-6-95	302m
AD-7-95	260m

Table 3: Diamond Drill Hole Depths: Adams-Deloro-Eldorado Property.

7.0 Results and Conclusions

No economic or sub-economic iron-nickel-copper sulphides were intersected within the komatiitic rocks during this diamond drill hole program. Several thick sections of komatiitic peridotites and pyroxenites were drilled, but lacked the sulphide component which hosts the nickel mineralization. Diamond drilling also intersected thick intersections of sulphide and oxide facies iron formation that contains between trace and 90 percent pyrite and pyrrhotite.

Diamond drilling indicated that the komatiitic succession is present on both sides of the iron formations in Adams and Eldorado Townships. Metamorphism and alteration associated with the intrusions, diabase dykes, and shears and faults has resulted in the alteration of komatiitic peridotites and pyroxenites to talc-carbonate and chlorite-tremolite schists, respectively. This pervasive alteration has destroyed many of the igneous textures making accurate rock identifications difficult, but relict spinifex textures and cumulate textures were identifiable in areas with a lesser degree of alteration. The alteration has also destroyed the magnetite component of some of the komatiitic rocks in effect masking their presence on the magnetic survey map and resulting in much thicker and continuous komatiite successions than originally interpreted.

Several alkalic dykes were intersected along the same stratigraphic horizon with high proportions of phlogopite and olivine indicating some late stage, primitive igneous activity.

Minor proportions of pyrite were discovered within the komatiitic rocks, but appears to be the result of secondary sulphide development associated with metamorphism and alteration.

8.0 Recommendations

Additional diamond drilling is recommended for the Adams-Deloro-Eldorado property. This area has not been adequately explored in the past and the stratigraphic associations are not well described due to

poor outcrop exposure. Further diamond drilling may follow a geochemical survey of the soils within the property boundaries.

Appendix 1

Diamond Drill Hole Logs

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	1-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
39+00W	10+50N	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Davis</i>	Nov 24, 1995	Bradley Bros	BQ	Nov 20, 1995	Nov 24, 1995	309

Remarks:Core stored at Hollinger building; Claim #: 1204318

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			10			29	49.5	027	30		
40			50	51		60			70		
80			90			100	53		110		
120			130			140			150	53	
160			170			180			190		
200	54.5		210			220			230		
240			250	54.5		260			270		
280			290			300	54.5		310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
0.0	19.0	Casing	-BW	Casing							
19.0	21.2	Spinifex-textured Komatiite	-rock is light greenish grey, weakly to non-magnetic -core grades downwards from thin randomly oriented olivine blades to coarse olivine books -downhole contact is gradational over 20cm	Kosx							
21.2	28.0	Pyroxenite/ Peridotite	-rock is light greenish grey to light greyish black, massive, aphanitic, serpentinized and tremolitized, non-magnetic -basal 30cm is very blocky, carbonatized -basal contact is sharp and undulatory	Koc				WR	27889	24.0	27.0
28.0	34.6	Spinifex-textured Komatiite	-rock is light greenish grey becoming darker downhole, weakly to non-magnetic -fine randomly oriented minifex over 10cm at uphole contact grading downward into coarse olivine spinifex -33.5-34.6 is a gradational loss of spinifex and increase in olivine (pseudo-morphed by serpentine) phenocrysts -downhole contact is gradational	Kosx							
34.6	42.7	Peridotite/ Pyroxenite	-unit is light grey, speckled with 1mm leucoxene (5-10 %) -weakly to non-magnetic -grades downward into orthocumulate over basal 3m	Koc				WR	27890	38.0	41.0
42.7	68.3	Peridotite	-unit is dark grey, serpentinized (+/- talc magnesite), fairly soft, weakly to non-	Koc/mc				WR	27891	62.0	65.0

DDH Ad1-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Type	Sample		
					%	Type	Mode		Tag #	From	To
			magnetic -basal 3m is greenish grey talcy, very soft (scratch with fingernail) -downhole contact is gradational, the basal 1m has several rounded autobrecciated fragments of peridotite, rounded								
68.3	73.9	Pyroxenite	-unit is light grey, speckled with tremolite -locally autobrecciated -up to 5-7% py+/-po in thin veinlets over basal 1.2m -unit is crosscut by 2-5% carbonate/talc vein assemblage -basal contact is sharp with qtz-carb vein	Koc				WR	27892	69.3	69.9
					5-7	py/po	v,d	AS	13364	72.7	73.9
73.9	76.4	Graphitic BIF	-unit is thinly laminated at 72o to AC.A. -5-10% py+/-po in both fractures and as layers in laminae -unit is an interlayering of black graphitic laminae and brownish grey aphanitic argillaceous sediment -downhole contact is sharp	IF,Sg	5-10	py/po	v	AS	13365	73.9	76.4
76.4	79.1	Pyroxenite	-unit is light grey, highly altered to talc-tremolite, magnesite assemblage -interdigitated with highly altered and BIF fragments over basal 1m -basal contact is sharp	Koc							
79.1	81.3	Feldspar? Porphyry	-highly altered, very hard, massive, fine grained to aphanitic, light reddish brown -crosscut by abundant qtz veins	FPor				WR	27893	79.1	81.3
81.3	85.2	BIF	-predominately thinly laminated	IF,Sg	15-20	py/po	v,b	AS	13366	81.3	82.2

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			graphitic to argillaceous sediments, -strongly carbonatized and cherty from 81.3-81.5 and 84.1-85.2 -py+/-po is up to 15-20%, in laminae and veinlets, particularly 81.3-82.2, and 84.0-85.2					AS	13367	84.0	85.2
85.2	88.8	Pyroxenite/ Peridotite	-unit is light grey, highly altered to talc-tremolite, magnesite assemblage -highly chloritized over basal 1.5m with 1-3% disseminated po -chloritized zone appears to be an autolithic breccia with round peridotite fragments up to 3-4cm -sulphides are disseminated in chloritic matrix	Koc	1-2	po	d	WR	27894	85.2	87.4
								AS	13373	87.4	88.5
88.8	97.8	Andesite	-unit is light grey, non-magnetic, aphanitic to fine grained, and massive -unit appears tuffaceous 95.0-97.8 with a foliation at 70o to C.A., feldspar xenocrysts? up to 1cm are elongate parallel to foliation -upper and lower contacts are sharp	Ad				WR	27895	89.0	92.0
97.8	98.1	Alkalic Intrusive	-rock is pinkish brown with 15-25% phlogopite as both connate and xenocrystal phases -2-5% of rock is pelletal to rounded olivine (<1-1mm) -matrix is a brown aphanitic to fine grained mostly indeterminate assemblage including olivine, pyroxene, and carbonate -upper and lower contacts are sharp	ALa				WR	27896	97.8	98.1
98.1	98.6	Andesitic Tuff	-unit is light grey, non-magnetic, aphanitic to fine grained with up to 40% fragments	Ad							

DDH Ad1-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			of rounded to sub-angular feldspar and aphanitic andesite, generally 1cm, several fragment of andesite from 5-15cm -upper and lower contacts are sharp								
98.6	98.8	Alkalic Intrusive	-rock is pinkish brown with 15-25% phlogopite as both connate and xenocrystal phases -2-5% of rock is pelletal to rounded olivine (<1-1mm) -matrix is a brown aphanitic to fine grained mostly indeterminate assemblage including olivine, pyroxene, and carbonate -upper and lower contacts are sharp	ALa							
98.8	161.3	Andesitic Tuff	-an interval including intercalations of ash, crystal, and lapilli tuff, and massive aphanitic andesite -unit is generally hard, light grey, with 30-40% feldspar grains (2mm-1cm) which appear annealed -occasional lithic fragments of andesite, angular to sub-rounded -unit has a weak foliation at 60-80o to C.A. -some euhedral to subhedral py in a highly sericitized zone 112.6-112.7m -from 133-150m unit contains several heterolithic fragments including basalt and chert, and the matrix becomes a darker grey below 136m -trace disseminated euhedral py at -133.8 and 139.5m -basal contact gradational over 1m	Ad				WR	27897	140.0	143.0
					tr-1%	py	d	AS	13368	112.0	113.0
161.3	178.9	Andesite	-unit is light greenish grey, moderately hard, fine grained to medium grained, non-magnetic, and massive	Ad	tr	py	d	WR	27898	170.0	173.0

DDH Ad1-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			<ul style="list-style-type: none"> -feldspar and quartz comprise up to 50% of unit in a chloritized matrix -unit contains trace euhedral disseminated py -Fe-carb staining in carbonate rich veinlets from 167-172m -uphole and downhole contacts gradational 								
178.9	191.0	Andesitic Lapilli Tuff	<ul style="list-style-type: none"> -unit is light greyish green, up to 30-60% lapilli fragments which are rounded to sub-angular and elongate parallel to a moderate foliation at 65o to C.A. -fragments are fine grained to aphanitic andesite, and several appear to be xenocrystal feldspar -fault zone with abundant qtz-carb alteration and veining from 183.8-184.5 -uphole and downhole contacts are gradational 	Ad							
191.0	208.7	Andesite	<ul style="list-style-type: none"> -unit is light greenish grey, moderately hard, fine grained to medium grained, non-magnetic, and massive -quartz with minor feldspar comprise up to 30% of unit in a chloritized matrix -an alteration zone containing some green carbonate from 198.6-198.9 -uphole and downhole contacts gradational 	Ad	tr	py	d	WR AS	27899 13369	194.0 198.6	197.0 198.9
208.7	222.0	Andesite/Diorite	<ul style="list-style-type: none"> -similar to previous unit but coarser grained, 2-4mm blueish qtz (20%), feldspar (15-20%), chloritized amphibole (20-30%) -basal 0.5m is highly chloritized, contact is obscured in this zone 	Ad				WR	27900	218.0	221.0
222.0	236.0	Talc-Magnesite Altered Peridotite	<ul style="list-style-type: none"> -unit is very soft, talc-magnesite altered, variably light to dark grey, speckled with 	Koc/mc				WR	37101	231.9	232.5

DDH Ad1-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Type	Sample		
					%	Type	Mode		Tag #	From	To
			<p>talc rich porphyroblastic pseudomorphs of olivine and crosscut by abundant talc-magnesite veinlets</p> <p>-unit is weakly to moderately magnetic with trace euhedral py associated particularly with alteration veinlets</p> <p>-there is a chloritized alteration zone (231.9-232.5m) which may be an altered flow top</p>								
236.0	238.4	Feldspar Porphyry	<p>-very hard, silicified, light brownish pink to salmon pink, non-magnetic, trace to 1% disseminated py</p> <p>-basal contact sharp at 10cm quart-carb vein</p>	FPor				WR	37102	236.4	238.4
					tr-1%	py	d	AS	13370	236.4	238.4
238.4	239.3	Talc-Magnesite Altered Peridotite	<p>-unit appears to be an inclusion in feldspar porphyry</p> <p>-unit is mottled light green, soft talc, non-magnetic</p> <p>-uphole and downhole contacts are sharp, with 10cm highly chloritized aphanitic assemblage on both margins</p>	Koc/mc							
239.3	242.1	Feldspar Porphyry	<p>-very hard, silicified, light brownish pink to salmon pink, non-magnetic, trace to 1% disseminated py</p> <p>-basal contact sharp</p>	FPor							
242.1	309.0 EOH	Talc-Magnesite Altered Peridotite	<p>-unit is very soft, talc-magnesite altered, variably light to dark grey, speckled with talc rich porphyroblastic pseudomorphs of olivine and crosscut by abundant talc-magnesite veinlets</p> <p>-there are chloritized alteration zones (244.5-244.7m, 248.2-249.4, and 279.0-279.3) which</p>	Koc/mc				WR	37103	257.0	260.0
								WR	37104	279.0	279.3
								WR	37105	296.0	299.0
					tr	py	d	AS	13371	296.0	299.0
					tr	py	d	AS	13372	299.0	302.0

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			may be altered flow tops -zone from 279.0-279.3 has 2-5% euhedral magnetite and possible spinifex pseudomorphs which are dark green, 3mm by 5-15mm in a chloritized matrix -trace disseminated euhedral py, fine grained, from 287m to end of hole -a highly magnetic zone with euhedral magnetite (2-5%) from 295.7-297.9								

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	2-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
31+00W	13+25N	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Davis</i>	Nov 19, 1995	Bradley Bros	BQ	Nov 16, 1995	Nov 19, 1995	254

Remarks: Core stored at Hollinger building; Claim #: 1204321

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			10			23	50.5	027	30		
40			50	52.5		60			70		
80			90			100	53.5		110		
120			130			140			150	52.5	
160			170			180			190		
200	55.5		210			220			230		
240			250	55.5		260			270		
280			290			300			310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

DDH Ad2-95

From (m)	To (m)	Rock Type	Description	Legend	%	Sulphides Type	Mode	Type	Sample		
									Tag #	From	To
0.00	13.00	Casing	-BW								
13.00	24.60	Talc Magnesite Altered Komatiite	-upper 1.5m of section is surface weathered with thin rusty brown Fe-carb bands Intermixed with carbonate talc assemblage in thin undulating bands (1mm to 1cm) -unit is massive with light brown matrix to creamy white coloured talc-magnesite altered olivines' basal contact zone contains 5-15% disseminated and fracture controlled py +/- po -basal contact is sharp	Koc				WR	27882	20.0	23.0
					5-15	py/po	d,b	AS	13441	24.0	24.8
24.60	31.70	Graphitic BIF	-unit is predominately graphitic chert -a chert fragment sagging into a wacke matrix at 24.7m indicates tops uphole -unit is aphanitic and black, intercalated with gritty really fine grained greywacke -10-15% disseminated and thin laminae of py locally	IF,Sg	10-15	py	d,b	AS AS	13442 13443	24.8 27.8	27.8 31.7
31.70	36.30	Wacke	-unit is mostly thinly laminated wacke bedding 56° to C.A. with occasional 1mm-2cm chert bands -py+/- po is disseminated along thin bands in concentration 1-10%	Sw	1-10	py/po	v,d	AS AS	13444 13445	31.7 34.7	34.7 36.3
36.30	38.40	Graphitic Cherty BIF	-thinly laminated banding at 48° to C.A., black, non magnetic, gradational with uphole unit, sharp contact with downhole unit -pyrite lenses, 1mm to 1cm and parallel to banding, <1mm wide	Sg	5	py	d	AS	13446	36.3	38.4

From (m)	To (m)	Rock Type	Description	Legend	%	Sulphides Type	Mode	Type	Sample		
									Tag #	From	To
38.40	38.60	Feldspar Porphyry	-light greenish grey with a light brown tinge -25-40% feldspar, 1-5mm sub-anhedral in a matrix of fine grained feldspar and chloritized amphibole, massive -uphole and downhole contacts sharp at 55° to C.A.	FPor							
38.60	39.00	Graphitic Cherty BIF	-thinly laminated banding at 48° to C.A., black, non magnetic, sharp contact uphole unit, sharp contact with downhole with both uphole and downhole unit -pyrite lenses, 1mm to 1cm and parallel to banding, <1mm wide	Sg	5	py	d	AS	13447	38.6	39.0
39.00	40.40	Feldspar Porphyry	-light greenish grey with a light brown tinge -25-40% feldspar, 1-5mm sub-anhedral in a matrix of fine grained feldspar and chloritized amphibole, massive -uphole and downhole contacts sharp at 58° to C.A. -unit contains 1-2% po veinlets	FPor	1-2	po	v	AS	13448	39.0	40.4
40.40	43.67	Graphitic BIF	-thinly laminated banding at 48° to C.A., black, non magnetic, gradational with downhole unit, sharp contact with uphole unit -massive py band 3.34-43.42 -po concretions (pseudomorphs after marcasite?) 1-2cm, 10-15% at 43.50-43.67	Sg	10-MS	py/po	d	AS	13449	40.4	43.7
43.67	43.82	Greywacke	-light greyish brown gritty laminated zone -graphitic flame structure indicates tops uphole	Sw							

DDH Ad2-95

From (m)	To (m)	Rock Type	Description	Legend	%	Sulphides		Mode	Type	Sample		
						Type				Tag #	From	To
43.82	48.10	Graphitic BIF	-thinly laminated banding at 83° to C.A., -46.36-46.44 is graphitic fault gouge -gradational downhole contact -massive po band 47.55-47.77 and 47.9-48.1	Sg	2-5 2-MS	py py/po	d d,MS	AS AS	13350	43.8	45.1	
									13351	45.1	48.1	
48.10	56.90	Cherty BIF	-strongly banded unit comprised of bolly white qtz, blue grey chert, and argillite -upto 10% of unit is thin massive po bands with larger bands at 49.01-49.05, 49.26-49.30, and 54.6-54.93 -banding at 80° to C.A	Sg	10	py/po	b	AS	13352	48.1	51.1	
								AS	13353	51.1	54.1	
								AS	13354	54.1	56.9	
56.90	59.36	Greywacke	-gradational with upper unit over 0.7m -thin laminations at 80o to C.A.	Sw	tr-5	py	d,b	AS	13355	56.9	59.4	
59.36	64.30	Cherty BIF	-strongly banded unit comprised of bolly white qtz, blue grey chert, and argillite -upto 10% of unit is thin massive po bands with larger bands of 30%po at 62.5-63.6, and 63.95-64.0	Sg	MS	po	MS,d	AS	13356	59.4	64.3	
64.30	66.13	Argillite	-unit is dark brownish grey, finely banded fine grained -2-5% of unit is feldspar 1-2mm -upper and lower contacts are sharp -trace-5% disseminated py+/- po	Sg,w	5-10	py/po	d	AS	13357	64.3	66.3	
66.13	69.47	Cherty BIF	-strongly banded unit comprised of 20-30% blue grey chert, and argillite -bands generally 1-8mm -trace disseminated py	Sw	tr	py	d	AS	13358	66.1	69.5	

DDH Ad2-95

From (m)	To (m)	Rock Type	Description	Legend	%	Sulphides Type	Mode	Type	Sample		
									Tag #	From	To
69.47	79.10	Greywacke/ Arkose	-unit is thinly laminated at 85-90° to C.A. -light grey to dark grey -5% of unit is crosscutting qtz-carb veins -5-10% of unit is thin massive po bands 2mm-1cm, py disseminated throughout	Sw	5-10	py/po	d,b	AS AS AS	13359 13360 13361	69.5 72.5 75.5	72.5 75.5 79.1
79.10	121.50	Arkose	-unit is light grey, generally massive thinly bedded locally -trace disseminated pyrite locally -upper contact is gradational, lower contact is sharp -5-10% of unit is qtz-carb veins 1mm-5mm, which variably carry up to 1-5% pyrite -pyrrhotite lens 1cm*3mm at 80.3m	St	tr-1	py/po					
121.50	165.40	Diorite	-grey, speckled, medium grained diorite -upper 1.7m is aphanitic to fine grained chilled margin -unit comprises 40-60% euhedral to subhedral plagioclase 2-6mm, 5% fine leucoxene, 30-40% aphanitic matrix with occasional chloritized amphibole blotches upto 7mm -carb-qtz fractures 1% of unit, and are abundant at 145-148m -unit has occasional patches disseminated euhedral pyrite, trace-1% -unit is non-magnetic -basal contact sharp	Di				WR	27883	121.5	123.2
165.40	176.70	Talc Magnesite Altered Peridotite/ Pyroxenite	-unit is dark grey with 40-50% of comprised of talc-carbonate, with talcy blotches 5-7mm and talc-carbonate veins -highly fractured and sheared from 174m to downhole contact at 176.7, basal contact is sharp	Koc				WR	27884	170.0	173.0

From (m)	To (m)	Rock Type	Description	Legend	%	Sulphides Type	Mode	Type	Sample			
									Tag #	From	To	
			-unit is very soft, weakly to non-magnetic									
176.70	177.50	Alkalic Intrusive	-unit is pinkish brown, 15-25% phlogopite, both connate and xenocrystal -10-20% of unit is pelletal to rounded olivine (<1mm-5mm) -matrix is aphanitic and brown, with fine grained whitish mineral (feldspar?) 30-40% -basal part of section is comprised of several veinlets of alkalic intrusive invading diorite, all contacts sharp	ALa				WR	27885	176.7	177.5	
177.50	181.00	Diorite	-unit is pervasively altered to a pinkish grey, protolith is questionable -contacts are sharp -trace sub/euhedral pyrite occurs locally -alteration appears to be silicified, sericitized, and iron stained -least altered sections appear a light greyish green, and aphanitic	Di	tr	py	d					
181.00	181.95	Talc Magnesite Altered Pyroxenite	-unit is dark grey with 40-50% of comprised of talc-carbonate, with talcy blotches 5-7mm and talc-carbonate veins -highly fractured and sheared over basal 0.5m -unit is very soft, weakly to non-magnetic -sharp downhole contact	Koc								
181.95	182.00	Alkalic Intrusive	-unit is pinkish brown, 15-25% phlogopite, both connate and xenocrystal -10-20% of unit is pelletal to rounded olivine (<1mm-5mm) -sharp uphole and downhole contacts, undulatory	ALa								

DDH Ad2-95

From (m)	To (m)	Rock Type	Description	Legend	%	Sulphides Type	Mode	Type	Sample		
									Tag #	From	To
182.00	182.10	Talc Magnesite Altered Pyroxenite	-unit is dark grey with 40-50% of comprised of talc-carbonate , with talcy blotches 5-7mm and talc-carbonate veins -unit is very soft, weakly to non-magnetic -sharp up/downhole contacts	Koc							
182.10	182.15	Alkalic Intrusive	-same as previous alkalic intrusive units i.e. 181.95-182.00 -sharp undulatory contacts with chilled margins	ALa							
182.15	222.70	Talc Magnesite Altered Pyroxenite	-unit is the same as previous intervals of talc magnesite altered pyroxenite in this hole i.e. 165.4-176.7m -there are several 5-30cm zones of highly chloritized aphanitic zones which may represent relict flow tops, although all primary textures are obliterated -uphole and downhole contacts are sharp	Koc				WR	27886	215.0	218.0
222.70	226.80	Feldspar Porphyry	-salmon pink colour, very hard, siliceous, aphanitic matrix with 20-30% eu/subhedral plagioclase phenocrysts -uphole and downhole contacts are margined by 10cm of aphanitic chlorite with sharp contacts	FPor				WR	27887	223.0	226.0
226.80	254.00 EOH	Talc Magnesite Altered Pyroxenite	-unit is the same as previous intervals of talc magnesite altered pyroxenite in this hole i.e. 165.4-176.7m -bolly carb vein at 239.0-239.2m with 1% pyrite	Koc				WR	27888	239	239.2
					tr	py	d	AS	13362	251	254

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	3-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
28+00W	7+00N	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Davis</i>	Nov 28, 1995	Bradley Bros	BQ	Nov 25, 1995	Nov 28, 1995	290

Remarks:Core stored at Hollinger building; Claim #: 1204321

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			17	52.5	027	20			30		
40			50	50		60			70		
80			90			100	51.5		110		
120			130			140			150	52.0	
160			170			180			190		
200	52.5		210			220			230		
240			250	53.0		260			270		
280			290	55		300			310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

DDH Ad3-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
0.00	7.00	Casing	BW								
7.00	16.30	Peridotitic Komatiite	-unit dark grey to black, orthocumulate textured, strongly magnetic, serp. -highly blocky core 7-11m -downhole contact apparently sharp in a 5cm rubbly zone	Koc/mc							
16.30	30.40	Spinifex Textured Komatiite	-light greyish green, weakly to non-magnetic -grades downward from olivine to pyroxene spinifex at 25m, coarsening downhole -there is 15-20cm of olivine orthocumulate at base of unit -downhole contact is sharp	Kosx							
30.40	67.80	Peridotitic Komatiite	-dark grey to black, occasionally spotted with 10-25% light whitish green talc carbonate blotches (40-56m) -trace to 1% po, py 32-35m, 36.5-37.5, and 44-47m -talc-carbonate-serpentine shear at 44.2-44.4m -moderately magnetic -basal 1.7m is strongly serpentized, possibly some flow bottom breccia -downhole contact sharp at 65.0 to C.A.	Koc/mc	tr-1	py/po	d	WR	37106	35.0	38.0
					tr-1	py/po	d	WR	37107	53.0	56.0
					tr-1	py/po	d	AS	13386	32.0	35.0
					tr-1	py/po	d	AS	13387	36.5	37.5
					tr-1	py/po	d	AS	13388	44.2	44.9
					tr-1	py/po	d	AS	13389	53.0	56.0
67.80	74.40	Spinifex Textured Komatiite	-unit is light greyish green -upper 1.5m is brecciated and blocky, contact masked -spinifex is fine, random at 71m, coarsens downward into cumulate at	Kosx				WR	37108	70.0	71.0

DDH Ad3-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			72.8m -74.0-74.4m is flow breccia								
74.40	80.20	Spinifex Textured Komatiite	-unit is light greyish green, weakly to non-magnetic -trace disseminated pyrite associated with alteration veinlet 78.9-79.0m -downhole contact is gradational over 15cm	Kosx							
80.20	84.30	Peridotitic Komatiite	-unit is light to medium dark grey, weakly magnetic -basal 10cm is orthocumulate textured -basal contact is sharp -81.6-84.3m contains zones of flow breccia and orthocumulate peridotite -it appears that overlying flow may have picked up or invaded underlying unit	Koc							
84.30	86.80	Spinifex Textured Komatiite	-unit light grey to light greyish green -fine feathery spinifex grades downhole to coarse crescumulate at 86.0m -upper contact sharp, downhole contact gradational over 20-30cm	Kosx							
86.80	121.70	Peridotitic Komatiite	-unit is medium to dark grey, moderately magnetic, pervasively serpentized with occasional 1m zones of intense talc-carbonatization -1% disseminated py present, mainly in least talc-carb altered zones -basal contact is sharp -basal 0.5m has spotty talc-carbonate alteration	Koc/mc				WR	37113	116.0	119.0
					1	py/po	d	AS	13390	88.7	92.0
					1	py/po	d	AS	13391	92.0	95.0
					1	py/po	d	AS	13392	95.0	98.0
					1	py/po	d	AS	13393	105.3	107.0
					1	py/po	d	AS	13394	107.0	110.0
					1	py/po	d	AS	13395	110.0	113.0
					1	py/po	d	AS	13396	113.0	116.0
					1	py/po	d	AS	13397	116.0	119.0

DDH Au3-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample				
					%	Type	Mode	Type	Tag #	From	To	
121.70	128.20	Spinifex Textured Komatiite	<ul style="list-style-type: none"> -downhole contact is sharp -light green to light grey, carb-filled amygdules at 123.6-124.2m -fine spinifex from 122.2-123.6m, grading into amygdaloidal zone, then coarse spinifex grading into "gabbroic" textured spinifex toward downhole contact 	Kosx				WR	37109	122.0	123.0	
								WR	37110	124.0	126.0	
								WR	37111	127.0	128.0	
128.20	151.10	Diabase/ Basaltic Komatiite	<ul style="list-style-type: none"> -unit is light grey, diabasic textured, fine to medium grained, non-magnetic -trace to 1% pyrite disseminated throughout unit -grades into a pyroxenite 143-151m -basal contact sharp at 70o to C.A. -basal contact appears conformable, possibly unit is a basaltic komatiite 	Db/KBa				WR	37112	129.0	131.0	
								WR	37114	146.0	149.0	
151.10	151.40	Interflow Sediment	<ul style="list-style-type: none"> -unit is composed of graphitic sediment carbonate, and some pyroxenite -foliation 70-75o to C.A. -basal contact and upper contact sharp 	Sg								
151.40	165.20	Pyroxenitic Komatiite	<ul style="list-style-type: none"> -unit is light grey to greyish green -coarse (<1-3cm) olivine and pyroxene spinifex grades into fine spinifex at 152.3-153.2m -grades into pyroxenite orthocumulate at 153.2m -a coarse olivine crescumulate zone at 158.2-159m -2-5% fine (<1mm) leucoxene -non-magnetic, generally serpentinized with a moderately tremolitized and chloritized matrix 	Kosx/oc				WR	37115	155.0	158.0	

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
165.20	183.50	Peridotitic Komatiite	<ul style="list-style-type: none"> -unit generally greyish black with some zones have a light brown tinge -unit weakly to non-magnetic, serpentized with some talc-carbonitized zones -trace-1% po+/-pn+/-py disseminated throughout unit -orthocumulate texture, with a gradational upper contact, sharp basal contact, basal 1.5m is brecciated and talc carbonatized, possibly a flow bottom breccia 	Koc/mc				WR	37116	176.0	179.0
								AS	13399	164.0	165.2
								AS	13400	165.2	167.0
								AS	0501	167.0	170.0
								AS	0502	170.0	173.0
								AS	0503	173.0	176.0
								AS	0504	176.0	179.0
								AS	0505	179.0	182.0
			AS	0506	182.0	183.5					
183.50	183.90	Graphitic Interflow Sediments	<ul style="list-style-type: none"> -sharp but undulatory up/downhole contacts -unit generally black, graphitic with some pyroxenite invading it -10-15% py in bands, foliation 60-70o to C.A. 	Sg				AS	0507	183.5	183.9
183.90	185.10	Pyroxenitic Komatiite	<ul style="list-style-type: none"> -light grey green, non-magnetic -trace pyrite along fracture at 184.8m -cumulate textured with a few fine spinifex zones, non-magnetic, up/downhole contacts are sharp 	Koc							
185.1	213.50	Spinifex Textured Komatiite	<ul style="list-style-type: none"> -unit light greenish grey, non-magnetic -fine spinifex at uphole contact, coarsening downwards to crescumulate zone at 191-195m -grades in and out of ortho/crescumulate toward basal gradational contact noted as a loss of crescumulate 	Kosx				WR	37117	191.0	194.0
								WR	37118	196.0	198.0

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Type	Sample		
					%	Type	Mode		Tag #	From	To
213.50	242.40	Peridotitic Komatiite	-gradational upper contact, unit weakly to non-magnetic, talc-carbonate altered, very soft, black and spotted with 20-75% carbonate blotches 1-4mm -unit cross-cut by 5-10% talc carbonate veins -downhole contact sharp and undulatory	Koc/mc				WR	37119	236.0	239.0
242.40	249.10	Basaltic Komatiite?	-sharp uphole and downhole contacts, may be a mafic dyke -light grey, fine grained salt and pepper -locally crosscut by carbonate veinlets -fine spinifex over basal 0.6m	KBa?				WR	37120	243.0	246.0
249.10	255.10	Pyroxenitic Komatiite	-light grey to greenish mottled grey -moderately to strongly talc-carbonate altered -some crescumulate zones, 30-40cm -basal 2.5m is strongly talc-carbonate altered, very soft and light grey -downhole contact masked in rubble	Koc				WR	37121	253.0	254.0
255.10	276.40	Spinifex Textured Komatiite	-spinifex mostly coarse, upper 8m is strongly talc-carbonate altered, spinifex blades appear to align to foliation at 60-80o to C.A. -non-magnetic, sharp basal contact	Kosx							
276.40	276.70	Mafic Dyke	-light grey, 1-3% disseminated pyrite, sharp undulatory up/downhole contacts -non magnetic, fine grained	MD				WR	37122	276.4	276.7
276.70	277.50	Spinifex	-spinifex mostly coarse, strongly talc-	Kosx							

DDH Ad3-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
		Textured Komatiite	carbonate altered -non-magnetic, sharp basal contact								
277.50	279.50	Mafic Dyke	-light grey, 1-3% disseminated pyrite, sharp undulatory up/downhole contacts -non magnetic, fine grained -inclusion of spinifex textured pyroxenite at 278.15-278.25	MD							
279.50	290.00 EOH	Spinifex Textured Komatiite	-spinifex mostly coarse, strongly talc- carbonate altered -non-magnetic, sharp basal contact	Kosx							

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	4-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
12+00W	18+00N	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Davis</i>	Dec 6, 1995	Bradley Bros	BQ	Dec 6, 1995	Dec 11, 1995	319

Remarks:Core stored at Hollinger building; Claim #: 1204348

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			17			25	49.5	027	30		
40			50	49.5		60			70		
80			90			100	50		110		
120			130			140			150	50.5	
160			170			180			190		
200	50		210			220			230		
240			248	50		260			270		
280			290			300	50.5		310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
0.0	25.0	Casing	-BW								
25.0	26.4	IF	-NW sized reamed boulders -15-26 is mafic volcanic, 26-26.4 is magnetite rich iron formation	IF							
26.4	27.3	Cherty Magnetite Iron Formation	-black, aphanitic, strongly magnetic -basal contact with tuff is gradational over 15cm, thin laminations at 38° to C.A. -laminations of 1mm-4cm massive magnetite and magnetite rich graphitic argillite -15cm from basal contact there is a 1cm band of 20-30% 1-3mm euhedral py	IF, Sg	20-30	py	b,d				
27.3	31.7	Andesitic Tuff	-abundant andesite, chert and wacke fragments (2mm-1cm) comprising 30-70% of unit are angular to rounded in a chloritized leucoxene rich matrix -30-30.4m grades into a chloritized olive green unit (intermediate to mafic volcanic) with 10-20% flow breccia fragments -basal contact gradational over 30cm -30-31.7m 1-2% disseminated pyrite	Ad	1-2	py	d	AS	0560	30.0	31.7
31.7	32.7	Magnetite Iron Formation	-unit black, strongly magnetic with massive magnetite bands interlayered with bands of magnetite-rich graphitic argillite -unit appears to have soft sediment deformation -some bands of massive pyrite (1-2cm) and occasional crosscutting stringers of pyrite (1-2mm, 2-3% of unit) -basal contact sharp at 10-20° to C.A	IF				AS	0580	31.7	32.1

DDH Ad4-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample				
					%	Type	Mode	Type	Tag #	From	To	
32.7	34.2	Intermediate Dyke	-unit is olive green, 20-30% 1mm leucoxene in an aphanitic matrix -unit contains several fragments of magnetite iron formation -unit appears to have intruded soft sed	ID								
34.2	39.4	Magnetite and Cherty Iron Formation	-unit black, strongly magnetic with massive magnetite bands interlayered with bands of magnetite-rich graphitic argillite, and some partly fragmental cherty zones -occasional quartz veins with 40-50% pyrite (36-36.9m) -basal contact gradational over 20cm	IF	40-50	py	MS	AS	0561	36.0	36.9	
39.4	49.5	Andesitic to Basaltic Tuffs and Volcanics	-unit varies from tuffaceous, fragmental to thin massive flows -foliation of tuffaceous units from 30-70° to C.A. -<1% euhedral to subhedral pyrite -unit is chloritized, and locally crosscut by carb and quartz-carb veins which comprise 2% overall -basal contact gradation over 20cm with a bedding contact at 45-50° to C.A.	Ad				WR	37192	41.0	44.0	
49.5	56.0	Magnetite and Cherty Iron Formation	-unit black, strongly magnetic with massive magnetite bands interlayered with bands of magnetite-rich graphitic argillite, and some partly fragmental cherty zones -locally crosscut by quartz-carb veins -basal contact is gradational over 10cm	IF								
56.0	67.6	Andesitic Tuffs and Volcanics	-unit varies from tuffaceous, fragmental to thin massive flows -basal contact gradational over 10cm	Ad								

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			-banding at 35° to C.A.								
67.6	69.6	Magnetite and Cherty Iron Formation	-unit black, strongly magnetic with massive magnetite bands interlayered with bands of magnetite-rich graphitic argillite, and some partly fragmental cherty zones -basal contact masked in 40cm sheared and blocky zone, but appears gradational over 10cm -5-10% euhedral disseminated pyrite in basal 10cm and into shear zone	IF	5-10 5-10	py py	d d	AS AS	0562 0563	67.5 69.5	69.5 70.1
69.6	77.0	Andesitic Tuffs and Volcanics	-unit varies from tuffaceous, fragmental to thin massive flows -contains up to 5-10% magnetite rich bands are subparallel to foliation -basal contact is sharp and undulatory -5-10% euhedral pyrite, 1-7mm, disseminated and in bands 71.4-72.4m and trace pyrite throughout remainder of unit	Ad	5-10	py	d,b	AS	0564	71.4	72.4
77.0	78.0	Magnetite and Cherty Iron Formation	-unit black, strongly magnetic with massive magnetite bands interlayered with bands of magnetite-rich graphitic argillite, and some cherty zones -sharp upper and lower contacts -foliation at 50-60° to C.A.	IF							
78.0	78.7	Andesitic Tuff	-unit comprised of tuffaceous fragments in an andesitic matrix -trace disseminated pyrite throughout unit -basal contact sharp	Ad							
78.7	80.3	Magnetite and	-unit black, strongly magnetic with massive	IF							

DDH Ad4-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample				
					%	Type	Mode	Type	Tag #	From	To	
		Cherty Iron Formation	magnetite bands interlayered with bands of magnetite-rich graphitic argillite, and some cherty zones -banding at 40-60° to C.A -sharp basal contact, trace pyrite throughout									
80.3	96.0	Andesitic to Dacitic Tuffs and Volcanics	-generally a mottled yellowish to greyish colour -a sequence of thin (1-5m) tuffs and flows -5-10% pyrite as disseminations and in bands from 84.5-86m and 94.1-96m -intense carbonate-quartz veining, some smoky grey, crosscut volcanics with 5-10% pyrite -basal contact is masked in quartz-carbonate veins	Ad				AS AS	0565 0566	84.5 94.1	86.0 96.0	
96.0	101.0	Diorite	-salt and pepper grey, silicified, occasionally crosscut by quartz and carbonate veins, 1% of unit overall -unit has 15-25% altered light brown feldspar 1-2mm, an/subhedral with chloritized mafics making up remainder of unit (1-3mm and generally anhedral) -2-3% sub/euhedral pyrite 2mm, disseminated	Di	2-3 2-3	py py	d d	WR AS AS	37193 0567 0568	96.5 96.0 99.0	99.5 99.0 101.0	
101.0	106.0	Talc-carbonatized Gabbro	-unit varies from light greenish to altered rusty yellowed -fairly soft (2-3) 5-10% of unit is black, non-magnetic unaltered fine grained gabbro -upper contact appears gradational over 20cm -core altered salmon pink from 102.5-104 and 105.7-106 -basal contact sharp at 5cm fault gouge	Gb				WR	37194	102.0	105.0	
106.0	122.1	Quartz	-unit is salmon pink, upper 2m is chilled	QFpor				WR	37195	110.0	113.0	

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
		Feldspar Porphyry	-1-3% disseminated pyrite throughout -inclusion of intermediate tuff 119.3-120.2m, sharp contacts -unit is highly silicified, quartz veined and silica flooded 121-122m, with up to 10% pyrite particularly associated with ankerite 30cm from basal contact		1-3 10	py py	d d,b	AS AS	0569 0570	116.0 121.0	119.3 122.1
122.1	123.2	Andesitic Tufts and Volcanics	-unit is highly quartz carbonate altered, with 2-10% disseminated and vein controlled pyrite throughout unit -protolith guess of intermediate volcanic, all primary textures obscured by alteration -basal contact is strongly sheared	Ad	2-10	py	d	AS	0571	122.1	123.2
123.2	127.2	Talc-carbonate Pyroxenite? Gabbro?	-unit varies from light greenish to altered rusty yellowed, fairly soft (2-3) -foliation at 40-50° to C.A. -unit similar to previous talc-carbonate zone, possibly a pyroxenite or gabbro -basal contact highly altered	Gb/Px				WR	37196	124.0	127.0
127.2	137.8	Andesitic Tufts and Volcanics	-a jumbled mess of mostly carbonate and quartz altered intermediate to mafic intrusives? and volcanics -abundant small shears and faults, with some intense quartz carbonate flooded zones -basal contact sharp	Ad?							

DDH Ad4-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
137.8	150.9	Cherty Sulfide and Magnetite Iron Formation	-unit comprised of magnetite and cherty rich layers which grade in and out of each other over both cm and meter scales -unit comprised of 5-15% pyrite as disseminated and matrix, massive to veinlet and banded which grades into an abundance of pyrrhotite as the dominant sulfide below 143.8m	IF	5-15	py	d,b,v	AS	0572	137.8	140.0
					5-15	py	d,b,v	AS	0573	140.0	140.8
					5-15	py	d,b,v	AS	0574	140.8	143.8
					5-15	po/py	d,b,v	AS	0575	143.8	146.7
					5-15	po/py	d,b,v	AS	0576	146.7	150.1
					5-15	po/py	d,b,v	AS	0577	150.1	150.9
150.9	156.5	Talc-carbonate Altered Andesitic Tuff	-unit is mottled light green and white, translucent -light green talc carb is soft (1-2) -White has a relict fragmental appearance, possibly feldspar or rhyolite fragments of which the green material appears to be matrix to -white fragments comprise 20-80%, 1mm to 20cm, angular -5-8% is black blotches, non-magnetic, maybe amphibole, soft -unit grades into a portion from 152.6-154.9m in which matrix green material is a less altered light grey, and this section looks like a tuff -Whole rock taken of grey and green sections -unit weakly foliated at 40-70° to C.A.	Ad?				WR	37197	154.7	154.9
								WR	37198	155.2	156.4
156.5	158.3	Intermediate Dyke	-greyish to salmon pink, 30-40% grey feldspar, 1-2mm, anhedral, in a matrix of mafics -2-5% disseminated pyrite, 1mm, euhedral	ID				WR	37199	156.5	158.3
					2-5	py	d	AS	0578	156.5	158.3
158.3	162.3	Talc-carbonate Altered Andesitic Tuff	-unit same as previous unit (150.9-156.5) -upper and lower contacts sharp at fractures -basal contact has 10cm of blocky core and fault gouge	Ad							
162.3	163.4	Intermediate	-greyish to salmon pink, 30-40% grey feldspar,	ID							

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Type	Sample		
					%	Type	Mode		Tag #	From	To
		Dyke	1-2mm, anhedral, in a matrix of mafics								
163.4	192.2	Andesitic Tufts and Volcanics	-unit same as previous unit (150.9-156.5) until 170.35m below which alteration is far less intense -tufts intercalated with thin 1-2m mafic flows toward downhole contact -trace to 2% disseminated pyrite -unit well-foliated at 50-60° to C.A. -basal contact is gradational	Ad				WR	37200	176.0	179.0
					2	py	d	AS	0579	169.0	170.0
					5	py	b,d	AS	0581	190.2	192.2
192.2	319.0	Andesitic to Basaltic Tufts and Volcanics	-unit is light grey to light greenish grey, mostly massive, aphanitic to fine grained intermediate to mafic volcanics -some interflow units composed of argillaceous sediments (none of which are greater than 1m in size, most of which are 2-10cm) -flows range from 1-15m, and 1-2% overall disseminated pyrite -sulfide-rich intervals, mostly interflow sediment layers, have been assayed -unit is crosscut by 5-7% quartz and quartz- carbonate veins -sections from 214-222m are locally strongly sericitized and illiticified with 5-7% disseminated pyrite -at 222m core becomes darker grey, and flows are massive -255.2-255.5 has 2-15% disseminated pyrite, chalcopyrite bleb in interflow sediment -some green carbonate at 270-270.2 and 277.4- 277.7m	Ad/Ba				WR	37001	209.0	212.0
								WR	37002	236.0	239.0
								WR	37003	266.0	269.0
								WR	37004	299.0	302.0
					5-7	py	d	AS	0582	215.8	216.2
					10-15	py	d,b	AS	0583	219.4	219.7
					10-30	py/cpy	d,b	AS	0584	255.2	255.5
					10-20	py	d,b	AS	0585	256.2	257.1
					1-3	py	d,b	AS	0586	257.1	258.8
					10	py	d,b	AS	0587	258.8	259.8
					2	py	d	AS	0588	270.0	270.4
					1-2	py	d	AS	0589	277.4	277.7
					5-7	py	d	AS	0590	281.2	281.8
					15-20	py	d	AS	0591	288.8	289.2
					2-5	py	d	AS	0592	309.5	309.9

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	5-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
23+00W	18+55N	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Davis</i>	Dec 2, 1995	Bradley Bros	BQ	Nov 29, 1995	Dec 1, 1995	293

Remarks:Core stored at Hollinger building; Claim #'s: 1204349, 1204348

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			10			20			39	49.5	027
40			50	49.5		60			70		
80			90			100	49.5		110		
120			130			140			150	51	
160			170			180			190		
200	51		210			220			230		
240			250	51.5		260			270		
280			293	52.5		300			310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

DDH Ad5-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample		From	To
					%	Type	Mode	Type	Tag #		
0.00	26.00	Casing	-BW								
26.00	118.20	Dunitic Peridotite	-jet black, strongly magnetic, pervasively serpentinized adcumulate -crosscut by veinlets of serpentine, lizardite and chrysotile, bright green and jade-blue green -trace-0.5% fine disseminated pyrite/ pyrrhotite 98-104m -intense alteration occurs at 113m to end of unit, core harder (4-6) light green with a pseudomorphed adcum- ulate texture -basal contact is sharp at a 1cm wide carbonate vein	Kad	0.5 0.5	py/po py/po	d d	AS AS	37140	32.0	35.0
									37141	56.0	59.0
									37142	83.0	86.0
									37143	101.0	104.0
									37144	110.0	113.0
									37145	113.5	118.0
118.20	129.50	Pyroxenite	-light grey to whitish grey, highly talc carbonatized, non-magnetic -basal contact masked in intense alteration zone -basal 2m massive magnesite	Koc							
129.50	154.20	Graphitic Argillites and Wackes	-unit is thinly laminated -upper 1m is highly carbonatized, contact masked in alteration -trace fine grained anhedral pyrite in thin bands 130.5-138m -laminae oriented 40-70° to C.A -unit is dark grey to black laminae alternating with whitish bands to 140m, gradational change to light grey wacke, foliation at 55-60° to C.A. -basal 5m massive, dark grey, gritty wacke, basal contact sharp	Sg.w	2-5	py	d,b	AS	0510	131.0	134.0

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Type	Sample		
					%	Type	Mode		Tag #	From	To
154.20	162.80	Granite	<ul style="list-style-type: none"> -medium grained, 5-10% fine pyrite, reddish pink alteration, bleached for 1m on up/downhole contacts -30-50% chloritized mafics 1-3mm, 40-60% feldspar and quartz, locally crosscut by calcite veins at 159.5 and 161m -basal contact masked in intense sericitic and silicified alteration zone over basal 30cm 	Gr	5-10	py	d	WR AS	37146 0511	155.0 155.0	158.0 158.0
162.80	195.80	Andesitic Tuffs and Volcanics	<ul style="list-style-type: none"> -unit is generally light greyish green -intercalations of tuff and massive flows, 3-10m thick -tuffs have moderate foliation, 60-80° to C.A. -tuffs contain 30-40% fragments of quartz, feldspar, chert, and andesite 2-15mm in size -pyrite present as disseminations in matrix and in quartz-carbonate veinlets which comprise 5% of unit -basal 30cm Fe-stained pink 	Ad				WR WR	37147 37148	167.0 176.0	170.0 179.0
195.80	197.40	Granite	<ul style="list-style-type: none"> -pink, medium grained, highly altered Fe-stained, silicified -sharp upper and lower contacts -unit similar to 154.2-162.8m but more highly altered 	Gr				WR	37149	196.5	197.3
197.40	201.40	Andesitic Tuffs and Volcanics	<ul style="list-style-type: none"> -unit is generally light greyish green -intercalations of tuff and massive flows, 3-10m thick -tuffs have moderate foliation, 60-80° to C.A. 	Ad							

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			-sharp up/downhole contacts								
201.40	204.70	Granite	-same as 154.2-162.8m -basal 1.2m is coarse, basal contact is sharp -basal contact is silica flooded	Gr							
204.70	219.50	Andesitic Tuffs and Volcanics	-unit is generally light greyish green -intercalations of tuff and massive flows, 3-10m thick -tuffs have moderate foliation, 75-85° to C.A. -disseminated pyrite zones up to 5% 1mm, euhedral -basal contact gradational over 30cm	Ad	1-5%	py	d				
219.50	293.00 EOH	Andesitic Volcanics and Tuffs	-generally massive, light grey, 5-10% mafics (pyroxene and amphibole), chloritized, anhedral feldspar 5-10% in a fine grained to aphanitic matrix comprised of feldspar, black to greenish pyroxene, amphibole and chlorite -tuffaceous section from 246-250m with coarse cherty fragments up to 10cm comprising 10-20% of zone with 5% euhedral pyrite also in zone	Ad				WR	37150	227.0	230.0

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	6-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
23+00W	16+40N	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Paris</i>	Dec 6, 1995	Bradley Bros	BQ	Dec 2, 1995	Dec 5, 1995	302

Remarks:Core stored at Hollinger building; Claim #: 1204310

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			10			20			30		027
47	51	027	50			60			70		
80			90			100	51.5		110		
120			130			140			150	49.5	
160			170			180			190		
200	52		210			220			230		
240			250	53		260			270		
280			293			300	55		310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
0.00	40.00	Casing	BW								
40.00	115.00	Talc-Magnesite Altered Peridotite/ Pyroxenite	-unit is mottled, whitish grey to light greenish grey, weakly to moderately magnetic, soft (1-3) -40-48m has a brown tinge, probably from reaction to meteoric water -unit crosscut by 5-30% talc-carbonate veins and veinlets -magnetite blotches, 2-3mm, comprise 3-10% of unit -unit becomes darker grey downhole from 90m to end of unit -at 115m there is a drastic loss of talc-carbonate at a talc-carbonate vein i.e. below vein the peridotite is serpentinized but not talc-carbonatized	Koc				WR	37172	50.0	53.0
								WR	37173	74.0	77.0
								WR	37174	104.0	107.0
								WR	37175	119.0	122.0
115.00	184.00	Peridotite	-unit is dark grey to black, moderately to strongly magnetic, pervasively serpentinized -meso/adcumulate texture occasionally -up to 5-15% tremolitized pyroxene present locally -serpentine veinlets comprise 2-5% -occasional presence of carbonate veins 1% of unit overall -gradational downhole contact with dunite at 180-184m -rubby zones 164.5-168.0 and 179-182m	Koc/mc				WR	37179	155.0	158.0
184.00	302.00	Dunite	-unit has an adcumulate texture with three major alteration types with corresponding magnetic signatures: talc-carbonatized zones are weakly	Kad		green tc carb dk gr. to dk bk		WR	37180	176.0	179.0
								WR	37181	186.0	188.0
								WR	37182	230.0	233.0
								WR	37183	269.0	272.0

DDH Ad6-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Type	Sample		
					%	Type	Mode		Tag #	From	To
			magnetic, apple-green serpentinite are moderately magnetic, and dark black serpentinitized strongly magnetic zones -230-247m and 283-302m are talc- carbonate zones -serpentinitized olivine pseudomorphs 2-7mm with 120° junctions -very trace (<0.2%) disseminated py noted variably throughout unit, some samples taken for petrography			tc carb		WR	37184	284.0	287.0
					tr	py	d				

Area/Township	N.T.S.	Year	Project
Adams Township	42-A-6	1995	Abitibi Komatiite

Hole Sign	Hole No	Bearing Survey Grid °/Grad	Bearing N.T.S. Grid °/Grad
AD	7-95	027	027

Co-ordinates: X/M m cm	Co-ordinates: Y/L m cm	Co-ordinates: Z m cm
14+00E	9+75S	300

Logged By	Date	Drilled By	Core Size	Started	Finished	Hole Length
PAV <i>Paul Pava</i>	Dec 16, 1995	Bradley Bros	BQ	Dec 12, 1995	Dec 15, 1995	260

Remarks:Core stored at Hollinger building; Claim #: 1204306

Paul

Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth	Depth	Dip	Azimuth
0			14	51.5	027	20			30		027
40			50	52.5		60			70		
80			90			100	52		110		
120			130			140			150	49.5	
160			170			180			190		
200			210			220			230		
240			250			260	52		270		
280			293			300			310		
320			330			340			350		
360			370			380			390		
400			410			420			430		
440			450			460			470		
480			490			500			510		
520			530			540			550		
560			570			580			590		
600			610			620			630		
640			650			660			670		
680			690			700			710		
720			730			740			750		
760			770			780			790		
800			810			820			830		

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample				
					%	Type	Mode	Type	Tag #	From	To	
0.0	10.0	Casing	-BW	Casing								
10.0	22.8	Basaltic Tuffs and Volcanics	-core is highly surface weathered, blocky -some relict sections appear tuffaceous and others appear as massive basalt	Ba								
22.8	42.5	Talc-carbonate Altered Pyroxenite?	-light grey, non-magnetic talc-carbonatized, several 10cm sections appear flow brecciated indicating that flows are thin -unit may be a talc carbonate altered mafic or pyroxenite -basal 2m blocky, and moderately foliated at 50-60° to C.A.	Koc				WR	37005	35.0	38.0	
42.5	51.0	Graphitic Argillites and Wackes	-non-magnetic graphite and graphitic argillite intercalated with wackes and possibly thin mafic volcanics (which carry some eggshell breccia fragments of graphitic argillite) -unit contains 2-5% disseminated to banded pyrite overall -some bolly white quartz carb veins 10-30cm occur randomly throughout section	Sg,w	2-10 2-5 2-5	py py/po py	b,d b,d b,d	AS AS AS	0593 0594 0595	43.2 45.5 48.5	45.5 48.5 51.0	
51.0	61.7	Wacke	-unit is thinly laminated, light greyish brown -laminae at 70-90° to C.A. with 30-50% angular wacke fragments -trace to 2% pyrite and pyrrhotite locally in thin laminae -basal contact sharp	Sw				WR	37006	58.0	61.0	
61.7	95.9	Graphitic Argillite	-unit comprised 80% of graphite and graphitic argillite, remainder of section are some intervals of wacke	Sg	10-15	py/po	d,b	AS AS AS	0596 0597 0598	62.0 65.0 68.0	65.0 68.0 71.0	

DDH Au7-95

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			<ul style="list-style-type: none"> -wacke units contain eggshell breccia fragments of graphitic argillite -small bands of massive magnetite comprise 5% of argillite -86-90m has abundant graphite and graphitic gouge-rich sections -sulfide pyrite and pyrrhotite are abundant, 10-15% overall and particularly in assayed zones -wacke sections contain some minor sulfide pyrrhotite clasts -basal contact is gradational 					AS	0599	71.0	74.0
								AS	0600	74.0	77.0
								AS	0601	77.0	80.0
								AS	0602	80.0	83.0
								AS	0603	83.0	86.0
								AS	0604	86.0	89.0
								AS	0605	89.0	92.0
								AS	0606	92.0	95.0
95.9	105.7	Wacke and Graphitic Argillite	<ul style="list-style-type: none"> -unit is comprised of 80% wacke, brown and gritty, with some 20% thin 20-40cm black graphitic argillite zones -foliation 0-70° to C.A. -both wackes and argillites contain 2-10% pyrite and pyrrhotite, as disseminations and bands, locally massive -gradational downhole contact over 3m 	Sg,w	2-10	py/po	d,b	AS	0607	95.0	98.0
					2-10	py/po	d,b	AS	0608	98.0	101.0
					2-10	py/po	d,b	AS	0609	101.0	103.4
					2-10	py/po	d,b	AS	0610	103.4	105.0
					MS	py/po	MS	AS	0611	105.0	105.1
					2-10	py/po	d,b	AS	0612	105.1	108.1
105.7	149.0	Iron Formation	<ul style="list-style-type: none"> -unit is mottled mishmash of chert 20%, magnetite bands 30%, wacke 20%, and argillite (20%) comprised of 5% graphite -all of these units are jumbled up over 1-10 cm as fragments and soft sedimentary deformed units -pyrrhotite comprises 10% of unit overall, occasionally massive over 10cm sections -pyrrhotite mostly occurs in matrix to fragments but also as veinlets, bands, and replacing graphitic argillite; it is occasionally massive over 10cm sections -sulphide is less abundant downhole i.e. 134 to end of unit pyrrhotite is 2-5% overall, and magnetite is 10-15% of this interval in bands 2mm to 25cm 	IF	10	po	d,b	AS	0613	108.1	110.0
								AS	0614	110.0	113.0
								AS	0615	113.0	116.0
								AS	0616	116.0	119.0
								AS	0617	119.0	122.0
								AS	0618	122.0	125.0
								AS	0619	125.0	128.0
								AS	0620	128.0	131.0
								AS	0621	131.0	134.0
								AS	0622	134.0	137.0
								AS	0623	137.0	140.0
								AS	0624	140.0	141.4
								AS	0625	141.4	142.7
								AS	0626	142.7	143.2
								AS	0627	143.2	146.0
								AS	0628	146.0	148.4

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
			-downhole contact is sharp					AS	0629	148.4	149.0
149.0	153.9	Mafic Tuff	-unit is dark grey to dark greyish brown -fragments are basaltic and rounded to sub-angular, 1mm-7cm -matrix is fine grained to aphanitic, and locally magnetite rich with 2-5% disseminated pyrite	Ba	2-5	py	d				
153.9	188.9	Andesite to Basalt	-unit light to dark grey, massive flows -interflow tufts and sediments contain 5-10% pyrrhotite and pyrite, as disseminations and as bands over assayed -foliation at 50-60° to C.A. -local carb-filled amygdules 1-2%, basal 0.5m is silica flooded, and basal contact is sharp	Ad	10 5 5-7 2-5 2-5 2-5	po/py po/py po/py po/py po/py po/py	d,b d,b d,b d,b d,b d,b	WR AS AS AS AS AS	37007 0639 0640 0641 0642 0643 0647	167.0 164.9 170.2 177.1 177.7 180.8 188.0	170.0 165.3 170.6 177.7 179.4 181.9 188.9
188.9	193.9	Diorite	-unit is medium grained, salmon pink to greenish grey -feldepar 20-30% an/subhedral, 2-3mm; mafics remainder of section, mostly amphibole and pyroxene, 3-4mm -disseminated pyrite 2-5% overall -basal 30cm is blocky -unit is locally silica flooded and crosscut by quartz carbonate veins	Di	2-5 2-5	py py	d d	AS AS	0644 0645	188.9 191.9	191.9 193.6
193.9	213.0	Talc-magnesite Altered Pyroxenite	-unit is mottled grey to whitish grey talc-carb altered, soft, and weakly magnetic -very trace disseminated pyrite locally -some thin aphanitic chloritic zones may indicate relict flow contacts i.e. 202-203m, 210-211.2m and 212.2-213m -locally unit contains porphyritic black blotches 2-3%, which are non-magnetic, 1-2mm, and very soft	Koc	1	py	d	WR AS	37008 0646	194 196.0	197 197.0

From (m)	To (m)	Rock Type	Description	Legend	Sulphides			Sample			
					%	Type	Mode	Type	Tag #	From	To
213.0	215.3	Diorite	-unit is medium grained, salmon pink to greenish grey -feldspar 20-30% an/subhedral, 2-3mm; mafics remainder of section, mostly amphibole and pyroxene, 3-4mm -disseminated pyrite 2-5% overall	Di				WR	37009	213.0	215.3
215.3	260.0	Talc-magnesite Altered Pyroxenite	-unit is mottled grey to whitish grey talc-carb altered, soft, and weakly magnetic -aphanitic chloritic zone at 215.3-215.6m with some fault gouge - local zones of massive magnesite veinlets -unit also crosscut by 5% talc carbonate veins which are randomly oriented	Koc				WR WR	37010 37011	216.0 245.0	219.0 248.0

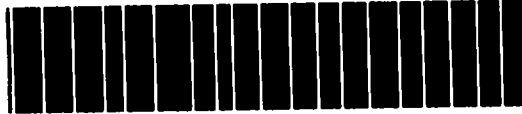


Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9660.00064

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



42A06SE0056 W9660-00064 SHAW

900

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

Recorded Holder(s) <i>Outokunyan Mines Ltd.</i>		Client No. <i>178525</i>
Address <i>P.O. Box 1123, Suite 20a, 637 Algonquin Blvd E., Timmins, Ontario, P4N 7H9</i>		Telephone No. <i>(705) 264-5024</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Adams, Deloro, Eldorado Townships</i>	M or G Plan No. <i>G-3925, G-3993, G-4001</i>
Dates Work Performed From: <i>November 16, 1995</i>		To: <i>December 15, 1995</i>

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	<i>Diamond Drilling</i>
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECORDED
FEB 7 1996

Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ *94,863*

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
<i>Bradley Bros. Limited</i>	<i>P.O. Box 485, Timmins, Ontario, P4N 7E7</i>
<i>Paul Davis Outokunyan Mines Ltd.</i>	<i>P.O. Box 1123, Timmins, Ontario, P4N 7H9</i>

(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 <i>Jan 16/96</i>	Recorded Holder or Agent (Signature) <i>Paul</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 <i>Paul Davis, Outokunyan Mines Ltd., P.O. Box 1123, Timmins, Ontario, P4N 7H9</i>		
Telephone No. <i>(705) 264-5024</i>	Date <i>Jan 16/96</i>	Certified By (Signature) <i>Paul</i>

For Office Use Only

94,863	Total Value Cr. Recorded	Date Recorded <i>FEB 7/96</i>	Mining Recorder	
	Deemed Approval Date <i>MAY 7/96</i>	Date Approved <i>MAY 6/96</i>		
	Date Notice for Amendments Sent			

Work Report #	Claim #	Units	Value of Assessment	Value Applied	Value Assigned	Reserve Work
	1198893	1	0	800	0	0
	1204098	3	0	1200	0	0
	1204099	1	0	800	0	0
	1204309	2	0	1600	0	0
	1204310	2	14134	1600	13966	168
	1204311	2	0	1600	0	0
	1204318	9	14461	7200	13703	758
	1204319	5	0	2000	0	0
	1204320	1	0	400	0	0
	1204321	6	25459	4800	24954	505
	1204322	6	0	4800	0	0
	1204323	1	0	400	0	0
	1204327	9	0	7200	0	0
	1204328	2	0	800	0	0
	1204329	1	0	400	0	0
	1204335	2	0	800	0	0
	1204342	4	0	3200	0	0
	1204343	4	0	3200	0	0
	1204344	4	0	3200	0	0
	1204345	4	0	3200	0	0
	1204346	6	0	4800	0	0
	1204347	2	0	1600	0	0
	1204348	9	20755	3600	19997	758
	1204349	2	7886	1600	7717	169
	1181900	1	0	800	0	0
	1198831	3	0	2400	0	0
	1198823	2	0	800	0	0
	1198824	2	0	800	0	0
	1204100	4	0	1600	0	0
	1204404	1	0	800	0	0
	1204406	2	0	1600	0	0
	1204407	6	0	4800	0	0
	1204595	4	0	3200	0	0
	1204597	3	0	2400	0	0
	1204599	1	0	800	0	0
	1204600	1	0	800	0	0
	1204304	5	0	2000	0	0
	1204305	8	0	3200	0	0
	1204306	6	12168	2400	11663	505
	1204307	2	0	800	0	0
	1204317	2	0	800	0	0
	1204325	1	0	400	0	0
	1204399	1	0	800	0	0
		145	94863	92000	92000	2883

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

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

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

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

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

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

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

W9660.00064

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		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
	Diamond Drilling	47,063	47,063
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			47,063

2. Indirect Costs/Coûts indirects

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

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

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

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

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

Valeur totale du crédit d'évaluation	x 0.50 =
--------------------------------------	----------

Certification Verifying Statement of Costs

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

that as a Project Geologist 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.

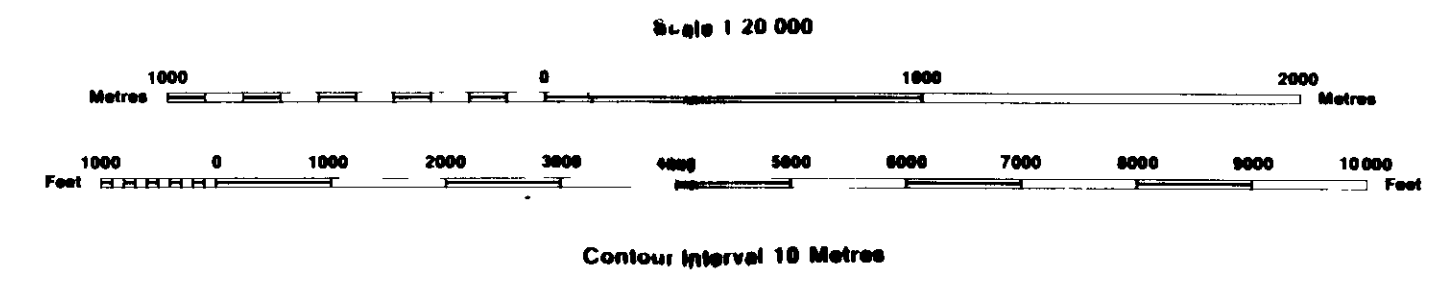
Signature <u>Paul</u>	Date <u>Jan 14/96</u>
--------------------------	--------------------------

INDEX TO LAND DISPOSITION

PLAN
 G-4001
 TOWNSHIP

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

ELDORADO



AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
SRO - Surface Rights Only
M + S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
Gravel	G1		GRAVEL, FILE 192287	
Gravel	G2		GRAVEL, FILE 171598 AND FILE 172954	
Ducks Unlimited - Pending Application Under The Public Lands Act S.R.O. Withdrawn	D1			
Ducks Unlimited - Pending Application Under The Public Lands Act S.R.O. Withdrawn	D2			


SYMBOLS

- Boundary
- Township, Meridian, Baseline
- Road allowance, surveyed shoreline
- Lot/Concession, surveyed unsurveyed
- Parcel, surveyed unsurveyed
- Right-of-way, road railway utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway, single track double track abandoned
- Road, highway, county, township access trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

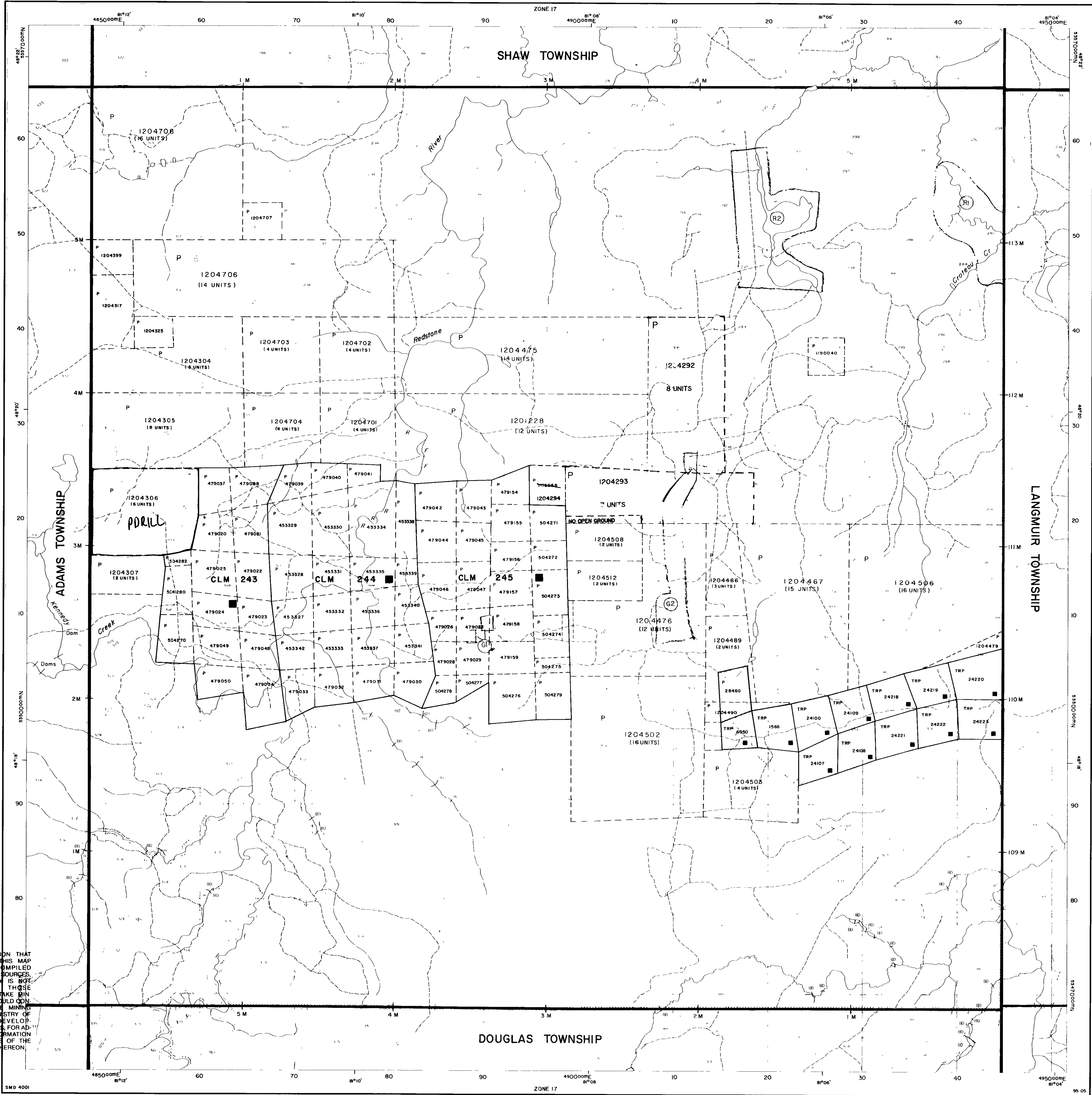
DISPOSITION OF CROWN LANDS

- 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
- Cancelled
- Reservation
- Sand & Gravel

ACTIVATED JULY 11, 1995 BY


 Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only



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

MAP SYMBOLOGY

Aerial Cables	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Interprovincial	Double Track
State, Township, Indian Reserve	Abandoned
Approximate	Turbine
Lat. Concession	Road
Approximate	Highway County
Park Boundary	Tramway
Approximate	Access (road of doubtful maintenance or unimproved driveway)
Bridge	Tram, Bark Road (single track)
Road, Railroad	Rapids
Building	Double line river with multiple rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Reservoir
Contours	River, Stream, Canal
Interpolated	Approximate
Approximate	Approximate
Control Points	Approximate
Horizontal	Approximate
Vertical	Approximate
Culvert	Approximate
Falls	Approximate
Double line river	Approximate
Fence, Hedge, Wall	Approximate
Feature Outline (Construction Features, etc.)	Approximate
Flooded Land	Approximate
Lock	Approximate
Marsh or Swamp	Approximate
Mast	Approximate
Mine Head Frame	Approximate
Outcrop	Approximate

AREAS WITHDRAWN FROM DISPOSITION

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

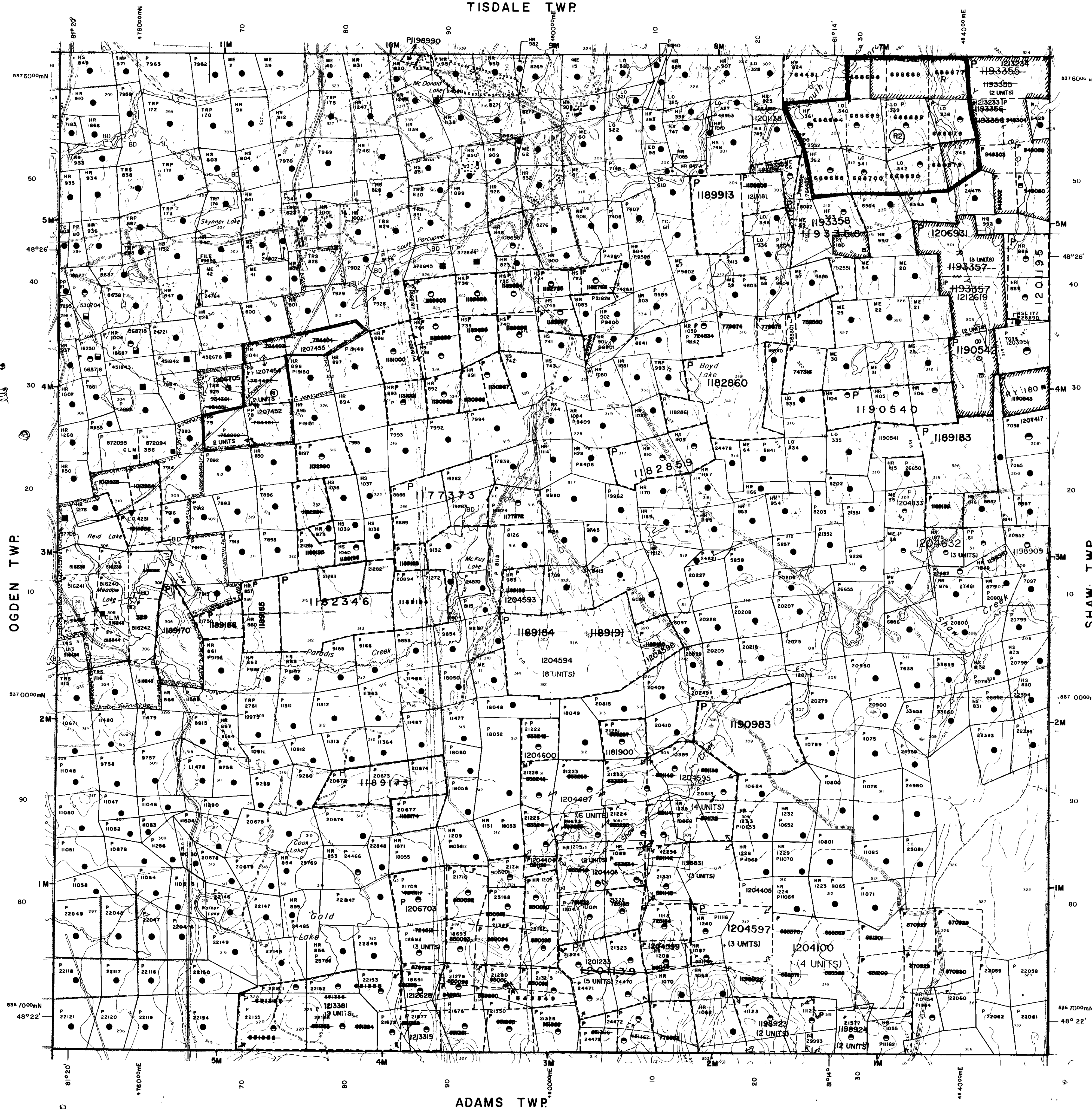
Description Order No. Date Disposition File

W-11/192 HR 82-173-24 S.R.O. (APPLICATION UNDER THE PUBLIC LANDS ACT FOR A WASTE DISPOSAL SITE)

R2 - THE SURFACE AND MINING RIGHTS ARE WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT, R.S.O. 1990, DATED FEB. 27, 1996 AT 4:01 P.M., ORDER NO. W-P-11/96 MER.

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.

TISDALE TWP.



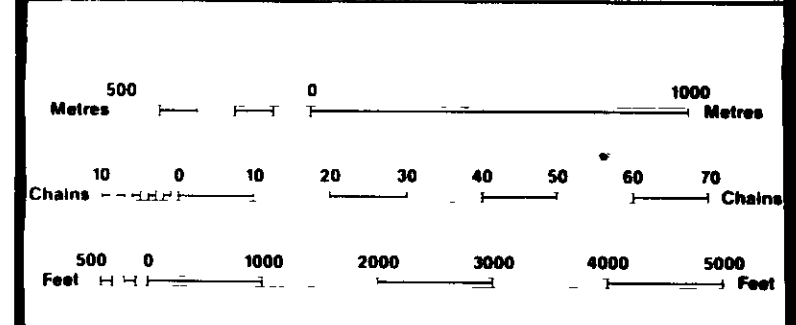
LEGEND

HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES ETC.	
LOTS, MINING CLAIMS, PARCELS ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKIEG	
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 PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380, SEC. 83, SUBSEC. 1.



NOTES

- REGISTERED PLAN OF SUBDIVISION
- MINING CLAIMS SHOWN WITHIN THIS AREA ARE SUBJECT TO THE RIGHTS AND PRIVILEGES GRANTED TO DELMITE MINES LTD. UNDER AN EASEMENT ORDER DATED MAY 19, 1937.
- HOME MINES, LIMITED SURFACE RIGHTS LEASE #103926

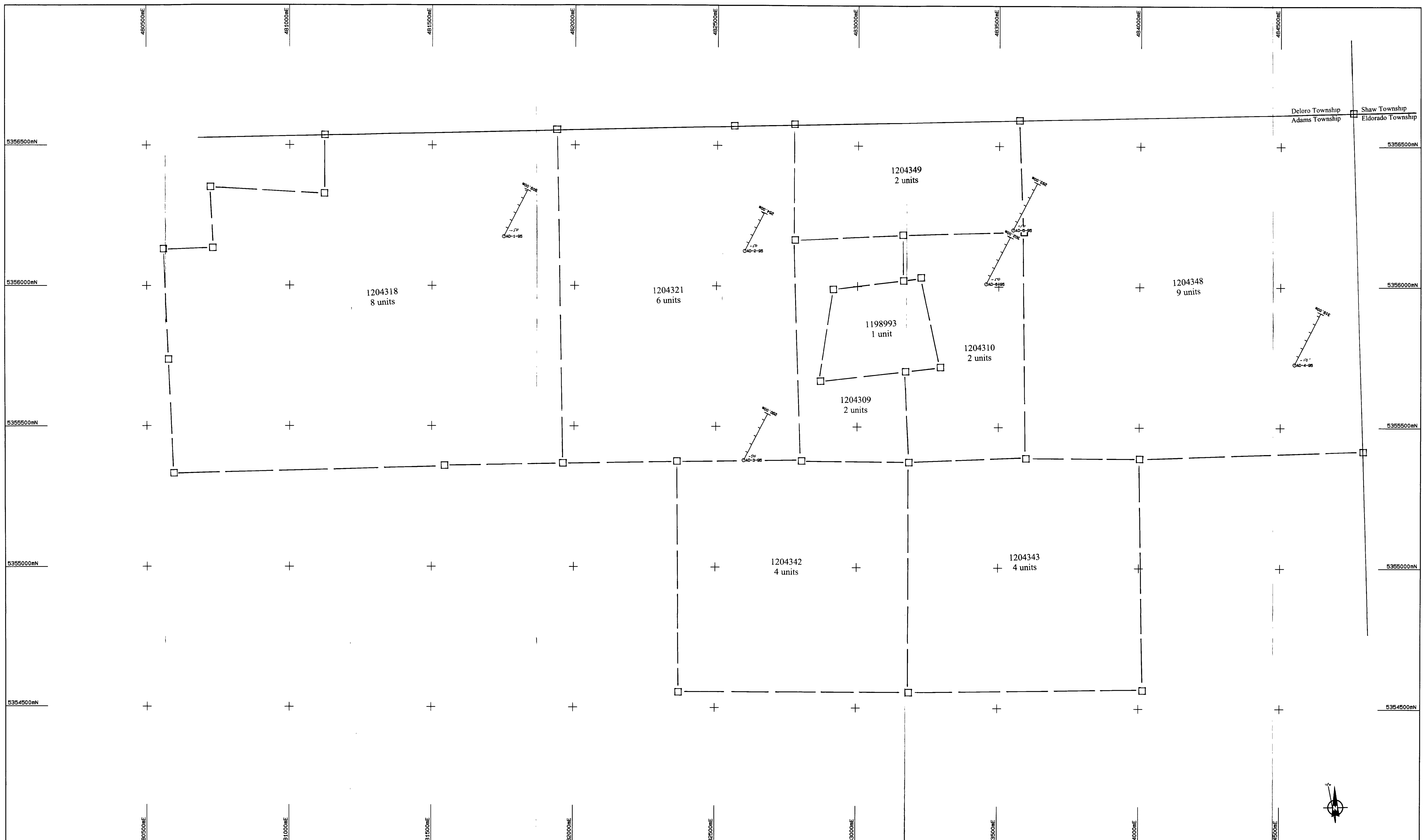
TOWNSHIP
DELORO
 MNR ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
 Land Management Branch
 Ontario
 ACTIVATED NOV 24/93 BY: DC

ORIGINAL COMPILED JULY 1984
 Number: **G-3993**

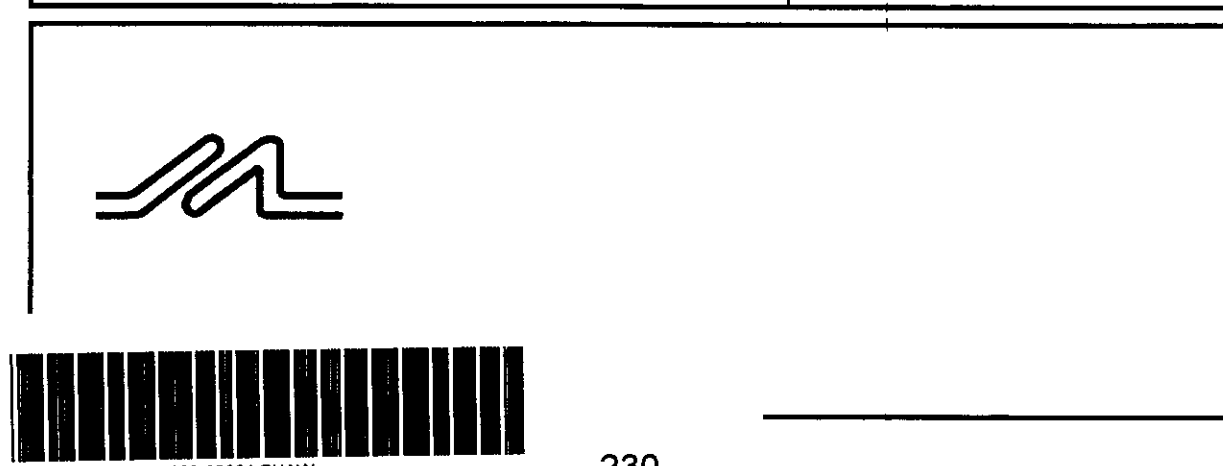
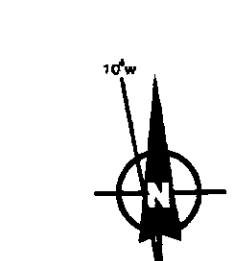
REVISED CHECKED BY: ARW
 Nov 31/93





Deloro Township
Adams Township

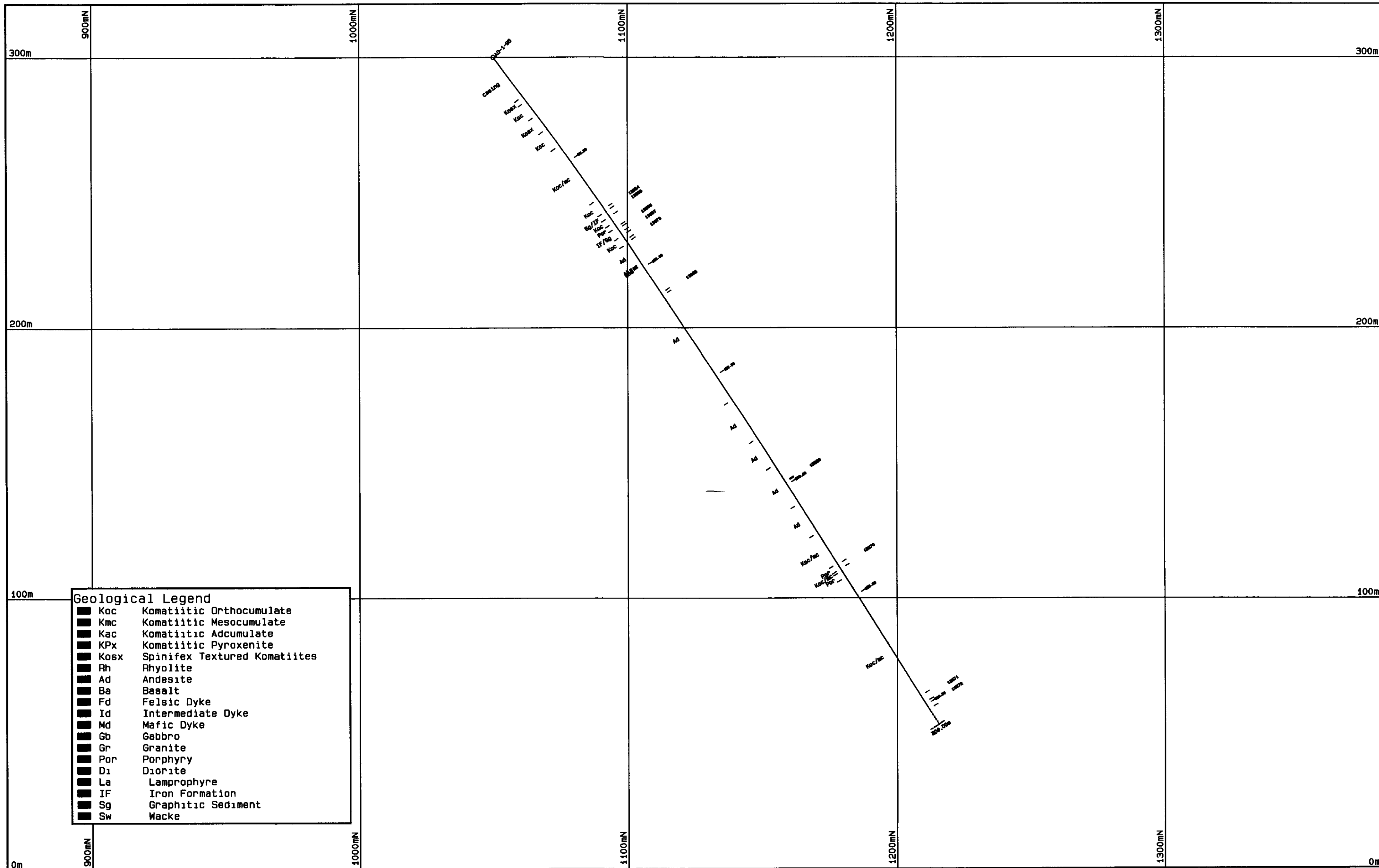
Shaw Township
Eldorado Township



Scale 1: 5000	DATE 15/01/96	SHEET 1 of 1
	REF No. 1	FILE PLAN95.PLT

Diamond Drill Hole
Plan Map

Outokumpu Mines Ltd.
Adams-Deloro-Eldorado Project
Adams Township



Geological Legend

■	Koc	Komatiitic Orthocumulate
■	Kmc	Komatiitic Mesocumulate
■	Kac	Komatiitic Adcumulate
■	KPx	Komatiitic Pyroxenite
■	Kosx	Spinifex Textured Komatiites
■	Rh	Rhyolite
■	Ad	Andesite
■	Ba	Basalt
■	Fd	Felsic Dyke
■	Id	Intermediate Dyke
■	Md	Mafic Dyke
■	Gb	Gabbro
■	Gr	Granite
■	Por	Porphyry
■	D1	Diorite
■	La	Lamprophyre
■	IF	Iron Formation
■	Sg	Graphitic Sediment
■	Sw	Wacke

NOTES:
 AD-1-95
 Azimuth: 027, Dip: -50
 Claim Numbers:
 1204318

Scale 1 1000	DATE 23/01/96	SHEET 1 of 1
	REF No. 1	FILE OMIPAD1.PLT

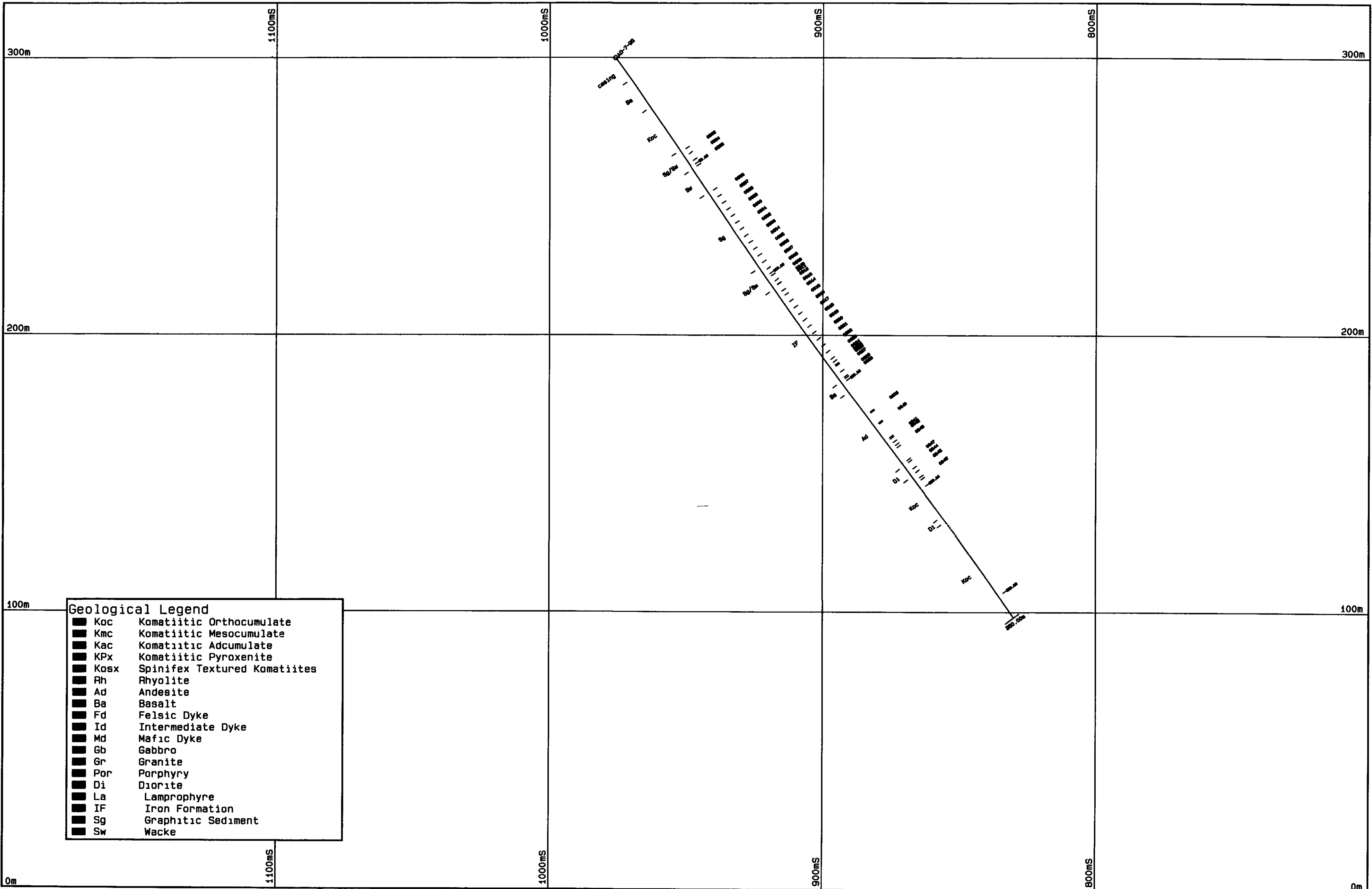


Diamond Drill Hole
 Section 3900W

Outokumpu Mines Ltd.
 Adams-Deloro-Eldorado Project
 Adams Township



Law

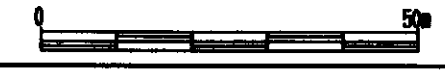


Geological Legend

■	Koc	Komatiitic Orthocumulate
■	Kmc	Komatiitic Mesocumulate
■	Kac	Komatiitic Adcumulate
■	KPx	Komatiitic Pyroxenite
■	Kosx	Spinifex Textured Komatiites
■	Rh	Rhyolite
■	Ad	Andesite
■	Ba	Basalt
■	Fd	Felsic Dyke
■	Id	Intermediate Dyke
■	Md	Mafic Dyke
■	Gb	Gabbro
■	Gr	Granite
■	Por	Porphyry
■	Di	Diorite
■	La	Lamprophyre
■	IF	Iron Formation
■	Sg	Graphitic Sediment
■	Sw	Wacke

NOTES:
AD-7-96
Azimuth. 027; Dip -50
Claim Number:
1204306

Scale 1: 1000	DATE 23/01/96	SHEET 1 of 1
	REF No. 1	FILE OMIPAD7.PLT

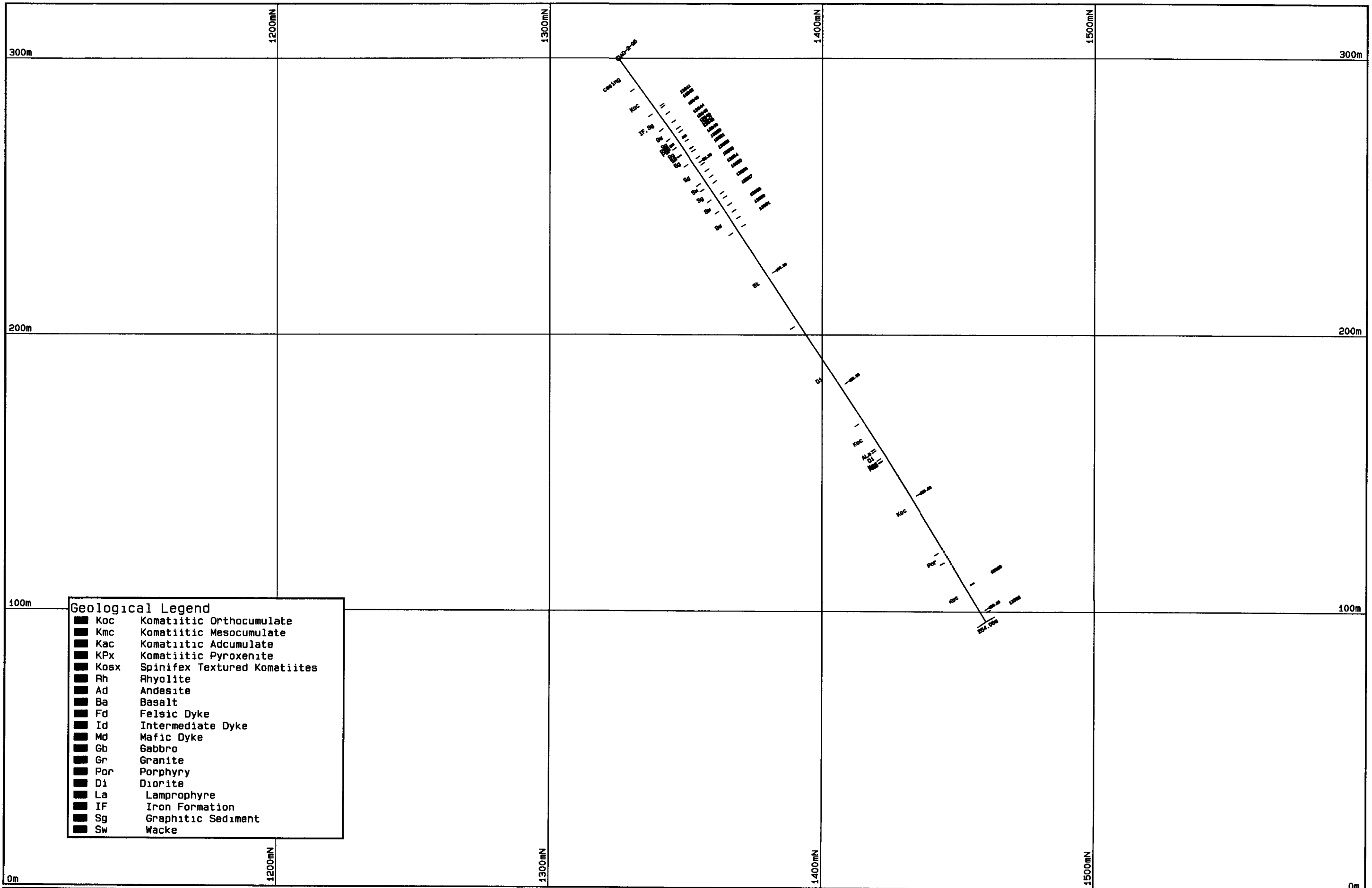


Diamond Drill Hole
Section 1400E

Outokumpu Mines Ltd.
Adams-Deloro-Eldorado Project
Eldorado Township



Paul



Geological Legend	
■	Koc Komatiitic Orthocumulate
■	Kmc Komatiitic Mesocumulate
■	Kac Komatiitic Adcumulate
■	KPx Komatiitic Pyroxenite
■	Kosx Spinifex Textured Komatiites
■	Rh Rhyolite
■	Ad Andesite
■	Ba Basalt
■	Fd Felsic Dyke
■	Id Intermediate Dyke
■	Md Mafic Dyke
■	Gb Gabbro
■	Gr Granite
■	Por Porphyry
■	Di Diorite
■	La Lamprophyre
■	IF Iron Formation
■	Sg Graphitic Sediment
■	Sw Wacke



NOTES
 AD-2-95
 Azimuth 027, Dip: -30
 Claim Number
 1204321

Scale
 1: 1000

DATE
 23/01/96

SHEET
 1 of 1

REF No
 1

FILE
 OMIPAD2 PLT



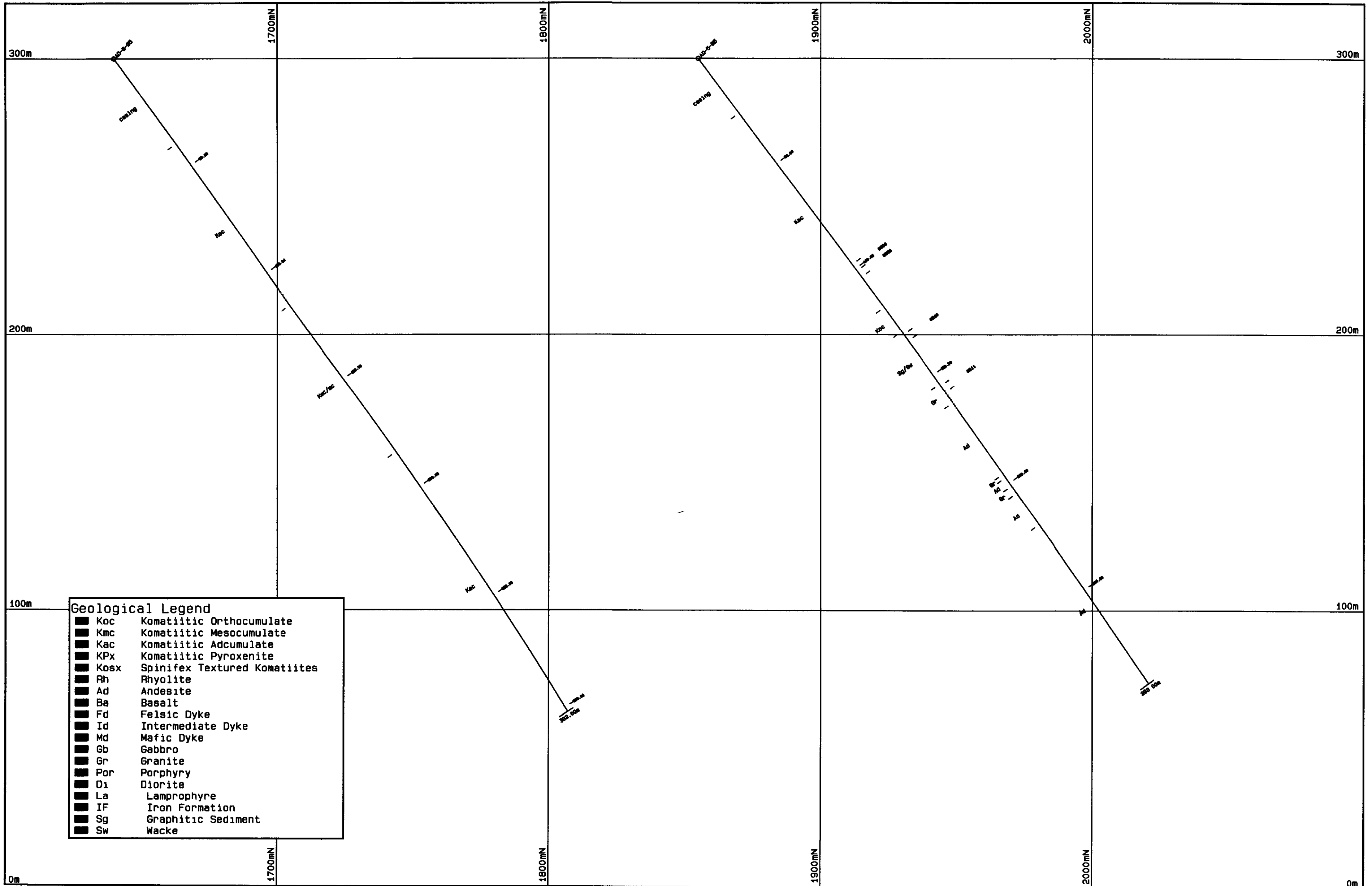
Diamond Drill Hole
 Section 3100W

Outokumpu Mines Ltd.
 Adams-Deloro-Eldorado Project
 Adams Township



42A06SE0056 W9660-00064 SHAW

Handwritten signature



Geological Legend

■	Koc	Komatiitic Orthocumulate
■	Kmc	Komatiitic Mesocumulate
■	Kac	Komatiitic Adcumulate
■	KPx	Komatiitic Pyroxenite
■	Kosx	Spinifex Textured Komatiites
■	Rh	Rhyolite
■	Ad	Andesite
■	Ba	Basalt
■	Fd	Felsic Dyke
■	Id	Intermediate Dyke
■	Md	Mafic Dyke
■	Gb	Gabbro
■	Gr	Granite
■	Por	Porphyry
■	D1	Diorite
■	La	Lamprophyre
■	IF	Iron Formation
■	Sg	Graphitic Sediment
■	Sw	Wacke

NOTES:
 AD-5-95
 Azimuth: 027; Dip: -50
 AD-6-95
 Azimuth: 027; Dip: -50
 UTM Numbers:
 14348, 1204349, 1204310

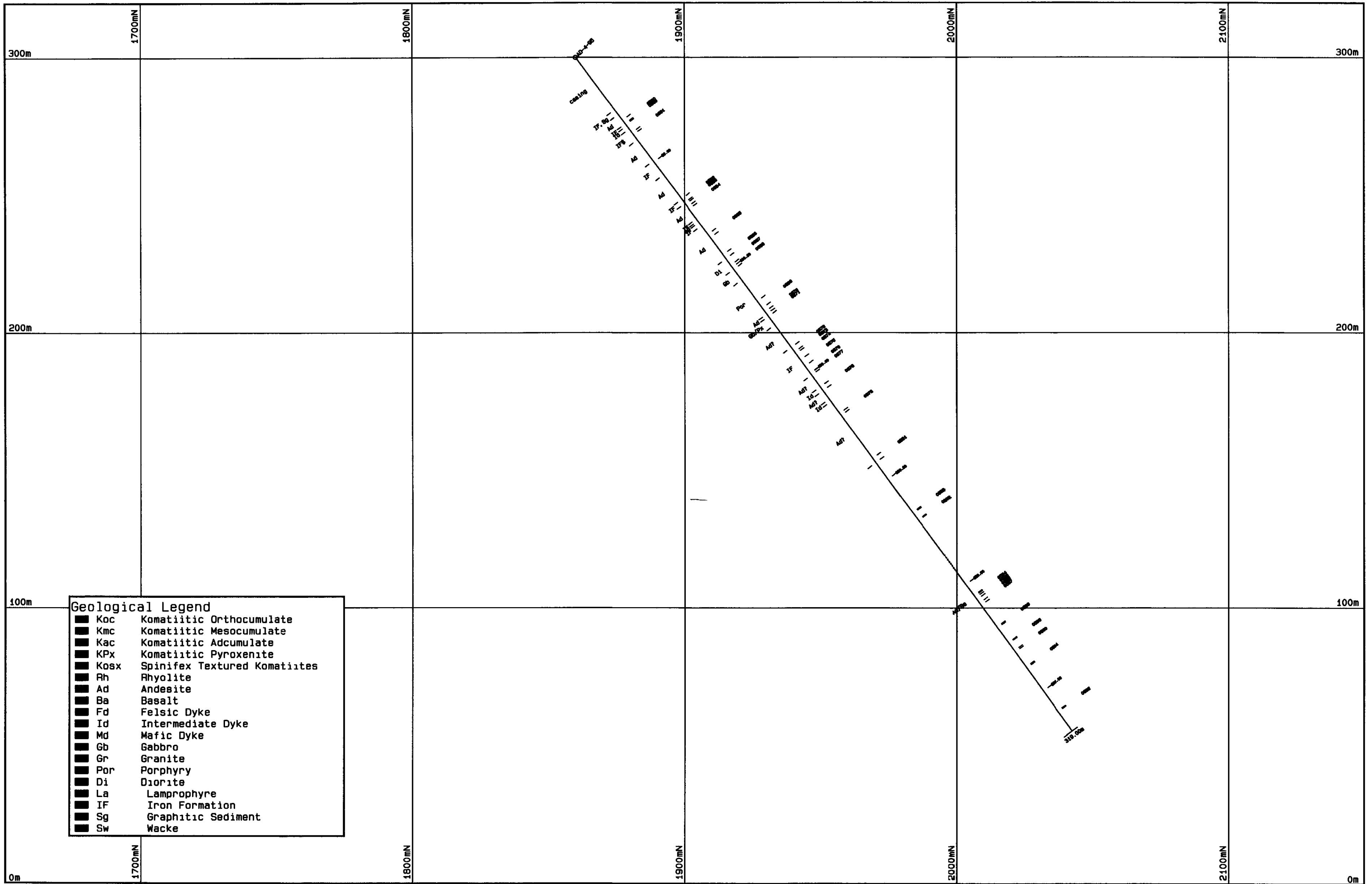
Scale 1:1000	DATE 23/01/96	SHEET 1 of 1
	REF No. 1	FILE QMIPAD56.PLT

Diamond Drill Hole
 Section 2300W

Outokumpu Mines Ltd.
 Adams-Deloro-Eldorado Project
 Adams Township



Paul



Geological Legend

■	Koc	Komatiitic Orthocumulate
■	Kmc	Komatiitic Mesocumulate
■	Kac	Komatiitic Adcumulate
■	KPx	Komatiitic Pyroxenite
■	Kosx	Spinifex Textured Komatiites
■	Rh	Rhyolite
■	Ad	Andesite
■	Ba	Basalt
■	Fd	Felsic Dyke
■	Id	Intermediate Dyke
■	Md	Mafic Dyke
■	Gb	Gabbro
■	Gr	Granite
■	Por	Porphyry
■	Di	Diorite
■	La	Lamprophyre
■	IF	Iron Formation
■	Sg	Graphitic Sediment
■	Sw	Wacke

NOTES:
 AD-4-95
 Azimuth: 027; Dip: -50
 Claim Numbers:
 1204348

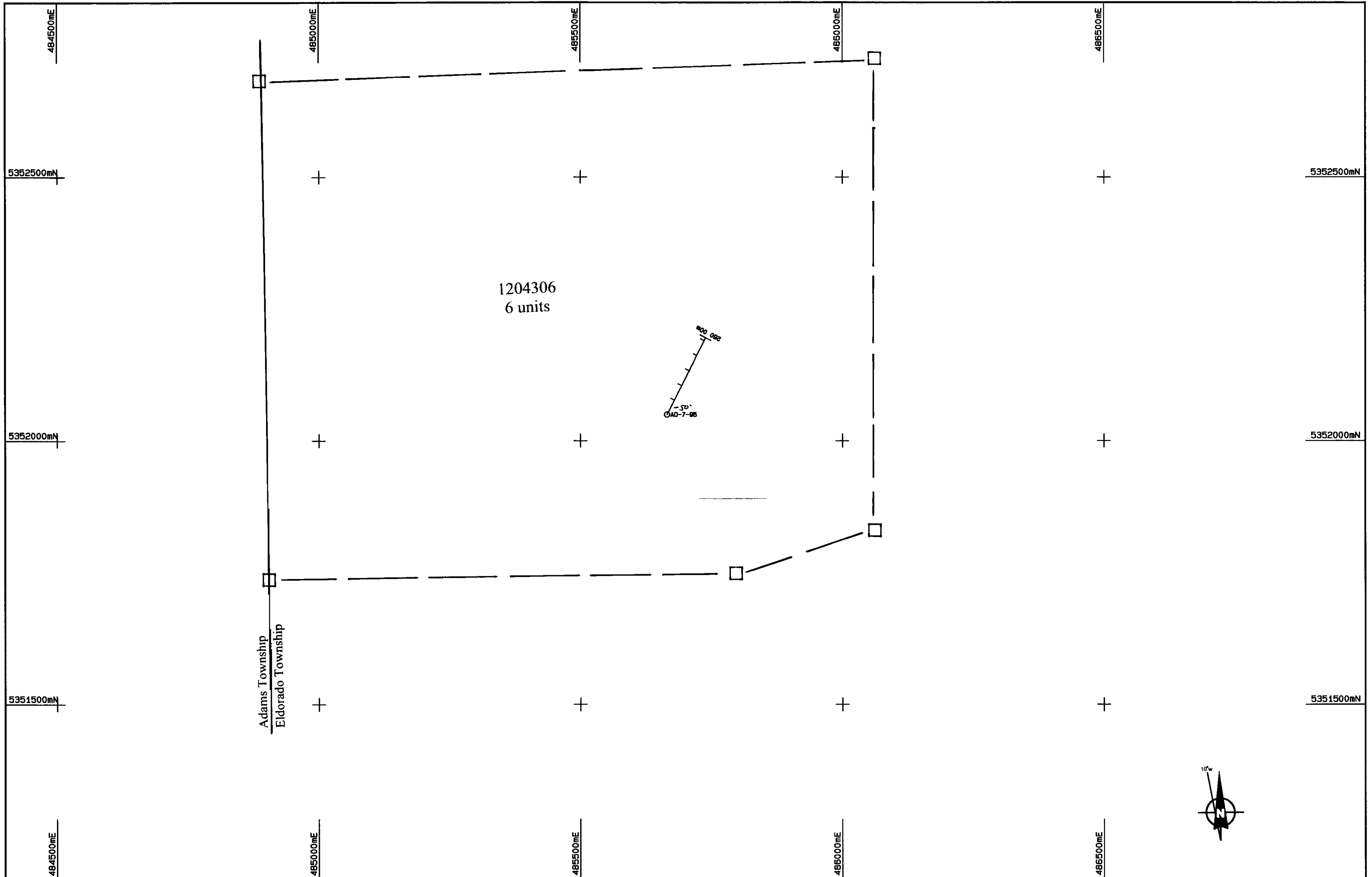
Scale 1: 1000	DATE 23/01/96	SHEET 1 of 1
	REF No. 1	FILE OMIPAD4.PLT

Diamond Drill Hole
 Section 1200W

Outokumpu Mines Ltd.
 Adams-DeIoro-Eldorado Project
 Adams Township



Paul



Adams Township
Eldorado Township

1204306
6 units

400.092
-50°
OAD-7-95



Scale 1:5000	DATE 15/01/96	SHEET 1 of 1
	REF No. 1	FILE PLAN95 PLT



Diamond Drill Hole
Plan Map

Outokumpu Mines Ltd.
Adams-Deloro-Eldorado Project
Adams Township

Paul

