

2.17494

REPORT

ON

DIAMOND DRILL HOLE

DR95-34

BY

MIDWEST DRILLING

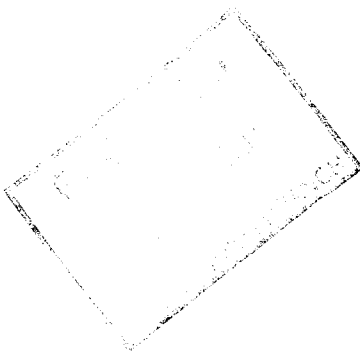
FOR

KWG RESOURCES

ON CLAIM

1204022

MARCH 1995



43F03NW0001 2.17494

010

PREPARED BY: STEVE S. MUNRO, B.Sc.
Thursday, March 06, 1997

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1.0 INTRODUCTION

This report describes a single diamond drill hole, drilled by Midwest Drilling on behalf of KWG Resources Inc. of Toronto, Ontario, located north of the Attawapiskat River in the James Bay Lowlands of Ontario.

The drill hole was part of a drilling programme, carried out from a base established at Spider Lake, located approximately 300km northeast of the town of Nakina, Ontario. Drilling commenced on March 20, 1995 and was completed on March 25, 1995. A total depth of 383m was reached.

2.0 DRILL HOLE LOCATION

The drill hole is located approximately eight kilometers north of the Attawapiskat River, at the following coordinates:

53° 10.430' North Latitude
and 85° 27.541' West Longitude

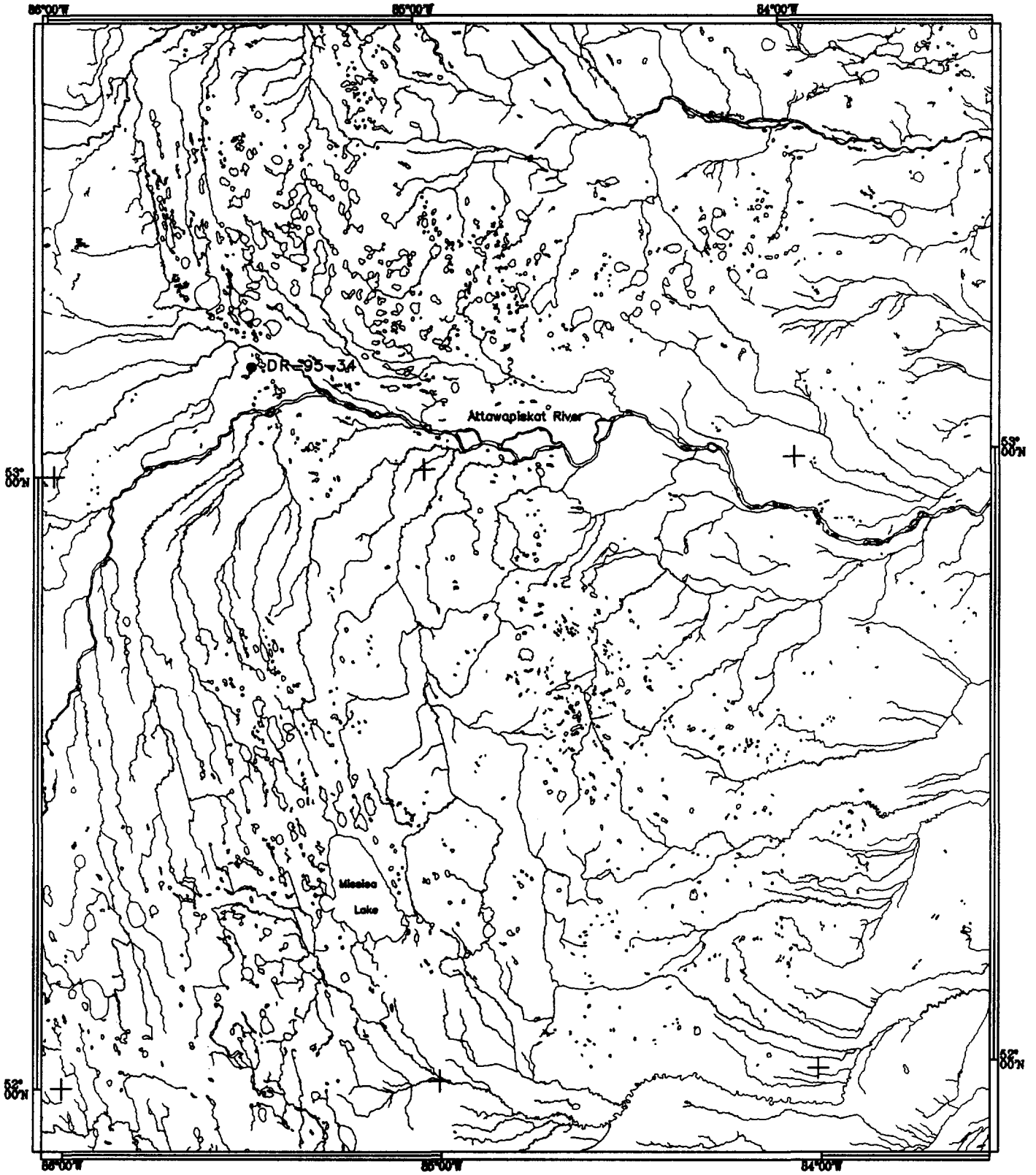
The location of the drill hole is shown in figure 1.

3.0 DRILL HOLE PLAN AND LOG

Specific information about the drill hole is included in the geologist's drill log that accompanies this report. Along with the drill log is a plan map showing the drill hole's location on the claim

4.0 THE DRILL CORE

The drill core was logged on April 2 1995, at the Spider Lake camp, by Roger Thomas. The paleozoic section (depth 0m to 62.6m) was shipped to the Ontario Government. The precambrian section (depth 62.6m to 383.0m) was shipped to KWG's Toronto office and was destructively analyzed.



SCALE 1:1,000,000

FIGURE 1 - DRILL HOLE LOCATION MAP

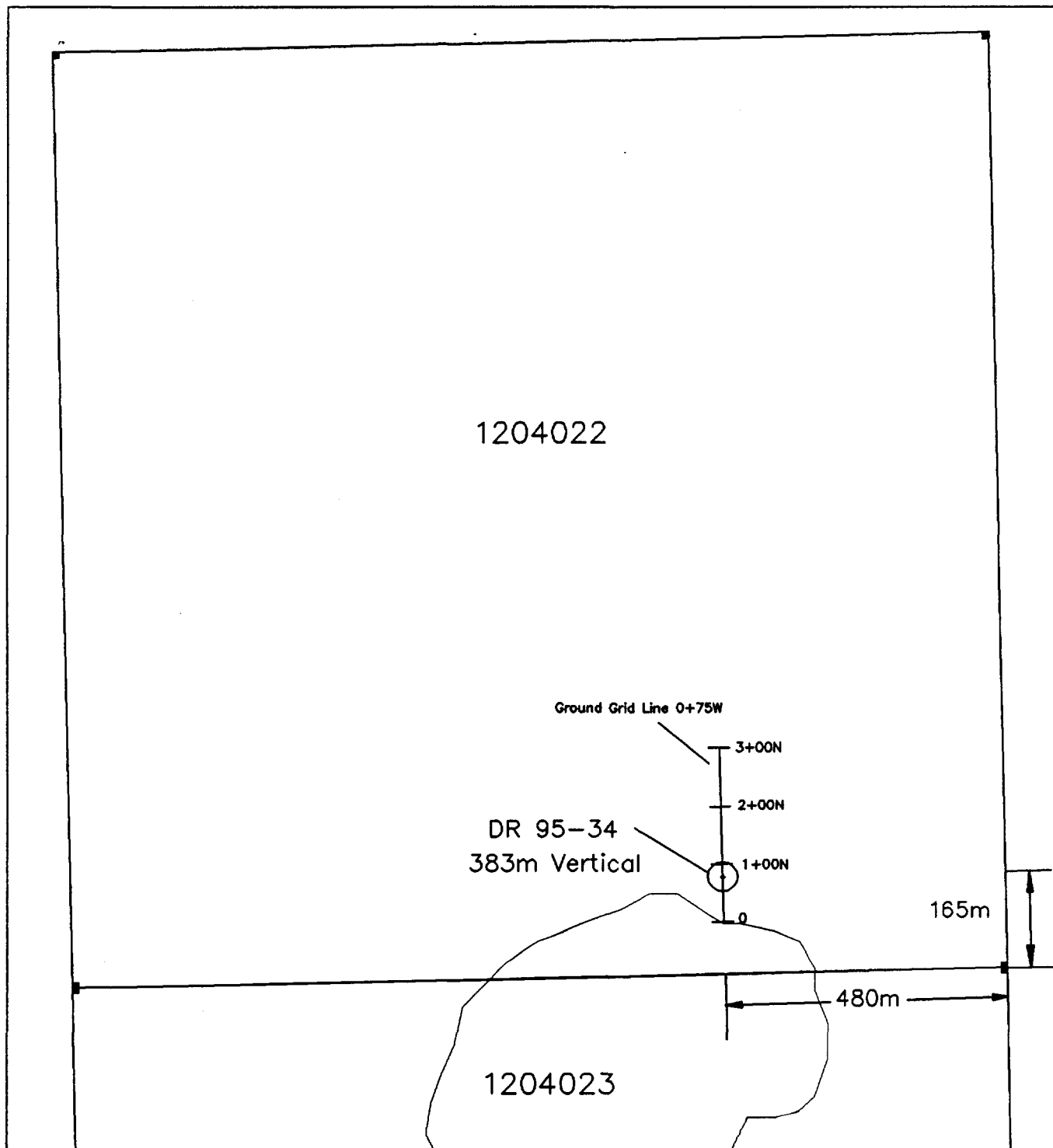
Handwritten signature or initials in the bottom right corner of the page.

DRILL HOLE LOCATION PLAN

CLAIM 1204022

SHEET 532852

NTS 43F/03

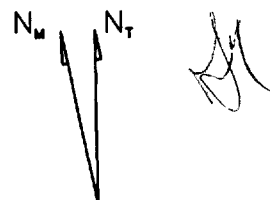


MAGNETIC DECLINATION - 12 deg



(metres)

Scale 1:10,000



DIAMOND DRILL HOLE LOG

Client: KWG Resources Inc.
Drilled by: Midwest Drilling
Logged by: Roger D. Thomas, MSc., P.Eng. for C. F. Gleeson and Associates Ltd.

Hole No. DR 95-34
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Roger D Thomas

LOCATION:

Province: Ontario
County/District: Kenora (Patricia Portion)

Grid Name: Spider #1
Claim No: ~~1204022~~ 1204022 *ft*

Latitude/Longitude: 53° 10.430'N / 85° 27.541'W
Grid: E-8

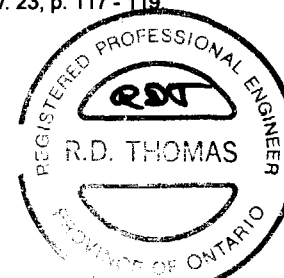
UTM: 16 603000E 5892500N
Grid reference: 0+75N 0+75W

DRILL HOLE CHARACTERISTICS:

Core Size: BQ
Depth of Casing: 64 m BW; 33.5 m NW
Total depth: 383 m
Date Drilled: 20 March - 25 March, 1995
Date Logged: April 2, 1995
Date Log Printed: 8 February 1997

Hole orientation: 0°
Inclination: 90°

Note: Alphanumerics in parentheses following colours (eg: greyish black (N2) or greenish black (5G3/1)) are Munsell Color numbers after Goddard, E. N., Trask, P. D., de Ford, R., Rove, O. N., Singewald, J. T. and Overbeck, R. M. 1984: Rock-color chart; Geological Society of America, Special Publication, Boulder, Colorado, USA.
Munsell Products 1973: Munsell soil color charts; Munsell Products, Macbeth Color & Photometry Division of Kollmorgen Corporation, Baltimore, Maryland, USA
Angularity (VA = very angular, A = angular, SA = subangular, SR = subrounded, R = rounded, WR = well rounded) is according to:
Powers, M. C. (1953): Comparison chart for visual estimation of roundness; Journal of Sedimentary Petrology, v. 23, p. 117 - 119
"M. S." = magnetic susceptibility



From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)			
							Box No	Min	Max	Avg
0.00	7.67	OVERBURDEN: Lacustrine and marine sediments overlying till. Core of cobbles from the till consist of 3cm dolomite, 2cm siliceous dolomite, 4cm medium-grained quartz sandstone with trace-1% fine-grained disseminated Py, 1cm pink granite gneiss, three 2cm and one 3cm dolomite.								
7.67	10.75	PALAEOZOIC DOLOMITE: Banded light olive brown (5Y5/6) to dusky yellow (5Y6/4) and greyish orange pink (5YR7/2), very fine-grained; 2% 3-6mm interbeds of greenish grey (5G6/1), very fine-grained sandstone. The darkest dolomite layers are commonly 5-22mm thick and are broken by vertical fractures filled with lighter coloured dolomite, into rectangular to square blocks. Bedding is horizontal.	8	7.92	8.00	1	0.05	1.02	0.22	
10.75		CONTACT: sharp, CA=90°.								
10.75	13.20	INTERBEDDED SILTY DOLOMITE: Light olive grey (5Y6/1) with some pinkish grey beds; moderately soft, very fine-grained, very friable. Silt content decreases down core.	11	11.01	11.10					
13.20		CONTACT: gradational, top of clastic breccia.								
13.20	26.00	INTERBEDDED DOLOMITE AND SILTY DOLOMITE: Pale yellowish brown (10YR6/2), fine-grained, massive dolomite interbedded with light olive grey (5Y6/1), hard, very fine-grained, silty dolomite. Unit becomes browner with depth. 13.20-13.45 Clastic breccia (conglomerate or turbidite?): 20% SA-SR fragments of brown dolomite up to 10x20mm, in fine-grained silty dolomite matrix.	14	13.91	14.00	2	-0.99	1.35	0.29	
			17	17.00	17.10	3	-.02	1.12	0.33	
			20	20.15	20.22					
			23	23.05	23.09					

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)			
							Box No.	Min	Max	Avg
26.00	30.96	SILTSTONE (cont.): 29.09-29.31 Highly contorted								
30.96		CONTACT: Sharp, CA=85°								
30.96	35.09	INTERBEDDED DOLOMITE AND LIMESTONE: Dolomite: dusky yellow (5Y6/4), very fine-grained to microcrystalline with up to 15% fine-grained, R, sand beds; individual beds are from 0.3-0.5m thick. Limestone: light grey (N7), fine-grained calcite with up to 30% fine-grained, R, quartz sand in layers and concentrated in irregular masses. 3%, 2-8mm spherical to ovoid to irregular open vugs. Beds 5-250mm thick. 33.39-34.32 Medium- to fine-grained quartz sandstone with calcite cement.	32	31.88	31.97	5	-10	0.67	0.26	
35.09		CONTACT: arbitrary								
35.09	39.68	DOLOMITE: Faintly mottled, white (N9) and light grey (N7), calcareous in places; very fine-grained, possibly fragmental; 1% fine- to medium grained quartz.	35	35.08	35.20					
			38	38.00	38.11					
39.68	40.15	SANDSTONE, and dolomite: Dolomite as above, sandstone is medium grey (N5), fine- to medium-grained quartz sand with calcite cement. Two lithologies are intermixed in a highly contorted manner.								
40.15		CONTACT: sharp, CA=90°								
40.15	49.49	DOLOMITE, variable (as below): 40.15-40.50 Pale yellowish brown (10YR6/2), mottled, vuggy, very fine-grained. 40.50-41.38 Broken core, yellowish grey (5Y7/2), very silty, vuggy, very fine-grained.	41	40.89	40.96	6	-37	0.85	0.14	
						7	0.02	1.25	0.32	

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)			
							Box No.	Min	Max	Avg
40.15	49.49	DOLOMITE, variable (cont) 41.38-43.44 Yellowish grey (5Y7/2) with irregular lenses and beds of fine sand up to 5mm thick. 43.44-45.98 Yellowish grey (5Y7/2), 15x30mm masses of fine-grained dolomite in a sandy limestone matrix. 45.98-49.49 Same as 41.38-43.44.								
49.49		CONTACT: moderately sharp.								
49.49	60.00	LIMESTONE, dolomitic: Mottled yellowish grey (5Y7/2) (20-40%, dolomite) and light grey (N7) (limestone), fine-grained with 2-10% fine- to very fine-grained quartz sand. Vuggy. In places, dolomite is darker brown; some have lighter coloured cores up to 2mm diameter surrounded by 10-15mm Some calcite filled fractures (CA=0°), irregular, extending 10cm into overlying unit. Fossil content increases with depth. 53.13-53.31 Faintly banded (CA=90°) with possible fossil fragments. @54.80 Possible large fossil, 20mm diameter. @58.30 20mm coral. 59.78-60.00 Abundant fossils. 59.98 25mm rugose? coral.	44	44.02	44.12	8	-35	0.95	0.19	
			47	46.91	47.00	9	-27	0.97	0.11	
			50	50.00	50.09					
			53	53.00	53.06					
			56	56.00	56.08					
			59	59.00	59.08					
60.00		CONTACT: sharp, CA=90°.								
60.00	61.86	INTERMIXED SANDSTONE AND SHALY LIMESTONE: Medium light grey (N6) and medium dark grey (N4) mottled. Limestone occurs as 20-30mm SA, tabular to spherical masses containing 10-35% fine quartz sand. Limestone masses` constitutes 50-60% of unit in a fine quartz sand matrix. 60.53-60.63 Pure sandstone. 60.67-60.78 Pure sandstone. 61.17-61.21 Limestone, not sandy.								

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
63.21	68.69	<p>TRANSITION ROCK (cont):</p> <p>@66.06 2mm R mass of magnetite.</p> <p>@66.17 Possible chrome diopside, <1mm diameter.</p> <p>@66.18 Possible group of chrome diopside in mass of calcite.</p> <p>66.24-68.61 Greenish grey (5GY6/1), homogeneous, massive; 10% R (few A-SA), 1-2mm olivine in a 90% matrix of very fine-grained olivine and other material. High calcite content; very magnetic. Some large olivine have black rims around green centres. Abundant very thin (<0.5mm) microfractures filled with calcite; some cut olivine crystals. Variable amounts of Fe-oxides on some minerals.</p> <p>@66.85 Two rounded masses (22x16mm and 22x25mm) of siliceous, serpentinized material with abundant calcite. Masses are cut by hematite coated the fractures.</p> <p>@66.91 Up to 5% fine-grained mica present.</p> <p>67.41-67.58 Abundant calcite veining, up to 20mm thick. One contains cavity coated with drusy quartz.</p> <p>67.72-67.75 Calcite vein containing 5% A fragments of wall rock.</p> <p>67.78-68.06 Breccia composed of 30% A fragments of wall rock in 70% granular "kimberlite" similar to 64.96-66.24. Abundant calcite veining.</p> <p>68.06-68.21 Abundant 1-3mm calcite veins, CA=80°.</p> <p>68.53-68.55 Granular material similar to 64.96-66.24.</p>							
68.69		CONTACT, sharp change in colour.							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
68.69	86.13	<p>"KIMBERLITE", Fine-grained, hypabyssal (cont):</p> <p>@75.76 20x5mm cavity with some orangy red globules (Fe-oxide) coatings.</p> <p>@77.10 Highly altered xenolith</p> <p>@77.60 As above.</p> <p>77.88-78.65 Several moderately altered xenoliths, R, up to 5x15mm. Yellow serpentine ? common. 1% of coarse olivine is embayed, 2-3% is angular.</p> <p>@78.70 80mm very large olivine.</p> <p>@79.37 Serpentine filled fracture (1-2mm) with magnetite and hematite, CA=60°.</p> <p>@80.07 30x50mm xenolith, R, highly altered.</p> <p>@80.23 3mm magnetite and hematite seam, CA=85°.</p> <p>@81.15 70mm mass of olivine and yellow serpentine (xenolith ?), R, indistinct margins.</p> <p>@82.15 20mm zone enriched in magnetite and hematite.</p> <p>@82.58 15mm zone as above.</p> <p>@82.71 2mm zone as above.</p> <p>@82.78 4mm zone as above.</p> <p>@82.96 10x30mm highly altered xenolith.</p> <p>@83.02 8x20mm highly altered xenolith.</p> <p>@83.21 irregular concentrations of magnetite.</p> <p>83.40-84.10 Several 8x20mm xenoliths, moderately to highly altered.</p> <p>@84.02 Irregular mass of magnetite and hematite.</p> <p>@84.23 1mm serpentine seam with magnetite and hematite at margins; CA=35°.</p> <p>@84.53 30mm absorbed xenolith: 10mm diameter core of microcrystalline serpentinized material (siliceous); 5mm of remnant material (gneiss ?); 5mm yellow serpentine.</p>							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
68.69	86.13	"KIMBERLITE", Fine-grained, hypabyssal: 85.60-86.13 5-10% highly altered xenolithic material.							
86.13		CONTACT: gradational over short distance.							
86.13	88.42	XENOLITH: 50% light red (5R6/6) feldspathic (?) material as 1-2mm, A-SR, embayed fragments in aphanitic, black, groundmass. 5% large masses, up to 15x10mm of greenish white and pink feldspar and quartz. Non-magnetic. 86.13-86.28 80% serpentine, microcrystalline; 10% olivine; 1% magnetite as 2mm R masses; trace fine-grained Py; 9% silica, biotite and other minerals. @86.34 5% fine globules of Py? on fracture. @86.35 20mm seams of green serpentine with trace-5% Py, CA=90°. Similar seams, 7-40mm wide with 0-trace Py and CA=55°-90° occur at 86.55, 86.63, 87.05, 87.23, 87.28, 87.33, 87.39, 87.45, 87.53, 87.61, 87.73, 88.21, and 88.40. @87.85 20mm seam of greenish black, aphanitic material with ghosts of large (5-8mm) olivine crystals, R, CA=80°. @88.08 10mm seam as above also with small (1-5mm) R, olivine crystals; CA=55°. 87.90-88.39 Quartz is present in xenolithic material. 88.39-88.42 20-50% R, 2-4mm olivine in light green, aphanitic, serpentized matrix.							
88.42	89.75	CONTACT ZONE: Transition zone from xenolith to "pure kimberlite"							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
101.81	106.96	"KIMBERLITE", fine-grained, few megacrysts. serpentinite and magnetite. Very low carbonatization. Trace emerald green, very fine-grained (<2mm) mineral. @102.42 25mm, R, embayed, serpentinized olivine. 103.10-103.23 Possible remnant xenolith; abundant yellow serpentine and magnetite. 103.40-105.50 Abundant 1mm magnetite seams. @103.87 30mm highly serpentinized olivine. @105.12 20mm olivine as above. 105.23-105.63 Intense horizontal microfracturing. @105.90 Highly altered xenolith ? 106.10-106.18 As above; abundant quartz and calcite. 106.18-106.68 Very broken core, abundant serpentine and horizontal fractures. @106.72 40mm highly altered xenolith or large olivine.							
106.96		CONTACT: 3mm serpentine seam, CA=65°.							
106.96	107.61	XENOLITH: 10-50% light coloured material composed of variable amounts of quartz and white aphanitic material; 50-90% green, serpentinized material; trace Py.							
107.61	108.76	TRANSITION ZONE: Highly fractured by horizontal to sub-horizontal serpentine filled fractures (1 per 2-5mm). Rock varies from greenish black (5GY2/1), aphanitic at the top to dark grey (N3) with 5% 5-10mm, SA-SR olivine; 40% 1-3mm A olivine; 20% 1mm euhedral olivine; 35% light							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)			
							Box No	Min	Max	Avg
107.61	108.76	TRANSITION ZONE (cont): green, aphanitic matrix. Olivine changes colour from greenish black at top through dark brown, to yellowish green at bottom of unit. @108.33 10% phlogopite 108.67-108.72 2mm serpentinized fractures contain black asbestiform serpentine.								
108.76		CONTACT: Rapid colour change.								
108.76	113.30	"KIMBERLITE", highly serpentinized and altered: Greenish grey (5GY6/1) to medium grey (N5), variably moderately to highly fractured by 1mm horizontal, serpentine filled microfractures; no carbonate; increasingly magnetic with depth; 2-3% 2-5mm R-SR, olivine; 15% 0.5-2mm A-SR olivine, <1% 1-2mm, euhedral olivine (all black); <1% 10-15mm R, green olivine; 80% very fine-grained, light coloured olivine and yellow serpentine. Change in colour due to reduction in yellow serpentine. Some larger olivine have thin, dark, reaction rims. 111.75-111.85 Xenolith of volcanic ? rock; sharp contacts; moderately altered. 112.50-112.52 Xenolith as above.	110	110.00	110.13	17	3.50	232	82.2	
			113	112.87	113.00					
113.30		CONTACT: Rapid change in texture and colour								
113.30	119.42	"KIMBERLITE" hypabyssal, medium-grained: Greyish black (N2), fairly uniform, moderately magnetic, few horizontal, serpentinized, microfractures; 15%, 8-12mm, black, SR, slightly embayed, olivine; 20%, 1-5mm, R-SA, olivine; 40% <1mm, SA-R, few euhedral olivine; 25% light coloured, aphanitic, serpentinized, groundmass; trace 1-2mm, rounded masses of magnetite. A few of the large olivine are light coloured.	116	116.00	116.09	18	6.85	102	47.9	
			119	119.00	119.08	19	51.9	115	85.6	

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
119.42	144.15	"KIMBERLITE" hypabyssal, fine-grained (cont): 135.65-136.68 60% highly altered xenoliths; tabular black mineral (amphibole ?) present at 136.60 136.68-136.86 Slightly altered dioritic xenolith, sharp margins. 136.86-137.64 50% light green matrix (absorbed xenolith ?) @138.50 20mm olivine, sharp embayed margins @138.87 40mm olivine as above 139.34-139.40 Intensely fractured (CA~90°) @139.73 10x40mm moderately altered xenolith @139.93 23mm olivine @140.23 20mm olivine @140.36 1mm fracture filled with soft white mineral with acicular mineral and amphibole ? @140.43 30mm olivine @141.11 25mm olivine @141.65 8mm soft white mineral fracture filling 142.31-142.36 Moderately altered diorite xenolith @143.82 5mm quartz and soft white mineral vein; CA=75° 144.78-145.10 Several 10-20mm highly altered xenoliths							
144.15		CONTACT, Sharp, CA=23°							
144.15	148.65	XENOLITH, diorite: Light grey (N7), medium-grained, diorite; 10% quartz; 80% feldspar; 10% mafic minerals (biotite). Mottled by 20mm-0.15m masses of unaltered material surrounded	146	146.00	146.08				

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
157.23	183.81	"KIMBERLITE", hypabyssal, medium-grained (cont):				165	112		
		@165.84 Rock becomes lighter toned				166	108		
		@167.72 50mm olivine							
		167.82-167.84 Dioritic xenolith, light coloured, very fine-grained	167	167.00	167.00	167	94.0		
		167.88-167.92 Xenolith as above				168	38.0		
		167.97-167.99 Xenolith as above							
		168.16-168.19 Mafic (?) xenolith, dark coloured, very fine-grained							
		168.18-168.20 Dioritic xenolith as above							
		168.34-168.38 Dioritic xenolith as above							
		168.36-168.39 Large, R, olivine							
		168.55-168.62 Large, R, olivine or mafic xenolith							
		168.87-168.90 Dioritic (?) xenolith, R, sharp contacts							
		168.90-168.92 Dioritic xenolith							
		169.00-169.03 Dioritic xenolith							
		169.30-169.48 Several 10-40mm fine-grained, dioritic xenoliths				169	54.3		
		169.48-169.56 Large olivine crystal, highly embayed							
		169.58-169.61 Highly altered xenolith							
		@169.81 Moderately altered dioritic xenolith	170	170.00	170.10	170	93.3		
		170.23-170.35 Three 10-15mm dioritic xenoliths				171	134		
		@171.87 20mm dioritic xenolith				172	122		
		@172.22 15mm dioritic xenolith							
		@172.81 5x10mm, highly altered xenolith							
		@173.35 20x30mm, R, olivine	173	173.02	173.10	173	123		
		@174.43 22mm olivine				174	131		
		@175.35 10x30mm, moderately altered xenolith				175	113		
		@175.80 10x20mm remnant of probable 40mm diameter xenolith							
		@175.87 8x12mm xenolith							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
157.23	183.81	"KIMBERLITE", hypabyssal, medium-grained (cont):							
		@175.88 Chrome diopside (?) in serpentine lens							
		@175.92 10x20mm dioritic xenolith							
		@176.04 10mm moderately altered xenolith	176	175.90	176.00	176	89.6		
		@176.15 15mm serpentine filled fracture; CA≈90°							
		@176.59 10x25mm, moderately altered, dioritic xenolith							
		@176.83 2mm serpentinized fracture with phlogopite (?)							
		@177.33 12x20mm, highly altered xenolith with dark acicular mineral				177	164		
		@177.74 3x20mm xenolith as above							
		178.54-178.65 Abundant 1-3mm fractures filled with fine-grained, medium green material; CA=38°				178	118		
		@178.72 10x20mm dioritic xenolith							
		@179.05 50mm diameter dioritic xenolith	179	178.90	179.00	179	90.5		
		@181.13 20mm, highly to moderately altered xenolith				180	94.7		
		@181.49 8mm xenolith, as above, with acicular mineral				181	124		
		@181.81 5mm, moderately altered granitic gneiss xenolith							
		@182.60 3x8mm, highly altered, granitic gneiss xenolith	182	181.90	182.00	182	110		
		@182.65 5mm, moderately altered, granitic gneiss xenolith							
		@182.94 8x12mm xenolith as above							
		@182.99 5x8mm xenolith as above							
		@183.47 45x80mm xenolith as above							
		@183.57 Two 8x15mm xenoliths as above				183	130		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
183.81	184.87	"KIMBERLITE", with abundant xenoliths: 50%, highly contaminated "kimberlite" and 50% moderately to highly altered granitic gneiss xenoliths. Contacts are sharp but highly embayed. In many places, a large (>50mm), slightly to moderately altered xenolith is surrounded by abundant small, highly altered xenoliths. The contaminated "kimberlite" varies from very fine-grained with 5%, VA-A, 2-5mm olivine to fine-grained, massive. Non-magnetic.				184	5.82		
184.87	186.15	"KIMBERLITE", contaminated Dusky yellow green (5GY5/2), variable composition and texture: 5-10%, 1-5mm, A, olivine; 30-50%, <1mm, A, olivine; 10% 10mm xenoliths; 0-1% yellow serpentine; 50-70%, light coloured, serpentinized, very fine-grained to aphanitic groundmass. Non-magnetic. 186.09-186.15 Very highly altered, light green coloured.	185	185.00	185.13	185	2.70		
						186	1.65		
186.15	186.18	CONTACT ZONE, margins are sharp; rapid compositional change across zone.							
186.18	195.52	XENOLITH, granitic gneiss 10%, irregularly shaped, 10-250mm diameter, SR, masses of massive, medium- to coarse-grained granite; 90% intensely foliated, fine-grained granite; non-magnetic. 192.15-194.19 Massive, 10% A-SA, 5-25mm diameter, medium- to coarse-grained granite; 40% massive, fine- to medium-grained anhedral feldspar; 40% fine-grained quartz and feldspar; 10% mafic minerals (amphibole). 194.62-195.00 Same as above				187	0.37		
			188	188.00	188.11	188	0.55		
						189	0.55		
						190	5.52		
			191	191.00	191.12	191	0.77		
						192	1.17		
						193	0.25		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
211.16	212.75	"KIMBERLITE", moderately contaminated Greenish black (5GY2/1) turning browner with depth, homogeneous, massive; 1% R, embayed, highly altered xenoliths to 30mm diameter; 15%, 2-5mm, SA-SR, black olivine; 84% very fine-grained groundmass. Non-magnetic; trace medium-grained Py in calcite filled fractures; in places, fine-grained groundmass contains up to 40% olivine; moderate carbonatization 212.35-212.72 Highly serpentinized; very broken core, some lost core (10cm)	212	212.00	212.09	212	0.82		
212.75	221.90	"KIMBERLITE", highly contaminated Greenish black (5GY2/1), fine-grained, homogeneous, non-magnetic. 2%, 10-15mm xenoliths with 2-3mm reaction rims; 5%, 5-10mm, R, olivine with reaction rims; 5-40%, <1-2mm, R, olivine with reaction rims; 60-95% fine-grained to aphanitic groundmass. Most parts have pseudo-amygdaloidal texture. Low carbonatization. 213.83-214.02 Granitic gneiss xenolith 215.40-215.70 80% granitic gneiss xenoliths 215.80-215.96 Xenolith as above 217.12-217.19 Xenolith as above, moderately serpentinized 217.80-217.85 Xenolith as above 218.03-218.20 90% granitic gneiss xenoliths @220.90 Turns greyish green (10GY5/2) 221.64-221.90 10% elongated ovals of serpentine oriented subhorizontally				213	1.07		
						214	0.60		
			215	215.00	215.09	215	1.45		
						216	1.17		
						217	<0.99		
			218	218.00	218.08	218	1.32		
						219	3.85		
						220	1.20		
			221	221.00	221.10	221	1.25		
221.90		CONTACT, moderately sharp							
221.90	222.86	XENOLITH, granitic gneiss, as above (186.18-195.52), but medium-grained, homogeneous, low carbonatization				222	1.30		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
222.86	222.88	CONTACT, highly serpentinized, dark green section.							
222.88	223.22	"KIMBERLITE", as above (217.75-221.90), but highly serpentinized, very broken core, no large xenoliths, low carbonatization.				223	0.77		
223.22	224.63	XENOLITH, granitic gneiss, as above (186.18-195.52) Medium-grained, homogeneous	224	223.90	224.00	224	2.27		
224.63	224.65	CONTACT: highly serpentinized							
224.65	224.96	"KIMBERLITE", as above (217.75-221.90) No large xenoliths, low carbonatization							
224.96	225.25	XENOLITH, as above (192.15-194.19) Very highly altered, low carbonatization				225	0.37		
225.25	225.41	"KIMBERLITE", highly contaminated, as above (217.75-221.80)							
225.41	228.05	"KIMBERLITE", moderately contaminated, granular Greenish black (5GY2/1); 10% SA-SR, embayed, slightly altered granitic xenolith (few highly altered); 2-10%, 1-5mm, SA, black olivine; 30-60%, fine-grained, A, black olivine; 20-40%, very fine-grained to aphanitic groundmass, variably light to dark coloured.	227	227.00	227.15	226	.060		
						227	0.60		
						228	0.67		
228.05	228.96	XENOLITH, diorite Light grey (N8), 85% medium-grained feldspar, 5% quartz, 10% amphibole. Non-magnetic, no carbonate.							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
228.96	230.00	"KIMBERLITE", highly contaminated: As above (224.41-228.05); xenoliths are highly altered; non-magnetic; no carbonate.				229	0.80		
			230	230.03	230.15	230	0.72		
230.00	236.10	XENOLITH, dioritic As above (228.05-228.96); non-magnetic, no carbonate. 231.76-231.98 "Kimberlite", highly contaminated as above (224.41-228.05) 224.95-225.05 "Kimberlite", bluish, as above (217.75-221.90)				231	0.97		
						232	1.02		
			233	233.00	233.11	233	0.52		
						234	0.35		
						235	1.45		
236.10	237.16	"KIMBERLITE", Same as 224.41-228.05 except <1% highly altered, xenoliths. 236.20-236.43 Very dark green, 20% R, embayed, 5-10mm diameter olivine in black fine-grained to aphanitic groundmass.	236	236.00	236.11	236	0.22		
						237	1.12		
237.16	246.75	XENOLITH, dioritic Slightly pinker than usual; non-magnetic; low to moderate pervasive carbonatization. 246.65-246.75 Highly serpentinized				238	0.32		
			239	239.00	239.08	239	-0.02		
						240	0.35		
						241	0.27		
246.75	249.98	"KIMBERLITE" Greenish black (5GY2/1), homogeneous, non-magnetic, low-medium pervasive carbonatization; 10%, 1-5mm, A-SR, black olivine; 30-80%, fine- to very fine-grained, R, olivine; 10%, light coloured (brownish), very fine-grained mineral; 30-70% very fine-grained, dark groundmass. 248.25-248.35 Trace-1%	242	242.00	242.10	242	0.80		
						243	1.57		
						244	0.47		
			245	245.00	245.11	245	0.25		
						246	0.57		
249.98	250.00	XENOLITH, highly altered				247	1.15		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)			
260.26	261.05	XENOLITH, dioritic (cont): 260.81-260.89 "Kimberlite", very contaminated; as above (259.91-260.26) 261.00-261.05 Highly altered								
261.05	262.30	"KIMBERLITE" Moderately contaminated, low carbonatization, non-magnetic; same as 255.55-258.09				262	2.60			
262.30	263.86	XENOLITH, dioritic: Very low carbonatization, non-magnetic, low alteration.	263	263.00	263.12	263	1.02			
263.86	264.17	"KIMBERLITE" Moderately contaminated, low carbonatization, non-magnetic; greenish black (5GY2/1), fairly uniform, homogeneous, massive; 8%, 1-3mm, A-SA, black embayed olivine; 60%, <1mm, R-A, black olivine; 32%, very fine-grained to aphanitic, medium grey groundmass.				264	21.7			
264.17	266.31	XENOLITH, dioritic Non-magnetic, low-medium carbonatization on fractures, generally low alteration except within 20-30mm of margins.				265	3.90			
			266	265.90	266.00	266	6.85			
266.31	282.59	"KIMBERLITE", fine-grained, hypabyssal: Greyish black (N2), slightly to moderately magnetic; 20%, 1-5mm, black, R-SR, olivine; 5%, 3-10mm, WR, highly altered xenoliths; 60%, fine-grained, R, olivine; 20% very fine-grained to aphanitic groundmass. 266.31-267.23 Decreasing effects of contamination indicated by change in groundmass colour from light to dark 266.31-269.30 Moderate carbonatization, pervasive and as fracture fillings 267.99-268.17 Xenolith, highly altered; surrounded by contaminated "kimberlite".				267	137			
						268	36.5			
			269	268.90	269.00	269	119			
						270	147			
						271	125			
			272	272.00	272.13	272	124			
						273	139			

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
266.31	282.59	"KIMBERLITE", fine-grained, hypabyssal (cont):				274	157		
		269.00-269.41 Abundant yellow serpentine							
		269.41-269.61 Very highly altered xenolith	275	274.91	275.00	275	124		
		269.61-269.81 Highly contaminated, moderate to low amounts of yellow serpentine				276	134		
		269.81-270.02 Very highly altered xenolith				277	119		
		270.02-270.17 Highly contaminated, low amounts of yellow serpentine	278	278.00	278.10	278	129		
		270.58-270.62 Very highly altered xenolith							
		271.60-271.89 Centre of section is highly altered xenolith; grades outwards to highly contaminated "kimberlite". Abundant yellow serpentine.				279	136		
		@271.90 Trace magnetite as 2mm diameter, fine-grained masses	281	281.00	281.10	281	92.5		
		273.05-273.15 Several 15mm diameter, very highly altered xenoliths				282	129		
		@273.20 Up to 1% R, olivine crystals up to 10mm diameter							
		273.52-273.80 Highly altered xenolith							
		274.21-274.86 Highly contaminated "kimberlite" (light coloured groundmass with yellow serpentine and less olivine megacrysts)							
		275.20-275.70 Highly contaminated "kimberlite", abundant yellow serpentine							
		276.15-276.35 As above (275.20-275.70)							
		277.80-278.60 20-30%, 1-5mm, SR-SA, embayed, black olivine; 30-40%, <1mm, R-A, rarely euhedral, black olivine; 30-50%, very fine-grained groundmass. Moderately magnetic.							
282.59		CONTACT: 20mm transition zone							
282.59	288.21	XENOLITH				283	8.27		
		Slightly altered, non-magnetic, low carbonatization as fracture fillings; light grey (N7), medium- to coarse-grained; 30% quartz, 40% feldspar, 30% amphibole.	284	284.00	284.12	284	5.57		
						285	0.87		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
282.59	288.21	XENOLITH (cont): 285.37-285.46 Contaminated "kimberlite" with 40% highly altered xenoliths and abundant 1-3mm serpentine filled fractures 287.94-288.13 Highly contaminated "kimberlite" as above (224.41-228.05)				286	0.90		
			287	287.00	287.10	287	2.77		
						288	11.1		
288.21		CONTACT, serpentine filled fracture							
288.21	289.58	"KIMBERLITE" Quite variable, moderate pervasive carbonatization throughout; slightly to moderately magnetic. 288.21-288.28 Medium dark grey (N4; 10%, 2-5mm, black, SR with few A, olivine; 50%, <2mm, WR, black olivine; 40% light coloured, aphanitic groundmass with abundant yellow serpentine 288.28-288.83 Medium dark grey (N4), fine-grained; 60% dark minerals; 40% light coloured, serpentinized groundmass; well developed, 3-5mm banding caused by segregation of dark minerals into layers; CA=65° 288.83-289.41 Dark greenish grey (5G4/1); 10-15%, 2-5mm, black, R-SA, embayed olivine; 20-30%, <1mm, black, R, olivine; 45-70%, very fine-grained to aphanitic groundmass with trace yellow serpentine 289.41-289.58 As above 288.21-288.28				289	68.8		
289.58	289.60	CONTACT: zone mainly of serpentine filled fractures							
289.60	291.50	XENOLITH: medium-grained; as above (282.59-288.21)	290	290.00	290.10	290	5.07		
291.50		CONTACT: fairly distinct				291	10.6		
291.50	354.45	"KIMBERLITE": Variable texture and composition; generally moderately magnetic with low pervasive carbonatization.				292	140		
			293	293.00	293.12	293	72.2		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ³)		
291.50	354.45	"KIMBERLITE" (cont): Greyish black (N2); 1%, 10-15mm diameter, highly altered xenoliths; 10%, 2-5mm, black, SR-R few euhedral, olivine; 40%, <2mm, black, R-SA few subhedral, olivine; 50%, very fine-grained to aphanitic groundmass. Trace magnetite as 3mm diameter, rounded, fine-grained masses.				294	128		
						295	85.4		
			296	296.00	296.10	296	96.8		
						297	135		
						298	93.8		
		291.50-291.68 As above (288.83-289.41) 292.11-292.44 As above (288.83-289.41); CA=80°	299	299.00	299.10	299	46.5		
		293.02-294.05 Black (N1)				300	63.5		
		294.05-294.25 Xenolith (as above 282.59-288.21); sharp contacts				301	28.2		
		294.25-294.58 Black (N1); 2% R, highly altered, 15mm xenoliths	302	302.00	302.11	302	45.5		
		294.58-295.36 Greenish grey (5G6/1); 10%, 1-2mm, black, R-A, embayed olivine; 50%, very fine-grained, black minerals; 40%, very fine-grained, light grey material. Crude banding from alignment of coarse olivine, CA=58°. Most olivine have reaction rims; trace 1x3mm ovals of fine-grained magnetite.				303	78.4		
						304	96.7		
			305	305.00	305.11	305	84.6		
						306	113		
		295.36-296.72 As above (294.58-295.36) but with variable amounts of coarse olivine up to 20% over 0.1m sections and several 0.05m sections of black "kimberlite" adjacent to 1mm fractures filled with calcite and serpentine. Moderately magnetic; moderate carbonatization				307	95.5		
			308	308.00	308.12	308	81.1		
						309	97.8		
		297.15-296.25 Highly altered xenolith				310	108		
		@297.69 20mm highly altered xenolith							
		@298.15 Two 10-15mm moderately altered xenoliths containing trace biotite	311	31.00	311.12	311	124		
		@298.20 5x20mm xenolith as above				312	95.6		
		298.22-298.27 Xenolith as above							
		298.43-298.49 Highly altered xenolith				313	105		
		@298.60 10mm highly altered xenolith with trace-1% biotite	314	314.00	314.12	314	75.5		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
291.50	354.45	"KIMBERLITE" (CONT):				315	121		
		@298.85 5X10mm lens shaped, highly altered xenolith; adjacent olivine containing epidote (?)				316	17.6		
		299.25-299.29 Moderately altered xenolith							
		@299.41 5x20mm highly altered xenolith	317	317.00	317.11	317	93.4		
		299.50-299.62 Highly altered xenolith				318	104		
		299.70-299.72 Highly contaminated "kimberlite"				319	94.1		
		301.06-301.35 Abundant 10-15 x 20-30 mm, moderate-highly altered xenoliths	320	320.00	320.12	320	91.7		
		301.56-301.60 20mm wide lenticular, highly altered xenolith with deep red mineral at margins (garnet?)				321	96.1		
		302.69-302.77 Unaltered xenolith				322	75.6		
		@305.00 Olivine, particularly the coarse ones, are gradually becoming lighter green	323	323.00	323.08	323	81.2		
		309.35-309.78 Highly contaminated "kimberlite"				324	61.6		
		309.45-309.49 very highly altered xenolith				325	83.6		
		310.54-310.59 Moderate-highly altered xenolith; probably not granitic as different from others	326	325.90	326.00	326	85.8		
		311.19-311.35 High-moderately altered, dioritic xenolith; sharp margins				327	96.9		
		311.52-311.65 Several 10-15mm highly altered xenoliths containing brown acicular mineral				328	83.8		
		@311.87 Medium-grained dioritic xenolith haloed by two 10mm different alteration zones	329	328.89	329.00	329	28.4		
		312.10-312.17 Highly altered xenolith				330	86.7		
		312.33-312.41 Two highly altered xenoliths				331	86.8		
		312.41-313.21 Highly contaminated "kimberlite"; no large olivine; granular texture	332	331.92	332.00	332	74.8		
		313.41-314.10 As above				333	83.2		
						334	93.8		
			335	335.00	335.12	335	81.9		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
291.50	354.45	"KIMBERLITE", (cont):				336	82.2		
		314.10-314.18 Highly altered xenolith				337	55.5		
		314.18-314.38 As above (312.41-313.21)							
		314.40-314.50 Very highly altered xenolith							
		314.88-314.92 As above	338	337.84	337.97	338	69.2		
		315.28-315.31 As above				339	62.5		
		315.90-315.95 As above							
		316.00-316.05 As above				340	84.2		
		316.31-320.10 Coarser olivine are present but are less distinct in that they are the same light colour as the groundmass; groundmass is fine-grained, granular (result of contamination ?)	341	341.00	341.10	341	7.17		
		319.25-319.40 Several, 10mm, highly altered xenoliths				342	87.2		
		320.49-320.56 Highly altered xenolith				343	90.1		
		320.87-320.94 As above							
		@321.55 10x5mm highly altered xenolith	344	344.00	344.10	344	77.6		
		321.69-321.72 Highly altered xenolith				345	110		
		321.83-321.89 As above				346	114		
		323.72-323.80 As above; moderately carbonatized	347	347.00	347.08	347	80.2		
		326.92-326.97 Very highly altered xenolith				348	109		
		328.16-328.32 Highly altered xenolith				349	106		
		328.55-328.61 Very highly altered xenolith							
		329.80-329.92 As above							
		330.13-330.35 As above							
		330.80-330.83 As above	350	350.00	350.07	350	103		
		331.75-344.50 1-2%, very highly altered, 10-30mm xenoliths				351	132		
		331.18-331.32 Abundant highly altered 30-40mm xenoliths				352	108		
		333.91-334.32 Very few olivine megacrysts	353	353.00	353.09	353	92.9		
		337.50-337.64 Very highly altered xenolith; 50% aphanitic serpentine				354	43.8		
		339.44-339.62 Moderately altered, grey granitic gneiss xenolith with trace-1% medium-grained, disseminated, Py							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
291.50	354.45	"KIMBERLITE", (cont): 341.88-342.10 Very highly altered xenolith 342.19-342.32 As above; moderately carbonatized 342.82-342.85 As above 343.51-343.54 As above 342.77-342.86 Highly altered xenolith; upper part has black, tabular mineral (pyroxene or amphibole), lower part has reddish brown alteration mineral haloing less altered material @351.62 8mm serpentinized fracture filling with acicular mineral and 1% Po. CA=45° 352.70-352.80 Very altered xenolith or highly contaminated "kimberlite" 351.70-354.45 Low carbonatization as fracture fillings 353.80-354.45 Abundant 40-60mm, low-moderately altered granitic gneiss xenoliths							
354.45		CONTACT: sharp, 5mm of contact reaction "kimberlite"							
354.45	358.70	XENOLITH: Very slightly altered; gneissic banding shown by alignment of mafic minerals; CA is variable, 10°-30°; non-magnetic; low carbonatization; 10% quartz; 80% feldspar; 10% chloritized hornblende; 10% rounded masses to 15x30mm of felsic material; <2% other mafic minerals				355	2.37		
			356	356.00	356.09	356	0.30		
						357	1.37		
						358	2.45		
358.70		CONTACT: sharp, no reaction zone; CA=20°							
358.70	365.60	"KIMBERLITE" Characterized by small, fresh, angular xenoliths, especially in the lower parts. Dark greyish black (N2) to black (N1), moderately magnetic, moderate pervasive carbonatization; 15-20%,	359	359.00	359.07	359	67.8		
						360	59.8		
						361	31.7		
			362	362.00	362.12	362	4.80		

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10^{-3})		
358.70	365.60	"KIMBERLITE" (cont): 2-8mm, R-SA some embayed, black olivine; 60-80%, <2mm, R-euhedral, black olivine; 10-20%, very fine-grained groundmass; trace 1mm diameter masses of fine-grained magnetite; 1-5%, A, slightly altered xenoliths to 10 mm diameter.				363	2.65		
						364	49.1		
			365	365.00	365.09	365	0.37		
		358.70-358.90 Olivine megacrysts are light coloured							
		361.59-362.10 Highly contaminated; 40% light coloured, aphanitic groundmass. Several 20-50mm xenoliths, moderately altered							
		362.10-363.03 Moderate-highly contaminated; 30% moderate-highly altered xenoliths, some with abundant phlogopite; 10%, 2-8mm, black, SA embayed, olivine; 30%, <2mm, black, R, olivine; 30% light green, serpentinized, aphanitic groundmass							
		363.65-363.78 Highly contaminated as above; magnetite masses have 0.5mm reaction rims; abundant serpentine filled fractures, one with massive, fine-grained Py at margins							
		364.32-364.64 Highly contaminated as at 362.10-363.03							
		@364.53 8mm feldspar xenolith with purple mineral in centre							
		364.64-364.99 Slightly altered, granitic gneiss xenolith							
		364.99-365.10 Very highly contaminated; <10% olivine in yellowish green, aphanitic groundmass							
		365.10-365.23 Slightly altered, granitic gneiss, xenolith; highly fractured with 1-3mm serpentine filled fractures							
		@365.25 Fractures filled with coarse gypsum?							
		365.38-365.50 Slightly altered, granitic gneiss, xenolith							
		365.50-365.60 Highly contaminated as at 362.10-363.03							

From (m)	To (m)	Description	Sample No	From (m)	To (m)	Depth (m)	M. S. (10 ⁻³)		
365.60		CONTACT: fairly sharp							
365.60	366.24	"KIMBERLITE", highly contaminated Light bluish grey to medium bluish grey (5B6/1); fine-grained; non-magnetic; moderate-high pervasive carbonatization; 15%, 1mm, R, black core with lighter margins, olivine; 30% very fine-grained, dark mineral (olivine?); 25% aphanitic green serpentine; 30% light bluish grey groundmass. Mafic minerals are in specific bands giving the rock a banded appearance, CA=32°				366	12.5		
366.24		CONTACT, sharp							
366.24	383.00	"KIMBERLITE", Crater facies ? Dark grey to black (N2-N1); slightly magnetic in a few places; generally very low carbonatization except as below. Xenoliths are only slightly altered and have only affected the "kimberlite" for 2-4mm around them; all are of granitic gneiss. 1%, SR, >100mm xenolith; 5% SR-SA, 10-100mm xenoliths; 10% SA-SR, 1-10mm xenoliths; 1% dark green, SR embayed, >10mm olivine; 20%, 2-6mm, black becoming greyer at depth, commonly with thin reaction rims, olivine; 30%, <0.5mm, black, R-SA few euhedral, olivine; 33% aphanitic, light coloured, serpentinized groundmass; trace diopside (?). Texture and composition varies quite rapidly within the section. @366.70 10x40mm xenolith with acicular brown mineral 367.34-367.43 Granitic gneiss xenolith with red garnets (?) 367.61-368.38 Highly fractured; moderate pervasive carbonatization 370.85-370.98 Xenolith as above (366.70) 377.12-383.00 Moderate pervasive carbonatization				367	26.1		
			368	368.05	368.16	368	11.3		
						369	1.95		
						370	0.82		
			371	370.93	371.00	371	1.55		
						372	0.45		
						373	2.05		
			374	374.00	374.11	374	0.42		
						375	0.95		
						376	1.62		
			377	376.90	377.00	377	1.75		
						378	43.9		
						379	3.67		
			380	379.92	380.00	380	4.97		
						381	3.77		

CORE BOXING AND STORAGE

BOX No.	DEPTH		ROCK TYPE	SHIP/ STORE	BOX No.	DEPTH		ROCK TYPE	SHIP/ STORE
	FROM	TO				FROM	TO		
1	0.00	13.38	Palaeozoic	Ont. Gov't	22	132.53	138.43	Precambrian	Toronto
2	13.38	20.13	Palaeozoic	Ont. Gov't	23	138.43	144.37	Precambrian	Toronto
3	20.13	25.32	Palaeozoic	Ont. Gov't	24	144.37	150.23	Precambrian	Toronto
4	25.32	31.59	Palaeozoic	Ont. Gov't	25	150.23	156.00	Precambrian	Toronto
5	31.59	38.18	Palaeozoic	Ont. Gov't	26	156.00	161.79	Precambrian	Toronto
6	38.18	44.74	Palaeozoic	Ont. Gov't	27	161.79	167.61	Precambrian	Toronto
7	44.74	50.66	Palaeozoic	Ont. Gov't	28	167.61	173.49	Precambrian	Toronto
8	50.66	56.66	Palaeozoic	Ont. Gov't	29	173.49	179.13	Precambrian	Toronto
9	56.66	62.61	Palaeozoic	Ont. Gov't	30	179.13	184.85	Precambrian	Toronto
10	62.61	68.43	Palaeo/PreC	Toronto	31	184.85	190.74	Precambrian	Toronto
11	68.43	74.33	Precambrian	Toronto	32	190.74	196.47	Precambrian	Toronto
12	74.33	80.20	Precambrian	Toronto	33	196.47	202.22	Precambrian	Toronto
13	80.20	86.21	Precambrian	Toronto	34	202.22	207.81	Precambrian	Toronto
14	86.21	92.00	Precambrian	Toronto	35	207.81	213.89	Precambrian	Toronto
15	92.00	97.90	Precambrian	Toronto	36	213.89	219.68	Precambrian	Toronto
16	97.90	103.80	Precambrian	Toronto	37	219.68	225.09	Precambrian	Toronto
17	103.80	109.58	Precambrian	Toronto	38	225.09	231.07	Precambrian	Toronto
18	109.58	115.43	Precambrian	Toronto	39	231.07	236.89	Precambrian	Toronto
19	115.43	120.94	Precambrian	Toronto	40	236.89	242.82	Precambrian	Toronto
20	120.94	126.75	Precambrian	Toronto	41	242.82	248.69	Precambrian	Toronto
21	126.75	132.53	Precambrian	Toronto	42	248.69	254.45	Precambrian	Toronto

BOX No.	DEPTH		ROCK TYPE	SHIP/ STORE	BOX No.	DEPTH		ROCK TYPE	SHIP/ STORE
	FROM	TO				FROM	TO		
43	254.45	260.40	Precambrian	Toronto	64	377.71	383.00	Precambrian	Toronto
44	260.40	266.24	Precambrian	Toronto					
45	266.24	272.00	Precambrian	Toronto					
46	272.00	277.96	Precambrian	Toronto					
47	277.96	283.76	Precambrian	Toronto					
48	283.76	289.68	Precambrian	Toronto					
49	289.68	295.57	Precambrian	Toronto					
50	295.57	301.47	Precambrian	Toronto					
51	301.47	307.35	Precambrian	Toronto					
52	307.35	313.27	Precambrian	Toronto					
53	313.27	319.13	Precambrian	Toronto					
54	319.13	325.00	Precambrian	Toronto					
55	325.00	330.94	Precambrian	Toronto					
56	330.94	336.76	Precambrian	Toronto					
57	336.76	342.63	Precambrian	Toronto					
58	342.63	348.62	Precambrian	Toronto					
59	348.62	354.52	Precambrian	Toronto					
60	354.52	360.44	Precambrian	Toronto					
61	360.44	366.18	Precambrian	Toronto					
62	366.18	371.95	Precambrian	Toronto					
63	371.95	377.71	Precambrian	Toronto					



**Report of Work Conducted
After Recording Claim**

Mining Act

Transaction Number

W. 9760-00211

Amended

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, 169 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

Instructions: Please type or print and attach the following:

- Refer to Record
- A separate Technician
- A sketch



43F03NW0001 2.17494

2.17494
assessment work or consult the Mining

900

by this form.

Recorded Holder(s) KWG Resources Inc.	Client No. 224701
Address #1000 - 350 Bay St., Toronto Ontario, M5H 2S6	Telephone No. (416) 869-0626
Mining Division Porcupine	Township/Area Attawapiskat
Date Work Performed From: March 20/95	To: March 25/95
M or B Plan No. BMA 532852/G-K46	

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 \$ ~~(89,488)~~ \$ 98,078

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
Midwest Drilling	180 Cree Cres., Winnipeg, Manitoba, R3J 3W1
Roger Thomas	1373 Corkery Road, Carp Ontario, K0A 1L0
Steve Munro	614 Bayfield Street, Pickering Ont. L1V 3W5

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: Mar 12/97
Recorded Holder or Agent (Signature): *[Signature]*

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
Steve Munro, #1000-350 Bay St., Toronto, Ontario, M5H 2S6

Telephone No. 416) 869-0626
Date: Mar 12/97
Certified by (signature): *[Signature]*

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received MARCH 13/97 10:30 AM.
	Deemed Approval Date	Date Approved	
	Date Notice for Amendments Sent		

Part 1 of 1

W9760.00211

Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1204022	16
	1204023	16
Total Number of Claims		2

Value of Assessment Work Done on this Claim	Value Applied to this Claim
98,078 (97,988) <i>W</i>	32,000
98,078 <i>W</i>	64,000
Total Value Work Done	
Total Value Work Applied	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
32,000 <i>W</i>	34,078 (34,000) <i>W</i>
32,000	34,078 <i>W</i>
Total Assigned From	
Total Reserve	

2.17494

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:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. 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:



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

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 transac

W19760.00211

Ammend

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, Mining 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	14,381	
	Field Supervision Supervision sur le terrain		14,381
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	Drilling	26,093	M
	Helicopter Support	34,517	
Geologists	6,741		
Supplies Used Fournitures utilisées	Type		
			67,351 M
Equipment Rental Location de matériel	Type		
		2,174.94	

Total Direct Costs
Total des coûts directs

81,732 M

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		
	Flood Plane Service	35,575	
Food and Lodging Nourriture et hébergement	Camp Costs	3,745	3,745
Mobilization and Demobilization Mobilisation et démoblisation			

Sub Total of Indirect Costs
Total partiel des coûts indirects

39,320

Amount Allowable (not greater than 20% of Direct Costs)
Montant admissible (n'exécédant pas 20 % des coûts directs)

14,915

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)

89,788

16,346

98,078 M

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.

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.

Billing 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
	x 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.

Valueur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

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

I, as Claims Manager I am authorized (Recorded Holder, Agent, Position in Company)

I 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	Date
<i>[Signature]</i>	11/11/97

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



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

August 6, 1997

Steve Munro
RESSOURCES KWG INC.
350 BAY STREET
SUITE 1000
TORONTO, ONTARIO
M5H-2S6

Telephone: (888) 415-9846
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17494

Status

Subject: Transaction Number(s): W9760.00211 Deemed Approval

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

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

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

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

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

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

Work Report Assessment Results

Submission Number: 2.17494

Date Correspondence Sent: August 06, 1997

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00211	1204022	ATTAWAPISKAT	Deemed Approval	June 11, 1997

Section:
10 Physical PDRILL

Correspondence to:
Resident Geologist
Thunder Bay, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Steve Munro
RESSOURCES KWG INC.
TORONTO, ONTARIO

533852 G-4238

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 MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

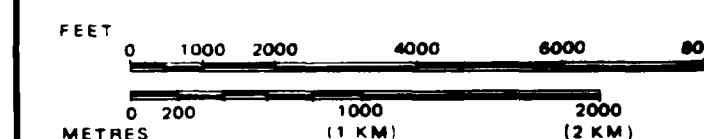
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

AREAS WITHDRAWN FROM DISPOSITION

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

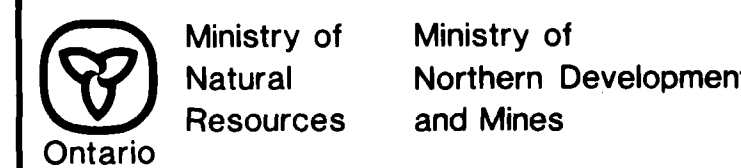
Description	Order No.	Date	Disposition	File

SCALE: 1 INCH = 40 CHAINS

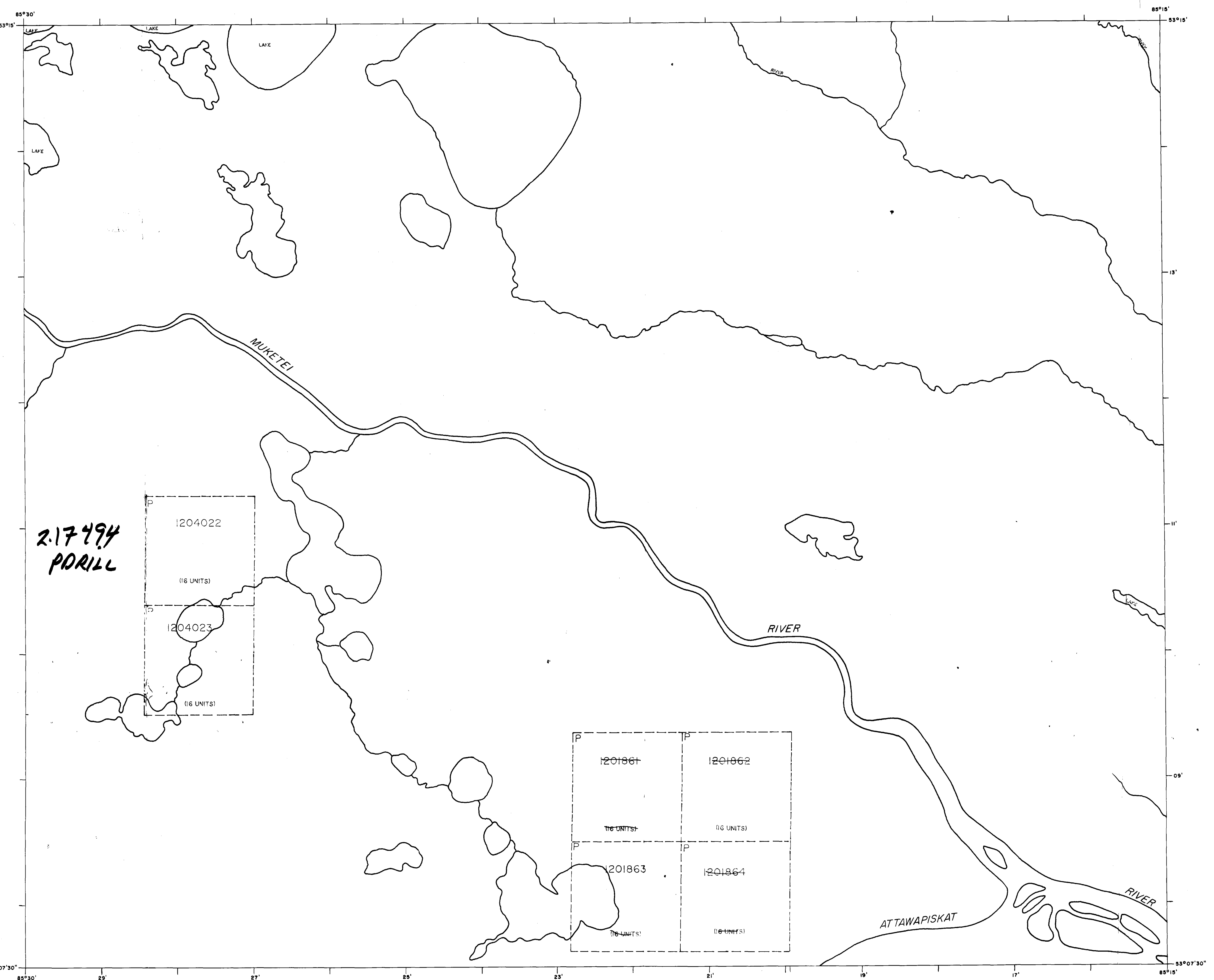


AREA 532852

M.N.R. ADMINISTRATIVE DISTRICT
 NIPIGON
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 KENORA/PATRICIA PORTION



Date JULY, 1995 Number
 ACTIVATED NOV. 7/95 BY D.C. G-4247
 CHECKED BY: D.K.



532853 G-4248

532851 G-4246

531852 G-4244

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.

