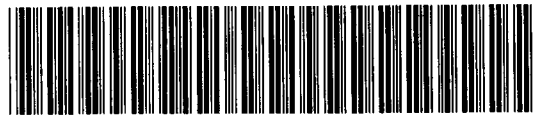


42A07NE0027 2.17424 BOND

2.17424

010

Date: 23 May, 1997

- ROBERT DUESS GEOLOGICAL SERVICES LTD. -

DRILL HOLE RECORD

Drill Hole: B-97-8

Northing:	-2900
Easting:	-924
Elevation:	1000
Collar Azi.:	7
Collar Dip:	-46
Hole Length:	237.0

*** Dip Tests ***

Depth	Azi.	Dip
53	7	-46
104	7	-46
155	10	-44
237	13	-39

Claim:	P-1218962
Township:	Bond
Property Name:	Bond
Core Size:	BQ
Stored at:	Timmins
Drilled by:	Norex Drilling Ltd.
Logged by:	Stefanie Schwerdtfeger

Date Started:	April 23,1997
Date Finished:	April 26, 1997
Date Logged:	May 12-15 ,1997
Field Co-ords:	2900S/924W Bond 175N/ 50E Sheraton (new Unigold)
Purpose:	to test broad I.P. anomaly and an EM conductor.

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
.00	28.70	OVERBURDEN							
28.70	62.95	DIABASE DIKE Dark green. Medium to coarse grained, moderately chloritized diabase dike. Magnetic. Saussuritized feldspar crystals. Generally blocky core due to chlorite lined fractures at 23 degrees, 31 degrees and 45 degrees. 1-2% pyrite, finely disseminated or as small blebs. Minor k-spar alteration in veins. Minor epidote veins. 55.70 62.95 Fine to medium grained diabase with 3% calcite veins and stringers.							

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
62.95	74.65	SILICIFIED ZONE CRYSTAL TUFF	241011	71.00	72.50	1.5			
		Dark grey to black. Pervasively silicified, intermediate feldspar crystal tuff; crystals average 1mm and are locally eyeshaped; matrix is aphanitic; minor well overprinted lapilli fragments (averaging 1cm). Blocky core due to fracture (at 70.5-71.0 three main fracture sets are at 50, 56 and 32 degrees to core axis). 1% pyrite, finely disseminated or in veins. 1% quartz calcite veinlets +/- chlorite.							
		72.50 F1=47 degrees to core axis.							
74.65	78.25	SILICIFIED ZONE FELSIC FRAGMENTAL	241012	74.65	75.50	.8			
		Banded buff, light to medium grey. Moderately silicified rhyolite fragmental; 60% buff coloured, elongated clasts ranging from 1.5cm to larger than core diameter (+/-10cm). Well sheared unit. Magnetic. 1-2% patchy pyrrhotite, up to 5% fine to medium grained disseminated pyrite; +/- dark green chlorite. Minor blocky core.	241013	75.50	76.50	1.0			
			241014	76.50	77.50	1.0			
		77.00 F1=49 degrees to core axis.	241015	77.50	78.25	.8			
78.25	82.75	SULFIDES GRAPHITIC HORIZON							
		78.25 79.60 Weakly to moderately silicified rhyolite fragmental intercalated with graphitic							

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		bands 40% buff rhyolite fragments generally exceeding core diameter; minor minute quartz filled fractures. Numerous bands of disseminated or semi-massive pyrite +/- magnetic pyrrhotite patches.							
		78.25 79.00 Minor pyrrhotite patches.	241016	78.25	79.00	.8			
			241017	79.00	80.00	1.0			
		79.50 F1=42 degrees to core axis.							
		79.60 82.75 Sulfides 90% botryoidal pyrite with 5-10% quartz calcite sweats in fractures. Also containing graphitic slivers and patches. Recrystallized fine to medium grained pyrite lines graphitic patches and quartz calcite.							
		80.00 81.00 95% pyrite.	241018	80.00	81.00	1.0			
		81.00 82.00 90% pyrite. 10cm quartz calcite vein at 32 degrees to core axis with fine grained black siliceous stringers; 3% pyrite.	241019	81.00	82.00	1.0			
		82.00 82.75 95% pyrite.	241020	82.00	82.75	.8			
82.75	86.55	GRAPHITIC HORIZON SULFIDES							
		Black with several sulfide bands and patches. Moderately silicified graphitic horizon with 20% pyrite/pyrrhotite zones. 5-10% quartz and quartz calcite veins and stringers, generally along foliation and a quartz calcite matrix. Magnetic pyrrhotite occurs as medium to large patches with bands and patches of pyrite; the ratio is 1 to 10,							

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		respectively.							
		82.75 84.00 5-10% pyrite/pyrrhotite.	241021	82.75	84.00	1.3			
		84.00 84.75 5-10% pyrite/pyrrhotite.	241022	84.00	84.75	.8			
		84.75 85.50 5% pyrite/pyrrhotite.	241023	84.75	85.50	.8			
		85.00 85.20 Greyish white irregular quartz calcite veins with green tint. Pyrrhotite and pyrite at contacts.							
		85.50 F1=49 degrees to core axis.							
		85.50 86.55 55cm semi-massive botryoidal pyrite.	241024	85.50	86.55	1.1			
86.55	97.40	SILICIFIED ZONE INTERMEDIATE TO FELSIC LAPILLI TUFF							
		Medium to dark grey. Moderately to pervasively silicified, weakly chloritized felsic to intermediate lapilli tuff; local moderately sericitized bands; local sections are clast supported, mainly rhyolitic and minor cherty clasts. 3% quartz calcite veins and patches. Generally <1-2% finely disseminated pyrite/pyrrhotite, also filling hairline fractures.							
		86.55 87.50 60% lapilli fragments. 5% pyrite/pyrrhotite, as bands between fragments and disseminate.	241025	86.55	87.50	.9			
		87.50 F1=45 degrees to core axis.							
		87.50 88.50 3% pyrite/pyrrhotite.	241026	87.50	88.50	1.0			
		88.50 89.50 1-2% pyrite/pyrrhotite, trace chalcopyrite.	241027	88.50	89.50	1.0			
			241028	89.50	91.00	1.5			
		91.00 92.40 1-2% pyrite, minor pyrrhotite, trace	241029	91.00	92.40	1.4			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		chalcopyrite. 35cm moderately sericitized zone. 15cm wide, extremely fractured, pinkish green crystal tuff fragment? with quartz calcite chlorite filled fractures.							
		92.40 94.55 Dark grey to black. Lapilli tuff is overprinted by up to 5% hornblende crystal averaging 1mm or less. Chlorite on fracture surfaces.							
		92.40 93.60 <1% disseminated pyrite.	241030	92.40	93.60	1.2			
		93.60 95.00 <1% disseminated pyrite.	241031	93.60	95.00	1.4			
		95.00 96.10 <1% disseminated pyrite/pyrrhotite.	241032	95.00	96.10	1.1			
		95.35 97.40 Moderately blocky core with minor rubble due to fractures. Two main fracture sets are at 8 degrees and at 34 degrees to core axis. Zone is also more sericitized.							
		96.10 97.40 35cm sericitized zone with silica influx. 10cm wide siliceous band with 30% fine pyrite.	241033	96.10	97.40	1.3			
97.40	98.85	MAFIC INTRUSIVE ROCK	241034	97.40	98.85	1.4			
		Dark grey green. Fine to medium grained moderately chloritized and carbonatized mafic intrusive (gabbro?). Massive unit. Non-magnetic. <1% finely disseminated pyrite. 1-2% quartz calcite fractures. Sharp upper contact is at 30 degrees to core axis, lower contact is irregular.							
98.85	129.10	INTERMEDIATE TUFF	241035	98.85	99.50	.7			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		Medium to dark grey. Moderately silicified, weakly to moderately chloritized intermediate tuff; lapilli fragments? are well overprinted and stretched out, could possibly be patchy alteration. 2-3% pyrite, finely disseminated or as sheared patches +/- dark green chlorite; minor pyrrhotite wisps. 5-10% quartz calcite fractures and veins.							
		99.50 101.00 10cm band containing 50% fine to medium grained pyrite in quartz calcite matrix.	241036	99.50	101.00	1.5			
		101.00 102.50 30cm zone with two quartz carbonate chlorite vein (3% pyrite) zones with pinkish silicified alteration halo.	241037	101.00	102.50	1.5			
			241038	102.50	104.00	1.5			
		104.00 114.00 Weakly to moderately blocky core due to fractures. Main fracture sets are at 29 and 42 degrees to core axis.	241039	104.00	105.50	1.5			
			241040	105.50	107.00	1.5			
			241041	107.00	108.50	1.5			
			241042	108.50	110.00	1.5			
			241043	110.00	111.50	1.5			
			241044	111.50	113.00	1.5			
			241045	113.00	114.50	1.5			
		114.50 129.10 Matrix is weakly to moderately calcified.	241046	114.50	116.00	1.5			
		115.50 129.10 Locally moderately to strongly blocky core due to fractures.	241047	116.00	117.50	1.5			
		117.50 F1=36 degrees to core axis.	241048	117.50	119.00	1.5			
			241049	119.00	120.50	1.5			
		119.15 119.85 Moderately sericitized. 10% pyrite stringers with dark green chlorite.							

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		120.50 122.00 Minor chalcopyrite in quartz calcite veins and sweats.	241050	120.50	122.00	1.5			
			241051	122.00	123.50	1.5			
			241052	123.50	125.00	1.5			
		125.00 126.50 Two 2mm wide dark green chlorite filled fracture at 17 degrees to core axis, minor pyrite. 5% pyrite stringers generally with dark green chlorite envelop.	241053	125.00	126.50	1.5			
		126.50 128.00 Minor pyrrhotite blebs. 20cm with quartz calcite chlorite veins and sericite alteration halo, 5-10% fine to medium grained pyrite with dark green chlorite envelop.	241054	126.50	128.00	1.5			
		128.00 F1=45 degrees to core axis.	241055	128.00	129.10	1.1			
129.10	181.40	SILICIFIED ZONE CRYSTAL TUFF FAULT ZONE							
		Mottled buff and grey (mottling may be due to patchy albitization). Moderately silicified, weakly chloritized felsic to intermediate porphyritic tuff. 30% quartz and feldspar phenocrysts average <2-3mm (sharp or poorly distinct). Locally weakly sericitized bands. Possible minor well overprinted and sheared rhyolitic fragements. Weakly to moderately blocky and locally rubble core due to fractures. Chlorite in fractures. 2-3% smokey grey to white or bluish grey (molybdenite or galena bearing) quartz and quartz calcite veins (<1cm wide). 3-5% pyrite, disseminated and as blebs; <1% pyrrhotite as semi-massive patches. Some veins contain fine to medium grained black tourmaline needles.							

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		129.10 130.00 10cm siliceous band with 40% blueish quartz eyes and blebs. Numerous sericite stringers. Minor pyrite and pyrrhotite.	241056	129.10	130.00	.9			
			241057	130.00	131.00	1.0			
			241058	131.00	132.50	1.5			
			241059	132.50	134.00	1.5			
		133.00 Two main fracture zones at 37 and 35 degrees to core axis in opposite sense.							
		134.00 F1=46 degrees to core axis.	241060	134.00	135.50	1.5			
			241061	135.50	137.00	1.5			
			241062	137.00	138.50	1.5			
			241063	138.50	140.00	1.5			
			241064	140.00	141.50	1.5			
			241065	141.50	143.00	1.5			
		143.00 F1=40 degrees to core axis.	241066	143.00	144.50	1.5			
		144.50 145.00 <1mm sphalerite calcite filled fracture.	241067	144.50	145.00	.5			
			241068	145.50	146.50	1.0			
		146.50 147.50 Semi-massive red sphalerite in veins at 10 degrees to core axis, also disseminated. Galena veneer on fracture surfaces. 10cm zone with 50% quartz veins; galena and sphalerite in adjacent fractures.	241069	146.50	147.50	1.0			
			241070	147.50	148.50	1.0			
		148.50 149.50 25cm zone with <1% red to honey coloured sphalerite, disseminated and filling hairline fractures +/- galena. Galena mainly on fracture surfaces with chlorite.	241071	148.50	149.50	1.0			
		149.50 150.50 1cm wide quartz vein at 67 degrees to core axis containing 1-2% red to honey coloured sphalerite specks, minor	241072	149.50	150.50	1.0			
			241073	150.50	152.00	1.5			
			241074	152.00	153.50	1.5			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		galena.	241075	153.50	155.00	1.5			
			241076	155.00	156.50	1.5			
		156.50 F1=47 degrees to core axis.	241077	156.50	158.00	1.5			
		158.00 159.50 Robbin egg coloured 2mm quartz eye.	241078	158.00	159.50	1.5			
			241079	159.50	161.00	1.5			
			241080	161.00	162.50	1.5			
			241081	162.50	164.00	1.5			
		163.70 164.30 2-5mm chloritic and white cream coloured laminae.							
		164.00 165.50 10cm zone containing several irregular bluish quartz veins with 2-3% pyrrhotite, chalcopyrite and pyrite. Blue tint due to molybdenite?.	241082	164.00	165.50	1.5			
			241083	165.55	167.00	1.4			
			241084	167.00	168.50	1.5			
		167.90 168.00 Sample for whole rock.							
		168.50 F1=56 degrees to core axis.							
		168.50 170.00 2.5cm quartz chlorite vein at 32 degrees to core axis, trace sulfide.	241085	168.50	170.00	1.5			
			241086	170.00	171.50	1.5			
			241087	171.50	173.00	1.5			
		172.20 172.30 Sample for thin section. What is buff coloured alteration?.							
		173.00 174.50 1-2cm quartz calcite vein at 20 degrees to core axis containing 5% pyrrhotite and minor chalcopyrite. Section has light greenish grey alteration.	241088	173.00	174.50	1.5			
		174.50 176.00 1% pyrrhotite as small blebs, 1% disseminated pyrite.	241089	174.50	176.00	1.5			
		176.00 177.50 Locally up to 3% pyrrhotite and pyrite	241090	176.00	177.50	1.5			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		with minor chalcopyrite in chloritic fractures.							
		177.50 179.00 15cm section with albitized? subangular rhyolitic fragments up to 5cm.	241091	177.50	179.00	1.5			
			241092	179.00	180.25	1.3			
		180.25 181.40 1cm with light greenish calcite vein.	241093	180.25	181.40	1.1			
181.40	190.75	SILICIFIED ZONE INTERMEDIATE TUFF INTERMEDIATE TO FELSIC LAPILLI TUFF							
		Medium to dark grey and black. Moderately to pervasively silicified, weakly chloritized, sheared intermediate tuff mixed with intermediate to felsic lapilli tuff. Minor albitized? patches. Fine grained intermediate tuff locally contains up to 7% black tabular crystals averaging <1mm in size. 3% quartz calcite fractures +/- chalcopyrite blebs; fracture surfaces are also lined with chlorite; consistent calcite filled fractures are at 16 and 49 degrees to core axis. Generally minor blocky core. 1-2% pyrrhotite, disseminated as blebs or semi-massive in veins. Trace pyrite as veneer on fracture surfaces.							
		181.40 182.00 Blocky and rubble core due to fractures.	241094	181.40	182.40	1.0			
		182.40 183.10 40% elongated felsic lapilli fragments averaging 2-3cm; overprinted matrix and fragments with small black crystals.	241095	182.40	183.10	.7			
			241096	183.10	184.00	.9			
		184.00 185.00 5cm section with 2% red disseminated sphalerite specks.	241097	184.00	185.00	1.0			
			241098	185.00	186.00	1.0			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		186.00 187.00 2-3% pyrrhotite blebs.	241099	186.00	187.00	1.0			
		186.50 F1=59 degrees to core axis.							
		187.00 188.00 20cm zone with with 5% semi-massive pyrrhotite veins in a dark siliceous and calcareous matrix.	241100	187.00	188.00	1.0			
			241101	188.00	189.00	1.0			
			241102	189.00	190.00	1.0			
		190.00 190.75 Mottled due to alteration? or lapilli fragments? the last 30cm are ash grain size in composition.	241103	190.00	190.75	.8			
190.75	193.80	SULFIDES ARGILLITE							
			241104	190.75	191.50	.8			
		85% Botryoidal and fractured pyrite with 5% quartz calcite sweats and veinlets. Trace pyrrhotite. Local small black crystals in semi-massive pyrite. 10% graphitic slips, also minor graphitic argillite. Trace k-spar alteration.	241105	191.50	192.50	1.0			
			241106	192.50	193.25	.8			
		193.25 193.80 Graphitic argillite with 5% pyrrhotite and pyrite bands.	241107	193.25	193.80	.6			
		193.50 S0=55 degrees to core axis, fissile core.							
193.80	196.50	EXHALITE							
			241108	193.80	194.50	.7			
		Medium to dark grey with local green tint, somewhat mottled appearance. Moderately carbonatized, well overprinted exhalite?, local weak crenulated bedding, weakly folded at 195.5m with fold axial trace at 77 degrees to core axis, generally bedding is at 45 degrees to core axis. Minor weakly chloritized patches. 5% irregular quartz calcite	241109	194.50	195.50	1.0			
			241110	195.50	196.50	1.0			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		fractures and veins. 5% pyrrhotite and pyrite, finely disseminated and as semi-massive bands and patches, locally associated with deep red sphalerite.							
196.50	197.10	PYRRHOTITE 95% Pyrrhotite with 3% calcite sweats, minor sericitized volcanic fragment. Trace sphalerite.	241111	196.50	197.10	.6			
197.10	201.45	EXHALITE FELSIC FRAGMENTAL PYRRHOTITE Banded buff, dark green and greenish grey. Well sheared, moderately to pervasively silicified exhalite and felsic fragmental with 20% albitized and 10% chloritized sections. Numerous (15%) pyrrhotite and pyrite bands up to 15cm wide mineralized bands, also fine to coarse grained pyrite in veinlets and disseminated, +/- dark green chlorite. Chlorite also occurs in stringers. Rhyolite lapilli fragments are very indistinct with numerous 1-2mm quartz eyes. 198.20 198.40 Folded section, off-set along fracture at 43 degrees to core axis. 198.50 F1=69 degrees to core axis. 199.40 199.65 75% pyrrhotite and pyrite with calcite and minor chlorite. Pyrite is fine to very coarse grained.	241112	197.10	198.00	.9			
			241113	198.00	199.00	1.0			
			244114	199.00	199.80	.8			
			241115	199.80	200.60	.8			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		199.95 200.05 Semi-massive pyrrhotite with quartz calcite filling interstices.	241116	200.60	201.45	.8			
201.45	205.10	SILICIFIED ZONE SERICITIZED EXHALITE PYRRHOTITE SPHALERITE Mottled greyish and light to dark green. Moderately to pervasively silicified, moderately sericitized, weakly to moderately chloritized cherty exhalite? 20-25% quartz calcite blobs and veins. Rock is well overprinted. 15% semi-massive pyrrhotite/pyrite bands and also disseminated as fine grains and small blebs. Locally up to 7% red sphalerite along fractures and disseminated, trace galena.							
		201.45 201.80 80% semi-massive pyrrhotite/pyrite (ratio 1:1).	241117 241118	201.45 202.30	202.30 203.00	.9 .7			
		202.35 202.80 95% semi-massive pyrrhotite/pyrite (ratio 1:1) with several up to 1.5cm red shpalerite veins at 15 degrees to core axis.	241119	203.00	203.65	.6			
		203.10 203.25 5-7% red sphalerite with trace galena in veins and disseminated.							
		203.65 203.70 2cm semi-massive pyrrhotite band at 40 degrees to core axis.	241120	203.65	204.50	.9			
		203.70 205.10 Moderately to strongly sericitized. 5-10% disseminated pyrrhotite and pyrite blebs, blebs are elongated up							

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		to 3cm.							
		204.50 F1=48 degrees to core axis.	241121	204.50	205.10	.6			
205.10	207.40	FAULT ZONE ARGILLITE GRAPHITIC HORIZON							
		Blocky rubble faultzone in graphitic argillite. 5% grey siliceous wisps along argillite bedding planes. 3-5% wispy pyrite patches. Minor sphalerite in fracture. 2cm greyish white barren quartz vein at 207.1m with 10cm sericitized cherty band.							
		205.10 205.90 Several up to 2cm siliceous nodules containing pyrrhotite.	241122	205.10	206.00	.9			
		205.45 205.90 Moderately to pervasively sericitized tuffaceous metasedimentary unit containg a 5cm quartz calcite vein. Trace sphalerite.							
		206.00 S0=53 degrees to core axis.	241123	206.00	207.40	1.4			
207.40	212.10	ARGILLITE GRAPHITIC HORIZON							
			241124	207.40	208.50	1.1			
		Black with several medium grey bands. Graphitic argillite intercalated with moderately sericitized, well overprinted, fine grained tuffaceous metasedimentary? exhalite? sections. 10% quartz and quartz calcite veins also as bed replacement in argillite. 5% pyrite, fracture filling or as blebs. 1% finely disseminated pyrrhotite; pyrite and							

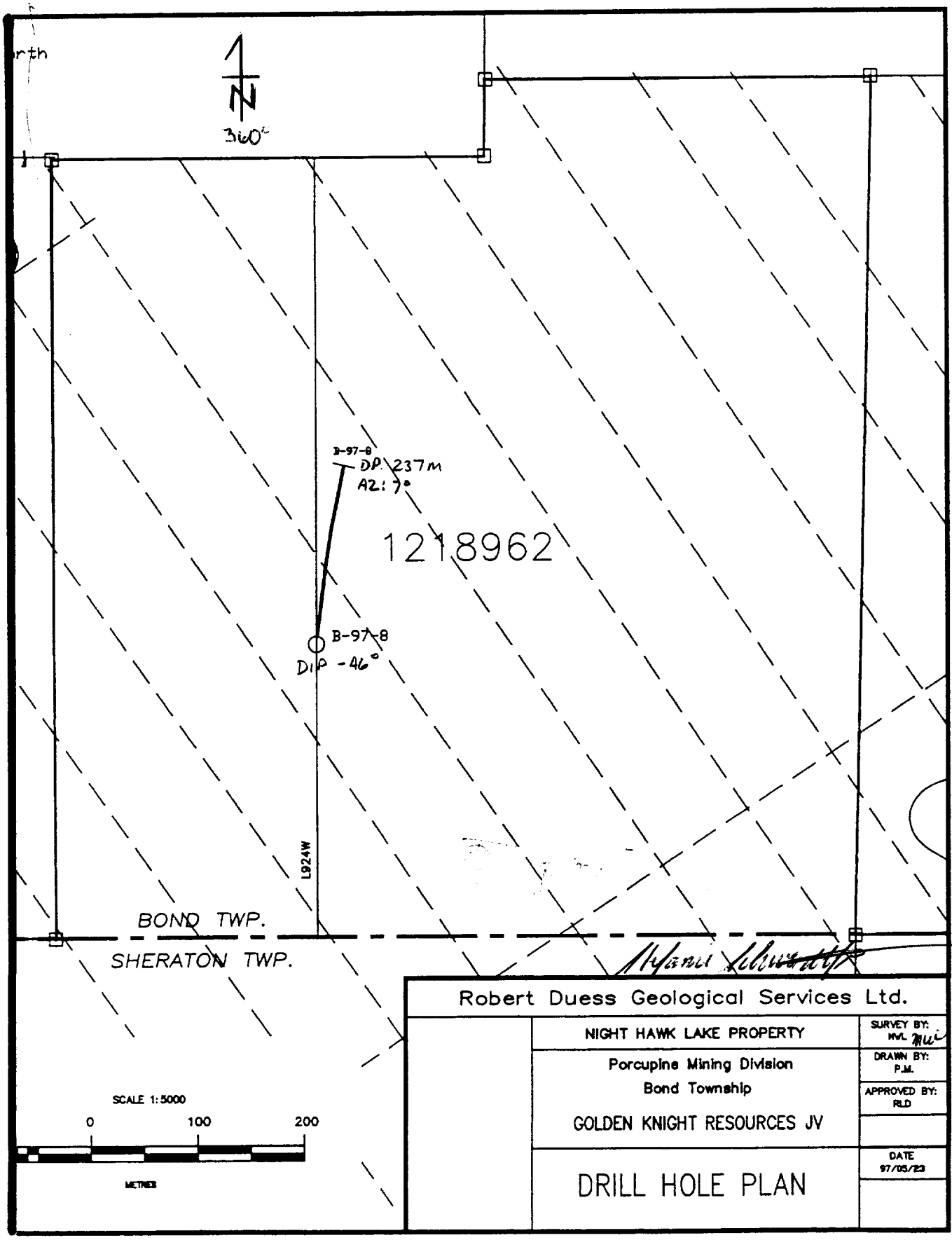
From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		pyrrhotite also occur in siliceous nodules. Weakly fissile.							
		208.50 S0=50 degrees to core axis.	241125	208.50	209.50	1.0			
			241126	209.50	210.50	1.0			
			241127	210.50	211.50	1.0			
		211.30 212.10 Several folded sections of argillite with fold axial trace at 47-58 degrees to core axis.	241128	211.50	212.10	.6			
212.10	228.45	TUFFACEOUS METASEDIMENTS CHERT							
		Banded and patchy medium to dark grey locally with buff tint and minor black. Fine to medium grained tuffaceous and cherty metasediments, minor argillaceous sediments; local sericitized patches. Rock is mottled with 10% quartz calcite veins and fractures. Numerous red sphalerite bearing veins and fractures. Frequently bedding planes are weakly folded. 3% pyrite, finely disseminated or in siliceous veinlets. Minor pyrrhotite blebs. Several sections of rubble and blocky core.							
		212.10 213.00 Several <1-2mm quartz calcite veins at 20 degrees to core axis with semi-massive sphalerite.	241129	212.10	213.00	.9			
		213.00 S0=36 degrees to core axis.							
		213.00 214.00 Numerous sphalerite veinlets. Sphalerite is also finely disseminated. 10cm quartz calcite band	241130	213.00	214.00	1.0			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		with buff cherty bands and 5% disseminated fine sphalerite blebs.							
214.00	215.00	10% quartz calcite patches with minor sphalerite and 1-2% pyrite and pyrrhotite.	241131	214.00	215.00	1.0			
215.00	216.00	Several irregular veinlets filled with semi-massive red to honey coloured sphalerite, minor galena at 215.3-215.5m; sphalerite is also finely disseminated.	241132	215.00	216.00	1.0			
216.00	217.00	3mm quartz calcite vein at 45 degrees to core axis containing 3% red sphalerite, minor galena, chalcopyrite, pyrrhotite and 1% pyrite at 216.05m; finely disseminated sphalerite in alteration halo. Graphitic argillite at 216.55-216.9m.	241133	216.00	217.00	1.0			
216.50		S0=55 degrees to core axis.							
217.00	218.00	20cm donut fold section containing 3-5% patchy pyrrhotite.	241134	217.00	218.00	1.0			
218.00	219.00	Several sphalerite filled hairline fractures and veinlets with minor galena at 218.3-218.45m.	241135	218.00	219.00	1.0			
			241136	219.00	220.00	1.0			
219.40	219.45	Sample for whole rock.							
220.00		F1=49 degrees to core axis; weak foliation.							
220.00	221.00	Minor finely disseminated pyrite. 10cm of core with weak crenulated bedding planes subparallel to core axis. Minor 1mm wide quartz calcite vein at 40	241137	220.00	221.00	1.0			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		degrees to core axis containing 5% sphalerite.							
220.15	220.40	90% quartz calcite vein with 5% light green sericitic patches and minor pyrrhotite in secondary fractures.							
221.00	222.00	Mainly silicified and cherty rock. Several up to 20cm wide sections with minor quartz calcite veins and fractures containing 1-2% red sphalerite and trace chalcopyrite.	241138	221.00	222.00	1.0			
222.00	223.00	Several sphalerite bearing, irregular quartz calcite veins and fractures with local minor chalcopyrite. Main quartz calcite veins are perpendicular to core axis.	241139	222.00	223.00	1.0			
223.00	224.00	Chlorite filled fracture at 30 degrees to core axis with pyrite veneer. Well preserved bedding planes at 20 degrees to core axis over a 10cm area, beds are 1-10mm thick.	241140	223.00	224.00	1.0			
224.00	225.00	Several 1-5cm quartz calcite veins are perpendicular to core axis, trace pyrite. 10cm quartz calcite veinlets in net pattern.	241141	224.00	225.00	1.0			
225.00		S0=32 degrees to core axis.							
225.00	226.00	2mm-5cm wide beds at 26 degrees to core axis.	241142	225.00	226.00	1.0			
226.00	227.00	20cm quartz calcite flooded section. Several up to 3cm quartz calcite veins with green tint and trace pyrite and pyrrhotite.	241143	226.00	227.00	1.0			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
		227.00 228.45 2% pyrite mainly as small blebs and in veins. Trace pyrrhotite.	241144	227.00	228.45	1.4			
228.45	232.90	ARGILLITE							
			241145	228.45	230.00	1.6			
		Black with minor dark grey sections. Graphitic argillite intercalated with minor sections of siltstone. 3% quartz calcite veins and fractures; fractures locally contain pyrrhotite, chalcopyrite, pyrite and trace sphalerite. Graded bedding with tops uphole.							
		228.50 S0=56 degrees to core axis.	241146	230.00	231.50	1.5			
			241147	231.50	232.90	1.4			
		232.00 232.50 Two main fractures are at 45 and 60 degrees to core axis.							
232.90	233.95	FELSIC DIKE							
			241148	232.90	233.95	1.1			
		Medium grey with green tint. Moderately calcified, weakly to moderately chloritized, fine grained felsic dike? greywacke?; 60% quartz and feldspar matrix? 10% fine to medium grained pyrite. 5% irregular calcite veinlets and fractures. Massive unit.							
233.95	237.00	FAULT ZONE ARGILLITE							
			241149	233.95	235.50	1.6			
		Similar to 228.45-232.9m unit above except that the core is blocky with 40% rubble.	241150	235.50	236.90	1.4			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	CU PPM	ZN PPM	AU PPB
	236.50	S0=56 degrees to core axis, moderately fissile along this plane.							
	237.00	End of hole. Sample sequence 241011-241150.							



Robert Duess Geological Services Ltd.

NIGHT HAWK LAKE PROPERTY

Porcupine Mining Division

Bond Township

GOLDEN KNIGHT RESOURCES JV

DRILL HOLE PLAN

SURVEY BY: NWL

DRAWN BY: P.M.

APPROVED BY: RLD

DATE 97/05/23

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use): W.9760.00137
Assessment Files Research Imaging

Personal information collected c
Mining Act, the information is a p
Questions about this collectio
933 Ramsey Lake Road, Sudbu

42A07NE0027 2.17424 BOND

the Mining Act. Under section 8 of the
correspond with the mining land holder.
Development and Mines, 6th Floor,

900

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

2.17424

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

Name: CROSS LAKE MINERALS LTD.	Client Number: 122562
Address: 1018-475 HOWE STREET	Telephone Number: 604-688-5448
VANCOUVER, B.C. V6C 2B3	Fax Number:
Name:	Client Number:
Address:	Telephone Number:
	Fax Number:

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

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

Work Type: DIAMOND DRILLING	Office Use
	Commodity
	Total $ Value of Work Claimed: $12,875.00
Dates Work Performed From: 12 Day / 04 Month / 97 Year To: 30 Day / 04 Month / 97 Year	NTS Reference
Global Positioning System Data (if available) Township/Area: BOND TWP./~~Shenston~~	Mining Division: PORCUPINE
M or G-Plan Number: G-3929 / G-3971	Resident Geologist District: TIMMINS

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

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

Name: STEFANIE SCHWERDFEGER	Telephone Number: 705-360-1050
Address: #307-630 LONERGAN BLVD. TIMMINS P4P 1H3	Fax Number:
Name:	Telephone Number:
Address:	Fax Number:
Name:	Telephone Number:
Address:	Fax Number:

RECEIVED
JUN 2 3 1997
MINING LANDS BRANCH

RECEIVED (c)
JUN 5 1997
TB 1:20
PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent: Bob Bailey		Date: June 5/97
Agent's Address	Telephone Number: 705-268-9686	Fax Number: 705-360-5866

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	**Number of Claim Units.** For other mining land, list hectares.	**Value of work performed** on this claim or other mining land.	**Value of work applied** to this claim.	**Value of work assigned** to other mining claims.	**Bank.** Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	P-1207094	4		1600		
2	P-1207096	4		1600		
3	P-1213703	6		2400		
4	P-1218962	4	#12,875	1600	8000	#3,275
5	P-1219601	4		1600		
6	P-1219602	2		800		
7						
8						
9						
10						
11						
12						
13						
14						
15						
		Column Totals	12,875	#9,600	#8000	#3275

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

Signature of Recorded Holder or Agent Authorized in Writing: Bob Bailey — Date: June 5/97.

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

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

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

RECEIVED JUN 2 ? '97

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

For Office Use Only

Received Stamp: RECEIVED (C) JUN 5 1997

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

Ontario

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

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

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND DRILLING			$11,275
GEOLOGIST, CORE			$1,600
LOGGING, SPLITTING			
REPORT PREPARATION.			
Associated Costs (e.g. supplies, mobilization and demobilization).			
		2.1725	
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	$12,875

Calculations of Filing Discounts:

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

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

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

RECEIVED JUN 2 3 1997 BRANCH

RECEIVED (c) JUN 5 1997 TR Rosc 120

Certification verifying costs:

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

Signature [signature] Date [illegible]

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

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

August 25, 1997

CROSS LAKE MINERALS LTD.
210-800 WEST PENDER ST.
VANCOUVER, B.C.
V6C-2V6

Dear Sir or Madam:

Submission Number: 2.17424

		Status
Subject: Transaction Number(s):	W9760.00137	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,

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

Correspondence ID: 11251
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17424

Date Correspondence Sent: August 25, 1997 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00137	1218962	BOND	Deemed Approval	August 22, 1997

Section:
16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

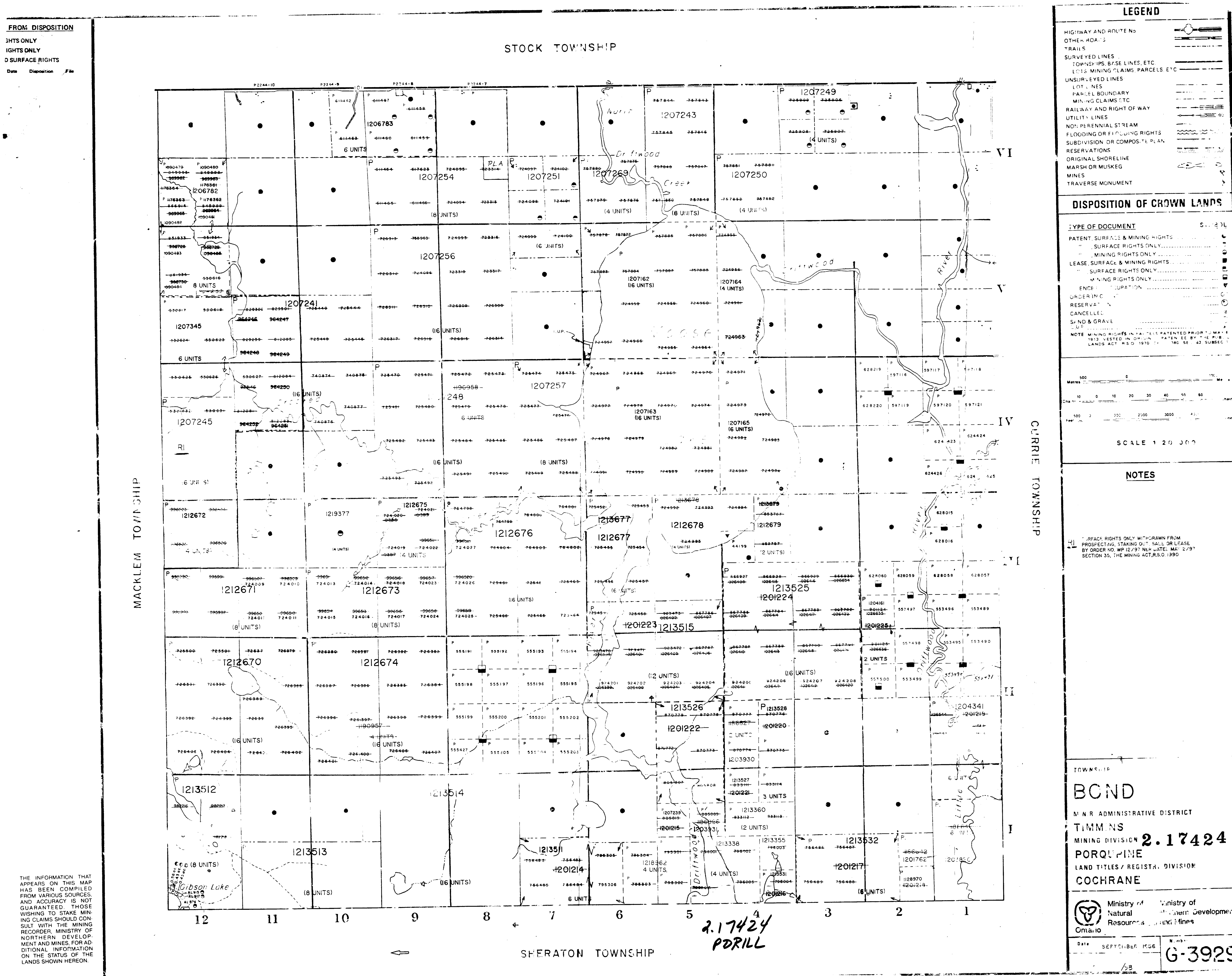
Assessment Files Library
Sudbury, ON

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

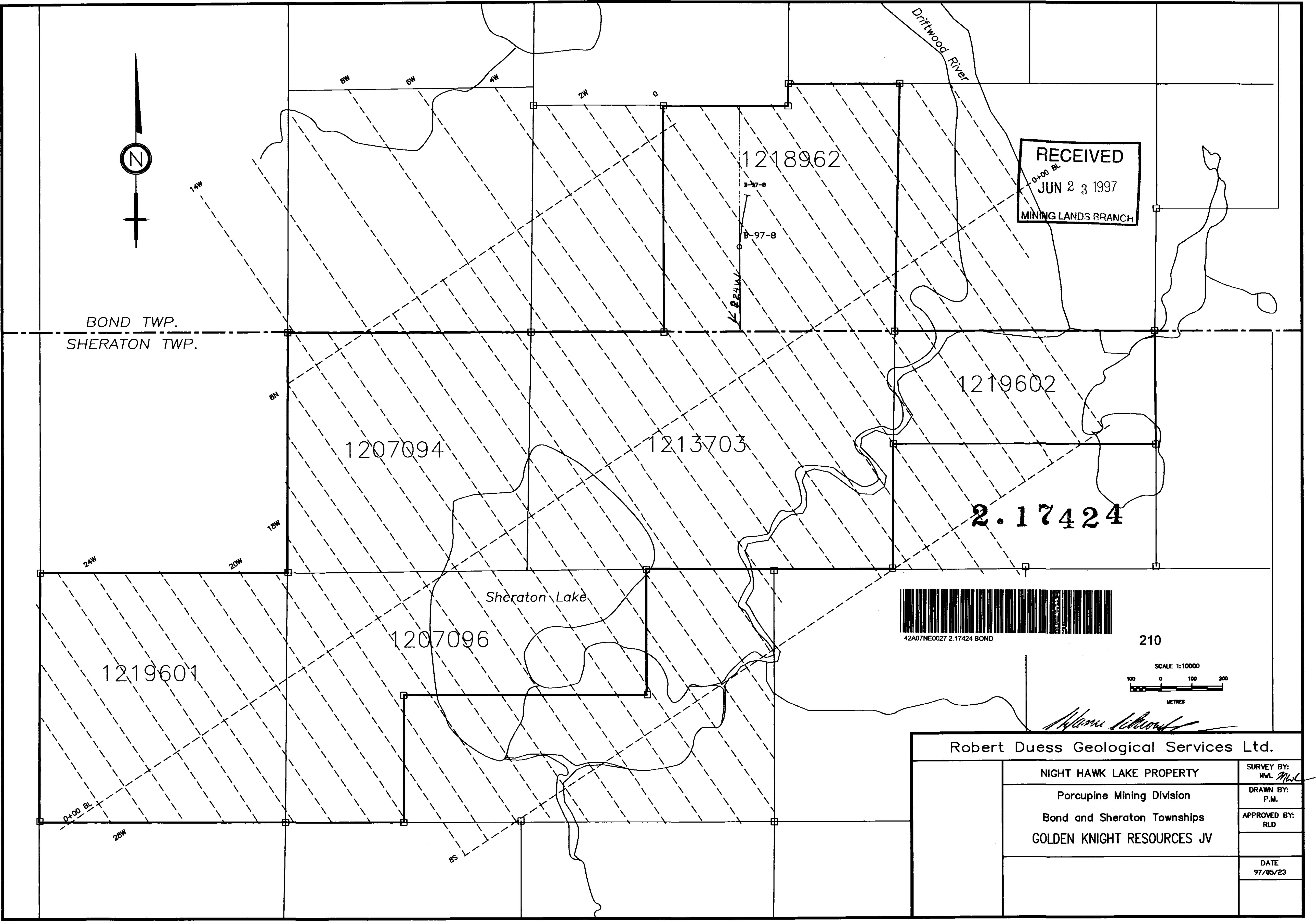
Robert Bailey
TIMMINS, ONTARIO, CANADA

CROSS LAKE MINERALS LTD.
VANCOUVER, B.C.

Correspondence ID: 11251



200


N
BOND TWP.
SHERATON TWP.
Driftwood River
RECEIVED
JUN 2 3 1997
MINING LANDS BRANCH
1218962
1219602
1207094
1213703
1207096
1219601
Sheraton Lake
B-97-8
L 24W
0+00 BL
8W
6W
4W
2W
0
14W
8N
18W
24W
20W
28W
8S
2.17424
42A07NE0027 2.17424 BOND
210
SCALE 1:10000
100
0
100
200
METRES
Robert Duess Geological Services Ltd.
NIGHT HAWK LAKE PROPERTY
Porcupine Mining Division
Bond and Sheraton Townships
GOLDEN KNIGHT RESOURCES JV
SURVEY BY: MWL
DRAWN BY: P.M.
APPROVED BY: RLD
DATE 97/05/23

2900S 2800S 2700S

924W B-97-8 924W

1000 B-97-8 1000

360°Az

-46°

OVB OVERBURDEN

8A

SIL 2E

SIL 2D

SUL 3G

3G SUL

SIL 2H

8 - 10m

2F

SIL 2E FTZ

SIL 2F 2H

SUL 3A

3F - 20m

PD

3E 2D PD

SIL SER 3E PD SPH

FTZ 3A 3G

3A 3G

3D 3F

3A

6

FTZ 3A

237.00 m B-97-8

900 900

800 800

2900S 2800S 2700S

Geological Legend:

OVB	Overburden
2D	Felsic Fragmental
2E	Crystal Tuff
2F	Intermediate Tuff
2H	Intermediate to Felsic Lapilli Tuff
3A	Argillite
3D	Tuffaceous Metasediments
3E	Exhalite
3F	Chert
3G	Graphitic Horizon
6	Felsic Dyke
8	Mafic Intrusive
8A	Diabase Dike
SIL	Silicified Zone
SUL	Sulphides
SER	Sericitized
FTZ	Fault Zone
PO	Pyrrhotite
SPH	Sphalerite

/ S0 bedding

/ F1 foliation

/ F2 foliation

368967 - sample number

SCALE 1:500

10 0 10 20

METRES

Robert Duess Geological Services Ltd.

GOLDEN KNIGHT RESOURCES LTD.

NIGHT HAWK LAKE PROPERTY

Bond Township

DRILL HOLE B-97-8

SECTION 924w

Looking West

2.17424

SURVEY BY: MWJ

DRAWN BY: BOR7

APPROVED BY: RLD

DATE 97/05/20

Claim No. 1218962