42A01NE0083 31 LEBEL

DIAMOND DRILLING

TOWNSHIP: Lebel

REPORT NO.: 31

WORK PERFORMED BY: Wm. Marshall

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L 531754	N83-1	138	May/83	(1)
	N83-2	108	May/83	(1)
	N83-3	198	May/83	(1)
	N83-4	201	May/83	(1)
	N83-5	168	June/83	(1)
	N83-6	158	June/83	(1)
	N83-6A	208	June/83	(1)
	N83-7	206	June/83	(1)
	N83-8A	208	July/83	(1)
	N83-9	824	June/83	(1)

NOTES: (1) #293-83

DIAMOND DRILL RECORD

LOGGED BY F. P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township property, Ontario

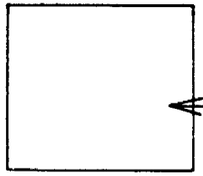
D.D.H. No. N83-1 PAGE 1

LATITUDE 0 + 05S BEARING OF HOLE Az 360° STARTED 21 May 1983

DEPARTURE 2 + 70W 15'± below shaft collar DIP OF HOLE -45° COMPLETED 23 May 1983

ELEVATION DIP TESTS DEPTH 138'

CLAIM No. 531754



DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LIMITED, Lively, Ontario

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	7	CASING					
7	28	TUFF: Dark green. Bedded					
		Dark green thinly bedded, fine grained tuffaceous sediment. Predominantly dark green with milk white and charcoal gray beds, seams and small wispy fragments. Random thin discontinuous irregular threads and small fragments of milk white quartz-carbonate. Random narrow fragmented vein zones of quartz-carbonate and fine pyrite as individually noted.					
		Bedding @ 73°±.					
	8.5	Slip @ 20°.					
	10.5	2" fragmented pearly quartz stringer @ 65°.					
10.5 -	12	Broken and mechanically fragmented core.					
	13	12" zone with a series of rusty fractures @ 65°.					
	20	Slip @ 20°.					
	22.5	2" fragmented siliceous tuff and quartz zone with fine disseminated pyrite @ 70°.					
	23.5	7" fragmented milk white quartz-carbonate a tuff with sparse very fine pyrite.					
23.5 -	26	Finely bedded dark green and charcoal gray tuff @ 75°.					
	26	4" fragmented cherty gray and milk white fine granular quartz with liberally disseminated fine pyrite.					
	26.8	1" finely fragmented milk white and gray stringer zone.					
		Finely bedded tuffaceous margins @ 75°.					

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
7	28	TUFF cont'd					
		27.5 3" banded milk white and pearly gray thin 1/8"± stringer zones with fine disseminated pyrite and "hairline" seams of fine pyrite. Banding @ 70°.					
		28 2" irregular fragmented quartz stringer zone with sparse very fine pyrite. Thinly laminated tuffaceous margins @ 75°.					
		Defined contact @ 70°.					
28	57	GREYWACKE? Charcoal gray. Bedded					
		Thinly laminated charcoal and ash gray greywacke with local areas with a faint hematitic tint.					
		Bedding and laminations @ 72°±. Cross fractures from 25 - 40°.					
		Random fine milk white quartz-carbonate veinlets generally paralleling the bedding but occasionally cross-cutting and irregular.					
		30 Slip @ 70° with gouge and 1/16" milk white quartz-carbonate seam.					
		32.6 6" granular charcoal gray vein zone with sparse fine pyrite @ 70° interbanded with tuffaceous greywacke.					
		33 Slips with rusty staining @ 70°.					
		45.5 1.5" laminated hematitic pink and milk white stringer zone - Sparse? fine pyrite. Laminated @ 70°.					
		48 12" bedded greywacke with a series of laminated and intersecting chalk white quartz-carbonate threads.					
		56 16" fragmented and siliceous fine granular and gritty greywacke? cemented by irregular laths of milk white quartz-carbonate and fine cherty gray quartz.					
		Fine disseminated pyrite.					
		Gradational but defineable contact.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
57	138	CONGLOMERATE					
		Generally finely fragmented unsorted conglomerate with generally rounded but also angular fragments of various rock type origins. Jaspelite and feldspar fragments stand out.					
		Random fine irregular and discontinuous chalk white quartz-carbonate seams throughout.					
		57 - 67 Intermittent series of 1/16"± veinlets of chalk white quartz-carbonate @ 60° in fine fragmented conglomerate.					
		73 11" black fine grained mafic dyke @ 50°. Noteably magnetic.					
		76 - 84 Fine gritty conglomerate.					
		84 - 109.5 Unsorted conglomerate with angular and subrounded fragments up to 4" but most less than 2".					
		109.5 3'± black fine grained mafic dyke. Irregular contacts. Weakly magnetic.					
		123± - 138 Coarse unsorted conglomerate with intermittent irregular and fine seams of chalk white and pink quartz-carbonate.					
		Fracturing in the conglomerate from 25 - 55°.					
	138	END OF HOLE					
		Casing in hole.					

REGISTERED PROFESSIONAL ENGINEER MINING E. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au
		SAMPLING AND ASSAYING	N831-1	8.7	10.2	1.5'	Nil
			-2		10.6	.4'	.002
			-3		12	1.4'	Nil
			-4		15	3.0'	.10
			N831-5	23	24	1.0'	.002
			-6		25.8	1.8'	Nil
			-7		26.1	.3'	.08
			-8		27	.9'	.08
			-9		28.5	1.5'	.02
			N831-10	32	33	1.0'	Nil
			N831-11	@46.5		.15'	Nil
			N831-12	48	49	1.0'	Nil
			N831-13	56	58	2.0'	.11
			N831-14	32	38	6.0'	Nil

REGISTERED PROFESSIONAL ENGINEER
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PROVINCE OF ONTARIO

DIAMOND DRILL RECORD

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PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township property, Ontario

D.D.H. No. N83-2 PAGE 1

LATITUDE 0 + 05S BEARING OF HOLE Az 360° STARTED 23 May 1983

DEPARTURE 2 + 05W 10'± below CLAIM No. 531754

DIP OF HOLE -45° COMPLETED 24 May 1983

ELEVATION shaft collar DIP TESTS DEPTH 108'

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LTD. Lively, Ontario.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	6	CASING					
6	38±	TUFF Dark green Bedded					
		Thinly bedded alternating dark green and ash gray tuff. Numerous conformable fine hairlike and finely fragmented chalk white quartz-carbonate vein zones. Numerous fractures - most conformable to bedding.					
		Bedding @ 65°±.					
		13 12" zone of thinly bedded alternating dark green and pearly white, ash gray, and pearly white tuff.					
		16.5 24"± zone of alternating bedded ash gray and dark green tuff cut by milk white quartz-carbonate veinlets generally along or at low angles to core.					
		19 12" zone of vaguely bedded faint pink siliceous zone with disseminated very fine pyrite.					
		Bedding and slips @ 60°.					
		20 .9' zone of fragmented pearly quartz and green tuff fragments with disseminated fine pyrite. Border bedding @ 65°.					
		24 .3' fragmented siliceous vein zone with liberally disseminated fine pyrite.					
		Slip contact and foliation @ 60°.					
		26.7 - 38 Alternating series finely fragmented and irregular ash gray and pearly gray siliceous material in bedded dark green tuff.					
		Numerous bedding plain slips @ 65°.					
		29 12" zone of mechanically broken core. Gradational but defined contact.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
38+	66.5	GREYWACKE Charcoal gray Bedded					
		Charcoal gray and faint hematitic pink tinted fine grained bedded greywacke. Bedding @ 72°±. Random mixed pink and milk white quartz-carbonate veinlets at irregular angles to core. Sharp contact.					
66.5	108	CONGLOMERATE					
		Unsorted angular and semi rounded fragments of various origins. Fragments generally under 2". Alternating gritty and conglomeritic beds. Vague bedding @ 65°±. Random fine lensey discontinuous seams of pink and white quartz-carbonate.					
	108	END OF HOLE					
		Casing in hole.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au
		SAMPLING AND ASSAYING					
			N832-1	16.3	18.9	2.6'	.002
			-2		19.9	1.0'	Nil
			-3		21	1.1'	.06
			-4		22		.01
			-5	22	22.3	.3'	1.00
			-6	22.3	23	.7'	.002
			N832-7	27	30.7	3.7'	Nil
			N832-8	30.7	37	6.3'	Nil

REGISTERED PROFESSIONAL ENGINEER
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PROVINCE OF ONTARIO

DIAMOND DRILL RECORD

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PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township property, Ontario

D.D.H. No. N83-3 PAGE 1

LATITUDE 0 + 55S BEARING OF HOLE Az 360° STARTED 25 May 1983

DEPARTURE 2 + 00W DIP OF HOLE -45° COMPLETED 26 May 1983

ELEVATION 15'± below shaft collar DIP TESTS DEPTH 198'

CLAIM No. 531754

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LTD. Lively, Ontario.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	6	CASING					
6	43	TUFF Dark green. Finely bedded.					
		Dark green, fine grained, thinly bedded tuff.					
		Cut by numerous thin 1/16"± conformable and cross-cutting pink tinted milk white quartz-carbonate threads.					
		1% quartz-carbonate threads.					
		Bedding generally @ 55°±.					
		17 8" porphyritic zone.					
		Fine feldspathic fragments in dark green tuff matrix parallelling bedding.					
		Minor, random, fine pyrite.					
		31.5 2.5" very fine grained fragment?					
		Sharp upper contact @ 55°.					
43	50.5	DYKE					
		Very fine grained, charcoal gray mafic dyke.					
		Fine fractures filled with intersecting hair-like threads of milk white quartz-carbonate.					
		Very weakly magnetic.					
		Sparse very fine pyrite.					
50.5	107	TUFF Dark green. Bedded.					
		Predominantly dark green fine grained bedded tuff.					
		Zones of alternating pearly gray and dark green beds.					
		Random narrow fragments? or beds? of faint purplish					

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
50.5	107	TUFF Dark green. Bedded. cont'd					
		tinted quartzite.					
		Variations as noted.					
		62.5 - 65± Fragmented zone					
		Pale pink fine grained angular siliceous fragments up to 1" mixed with dark green tuffaceous matrix material.					
		Minor intermixed milk white quartz-carbonate.					
		Series of fractures with chloritic coatings from 50 - 70°.					
		Sparse very fine disseminated pyrite.					
		70 3' zone of fragmented and bedded pearly gray tuff interbedded with dark green tuff.					
		73.5 0.3' finely fragmented pale gray quartz with disseminated very fine pyrite. Thinly bedded tuff on each margin.					
		76 - 77+ Thinly bedded pearly gray and dark green tuff.					
		77.3 - 78.5 Vein zone.					
		Thinly laminated and fragmented pearly gray vein zone.					
		Fine hairlike conformable threads of sericite. Very fine grained liberally disseminated and hairlike seams of pyrite.					
		78.5 - 83± Alternating bands up to .9' of finely bedded siliceous tuff and dark green tuff-possibly quartzite beds.					
		88 - 91 Zone of fine granular gritty tuff. Fine pale hementitic pink fragments in charcoal gray matrix.					
		91 - 107 Dark green bedded tuff with interbedded fine granular quartzite? beds.					

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
107	112	PORPHYRY					
		Charcoal gray pink tinted fragmented and fractured porphyry.					
		Random irregular fragmented narrow 1/8 - 1" milk white quartz-carbonate zones.					
		Sparse fine pyrite.					
112	198	CONGLOMERATE					
		Unsorted angular and semi rounded fragments of various sizes and types.					
		Alternating zones of fine gritty conglomerate and coarse granular conglomerate.					
		Laced with fine irregular seams from 1/16 - 1/4" of milk white and pink tinted quartz-carbonate.					
		3%+ milk white quartz-carbonate. Some fragments variably magnetic.					
	198	END OF HOLE					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N833-1	17.5	18.5+	1.0'					
			N833-2	43	50.5	7.5'					
			N833-3	62.5	65	2.5'					
			N833-4	73.5		0.3'					
			N833-5	73.8	77.3	3.5'					
			N833-6	77.3	78.5	1.2'					
			N833-7	78.5	83	4.5'					
			N833-8	107	112	5.0'					

F.P. Tagliamonte, P.Eng.

DIAMOND DRILL RECORD

LOGGED BY F. P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township property, Ontario

D.D.H. No. N83-4 PAGE 1

LATITUDE 0 + 55'S BEARING OF HOLE Az 360° STARTED 27 May 1983

DEPARTURE 2 + 70W DIP OF HOLE -45° COMPLETED 2 June 1983

ELEVATION 15'± below shaft collar DIP TESTS DEPTH 201'

CLAIM No. 531754

DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LTD. Lively, Ontario.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	6	CASING					
6	107	TUFF dark green. bedded.					
		Dark green fine grained thinly bedded tuff. Laced with fine milk white and pink tinted quartz-carbonate threads and seams.					
		Bedding @ 60°±.					
		Variations as noted.					
		20 - 21.5 20%+ irregular intersecting milk white quartz-carbonate veinlets. 60° slip @ uppercontact.					
		31.5 2' Dyke. Dark green. Fine grained. Peppered with black flecks throughout. Sharp slip contacts @ 35°. Series of internal slips @ 35°.					
		55 12" dyke as above.					
		36.5 - 40± Series of intersecting milk white quartz-carbonate veinlets in dark green tuff. 30% quartz-carbonate.					
		42 - 44+ Mixture of bedded pearly gray and dark green tuff with minor intersecting milk white quartz-carbonate veinlets. Series of thread-like sericite threads. Bedding @ 65°.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

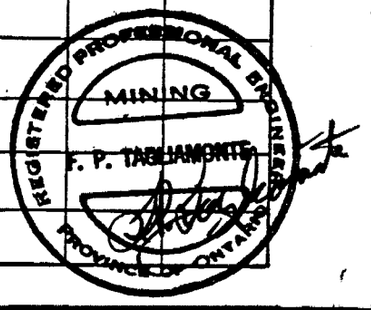
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
6	107	TUFF dark green. bedded. cont'd					
		45 3" gray-green siliceous fine grained stringer. Slip contact @ 80°.					
		48 - 58.8 Zone of very fine grained tuff with zones of vesicular-like pearly gray tuff and interlaminated pearly gray and green tuff.					
		58.8 - 60 Vein Zone					
		Fragmented pearly white and charcoal gray quartz liberally disseminated with very fine pyrite. Slip @ 20° on upper contact with gouge.					
		Internal slips @ 75°. Broken core - possibly some grinding.					
		60 - 71.5± Thinly laminated, fractured dark green and pea green - possibly sericitic tuff. 60% mechanically broken core. Bedding and foliation @ 70°±.					
		71.5 3" Vein Zone Fragmented pearly gray and charcoal gray cherty quartz stringer zone. Liberally disseminated very fine pyrite. Slip contacts @ 70°.					
		72.5 12" Vein Zone Fragmented beige pyritic siliceous fragments cemented by pearly gray quartz-carbonate. Liberally disseminated fine pyrite.					
		75.5 1/8" pyritic quartz stringer @ 60°.					
		79 1" quartz veinlet with fine disseminated pyrite.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
6	107	TUFF dark green. bedded. cont'd					
		93 - 97 Interbedded series of weakly carbonated ash gray tuff in otherwise black tuff. Bedding @ 70°.					
		99.7 - 102.6 Massive dark green slatey hard thinly bedded tuff with very fine sparsely disseminated pyrite.					
		103.8 .1' quartz stringer zone with sparse fine pyrite @ 70°.					
107±	201	CONGLOMERATE					
		Gradational upper contact. Vaguely bedded unsorted angular and semi rounded fragments of various sizes and types.					
		Laced with pink and milk white carbonate veinlets at all angles to core. 3% carbonate veinlets.					
		Weakly magnetic in local areas. Some fragments of black cherty iron formation.					
		107 - 133± Random small jaspelite fragments. Fine gritty conglomerate.					
		133± - 128 Semi angular and rounded fragments up to 3". 2" quartz carbonate stringer @ 60°.					
		157.5 1.5" pink and milk white quartz carbonate stringer @ 68o.					
		157 - 161 Fine grained granular charcoal gray mafic dyke.					
		3" quartz carbonate stringer zone at lower contact with fine splash of chalcopyrite.					
	201	END OF HOLE					
		Casing in hole.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N834-1	20	22	2'	.002				
			N834-2	@45		.5'	.002				
			N834-3	@47		.3'	.002				
			N834-4	56	58.5	2.5'	Nil				
			-5	58.5	59.5	1'	.27				
			-6	59.5	62.5	3'	.005				
			-7	62.5	67.5	5'	.002				
			-8	67.5	71.4	3.9'	.002				
			-9	@71.4		.25'	.06				
			-10	71.7	72.6	.9'	.08				
			-11	72.6	73.6	1'	.07				
			-12	73.6	77.1	3.5'	.02				
			N834 -13	99.7	102.6	2.9'	.002				
			-14	102.6	103.8	1.2'	.002				
			-15	@103.8		.1'	.16 (.16)				
			-16	103.9	104.8	1.1'	.05				



DIAMOND DRILL RECORD

LOGGED BY F. P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township Property, Ontario.

D.D.H. No. N83-5 PAGE 1

LATITUDE 0 + 50S BEARING OF HOLE Az 360° STARTED 3 June 1983

DEPARTURE 1 + 50W DIP OF HOLE -45° COMPLETED 4 June 1983

ELEVATION 20'± below shaft collar DIP TESTS DEPTH 168

CLAIM No. L 531754

DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR Triangle Diamond Drill Co. Ltd. Lively, Ontario

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	6	CASING					
6	110.5	TUFF					
		Dark green massive and bedded tuff. Variations as noted.					
		6 - 12 8 Mechanically broken core. 12" fragmented pearly white vein zone - barren.					
		6 - 38.5± 38.5 - 44.5± Generally massive dark green tuff. Faintly hematitic, hard, fine grained "trachytic" Gradational contacts.					
		44.5±- 51 Thinly laminated pale pearly gray tuff and dark green tuff. Random quartz-carbonatee fragments and veinlets. Bedding @ 65°.					
		46.5 - 48.5 Fragmented quartz-carbonate vein zone with sericitic threads. Bedding/foliation @ 65°.					
		51 - 52 Vesicular-like vaguely bedded tuff. Pale gray vesicular-like features in dark green matrix.					
		53± - 75 Thinly bedded tuff. Alternating pale green and dark green tuffaceous beds. Bedding @ 65°±. Local narrow fragmented pearly quartz and pale gray tuff zones up to 3".					
		75 2" zone of finely bedded tuff (tuffite). Followed by 2.5" zone of finely fragmented 1/16 - 1/4" cherty pearly gray and charcoal gray fragments. Bedding @ 65°. Mineralized with very fine pyrite.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
6	110.5	TUFF cont'd					
		25.5 - 78 Alternating series of thin 1/8 - 1/4" conformable siliceous seams with fine pyrite.					
		80.5 12" zone with thin 1/4 - 1/2" laminated and fragmented milk white and pinkish quartz-carbonate veinlets.					
		85 -103 Random very fine grained irregular argillaceous fragments with sparse very fine disseminated veinlets.					
		96 - 97 Intersecting series of pink and milk white carbonate veinlets.					
		106.5 1" Vein zone. Finely fragmented quartz stringer zone @ 78° with fine disseminated pyrite. Fine disseminated pyrite in adjacent tuffs.					
110.5		CONGLOMERATE					
		Vaguely bedded gritty and coarse conglomerate.					
		Various size and type semi angular, unsorted and rounded fragments from 1/8" up to 3".					
		Sharp contact.					
		110.5 1" slump faulted quartz-carbonate stringer at contact with fine disseminated sulphides.					
		149 Fine grained mafic dyke.					
		Noteably magnetic. Sharp contacts @ 55°.					
		166.5 1" milk white and pink stringer zone.					
		Slip contact @ 60°.					
	168	END OF HOLE					
		Casing in hole.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N835-1	@8		1'	.002				
			-2	75.5	78	2.5'	.13 (.13)	Tuffite zone.			
			-3	80.5	81.5	1'	.002				
			-4	96	97	11'	.002				
			-5	106	107	1'	.01	Includes 1" Vein			
			-6	@110.5		.5'	.03	contact veinlet.			
			-7	@166.5		4"					

REGISTERED PROFESSIONAL ENGINEER
MINING
F. P. TAGLIAMONTE
PROVINCE OF ONTARIO

DIAMOND DRILL RECORD

LOGGED BY F.P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township Property, Ontario.

D.D.H. No. N83-6 PAGE 1

LATITUDE 1 + 00S BEARING OF HOLE Az 360° STARTED 5 June 1983

DEPARTURE 1 + 50W DIP OF HOLE -45° COMPLETED 7 June 1983

ELEVATION 38'± below shaft collar DIP TESTS DEPTH 158'

CLAIM No. L 531754

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR Triangle Diamond Drill Co. Ltd. Lively, Ont.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION		SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	9	CASING						
9	64.5	FAULT ZONE?	Murdoch Creek Fault?					
			Fault Breccia.					
			Fractured and fragmented pale green and creamy yellow groundmass.					
			Random irregular fragments and wispy stringer-like milk white quartz-carbonate matrix.					
			Occasional seam of black hard cherty material. Threads of fine seams of sericite and chlorite.					
			Numerous slips generally @ 40°. Some cross fracturing and some parallel to core.					
			Thin platting of gouge along most slips.					
		9 - 25±	Oxidized, stained, and earthy.					
		35 - 46.5	Predominantly dark green but tightly fragmented.					
		46.5 - 64.5	Fault breccia as above.					
64.5	85.5	TUFF Massive						
			Dark green generally massive.					
			Numerous thread-like and fine lenticular milk white carbonate throughout.					
			1/2%+ carbonate.					
		77 - 85.5	Faint purple tainted massive tuff.					
		80	8" zone with irregular seams and threads of pink and milk white carbonate. Sparse very fine pyrite.					
		84.5	10" weakly silicified zone. Sparse fine pyrite.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
85.5	158	TUFF Bedded					
		Dark green thinly bedded tuff.					
		Interbedded thin dark green and pale gray tuff beds.					
		Bedding from 55 - 75°.					
		Local irregular narrow zones of vesicular and fragmented pearly white quartz.					
		93 1" finely fragmented pearly quartz band with slip contacts @ 65°.					
		Numerous slips from 40 - 75° with chloritic faces.					
		101 6" fragmented tuff and pearly white quartz zone with irregular patch of fine granular pyrite.					
		115 1" fine fragmented silicious vein zone with liberally disseminated fine pyrite.					
		Sharp slip contact with slickensides @ 75°+.					
		138 - 144 Bedding from 68 - 70°.					
	158	END OF HOLE					
		Hole broke into 150' level drift.					

REGISTERED PROFESSIONAL ENGINEER
MINING
F. P. TAGLIAMONTE
PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N836-1	@80		8"	Nil				
			-2	@84.5		10"	Nil				
			-3	@101		6"	.02				
			-4	@115		6"	.03				

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

DIAMOND DRILL RECORD

LOGGED BY F.P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township Property, Ontario.

D.D.H. No. N83-6A PAGE 1

LATITUDE 95S BEARING OF HOLE Az 360° STARTED 7 June 1983

DEPARTURE 1 + 50W DIP OF HOLE -45° COMPLETED 8 June 1983

ELEVATION 30'± below shaft collar DIP TESTS 204' - 46° DEPTH 208'

CLAIM No. L 531754

DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR Triangle Diamond Drill Co. Ltd. Lively, Ontario.

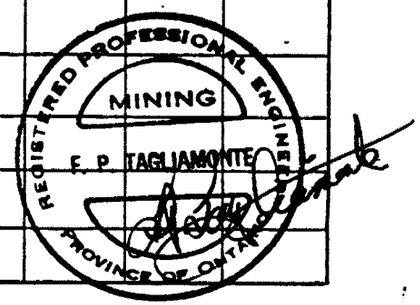
FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	8	CASING					
8	57.5	FAULT ZONE Murdoch Creek Fault?					
		Fault Breccia.					
		Fractured and fragmented pale green and creamy yellow groundmass.					
		Random irregular fragments and wispy stringer-like milk white quartz carbonate matrix.					
		Thin sericitic threads and seams.					
		Locally weakly chloritic.					
		Local semi angular quartzose fragments.					
		Local brown oxide staining.					
		Numerous chloritic coated slips.					
		Gouge along some slips.					
		Slips from 40 - 55°.					
57.5	83	TUFF Dark green massive.					
		Dark green generally massive tuff.					
		Thread like and small lenticular milk white carbonate throughout.					
		1/2% carbonate.					
		Narrow 6-8" micro fragmented siliceous zones.					
83	155	TUFF Bedded					
		Dark green thinly bedded tuff.					
		Dark green tuff groundmass with interbedden fine pale gray tuff beds.					
		Bedding from 60-70°.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
83	155	TUFF Bedded	cont'd					
			Locally cut by networks of pearly white quartzose material.					
		99.5	4" vein zone.					
			Crushed and fragmented pearly white quartz and fine disseminated pyrite.					
		112.5	20" vein zone.					
			6" upper zone of finely fragmented pearly quartz cemented by fine pyrite.					
			6" zone of thinly bedded tuff with a few fine seams of pyrite.					
			3" zone of fragmented irregular pearly quartz and fine pyrite.					
			Remainder of zone thinly bedded tuff.					
		123.6	6" zone of thinly bedded tuff with occasional fine seam of pyrite.					
		142	Finely bedded @ 70°.					
155	208	CONGLOMERATE						
			Unsorted generally sub-angular and semi-rounded fragments of various types and sizes from grit					
			fragments up to 2". Vaguely bedded.					
			Numerous milk white quartz-carbonate seams and veinlets.					
			Variably magnetic throughout.					
			Alternating gritty beds and conglomeritic beds.					
		193	12" mafic dyke - magnetic.					
		203	8" mafic dyke - magnetic. Slip contacts @ 35°.					
		203 - 208	Sparse fine disseminated pyrite in gritty conglomerate.					
	208	END OF HOLE						
			Casing in hole.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au
		SAMPLING AND ASSAYING					
			N836A-1	@99.5		6"	.39 (.38)
			-2	@112.5		20"	.05
			-3	@123.6		6"	.002
			-4	207	208	11	Nil



DIAMOND DRILL RECORD

LOGGED BY F.P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township Property, Ontario.

D.D.H. No. N83-7 PAGE 1

LATITUDE 0 + 50S BEARING OF HOLE Az 360° STARTED 8 June 1983

DEPARTURE 1 + 00W DIP OF HOLE -45° COMPLETED 9 June 1983

ELEVATION 25'± below collar DIP TESTS 206' - 44°, 500' - DEPTH 206'

CLAIM No. L 531754

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LTD. Lively, Ontario.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	8	CASING					
8	19	TUFF Massive					
		Massive dark green tuff. Minor fine milk white quartz-carbonate threads.					
19	103.5	TUFF Bedded					
		Dark green and pearly white thinly bedded tuff. Bedding from 45-65° - generally @ 60°±.					
		Numerous bedding plain slips, low angle slips @ 25°± and high angle slips @ 45°.					
		50.5 20" VEIN ZONE.					
		7" vein zone comprising liberally disseminated pyrite with pearly gray and milk white quartz at approximate center. 60%+ pyrite.					
		Adjacent tuff contains random thin seams of fine pyrite. Sharp contacts to main vein @ 40 @ 65°.					
		41 1" quartz-carbonate veinlet with sparse fine pyrite.					
		66 - 67.5± 50% weakly fragmented and interbedded pearly white quartz and dark green tuff.					
		67+ 2" Vein Zone @ 62°±. Laminated pearly white quartz and green tuff with sparse very fine pyrite.					
		80 - 87 Quartzite tuff. Bedding @ 85°+. 3%+ cross-cutting and conformable fine milk white and pinkish tinted quartz-carbonate threads and veinlets.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
19	103.5	TUFF Bedded					
		87 - 98 Thinly bedded dark green and ash gray tuff. Bedding @ 70°.					
		98 - 100 Possible Vein Zone 1.5'± Vaguely fragmented mixture of beige and pearly white quartz-carbonate and siliceous quartzite material. Sparse very fine disseminated pyrite. Series of chloritic slips @ 60°. Sharp upper contact. Gradational lower contact. Bottom 6" barren thinly bedded tuff.					
		102 1" fragmented beige quartz stringer @ 65° with very fine disseminated pyrite. Sharp contact.					
103.5	206	CONGLOMERATE					
		Alternating beds of fine gritty conglomerate of various width and generally fine unsorted pebble conglomerate with pebbles and fragments of various types. Fragments and pebbles up to 2"+. Locally vaguely bedded @ 45°. Cut by random irregular pinkish and milk white carbonate veinlets and threads - 3%+ carbonate veinlets. Noteably weakly magnetic.					
		156.5 2" 'break'. Recemented pink and oxidized laminated quartz-carbonate. Sharp slip contacts @ 65° with films of chloritic gouge.					
		174 Series of slips @ 15° along 1.5' of core. 25% fault gouge.					
		183.5 6" zone of milk white and pinkish carbonate threads and seams @ 20°±.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
103.5	206	CONGLOMERATE	cont'd					
		178 - 206	Random granitic and porphyritic pebbles up to 3".					
	206	END OF HOLE						
			Casing in hole.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N837-1	50.5	52	1.5'	1.98	(1.95) vein zone			
			-2	@ 41		6"	.02				
			-3	66	67	1.0'	.002				
			-4	67	67.5	.5'	.02				
			-5	67.5	68.5	1.0'	Nil				
			-6	98	100	2.0'	Nil				
			-7	101.5	102.5	1.0'	.02				
			-8	102.5	103	.5'	.002				
			-9	@156.5		.5'	Nil				

DIAMOND DRILL RECORD

LOGGED BY F.P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township Property, Ontario.

D.D.H. No. N83-8A PAGE 1

LATITUDE 0 + 99S BEARING OF HOLE Az 360° STARTED 9 July 1983

DEPARTURE 1 + 00W BEARING OF HOLE -45° COMPLETED 11 July 1983

ELEVATION 38'± below shaft collar DIP TESTS 208' - 44° DEPTH 208'

CLAIM No. L 53174

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LTD. Lively, Ont.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	3	CASING					
3	78±	FAULT ZONE Murdock Creek FAULT?					
		Intensely micro fractured (black intersecting networks cutting core) rock.					
		Heterogeneous and variably in color.					
		Limonitic stained zones and color shades varying from pink to pale green to grey.					
		Pale pinks and pale greens predominate.					
		Shot through with discontinuous veinlets, fragments and intersecting networks of pearly white quartz.					
		Locally chloritic, soft.					
		Appears to be an original sediment and syenite porphyry now fragmented and intermixed.					
		Numerous slips most @ 60°±.					
		Fault merges gradually into tuff.					
78	144.5	TUFF Bedded					
		Predominantly dark green groundmass with interbedded fine and occassionally broad - up to 6" zones of ash grey or pearly gray tuff.					
		Prominantly bedded from 55 - 65°.					
		Interbedded and cross-cutting areas of pearly white quartz-carbonate.					
		Numerous bedding plain slips.					
		98 36" zone of mechanically broken and lost core. 70%± recovery.					
		104.5 9" Vein Zone					
		Series of laminated pearly white quartz stringers with a 2" central zone containing fine seams of fine granular pyrite.					
		Slip contacts: upper @ 45°, lower @ 65°.					

REGISTERED PROFESSIONAL ENGINEER MINING F. P. TAGLIAMONTE PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION		SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
78	144.5	TUFF Bedded	cont'd					
		116± - 144.5	Upper bedded tuff grades into a charcoal grey thinly bedded granular tuff with local beds predominantly quartzite? Bedding generally @ 70°.					
144.5	208	CONGLOMERATE	Gritty					
			Tightly packed fine angular and semi rounded fragments of various lithologies.					
			Local rounded stretched pebbles up to 2". Occassional pebble weakly magnetic.					
			Slips @ 70°.					
		195	Limonitic stained slip @ 30°.					
		196 - 208	Boulder conglomerate. Gritty conglomerate merges into a bouldery conglomerate. Noteably magnetic throughout.					
	208	END OF HOLE						
			Casing in hole.					

REGISTERED PROFESSIONAL ENGINEER
MINING
F. P. TAGLIAMONTE
PROVINCE OF ONTARIO

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N838A-1	104	105	12"	.02				
			-2	105	106	12"	.03	Vein Zone			
			-3	106	107	12"	.02				

REGISTERED PROFESSIONAL ENGINEER
MINING
P. TAGLIAMONTE
PROVINCE OF ONTARIO

DIAMOND DRILL RECORD

LOGGED BY F.P. Tagliamonte, P. Eng.

PROPERTY NORTH KIRKLAND MINES LTD. Lebel Township Property, Ontario.

D.D.H. No. N83-9 PAGE 1

LATITUDE 5 + 65N BEARING OF HOLE Az 342 ° ± STARTED 16 June 1983

DEPARTURE 2 + 45W DIP OF HOLE -34° COMPLETED 9 July 1983

ELEVATION 10'± above shaft collar DIP TESTS 250' - 31°; 500' - 32°; 768' - 31°; 830' - 28° DEPTH 824'

CLAIM No. L 531754

DIRECTION AND DISTANCE FROM NE. CLAIM POST

CORE SIZE BXQ DIAMOND DRILL CONTRACTOR TRIANGLE DRILLING COMPANY LTD. Lively, Ontario.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	8	CASING					
8	126±	GREYWACKE Bedded					
		Pale ash gray. Generally fine granular - gritty.					
		Thinly bedded. Random thin band of pearly gray material.					
		Random thin seams of pale yellow sericite?					
		Numerous fractures - most conformable with bedding.					
		8 - 58 Bedding @ 68°±.					
		Variations as noted.					
		22± 12"± Vein Zone Finely fragmented pearly gray quartz intermixed with sericite, greywacke and disseminated fine pyrite. Foliation and slips @ 60°±.					
		33 3/8" seam of fine granular pyrite @ 60°.					
		50 1/8" barren quartz stringer @ 60°.					
		70 - 74 Broken and oxidized core.					
		85 - 98.5 Sericitic greywacke. Thin pale yellow seams and threads of sericite intermixed with fine seams and threads of pearly white quartz. Random narrow 1/2-1" finely fragmented quartz stringers Foliation @ 65°.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
8	126±	GREYWACKE Bedded cont'd					
		98 1/2" irregular fragmented pearly quartz stringer with fine pyrite.					
126±	208±	GREYWACKE Bedded Conglomeritic					
		Generally as above. Random narrow bands of semi rounded, cherty conglomeritic greywacke. Also isolated random semi rounded fragments in otherwise fine and coarser grained gritty greywacke.					
		118 Bedding generally @ 78°.					
		136 2' zone with series of slips @ 35°±.					
		136 Slip @ 25° with 1/4" of gouge.					
208	217	GREYWACKE Bedded granular					
		Stringer Zone Generally as from 8 - 126.					
		20% series of pearly white quartz stringers and threads from hair-like to 1" throughout @ 60° to core axis.					
		Minor epidote alteration along margin of some stringers.					
217	311	GREYWACKE Bedded granular					
		Pale green generally massive fine granular greywacke. Alteration random bedds of fine granular and granular greywacke.					
		Random 1/8 - 1/2" milk white quartz-carbonate veinlets at all angles to core.					
		.1% quartz-carbonate veinlets. Numerous slip from 45 - 60°.					
		Vaguely bedded @ 70°±.					
		235.5 1/2" quartz-carbonate stringer zone @ 60° Barren.					
		291 1/4" milk white quartz-carbonate stringer @ 65° Barren.					
		293 Bedding @ 70°.					
		296.5 1/4" quartz stringer @ 75° - barren.					
		314.5 1/4" barren quartz stringer zone @ 75°.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
311	378±	GREYWACKE Conglomeritic					
		Pale green granular greywacke groundmass. Random bands, clusters and isolated unsorted semi angular conglomeritic fragments distributed throughout. Rare bright green fuschite-like colored fragments.					
		338 6" milk white quartz-carbonate vein zone @ 75°. Sparse fine disseminated pyrite.					
378±	440.5	GREYWACKE Granular Bedded					
		Pale green granular greywacke. Finely vaguely bedded. Bedding @ 70°. Local narrow 12"± bed of finely conglomeritic material. Random quartz veinlets as noted. Numerous fractures - generally along bedding plains.					
		383.5 1" milk white quartz stringer zone @ 80° along a slip with gouge - barren.					
		385 3/4" milk white quartz vein zone @ 75°. Film of gouge along slip - barren. Thin threads of sericite along margins.					
		390 1"+ stringer. Fragmented milk white quartz-carbonate with fine disseminated pyrite and thin hairlike seams of sericite.					
		408 1/2" stringer @ 75° - barren.					
		421 Foliation and bedding from 55 - 72°.					
		423 1" milk white quartz stringer zone @ 60°. Broken core. Minor fine pyrite.					
		440.5 1"+ stringer with sericitic margins.					
440.5	466.5	GREYWACKE? Fractured Sericitic					
		Tightly fractured greywacke. Pale green and beige colored mixture of weakly silicified sericitic greywacke. Vague intersecting patchy veinlets of milk white quartz-carbonate distributed throughout. Locally mineralized with fine pyrite.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
440.5	466.5	GREYWACKE? Fractured Sericitic cont'd					
		Occasional irregular fragment-like inclusion of dark green and pale green chlorite.					
		Rare occasional flattened rounded cherty fragment up to 1".					
		Gradatipnal upper contact.					
		Sharp slip and gouge at lower contact @ 45°.					
466.5	584.5±	GREYWACKE Conglomeritic					
		Pale green granular groundmass.					
		Random patchy areas up to 1'± with semi rounded unsorted pearly white pebbles up to 3" in diameter.					
		Vaguely bedded @ 65°±.					
		494 - 504.5 Conglomeritic section.					
		Unsorted loosely arranged rounded pearly pebbles from 1/4 - 2" randomly distributed through section.					
		521 - 538 Fracturing - 45°±.					
		Series of slips with muddy gouge from 25 - 45° - most generally @ 45°+.					
		Frequency: from 2 slips / 12" to 1 slip / 14"±.					
		541 12" section with 2 small 1/4 - 1" bright green rounded feuschite? fragments.					
		542 - 544.5 Slightly sheared granular greywacke with 2 separate					
		2" lensey milk white quartz-carbonate zones with very sparse fine pyrite.					
		548 - 551.5 Fine granular greywacke with 2 random irregular					
		1/2"± milk white quartz-carbonate stringer zones plus a few irregular quartz-carbonate threads.					
		553 - 558± Conglomeritic greywacke generally as above.					
		Laced with a series of random milk white quartz-carbonate threads and stringers from 1/16 - 3/4" generally from 80 - 85°.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
466.5	584.5±	GREYWACKE Conglomeritic cont'd					
		558 - 579.5 Mineralized Zone. Sericitic, siliceous, pyritic.					
		558 - 560 Random series of 1/8"± milk white quartz-carbonate veinlets generally @ 85° in granular bedded but slightly sheared greywacke. Fine disseminated pyrite in some stringers and in adjacent greywacke.					
		560 - 579.5 Multiple series of fine 1/8" - 1/2" conformable and cross-cutting milk white quartz-carbonate veinlets from 80 - 85° in granular, weakly sheared, silicified, sericitic greywacke. Liberally mineralized throughout with very fine pyrite both in the stringers and enclosing greywacke. 5%+ disseminated pyrite. Shearing from 70 - 85°.					
584.5±	824	CONGLOMERATE Pebble conglomerate					
		General loosely packed unsorted rounded and stretched pebbles of various sizes and types imbedded in granular greywacke type matrix. Pebbles generally less than 2" in diameter.					
		Occassional pebble up to 6". Occassional fine bright green fuschite fragment. Rare hematitic red jaspelite pebble. Random fracture @ 75°±.					
		587 4" quartz stringer zone. Series of slips @ 80°.					
		601 6" quartz stringer @ 70°. Micro fractured quartz and sericite laced through lower 6" of an overall 12" zone. Very fine disseminated pyrite.					
		619 - 628 Predominantly uniformly fine gritty greywacke. Occassional pebble.					
		638 - 646 As above.					
		646 - 662 Pebble conglomerate - variety of type pebbles. Loosely packed.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
584.5±	824	CONGLOMERATE Pebble conglomerate cont'd					
		662 - 676 Gritty greywacke. Occassional pebble.					
		674 1/4" lensey milk white quartz-carbonate stringer @ 70°. Sparse very fine pyrite.					
		676 - 725 Loosely packed semi rounded, stretched pebbles of various types in gritty greywacke groundmass. Pebbles up to 3" in diameter. Random pebbles of jaspelite.					
		717 1/2" lensely milk white quartz-carbonate stringer @ 70°. Slip contact. Sparse fine grain pyrite.					
		725 - 754± Gritty greywacke. Random pebbles.					
		729.5 1" quartz stringer zone @ 70°. Milk white and grey quartz and carbonate vein fileaments. Fine granular pyrite seams along foliation. Very fine pale yellow sericite threads.					
		730.5 3/4" quartz stringer zone @ 78°± as above.					
		753 24" foliated zone. Prominantly foliated weakly sheared greywacke. Foliation @ 40°. Fine generally conformable sericitic threads. Hard.					
		754 - 824 Pebble cong omerate. Variably tightly packed and loosely packed generally fine 1/4 - 1/2" rounded, unsorted pebbles intermixed with 1 - 2" pebbles of various types. Fine gritty greywacke matrix. Rare, random milk white quartz-carbonate veinlet up to 1/4" - generally @ 58°.					
	824	END OF HOLE Casing in hole.					

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Au				
		SAMPLING AND ASSAYING									
			N839-1	22±	23±	1.0'	.05	vein			
			-2	86±	91±	5.0'	.002				
			-3	210±	217	7.0'	Nil				
			-4	@338		6"	Nil				
			-5	441	446	5.0'	.002				
			-6	@423		6"	Nil	1" qtz.-carb. vein.			
			-7	466	467	1.0'	Nil				
			-6A				Nil				
			1907	542+	544.5	2.5'	Nil				
			1908	548	551.5	3.5'	.002				
			1909	570	573.5	3.5'	.005				
			1910	573.5	578.5	5.0'	.16	(.18)			
			N839-8	578.5	579.5	1.0'	.03	(.02)			
			-9	@587-		1.0'	Nil				
			-10	@601		1.0'	Nil				
			-11	729.5	731	1.5'	Nil				

F.P. Tagliamonte, P.Eng.



42A01NE0083 31 LEBEL

900

assays

Ministry of Natural Resources
Ontario

Report of Work

Liebertup

The Mining Act

Instructions – Supply required data on a seperate form for each type of work to be recorded (see table below).
– For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

(L-531754) #293

Name and Postal Address of Recorded Holder

WILLIAM MARSHALL

Prospector's Licence No.

K 15848

3487 Portage Road, NIAGARA FALLS, Ontario, L2J 2K3

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 2417

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☐ Diamond or other Core drilling
- ☐ Land Survey.

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
[redacted]	531754	50	[redacted]	644480	200	[redacted]	643213	190
[redacted]	512390	17	[redacted]	644481	200	[redacted]	643214	205
[redacted]	644007	200	[redacted]	644488	200	[redacted]		160
[redacted]	644008	200	[redacted]	644489	200	[redacted]		
[redacted]	644478	200	[redacted]	643183	200	[redacted]		
[redacted]	644479	200	[redacted]	643187	200	[redacted]		

All the work was performed on Mining Claim(s): L-531754; 512390

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

See Plans & logs attached.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
OCT 11 1983
RECEIVED

LARDER LAKE
MINING DIV.
RECEIVED
SEP 28 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

RECORDED SEP 28 1983
REC. No.

Date of Report	Recorded Holder or Agent (Signature)
28 September 1983	Frank P. Taglamonte, P.Eng.

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

FRANK P. TAGLIAMONTE, P.ENG.

29 Beaver Cres., North Bay, Ont. P1A 3W4

Date Certified	Certified by (Signature)
28 September 1983	Frank P. Taglamonte, P.Eng.

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core	Signed core log showing: footage, diameter of		Work Sketch (re

CONTINENTAL KIRKLAND MINES

I.P.

NORTH "VEIN" STRUCTURE AREA

HIGHWAY 66

GIROUX "VEIN" AREA

L 5 1 2 3 9 0

L 5 3 1 7 5 4

ROAD

450' Level

NORTHERN PROPERTY

Buildings

SHAFT VEIN AREA

SHAFT

150' Level

Jump

GULL LAKE

L 6 4 4 0 0 7

L 6 4 4 0 0 8

N

NORTH KIRKLAND MINES LTD.

LEBEL TOWNSHIP PROPERTY

DDH PLAN

SCALE: 1" = 100'

Date: September 1983

Geological Engineering Services
North Bay , Ontario

REGISTERED PROFESSIONAL ENGINEER
MINING
E. P. TAGLIAMONTE
PROVINCE OF ONTARIO
83/9/8/83

42A01NE0083 31 LEBEL

200