

HOLE NUMBER: R44-17

DRILL HOLE RECORD

DATE: 02/24/1997

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 00 33.00	*{OB}* Casing Overburden					Casing pushed to 51m (assumed) to avoid problems which caused loss of R44-16.
33.00 00 100.75	*4,e,n,q,* * Felsic Volcanic amygdaloidal l/vesicular spherulitic quartz phyric foliated/ sheared	-fine grained light to dark grey rock -spherulitic, spherules to 2-3mm, commonly cored -amygduloidal, quartz calcite filled amygdules to 1cm + -strongly foliated, common local shear textures -common subrounded to angular quartz eyes to 1mm in size -33-38.15m RQD=10%, much broken and ground core, 1.5m core not recovered -38.15-42m RQD=70%, locally broken and ground core, 3-5% large amygdules, 10-20cm bands of strongly spherulitic rock, most more subtle -42-44.2m coarsely spherulitic (to 1-2mm) commonly cored by quartz grains, also contains amygdules -44.2-47m increasing shear textures, smaller to no discernable amygdules, -47-54m shear lozenges commonly coarsely spherulitic, possibly originally fragmental but no compelling evidence in light of structural overprint -54-57.5m increasingly amygduloidal, amygdules become larger, account for 5-8% of unit from 56-57m -57.5-60m coarsely spherulitic, moderately amygduloidal -60-63m finer groundmass, smaller, less prominent spherules, 1-3% amygdules -63-72m larger, more prominent spherules, appear to coalesce, become curdy textured 67.06-67.3m -72-74m rare amygdules -74-79m increase in amygdule content, spherule size -78.88-79.62m fine grained foliated mafic shear pod or fragment, N.B. this unit has no correlative unit in hole R44-16 (10m away maximum) -79.62-100.75m spherulitic and amygduloidal felsic volcanic, strong to intense foliation/shearing, two foliations visible in most areas, kink bands common, axis at 0-10° to c.a.		-pervasive moderate to strong foliation parallel chlorite alteration -common quartz +/- calcite veining at 5-90° to c.a. #64.00-69.50#*ChFS* strong, fracture/vein controlled, chloritization	-1-3% disseminated and stringer py throughout unit -trace py within amygdules -trace sphalerite noted with py stringers at 73.5m	

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PRCM TC	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-sharp foliation parallel lower contact #43.00-43.01#<S2 29°> Foliation #58.50-58.51#<S2 31°> Foliation #90.00-90.01#<S2 34°> Foliation				
100.7E TC	*2,a,f,*t* Mafic	-fine grained dark green rock -strongly foliated, evidence of two foliations		-common quartz calcite veins, mostly foliation parallel		
112.8I	Volcanic fine grained primary fragmentals foliated/ sheared	-nonmagnetic -numerous small scale shear textures and structures -elongate, wispy, possibly boudinaged fragments of finer grained lighter coloured mafic rock, up to 3-4mm in thickness, up to 3-4cm in length, oriented parallel main flattening foliation -microfaults subparallel to c.a., offsetting pieces of fragments noted at 106m -pervasive silicification gives colour and hardness changes, starts at 107.9m -small feldspar grains and possibly some leucoxene noted from 110.9m to end of unit -lower contact sharp, structural, at quartz calcite chlorite vein with shear textures		#107.90-109.00#<SiPS> strong, pervasive, silicification	#104.00-111.00#<PyFl.0-5.0%> 1.0-5.0% fracture/vein controlled pyrite -mostly associated with silicified zone, but extends on both sides -no base metals noted	
112.8I TC	*7,b,c,*t,M ag*	-fine to medium grained dark green rock -strongly magnetic, magnetite grains to 2mm in size up to 20% locally, probably 10-15% of entire unit		-pervasive chloritization -common quartz calcite stringer veins		-up to 10-15% disseminated magnetite throughout unit -euhedral py grains to 1cm in size noted 117.46-117.65m
118.9I	Mafic Intrusive medium grained leucoxene bearing foliated/ sheared magnetite bearing	-leucoxene noted throughout, up to 1-2mm in size -moderately to strongly foliated, numerous minor shear structures -gradational decrease in grain size, in situ brecciation, increase in shear textures toward lower shear contact #114.30-114.31#<S2 35°> Foliation #128.90-128.91#<S2 38°> Seam Foliation				

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128.91 TO 148.20	*4,q,C,Ch,Cb* Felsic Volcanic quartz phyric heterolithi c carbonatize d chloritized	-fine to medium grained white to dark green banded rock -strongly foliated -heterolithic, numerous shear pods of mafic rock -strongly chloritized throughout -sections with extensive strong ankerite alteration -128.91-129.2m chloritized quartz phyric foliated felsic volcanic -129.2-130.6 very siliceous quartz phyric felsic -130.6-135m foliated chloritic and sericitic quartz phyric felsic, with bands of chloritic rock, possibly mafic shear pods, up to 5cm in thickness -135-144.5m banded (probably shear banded) chlorite-sericite and ankerite (determined by carbonate staining) with angular to subrounded quartz eyes to 1mm throughout -144.5-148.2 alternating sections of fine grained foliated chlorite sericite rock and more siliceous quartz phyric chloritized felsic --> bands are from 6cm to 1m+ in apparent thickness, and may represent juxtaposed sections of different alteration styles or possibly different protoliths #138.10-138.11#*S2 36°* Foliation #147.66-147.68#*FAI#w/ Gouge* Fault		#135.00-144.50#*CbSS ,ChSM* strong, spotty, carbonatization; moderate, spotty, chloritization	-trace to 1% stringer py	
148.20 TO 255.91	*4,n,q,*t,S e,Ch* Felsic Volcanic spherulitic quartz phyric foliated/ sheared sericitized chloritized	-fine grained light grey to dark grey green rock -spherulitic, spherules to 1-2mm, larger spherules commonly quartz cored -quartz phyric, subangular to subrounded, up to 1mm in size, locally to 3-5% of rock -strongly foliated, foliation planes dominantly defined by sericite, unit is very fissile along foliation planes -evidence of at least two foliations common throughout, common anastomosing foliation and shear lozenges -common kink bands and open folding of foliation -148.2-157m RQD=60 -157-167 RQD=30 -167-195m RQD=60		#148.20-175.00#*SePS ,ChPM* strong, pervasive, sericitization; moderate, pervasive, chloritization #175.00-187.00#*ChPS ,SePS* strong, pervasive, chloritization; strong, pervasive, sericitization #187.00-246.00#*SePS* strong, pervasive, sericitization #246.00-253.00#*ChPS ,SePS*	-trace to 1% foliation parallel stringer py and disseminated py through unit as a whole, locally to 5% + -disseminated asp noted at 239.9m #157.50-174.00#*PyF1.0-3.0%* 1.0-3.0% fracture/vein controlled pyrite -includes 1cm cpy stringer at 161m #188.00-207.00#*PyF1.0-3.0%* 1.0-3.0% fracture/vein controlled pyrite -includes cpy stringer at 188.2m and blebby cpy in q.v. at 189.5	

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		<p>-189-191m quartz chlorite flooding, approximately 70% q.v. (contains cpy blebs) -post quartz veining shear visble at 193m -strong in situ brecciation with quartz/calcite infilling noted at 196.86-196.88m, 204.6-205.4m -strongly stretched and boudinaged amygdules noted 202-203m -210.3-213.05m finer grained, amygduloidal -213.05-224.7m medium to coarse spherules, quartz phyric, rare sericitic fr agments to 3x5-10mm, possibly lapilli -224.7-225.02m fine grained -225.02-232.6m medium to coarse spherulitic, quartz phyric -232.6-236.0m tectonically juxtaposed fine grained and medium to coarse spherulitic material, 10-15% white quartz veins -236.05-247m less fissile, more competant spherulitic quartz phyric rock -247-252m increasing chloritization resulting in lower RQD (=70%), increasing shear textures, more intense flattening -lower contact appears structural, probably competency contrast</p>		<p>strong, pervasive, chloritization; strong, pervasive, sericitization</p> <p>{253.00-255.91}*SePS ,ChPM* strong, pervasive, sericitization; moderate, pervasive, chloritization</p>		
		{154.00-154.01}*S2 34°} Foliation				
		{212.50-212.51}*S2 37°} Foliation				
		{223.46-223.51}*S2 25°}Seam Foliation				
		{233.25-233.26}*S2 37°}Seam Foliation				
		{236.03-236.05}*FAI }w/ Gouge Fault				

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FROM TC	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
255.91 TC 332.74	*4.f,n,q,*t * Felsic Volcanic primary fragmentals spherulitic quartz phyric foliated/ sheared	<p>||255.90-255.91||*||S2 19°|Contact> Foliation</p> <p>-light to dark grey fragmental rock -felsic volcanic fragments pebble to cobble size in a felsic spherulitic quartz phyric matrix -spherules to 1-2mm, commonly quartz cored -quartz phyric, subrounded to euhedral angular quartz grains to 1mm in size -matrix is strongly foliated, fragments commonly less visibly foliated -upper contact at first discernable large fragment, appears structural -smaller fragments commonly have biotitic rims -255.91-261m estimated 40-50% cobble sized fragments of spherulitic quartz phyric massive felsic volcanic, mostly in situ brecciated within fragment boundaries, within a foliated spherulitic quartz phyric matrix -261-270m 80% matrix, fragments pebble sized, commonly biotite rimmed -270-286m 20-30% rounded rimmed pebble sized fragments, lighter rimmed with darker cores, probably due to incomplete alteration effects (bleaching?, silicification?), fragments have internal coalesced spherulitic structure, spherules to 2-3mm -286-289.5m foliated, spherulitic felsic, >10% small fragments -289.5-306.2 70-80% pebble to cobble sized fragments and individual spherules to 1cm (most of these structures appear to be composed of multiple spherules and quartz grains under hand lens, but several show radial textures indicative of individual spherulite growth)--> common "curdy" rhyolite texture -306.2-315.9m few discernable fragments, mostly foliated quartz phyric spherulitic foliated felsic volcanic, 1-2% amygdules -315.9-317.35 bleached sericitized section with potential flow banding -317.35-332.74m unit becomes more altered (silicification, sericitization) with more discernable shear textures, fragments are much less discernable -sharp foliation parallel lower contact, possibly sheared</p>		<p>-pervasive weak to moderate sericitization, +/- chloritization</p> <p>||255.91-267.00||*SePM,ChPW* moderate, pervasive, sericitization; weak, pervasive, chloritization</p> <p>||267.00-306.00||*SePW,ChFM* weak, pervasive, sericitization; moderate, fracture/vein controlled, chloritization</p> <p>||306.00-332.74||*SePM,ChPW* moderate, pervasive, sericitization; weak, pervasive, chloritization</p>	<p>||293.00-304.00||*PyF1.0-3.0%,SphF0.0-0.5%* 1.0-3.0% fracture/vein controlled pyrite; 0.0-0.5% fracture/vein controlled sphalerite</p>	<p>-1-3% foliation parallel stringer and fracture related by mineralization</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		||264.20-264.21||*S2 43°* Foliation				
		||290.30-290.31||*S2 44°* Foliation				
		||320.60-320.61||*S2 44°* Foliation				
332.74 TO 350.90	*7/2,a,* Mafic Intrusive or Volcanic fine grained foliated/ sheared	-fine grained dark green foliated rock -well foliated, local minor shear textures -non to weakly magnetic -fine grained black oxide minerals start to become discernable after 342m, look like magnetite grains but are generally not magnetic, 5-10% of rock locally after 343m -multiple foliations noted at 344m, kink bands sub parallel to c.a. -subrounded to rounded elliptical quartz calcite structures to 2-5mm in size, appear to be amygdules, start to appear after 348m to end of unit -lower contact foliation parallel		-pervasive weak carbonatization and chloritization -common quartz calcite stringers generally subparallel to foliation		-trace disseminated py
350.90 TO 388.30	*4,n,q,* Felsic Volcanic spherulitic quartz phyric foliated/ sheared	-fine grained light grey to dark grey rock -spherulitic, spherules to 2-3mm in size -quartz phyric, subrounded to euhedral quartz grains to 1-2mm in size, to 5-10% of rock locally -strongly foliated throughout unit, common evidence of two foliations, very common local shear structures -locally fragmental, debatable whether primary then overprinted or due to shear, evidence available for both interpretations -350.9-352.5m shear juxtaposed (?) sections of mafic and spherulitic felsic rock, RQD=90 -352.5-363m strongly chloritic groundmass, strongly foliated with local shear structures, spherulitic quartz phyric, RQD=60 -363-385m groundmass is more sericitized, less chloritized, spherulitic, quartz phyric, lapilli sized elongate fragments/shear lozenges, generally containing sulphides, RQD=85 -385-398m increasingly chloritic matrix, becomes		350.90-360.00 *ChPS ,SePM* strong, pervasive, chloritization; moderate, pervasive, sericitization 360.00-379.50 *SePS ,ChPM* strong, pervasive, sericitization; moderate, pervasive, chloritization 379.50-412.00 *ChPS ,SePM* strong, pervasive, chloritization; moderate, pervasive, sericitization 412.00-434.00 *SePM* moderate, pervasive, sericitization	392.00-395.00 *SphF1.0-5.0* fracture controlled sphalerite 1-5%	

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		<p>amygduloidal over 20-30cm areas, RQD=70 -398-410.5m increased shearing, shear lozenges, possibly primary fragmental 402.5-403m, 408.5-410.5m, groundmass moderately to strongly chloritic with relict spherules and quartz microphyric to quartz phyric -410.5-420.5m spherulitic strongly foliated and chloritized, sections might appear mafic except for relict spherules and quartz eyes to 0.5mm -420.5-438.36m matrix becomes less chloritic, more sericitic, quartz grains increase in size and abundance, shear textures common, rare suggestions of primary fragments, becomes harder, more silicic towards lower contact, possibly hornfels -lower contact irregular, intrusive</p> <p> 355.30-355.31 * S2 45° * Foliation</p> <p> 370.00-370.01 * S2 50° * Foliation</p> <p> 400.00-400.01 * S2 50° * Foliation</p> <p> 430.00-430.01 * S2 49° * Foliation</p>				
438.36 TO 435.83	*7,b,G* Mafic Intrusive medium grained leucoxene bearing	<p>-medium to coarse grained dark green mafic intrusive rock -intrusive upper contact, slightly irregular -fine grained chill margin 438.36-439.12 -moderately foliated, getting weaker to 444m, gradually becoming not discernable except in localized shear bands (5-20cm in width) -leucoxene bearing -very weakly to non magnetic</p> <p> 443.50-443.51 * S2 50° * Foliation</p>		<p>-pervasive chloritization of mafic minerals -common sauceritization of feldspars -fracture related epidote alteration common 460-495.83m</p>		<p>-trace disseminated euhedral py cubes to 1cm</p>
435.83 TO 435.83	*EOH* End-Of-Hole					

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ASSAYS SHEET

DATE: 24/02/1997

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppm	Cu/Zn	Co ppm	Pt ppb	Pd ppb	S ppm	Se ppm	As ppm	Hb ppm	Sb ppm	Est. Ni %	Est. Po %	Est. Py %	Est. Cp %	Est. Sp %	Est. Gn %	ROCK TYPE	Comments
AT04360	45.00	46.50	1.50	16	117	3	3	<2	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04361	46.50	48.00	1.50	39	157	7	2	<2	0.2										0.0	0.1	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04362	48.00	49.50	1.50	24	189	5	3	3	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04363	49.50	51.00	1.50	29	122	1	2	<2	0.1										0.0	0.1	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04364	51.00	52.50	1.50	21	159	8	3	3	0.1										0.0	0.1	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04365	52.50	54.00	1.50	23	136	3	4	7	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04366	54.00	55.50	1.50	22	132	2	3	<2	0.1										0.0	0.0	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04367	55.50	57.00	1.50	26	183	5	3	7	0.2										0.0	0.3	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04368	57.00	59.50	2.50	23	271	2	6	<2	0.1										0.0	0.0	5.0	0.0	0.0	0.0	4,e,n,q,*t	Po in amyg
AT04369	59.50	60.00	0.50	21	490	1	4	<2	0.1										0.0	0.5	5.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04370	60.00	61.50	1.50	18	290	1	9	<2	0.1										0.0	0.0	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04371	61.50	63.00	1.50	16	195	1	4	<2	0.1										0.0	0.0	0.2	0.0	0.0	0.0	4,e,n,q,*t	
AT04372	63.00	64.50	1.50	25	179	2	3	7	0.1										0.0	0.0	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04373	64.50	66.00	1.50	20	144	1	6	10	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04374	66.00	67.50	1.50	14	169	1	5	3	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04375	67.50	69.00	1.50	13	108	3	4	7	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04376	69.00	70.50	1.50	11	86	1	3	<2	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04377	70.50	72.00	1.50	14	111	1	3	<2	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04378	72.00	73.50	1.50	19	279	1	7	7	0.1										0.0	0.1	3.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04379	73.50	75.00	1.50	20	240	1	2	<2	0.1										0.0	0.5	3.0	0.0	0.1	0.0	4,e,n,q,*t	
AT04381	75.00	76.50	1.50	28	59	33	10	3	0.1										0.0	0.5	0.5	0.0	0.2	0.0	4,e,n,q,*t	
AT04382	76.50	78.00	1.50	32	50	28	3	7	0.2										0.0	0.5	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04383	78.00	79.50	1.50	49	191	2	13	<2	0.2										0.0	0.3	3.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04384	79.50	81.00	1.50	50	529	1	13	<2	0.1										0.0	0.0	3.0	0.0	0.0	0.0	4,e,n,q,*t/2,a	
AT04385	81.00	82.50	1.50	72	208	2	9	<2	0.1										0.0	0.0	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04386	82.50	84.00	1.50	57	81	5	6	<2	0.1										0.0	0.0	2.0	0.0	0.0	0.0	2,a/4,e,n,q,*t	
AT04387	84.00	85.50	1.50	27	468	52	6	3	0.2										0.0	0.0	2.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04388	85.50	87.00	1.50	20	132	10	3	<2	0.1										0.0	0.0	3.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04389	87.00	88.50	1.50	17	130	2	2	<2	0.1										0.0	0.0	5.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04390	88.50	90.00	1.50	24	123	21	4	3	0.1										0.0	0.0	2.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04391	90.00	91.50	1.50	20	88	1	2	<2	0.1										0.0	0.0	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04392	91.50	93.00	1.50	15	110	2	2	<2	0.1										0.0	0.0	0.5	0.0	0.0	0.0	4,e,n,q,*t	
AT04393	93.00	94.50	1.50	18	139	3	2	<2	0.3										0.0	0.0	1.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04394	94.50	96.00	1.50	20	98	4	3	<2	0.2										0.0	0.0	2.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04395	96.00	97.50	1.50	11	134	5	5	3	0.1										0.0	0.0	2.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04396	97.50	99.00	1.50	19	131	3	2	7	0.2										0.0	0.0	3.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04397	99.00	100.50	1.50	21	169	5	4	24	0.1										0.0	0.0	5.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04398	100.50	103.00	2.50	79	118	1	30	10	0.1										0.0	0.0	5.0	0.0	0.0	0.0	4,e,n,q,*t	
AT04399	105.00	106.50	1.50	35	140	1	19	<2	0.1										0.0	0.0	0.5	0.0	0.0	0.0	2/7,a/4,e,n,*t	
AT04400	106.50	108.00	1.50	37	251	2	21	7	0.2										0.0	0.0	1.0	0.0	0.0	0.0	2,a,f,*t	
AT05001	108.00	109.50	1.50	42	128	2	25	3	0.3										0.0	0.0	1.0	0.0	0.0	0.0	2,a,f,*t	
AT05002	109.50	111.00	1.50	35	139	1	20	7	0.2										0.0	0.0	5.0	0.0	0.0	0.0	2,a,f,*t,Si	
AT05003	156.00	157.50	1.50	310	350	8	6	<2	0.2										0.0	0.0	2.0	0.0	0.0	0.0	2,a,f,*t,Si	
AT05004	157.50	159.00	1.50	843	194	2	3	10	0.3										0.0	0.0	0.5	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05005	159.00	160.50	1.50	1290	136	1	4	7	0.4										0.0	0.0	3.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05006	160.50	161.25	0.75	5220	160	5	4	14	2.9										0.0	0.0	3.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05007	161.25	162.00	0.75	138	1390	1	6	<2	0.2										0.0	0.0	3.0	1.5	0.0	0.0	4,n,q,*t,Se,Ch	1cm cpy
																			0.0	0.0	5.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	

HOLE NUMBER: R44-17

ASSAYS SHEET

HOLE NUMBER : R44-17

ASSAYS SHEET

DATE: 24/02/1997

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppm	Cu/Zn	Co ppm	Pt ppb	Pd ppb	S ppm	Se ppm	As ppm	Hb ppm	Sb ppm	Est.Ni %	Est.Po %	Est.Py %	Est.Cp %	Est.Sp %	Est.Gn %	ROCK TYPE	Comments	
AT05008	162.00	163.50	1.50	163	852	1	6	3	0.2										0.0	0.0	6.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05009	163.50	165.00	1.50	216	495	1	4	<2	0.2										0.0	0.0	3.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05010	165.00	166.50	1.50	127	573	1	4	<2	0.2										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05011	166.50	168.00	1.50	128	2090	1	7	<2	0.2										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05012	168.00	169.50	1.50	117	952	4	8	7	0.2										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05013	169.50	171.00	1.50	71	2860	2	5	<2	0.1										0.0	0.0	3.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05014	171.00	172.50	1.50	124	153	2	5	3	0.1										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05015	172.50	174.00	1.50	562	151	1	6	7	0.2										0.0	0.0	0.5	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05016	187.00	188.00	1.00	45	325	1	4	<2	0.1										0.0	0.0	0.2	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05017	188.00	189.00	1.00	661	188	6	7	3	0.3										0.0	0.0	0.5	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05018	189.00	190.50	1.50	229	152	10	9	<2	0.2										0.0	0.0	0.5	0.5	0.0	0.0	0.0	4,n,q,*t,Se,Ch	cpy in qv
AT05019	190.50	192.00	1.50	60	871	2	4	<2	0.1										0.0	0.0	0.0	0.1	0.0	0.0	0.0	4,n,q/Q.V.	
AT05020	192.00	193.50	1.50	195	2940	3	10	<2	0.2										0.0	0.0	4.0	0.0	0.0	0.0	0.0	4,n,q/Q.V.	
AT05021	193.50	195.00	1.50	186	1750	6	12	10	0.2										0.0	0.0	8.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05022	195.00	196.50	1.50	97	1570	4	6	7	0.2										0.0	0.0	5.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05023	196.50	198.00	1.50	66	1460	2	4	3	0.2										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05024	198.00	199.50	1.50	38	604	3	7	<2	0.1										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05025	199.50	201.00	1.50	90	1290	4	3	7	0.2										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05026	201.00	202.50	1.50	119	580	3	4	3	0.2										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05027	202.50	204.00	1.50	157	462	5	7	<2	0.2										0.0	0.0	3.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05028	204.00	205.50	1.50	144	772	8	11	3	0.2										0.0	0.0	4.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05029	205.50	207.00	1.50	129	4920	9	4	<2	0.3										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05031	249.00	250.50	1.50	133	98	1	5	3	0.3										0.0	0.2	0.5	0.0	0.0	0.0	0.0	4,n,q,*t,Ch,Se	trace cpy
AT05032	250.50	252.00	1.50	448	412	37	8	21	2.5										0.0	1.0	7.0	0.0	0.0	0.0	0.0	4,n,q,*t,Ch,Se	
AT05033	252.00	253.50	1.50	55	183	15	7	<2	0.4										0.0	0.1	2.0	0.0	0.0	0.0	0.0	4,n,q,*t,Ch,Se	
AT05034	253.50	255.00	1.50	31	439	11	7	7	0.3										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Ch,Se	
AT05035	291.00	292.50	1.50	16	207	33	7	<2	0.1										0.0	0.0	0.5	0.0	0.0	0.0	0.0	4,n,q,*t,Se,Ch	
AT05036	292.50	294.00	1.50	22	809	32	10	3	0.1										0.0	0.0	1.0	0.0	0.0	0.2	0.0	4,f,n,q,*t	
AT05037	294.00	295.50	1.50	19	545	21	6	7	0.1										0.0	0.0	1.0	0.0	0.0	0.1	0.0	4,f,n,q,*t	
AT05038	295.50	297.00	1.50	18	164	10	8	<2	0.1										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05039	297.00	298.50	1.50	24	333	25	5	3	0.2										0.0	0.0	0.5	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05040	298.50	300.00	1.50	17	897	112	6	3	0.3										0.0	0.0	1.0	0.1	0.0	0.0	0.0	4,f,n,q,*t	
AT05041	300.00	301.50	1.50	12	152	16	7	10	0.2										0.0	0.0	4.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05042	301.50	303.00	1.50	14	602	115	9	7	0.5										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05043	303.00	304.50	1.50	30	353	13	10	<2	0.3										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05044	304.50	306.00	1.50	23	321	44	6	3	0.3										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05045	306.00	307.50	1.50	27	146	23	6	7	0.3										0.0	0.0	3.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05046	307.50	309.00	1.50	28	421	10	8	3	0.3										0.0	0.0	3.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05047	315.00	316.00	1.00	21	143	9	5	<2	0.4										0.0	0.0	3.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05048	316.00	317.00	1.00	18	292	48	8	14	0.4										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05049	317.00	317.50	0.50	20	400	184	7	7	0.7										0.0	0.0	2.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05050	317.50	318.00	0.50	16	160	13	5	<2	0.2										0.0	0.0	3.0	0.0	0.1	0.0	0.0	4,f,n,q,*t	
AT05051	329.00	330.00	1.00	28	679	6	6	<2	0.2										0.0	0.0	0.5	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05052	330.00	330.75	0.75	83	887	4	7	3	0.4										0.0	0.0	0.5	0.0	0.0	0.0	0.0	4,f,n,q,*t,Se	
AT05053	330.75	331.50	0.75	205	375	3	5	<2	1.1										0.0	0.0	1.0	0.0	0.1	0.0	0.0	4,f,n,q,*t/Q.V.	
AT05054	331.50	332.25	0.75	50	223	1	9	3	0.2										0.0	0.0	4.0	0.0	0.0	0.0	0.0	4,f,n,q,*t	
AT05055	351.00	352.00	1.00	473	1090	3	13	7	0.3										0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,f,n,q,*t/7,a	
																			0.0	0.0	1.0	0.0	0.0	0.0	0.0	4,n,q,*t,Ch	

HOLE NUMBER: R44-17

ASSAYS SHEET

HOLE NUMBER : R44-17

ASSAYS SHEET

DATE: 24/02/1997

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppm	Cu/Zn	Co ppm	Pt ppb	Pd ppb	S ppm	Se ppm	As ppm	Hb ppm	Sb ppm	Est.Ni %	Est.Po %	Est.Py %	Est.Cp %	Est.Sp %	Est.Gn %	ROCK TYPE	Comments
AT05056	352.00	353.00	1.00	2090	822	1	8	<2	1.1										0.0	0.0	1.0	1.5	0.0	0.0	4,n,q,*t,Ch	
AT05057	353.00	354.00	1.00	2300	608	11	5	<2	1.7										0.0	0.0	5.0	1.0	0.5	0.0	4,n,q,*t,Ch	
AT05058	354.00	355.50	1.50	355	432	5	5	<2	0.3										0.0	0.0	3.0	0.0	0.0	0.0	4,n,q,*t,Ch	
AT05059	355.50	357.00	1.50	311	153	5	6	3	0.3										0.0	0.0	2.0	0.0	0.0	0.0	4,n,q,*t,Ch	
AT05060	357.00	358.50	1.50	276	216	3	6	7	0.3										0.0	0.0	2.0	0.0	0.1	0.0	4,n,q,*t,Ch	
AT05061	358.50	360.00	1.50	258	4220	3	6	10	0.4										0.0	0.0	3.0	0.0	0.5	0.0	4,n,q,*t,Ch	
AT05062	360.00	361.50	1.50	297	9220	4	7	14	0.4										0.0	0.0	5.0	0.0	1.0	0.0	4,n,q,*t,Se	
AT05063	361.50	363.00	1.50	252	8740	7	7	7	0.6										0.0	0.0	5.0	0.0	0.5	0.0	4,n,q,*t,Se	
AT05064	363.00	364.50	1.50	42	1360	32	6	3	0.3										0.0	0.0	5.0	0.0	0.5	0.0	4,n,q,*t,Se	
AT05065	364.50	366.00	1.50	55	927	78	5	7	0.5										0.0	0.0	5.0	0.0	0.5	0.0	4,n,q,*t,Se	
AT05066	366.00	367.50	1.50	34	308	54	7	3	0.4										0.0	0.0	5.0	0.0	0.2	0.0	4,n,q,*t,Se	
AT05067	367.50	369.00	1.50	15	97	21	5	14	0.5										0.0	0.0	3.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05068	369.00	370.50	1.50	18	131	7	6	7	0.5										0.0	0.0	4.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05069	370.50	372.00	1.50	37	206	8	8	<2	0.8										0.0	0.0	2.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05070	372.00	373.50	1.50	25	353	8	5	<2	0.6										0.0	0.0	3.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05071	373.50	375.00	1.50	21	203	4	6	<2	0.2										0.0	0.0	2.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05072	380.00	381.00	1.00	40	727	6	5	<2	0.3										0.0	0.0	1.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05073	381.00	382.50	1.50	330	5230	62	11	41	2.4										0.0	0.0	5.0	0.0	0.1	0.0	4,n,q,*t,Ch	
AT05074	382.50	384.00	1.50	300	9820	57	5	27	3.3										0.0	0.0	4.0	0.0	0.5	0.0	4,n,q,*t,Ch	
AT05075	384.00	385.50	1.50	81	2900	530	5	17	1.3										0.0	0.0	3.0	0.0	0.1	0.0	4,n,q,*t,Ch	
AT05076	385.50	387.00	1.50	13	820	64	4	<2	0.2										0.0	0.0	1.0	0.0	0.1	0.0	4,n,q,*t,Se	
AT05077	390.00	391.50	1.50	17	813	110	4	<2	0.3										0.0	0.0	0.5	0.0	0.0	0.0	4,n,q,*t,Ch	
AT05078	391.50	392.25	0.75	20	3520	84	4	3	0.3										0.0	0.0	1.0	0.0	1.0	0.0	4,e,n,q,*t,Ch	
AT05079	392.25	393.00	0.75	15	4310	57	5	<2	0.3										0.0	0.0	1.0	0.0	3.0	0.0	4,e,n,q,*t,Ch	
AT05080	393.00	393.75	0.75	15	4180	93	4	3	0.3										0.0	0.0	0.5	0.0	2.0	0.0	4,n,q,*t	
AT05081	393.75	394.50	0.75	29	6680	84	4	<2	0.4										0.0	0.0	1.0	0.0	5.0	0.0	4,n,q,*t	
AT05082	394.50	396.00	1.50	13	355	37	4	<2	0.2										0.0	0.0	0.5	0.0	0.0	0.0	4,n,q,*t	
AT05083	401.00	402.00	1.00	64	785	20	4	<2	0.6										0.0	0.0	1.0	0.0	0.0	0.0	4,n,q,*t,Ch	
AT05084	402.00	403.50	1.50	28	605	18	5	<2	0.5										0.0	0.0	2.0	0.0	0.0	0.0	4,n,q,*t,Ch,Se	
AT05085	403.50	405.00	1.50	68	986	31	6	7	0.9										0.0	0.0	1.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05086	405.00	406.50	1.50	81	1480	40	4	7	1.6										0.0	0.0	3.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05087	406.50	408.00	1.50	109	2660	128	6	10	3.1										0.0	0.0	5.0	0.0	0.0	0.0	4,n,q,*t,Se	
AT05088	408.00	408.75	0.75	457	25400	184	6	21	13.1										0.0	0.0	1.0	0.0	5.0	0.0	4,n,q,*t,Se	
AT05089	408.75	409.50	0.75	29	874	167	5	<2	0.9										0.0	0.0	0.3	0.0	0.0	0.0	4,n,q,*t,Se	
AT05090	409.50	411.00	1.50	13	661	128	3	17	0.4										0.0	0.0	0.1	0.0	0.0	0.0	4,n,q,*t,Ch,Se	

HOLE NUMBER: R44-17

ASSAYS SHEET

HOLE NUMBER : R44-17

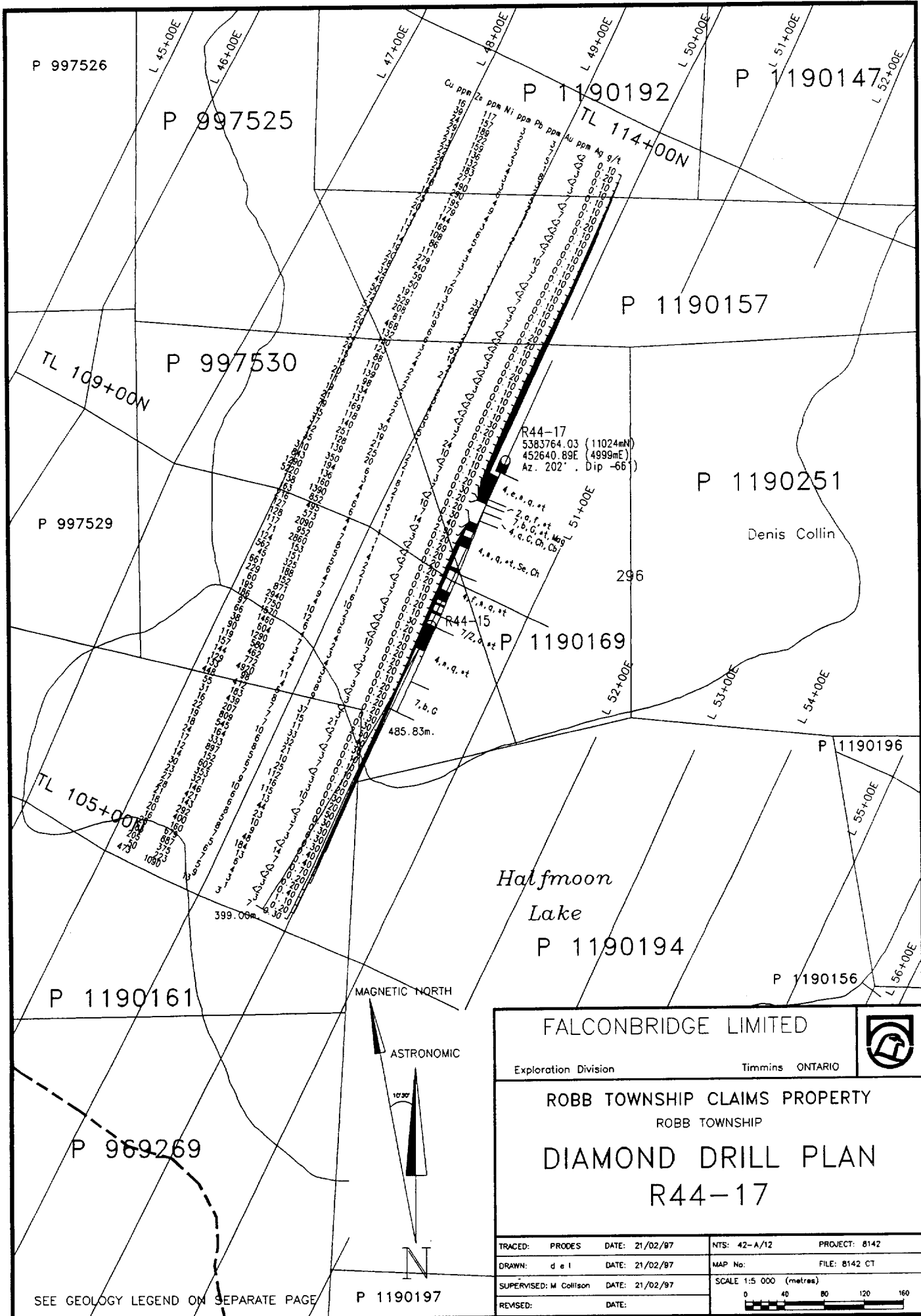
GEOCHEMICAL ASSAY

DATE: 24/02/1997

Sample	From (M)	To (M)	Leng. (M)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	Fe2O3 %	TiO2 %	P2O5 %	MnO %	CR2O3 %	LOI %	SUM %	Y PPM	Zr PPM	BA PPM	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM	
AT04951	39.00	42.00	3.00																								
AT04952	69.00	72.00	3.00																								
AT04953	79.26	79.38	0.12																								
AT04954	96.00	99.00	3.00																								
AT04955	102.00	105.00	3.00																								
AT04956	114.00	117.00	3.00																								
AT04957	135.21	135.41	0.20																								
AT04958	138.46	138.66	0.20																								
AT04959	144.80	145.00	0.20																								
AT04960	153.00	156.00	3.00																								
AT04961	177.00	180.00	3.00																								
AT04962	207.00	210.00	3.00																								
AT04963	237.00	240.00	3.00																								
AT04964	248.50	249.50	1.00																								
AT04965	258.00	261.00	3.00																								
AT04966	288.00	291.00	3.00																								
AT04967	318.00	321.00	3.00																								
AT04968	336.00	339.00	3.00																								
AT04969	356.00	359.00	3.00																								
AT04970	387.00	389.00	2.00																								
AT04971	414.00	417.00	3.00																								
AT04972	441.00	444.00	3.00																								
AT04973	471.00	474.00	3.00																								

HOLE NUMBER: R44-17

GEOCHEMICAL ASSAY



P 997526

P 997525

P 1190192

P 1190147

P 997530

P 1190157

P 1190251

P 997529

Denis Collin

P 1190169

P 1190196

TL 105+00N

Halfmoon Lake

P 1190194

P 1190156

P 1190161

MAGNETIC NORTH

ASTRONOMIC

P 969269

FALCONBRIDGE LIMITED



Exploration Division

Timmins ONTARIO

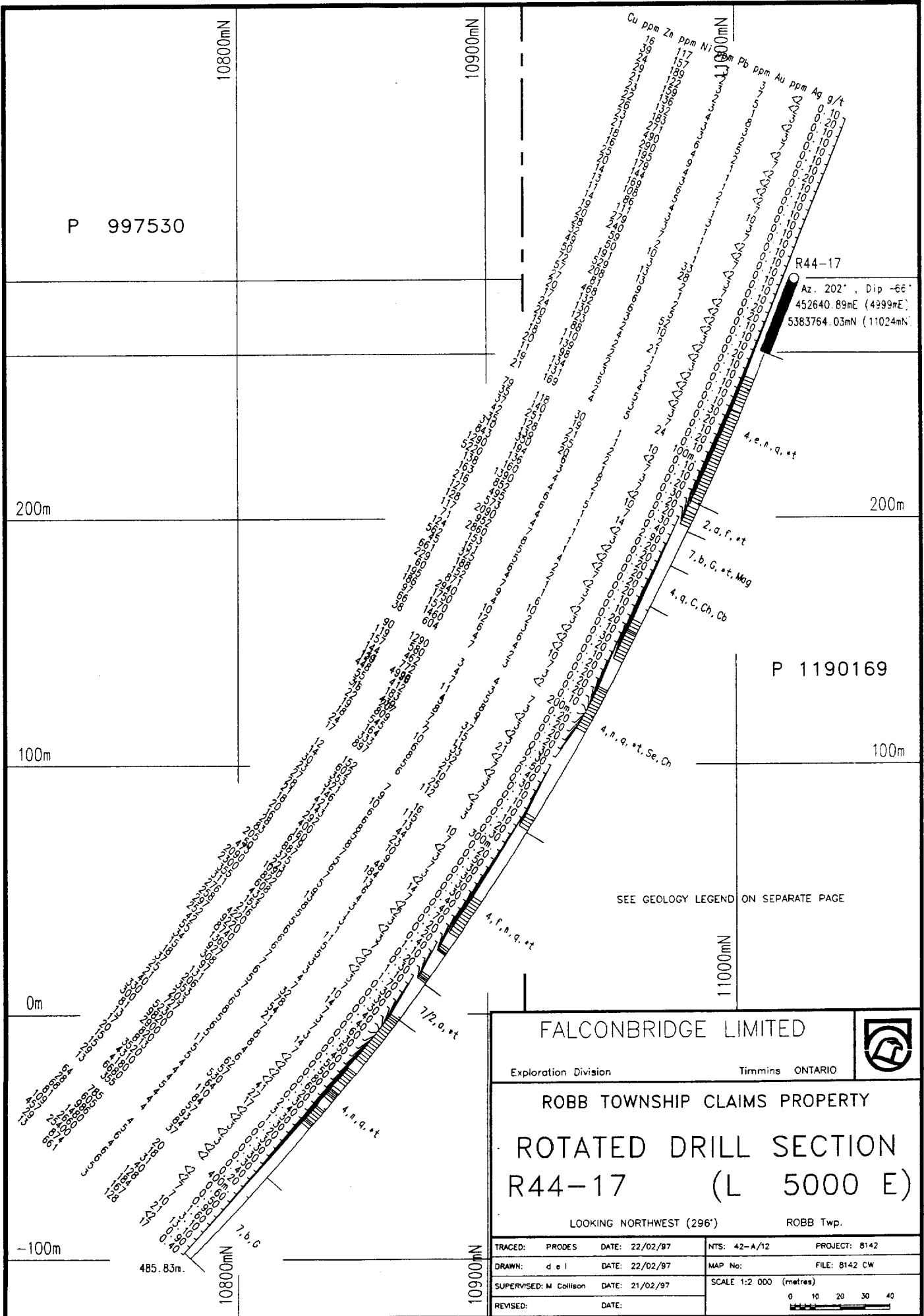
ROBB TOWNSHIP CLAIMS PROPERTY
ROBB TOWNSHIP

DIAMOND DRILL PLAN
R44-17

TRACED: PRODES	DATE: 21/02/97	NTS: 42-A/12	PROJECT: 8142
DRAWN: d e l	DATE: 21/02/97	MAP No:	FILE: 8142 CT
SUPERVISED: M Collison	DATE: 21/02/97	SCALE 1:5 000 (metres)	
REVISED:	DATE:	0 40 80 120 160	

SEE GEOLOGY LEGEND ON SEPARATE PAGE

P 1190197



P 997530

R44-17
 Az. 202°, Dip -66°
 452640.89mE (4399mE)
 5383764.03mN (11024mN)

P 1190169

SEE GEOLOGY LEGEND ON SEPARATE PAGE

FALCONBRIDGE LIMITED



Exploration Division Timmins ONTARIO

ROBB TOWNSHIP CLAIMS PROPERTY

ROTATED DRILL SECTION
 R44-17 (L 5000 E)

LOOKING NORTHWEST (296°) ROBB Twp.

TRACED: PRODES	DATE: 22/02/97	NTS: 42-A/12	PROJECT: 8142
DRAWN: d e l	DATE: 22/02/97	MAP No:	FILE: 8142 CW
SUPERVISED: M Collison	DATE: 21/02/97	SCALE 1:2 000 (metres)	
REVISED:	DATE:	0 10 20 30 40	

1. MAIN ROCK DIVISIONS

- 15 To be Announced
- 14 Huronian Supergroup
- 13 Metamorphic (Unknown)
- 12 Gneiss
- 11 Schist
- 10 Diabase
- 9 Felsic Intrusive
- 8 Intermediate Intr. Rocks
- 7 Mafic Intrusive Rocks
- 6 Ultramafic Intr. Rocks
- 5 Sedimentary Rocks
- 5,s Sulphide (>40%)
- 4 Felsic Volcanic Rocks
- 3 Intermediate Volcanic Rocks
- 3,C Heterolithic Volcanic Rocks
- 2 Mafic Volcanic rocks
- 1 Ultramafic Volcanic Rocks

2. TEXTURAL/GEOCHEMICAL MODIFIERS

- | | | | |
|----|------------------------|---|-----------------------|
| a | Fine Grained | A | Primitive (Y<20) |
| b | Medium Grained | B | Evolved (Y>20<60) |
| bx | Breccia | C | Heterolithic |
| c | Coarse Grained | D | Feldspar Phyric |
| d | Quartz-Feldspar Phyric | E | Chert |
| e | Amygdaloidal/Vesicular | F | Wacke |
| f | Primary Fragmentals | G | Leucoxene Bearing |
| g | Graphitic/Argillaceous | H | Basaltic Komatiite |
| h | Tholeiitic | | |
| i | Alkalic | J | Pyroxenite |
| j | Calc-Alkalic | K | Net Textured |
| k | Komatiitic | L | Peridotite |
| l | Flows (banded) | M | Dunite |
| m | Massive | N | Ophitic |
| n | Variolitic/Spherulitic | P | Porphyritic |
| p | Pillowed | Q | |
| q | Quartz Phyric | R | Polysutured |
| r | Oxide Iron Formation | S | Fractured |
| s | Sulphides, Exhellites | T | Gabbroic Textured |
| t | Pyroclastic | U | Pyroxene Spinifex |
| u | High Mg | V | Olivine Spinifex |
| v | High Fe | W | Skeletal/Crescumulate |
| w | High Al | X | Adcumulate |
| x | Andesite | Y | Mesocumulate |
| y | Icelandite | Z | Orthocumulate |
| z | Highly Evolved (Y>60) | | |

ROCK NAMES MUST HAVE ALL MODIFIERS COMMA DELIMITED AND CAN BE NO LONGER THAN 15 CHARACTERS, COMMAS INCLUDED. Example: 3,*y,d,<DAC>,*t

3. ALTERATION MODIFIERS

- Ab Albitization
- Bl Bleached
- C> Carbonaceous
- Cb Carbonatization
- Ch Chloritization
- Ep Epidotization
- F> Iron Carbonatization
- He Hematization
- K> Potassic Alteration
- Ka Kaolinitization
- Rs Rust Stained
- Se Sericitization
- Sl Silicification
- Sr Serpentinization
- Tc Talc-Carbonatization
- Tk Talc

4. Textural/Structural MODIFIERS

- | | | | |
|-----|---------------------------|----|------------------------------|
| *a | Tuff (67% <2mm) | *n | Graded Bedding |
| *b | Lapilli Tuff (2-64mm) | *o | Cross bedding |
| *c | Lapillistone (76% <264mm) | *p | Fault Gouge |
| *ct | Cataclastic | *q | Augen |
| *d | Block (>64mm)/Xenolith | *r | Porphyroblastic |
| *e | Autoclastic/Hyaloclastic | *s | Hornfels |
| *f | Thickly Laminated | *t | foliated/sheared |
| *g | Thinly Laminated | *u | folded |
| *h | Clast Supported | *v | boudinage |
| *i | Matrix Supported | *w | fragmental (felsic>mafic) |
| *j | Granule (grit 2-4mm) | *x | fragmental (mafic>felsic) |
| *k | Pebble (4-64mm) | *y | Crystal Tuff (>50% of frags) |
| *l | Cobble (64-256mm) | *z | Lithic Tuff (>50% of frags) |
| *m | Boulder (>256) | | |

ALTERATION CODES

- | FORM | |
|----------|--------------------------|
| S | Spots |
| F | Fracture/vein controlled |
| P | Pervasive |
| STRENGTH | |
| S | Strong |
| M | Moderate |
| W | Weak |

Example: EpPW = Epidote,Pervasive,Weak

MINERALIZATION CODES

- | FORM | |
|------|--------------------------|
| D | Disseminated/Blebs |
| F | Fracture/vein controlled |
| M | Massive |
| B | Bedded |
| C | Clasts/Fragments |

Example: CpB3% = Chalcopyrite, Bedded, 3%

PERCENTAGE

Numeric percentage, or percentage range (i.e. 1-3%), must always be specified

5. MINERALOGICAL NAMES

Ak	Actinolite	Fc	Fuchsite	Pn	Pentlandite
Alb	Albite	Gn	Galena	Py	Pyrite
Al	Almandine	Gt	Garnet	Px	Pyroxene
Am	Amphibolite	VG	Gold	Po	Pyrrhotite
Ah	Anhydrite	Gf	Graphite	Qt	Quartz
Ad	Andalusite	GS	Gravel & sand	Ro	Rhodochrosite
Ay	Anthophyllite	Gyp	Gypsum	Ru	Rutile
Ap	Apatite	Hem	Hematite	Sur	Serpentine
Ar	Argentite	Hb	Hornblende	Sc	Sericite
Asp	Arsenopyrite	Hy	Hypersthene	Sh	Scheelite
Asb	Asbestos	Il	Ilmenite	Sid	Siderite
Aug	Augite	I-F	Iron Formation	Sil	Silica
Az	Azurite	Jr	Jarosite	Slm	Silliminite
Ba	Barite	Ky	Kyanite	Sps	Spessarite
bi	Bismuthite	Ls	Limestone	Sph	Sphalerite
Bi	Biotite	Lm	Limonite	Ti	Sphene (Titanite)
Bo	Bornite	Mag	Magnetite	Ag	Silver
Ca	Calcite	Mc	Malachite	Sp	Spinel
Cn	Chalcedony	Ma	Marcasite	Spd	Spodumene
Cc	Chalcocite	Mi	Mica	St	Staurolite
Cp	Chalcopyrite	Mk	Microcline	Sb	Stibnite
Chl	Chlorite	Ml	Millerite	Sul	Sulphides
Ch>	Chloritoid	Mo	Molybdenite	S-M	Mass. Sulphides
Cr	Chromite	Mu	Muscovite	S-D	Diss. Sulphides
Cpx	Clinopyroxene	Ne	Nepheline	Tk	Talc
Co	Cobalt Minerals	Nc	Niccolite	Te	Telluride
Cv	Covellite	Ni	Nickel minerals	Tt	Tetrahedrite
Ct	Cordierite	Ov	Olivine	Ta-CI	Tantalite-Columbite
Dp	Diopside	Or	Orthoclase	Tl	Tourmaline
Dol	Dolomite	Opx	Orthopyroxene	Tr	Tremolite
Epi	Epidote	Pl	Phlogopite	Wo	Wollastonite
Fel	Feldspar	Pg	Plagioclase	Zr	Zircon
Fl	Fluorite				

6. ROCK TYPE / PROTOLITH




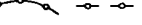
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<QTZ>	Quartzite	<SER>	Serpentinite	<SLA>	Slate
<MAR>	Marble	<DUN>	Dunite	<KIM>	Kimberlite
<SKA>	Skam(Calc-Silicate)	<PRX>	Pyroxenite	<CAR>	Carbonatite
<PHY>	Phyllite	<LMP>	Lamprophyre	<AMP>	Amphibolite
<TON>	Tonalite	<SST>	Sandstone	<MIG>	Migmatite
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<GRA>	Granite	<WCK>	Graywacke	<LEU>	Leucocratic
<MON>	Monzonite	<CGL>	Conglomerate	<MEL>	Melanocratic
<GRD>	Granodiorite	<SLT>	Siltstone	<UNK>	Unknown Protolith
<APL>	Aplite	<ARG>	Mudstone-argillite	<UMF>	Ultramafic
<FEL>	Felsite	<EXH>	Chert/exhalite	<MAF>	Mafic
<QDI>	Quartz Diorite	<QIF>	Silicate IF	<AND>	Andesite
<GAB>	Gabbro	<OIF>	Oxide IF	<DAC>	Dacite
<NOR>	Norite	<SIF>	Sulphide IF	<RYD>	Rhyodacite
<ANT>	Anorthosite	<CIF>	Carbonate IF	<RHY>	Rhyolite
<DIO>	Diorite	<SHA>	Shale	<SCL>	Sulphide Clasts
		<LST>	Limestone	<RWW>	Reworked Volcanic Debris

7. HURONIAN SUPERGROUP

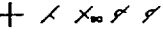

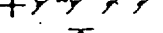
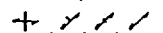

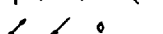




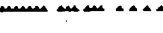


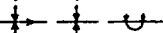
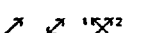



BR	Bar River Formation	
GL	Gordon Lake Formation	Cobalt Group
LR	Lorrain Formation	
GW	Gowganda Formation	
SP	Serpent Formation	
ES	Espanola Formation	Quirke Lake Group
BC	Bruce Formation	
MS	Mississagi Formation	
PC	Pecors Formation	Hough Lake Group
RL	Ramsey Lake Formation	
MK	McKim Formation	Elliot Lake Group
MT	Matinenda Formation	

Symbols










CONTACTS

-  Outcrop (small, observed, inferred, boulder/float)
-  Geological Boundary (observed, approximate, assumed)
-  Geological Boundary (gradational, geophysically inferred)
-  Flow Contact (defined, approximate)





















MEASUREMENTS

-  Bedding with tops known (horizontal, inclined, vertical, overturned, dip unknown)
-  Bedding with tops unknown (inclined, vertical, dip unknown)
-  Pillow top (horizontal, inclined, vertical, overturned, dip unknown)
-  Spinifex top
-  Schistosity, gneissosity, cleavage or foliation (horizontal, inclined, vertical, dip unknown) (No. of licks = generation - S1, S2, S3)
-  Jointing (horizontal, inclined, vertical, dip unknown)
-  Lineation (horizontal, inclined, vertical)
-  Folding - defined folds (S fold, Z fold, multiple S, multiple Z)
-  Folding - undetermined type
-  Fault (defined, approximate, assumed) (inclined, vertical, movement w/circle on downthrow side)
-  Fault (Geophysically inferred, Lineament inferred)
-  Thrust Fault (defined, approximate, assumed) (teeth indicate upthrust side)
-  Shear zone
-  Dyke, vein (defined, approximate, assumed)
-  Anticline, Antiform (with or without plunge, overturned)
-  Syncline, Synform (with or without plunge, overturned)
-  Glacial striae (ice movement known, unknown) (numbers indicate relative age)
-  Limit of Geological Mapping

PHYSICAL WORK










-  Mineral Occurrence
-  Trench (1:20,000 +, 1:5,000 -)
-  Diamond Drill Hole (collar surveyed, collar located, collar unlocated)
-  Overburden Drill Hole
-  Mine, quarry or glory hole (active, abandoned)
-  Shaft (vertical, inclined, raise, winze)
-  Adit, Ramp
-  Rock Dump, Tailings
-  Gravel Pit (active, abandoned)

CULTURAL AND PHYSIOGRAPHIC FEATURES







-  All weather road (paved, gravel)
-  Four wheel drive road
-  Track
-  Trail
-  Buildings
-  Campsite
-  Power Line (major line, regular line)
-  Telephone Line (usable, unusable)
-  Railroad Track
-  Tower
-  Bridge
-  River (open, rapids)
-  Intermittent Stream
-  Lake
-  Swamp
-  Esker
-  Claim Post (OLS surveyed, inspected survey, located, unlocated, witness, in water)
-  Grids (current grid, old grid)
-  Survey Pin (located, unlocated)
-  Lot/Concession Corner Pin (located, government, defined)

Geophysics








GROUND

-  UNIDENTIFIED EM SYSTEM
-  HORIZONTAL LOOP (MAX-MIN)
-  VERTICAL LOOP
-  VERY LOW FREQUENCY
-  JUNIOR CRONE UNIT
-  HORIZONTAL LOOP (PULSE EM)
-  TURAM
-  INDUCED POLARIZATION (CONDUCTIVITY, RESISTIVITY)
-  IP - DEFINITE, PROBABLE, POSSIBLE

AIRBORNE










-  1-2 CHANNEL (350, 450 MICROSECONDS)
-  3-4 CHANNEL (550, 670 MICROSECONDS)
-  5-6 CHANNEL (790, 910 MICROSECONDS)
-  7-8 CHANNEL (1050, 1190 MICROSECONDS)
-  9-10 CHANNEL (1350, 1510 MICROSECONDS)
-  11-12 CHANNEL (1680, 1870 MICROSECONDS)

DECARLE INTERPRETATION

-  WELL DEFINED CONDUCTOR AXIS
-  POORLY DEFINED CONDUCTOR AXIS
-  UNCERTAIN CONDUCTOR AXIS
-  WIDE CONDUCTIVE ZONE
-  AEM CONDUCTOR AXIS
-  AIRBORNE VERY LOW FREQUENCY
-  SPARTAN AERO SYSTEM








DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENTS







-  PATENT, SURFACE & MINING RIGHTS
-  PATENT, SURFACE RIGHTS ONLY
-  PATENT, MINING RIGHTS ONLY
-  LEASE, SURFACE & MINING RIGHTS
-  LEASE, SURFACE RIGHTS ONLY
-  LEASE, MINING RIGHTS ONLY
-  LICENCE OF OCCUPATION
-  ORDER-IN-COUNCIL
-  RESERVATION

PRODUCING MINES

TYPE OF DOCUMENTS

-  CANCELLED
-  SAND & GRAVEL, PIT, QUARRY
-  CROWN LAND SALE
-  LOCATED LAND
-  REMOTE TOURIST SETUP
-  SURFACE AND/OR MINING RIGHTS WITHDRAWN FROM STAKING
-  SUBJECT TO FOREST ACTIVITIES

NOTE: 400' SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS

-  FALCONBRIDGE LIMITED 100 %
-  FALCONBRIDGE LIMITED AND JOINT VENTURE OPTIONS
-  FALCONBRIDGE LIMITED LEASE
-  OTHER COMPANIES 100 %
-  OTHER COMPANIES AND JOINT VENTURE OPTIONS
-  OTHER COMPANIES LEASE



Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

6W-1482-RG1

Company: **FALCONBRIDGE LTD (EXPLORATION)**


Date: APR-24-96

Project: **8226 EXPL 5142 2104**

Attn: **M. Collison**

We hereby certify the following Geochemical Analysis of 41 Core samples submitted APR-18-96 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AT04360	<2	16	117	3	0.1	3
AT04361	<2	39	157	7	0.2	2
AT04362	3	24	189	5	0.1	3
AT04363	<2	29	122	1	0.1	2
AT04364	3	21	159	8	0.1	3
AT04365	7	23	136	3	0.1	4
AT04366	<2	22	132	2	0.1	3
AT04367	7	26	183	5	0.2	3
AT04368	<2	23	271	2	0.1	6
AT04369	<2	21	490	1	0.1	4
AT04370	<2	18	290	1	0.1	9
AT04371	<2	16	195	1	0.1	4
AT04372	7	25	179	2	0.1	3
AT04373	10	20	144	1	0.1	6
AT04374	3	14	169	1	0.1	5
AT04375	7	13	108	3	0.1	4
AT04376	<2	11	86	1	0.1	3
AT04377	<2	14	111	1	0.1	3
AT04378	7	19	279	1	0.1	7
AT04379	<2	20	240	1	0.1	2
AT04380 Control	3	13	131	16	0.3	7
AT04381	3	28	59	33	0.1	10
AT04382	7	32	50	28	0.2	3
AT04383	<2	49	191	2	0.2	13
AT04384	<2	50	529	1	0.1	13
AT04385	<2	72	208	2	0.1	9
AT04386	<2	57	81	5	0.1	6
AT04387	3	27	468	52	0.2	6
AT04388	<2	20	132	10	0.1	3
AT04389	<2	17	130	2	0.1	2

Certified by 

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Established 1928

Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

6W-1482-RG1

Company: **FALCONBRIDGE LTD (EXPLORATION)**

Date: APR-24-96

Project: 8226 EXPL 3142 1/4

Attn: M. Collison

We hereby certify the following Geochemical Analysis of 41 Core samples submitted APR-18-96 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AT04390	3	24	123	21	0.1	4
AT04391	<2	20	88	1	0.1	2
AT04392	<2	15	110	2	0.1	2
AT04393	<2	18	139	3	0.3	2
AT04394	<2	20	98	4	0.2	3
AT04395	3	11	134	5	0.1	5
AT04396	7	19	131	3	0.2	2
AT04397	24	21	169	5	0.1	4
AT04398	10	79	118	1	0.1	30
AT04399	<2	35	140	1	0.1	19
AT04400	7	37	251	2	0.2	21

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0.

Telephone (705) 642-3244

FAX (705) 642-3300



Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

6W-1483-RG1

Company: **FALCONBRIDGE LTD (EXPLORATION)**

Date: APR-24-96

Project: 8226 EXPL 8192 2/6/96

Attn: M. Collison

We hereby certify the following Geochemical Analysis of 54 Core samples submitted APR-18-96 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AT05001	3	42	128	2	0.3	25
AT05002	7	35	139	1	0.2	20
AT05003	<2	310	350	8	0.2	6
AT05004	10	843	194	2	0.3	3
AT05005	7	1290	136	1	0.4	4
AT05006	14	5220	160	5	2.9	4
AT05007	<2	138	1390	1	0.2	6
AT05008	3	163	852	1	0.2	6
AT05009	<2	216	495	1	0.2	4
AT05010	<2	127	573	1	0.2	4
AT05011	<2	128	2090	1	0.2	7
AT05012	7	117	952	4	0.2	8
AT05013	<2	71	2860	2	0.1	5
AT05014	3	124	153	2	0.1	5
AT05015	7	562	151	1	0.2	6
AT05016	<2	45	325	1	0.1	4
AT05017	3	661	188	6	0.3	7
AT05018	<2	229	152	10	0.2	9
AT05019	<2	60	871	2	0.1	4
AT05020	<2	195	2940	3	0.2	10
AT05021	10	186	1750	6	0.2	12
AT05022	7	97	1570	4	0.2	6
AT05023	3	66	1460	2	0.2	4
AT05024	<2	38	604	3	0.1	7
AT05025	7	90	1290	4	0.2	3
AT05026	3	119	580	3	0.2	4
AT05027	<2	157	462	5	0.2	7
AT05028	3	144	772	8	0.2	11
AT05029	<2	129	4920	9	0.3	4
AT05030 Control	3	14	120	12	0.3	7

Certified by 



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

Geochemical Analysis Certificate

6W-1483-RG1

Company: **FALCONBRIDGE LTD (EXPLORATION)**

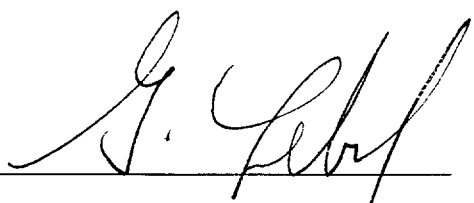
Date: APR-24-96

Project: 8226 EXPL 2147 1.6/1

Attn: M. Collison

We hereby certify the following Geochemical Analysis of 54 Core samples submitted APR-18-96 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AT05031	3	133	98	1	0.3	5
AT05032	21	448	412	37	2.5	8
AT05033	<2	55	183	15	0.4	7
AT05034	7	31	439	11	0.3	7
AT05035	<2	16	207	33	0.1	7
AT05036	3	22	809	32	0.1	10
AT05037	7	19	545	21	0.1	6
AT05038	<2	18	164	10	0.1	8
AT05039	3	24	333	25	0.2	5
AT05040	3	17	897	112	0.3	6
AT05041	10	12	152	16	0.2	7
AT05042	7	14	602	115	0.5	9
AT05043	<2	30	353	13	0.3	10
AT05044	3	23	321	44	0.3	6
AT05045	7	27	146	23	0.3	6
AT05046	3	28	421	10	0.3	8
AT05047	<2	21	143	9	0.4	5
AT05048	14	18	292	48	0.4	8
AT05049	7	20	400	184	0.7	7
AT05050	<2	16	160	13	0.2	5
AT05051	<2	28	679	6	0.2	6
AT05052	3	83	887	4	0.4	7
AT05053	<2	205	375	3	1.1	5
AT05054	3	50	223	1	0.2	9

Certified by 



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Page 1 of 2

Geochemical Analysis Certificate

6W-1517-RG1

Company: **FALCONBRIDGE LTD (EXPLORATION)**

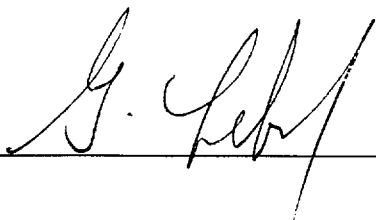
Date: APR-26-96

Project: 8142 EXPL

Attn: M. Collison

We hereby certify the following Geochemical Analysis of 37 Core samples submitted APR-22-96 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM	Zn %
AT05055	7	473	1090	3	0.3	13	-
AT05056	<	2090	822	1	1.1	8	-
AT05057	<	2300	608	11	1.7	5	-
AT05058	<	355	432	5	0.3	5	-
AT05059	3	311	153	5	0.3	6	-
AT05060	7	276	216	3	0.3	6	-
AT05061	10	258	4220	3	0.4	6	-
AT05062	14	297	9220	4	0.4	7	-
AT05063	7	252	8740	7	0.6	7	-
AT05064	3	42	1360	32	0.3	6	-
AT05065	7	55	927	78	0.5	5	-
AT05066	3	34	308	54	0.4	7	-
AT05067	14	15	97	21	0.5	5	-
AT05068	7	18	131	7	0.5	6	-
AT05069	<	37	206	8	0.8	8	-
AT05070	<	25	353	8	0.6	5	-
AT05071	<	21	203	4	0.2	6	-
AT05072	<	40	727	6	0.3	5	-
AT05073	41	330	5230	62	2.4	11	-
AT05074	27	300	9820	57	3.3	5	-
AT05075	17	81	2900	530	1.3	5	-
AT05076	<	13	820	64	0.2	4	-
AT05077	<	17	813	110	0.3	4	-
AT05078	3	20	3520	84	0.3	4	-
AT05079	<	15	4310	57	0.3	5	-
AT05080	3	15	4180	93	0.3	4	-
AT05081	<	29	6680	84	0.4	4	-
AT05082	<	13	355	37	0.2	4	-
AT05083	<	64	785	20	0.6	4	-
AT05084	<	28	605	18	0.5	5	-

Certified by 

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

Geochemical Analysis Certificate

6W-1517-RG1

Company: **FALCONBRIDGE LTD (EXPLORATION)**

Date: APR-26-96

Project: 8142 EXPL

Attn: M. Collison

We hereby certify the following Geochemical Analysis of 37 Core samples submitted APR-22-96 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM	Zn %
AT05085	7	68	986	31	0.9	6	-
AT05086	7	81	1480	40	1.6	4	-
AT05087	10	109	2660	128	3.1	6	-
AT05088	21	457	>20000	184	13.1	6	2.54
AT05089	<2	29	874	167	0.9	5	-
AT05090	17	13	661	128	0.4	3	-
AT05091 Control	3	12	119	14	0.3	7	-

Certified by _____

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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) <i>W. 9760-00191</i>
Assessment Files Research Imaging

Personal information collected under the
Mining Act, the information is for
Questions about this collection
933 Ramsey Lake Road, Sudbury



42A12SE0028 2.17499 ROBB

of the Mining Act. Under section 8 of the
d correspond with the mining land holder.
rn 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.

2.17499

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

Name <i>FALCONBRIDGE LIMITED</i>	Client Number <i>130679</i>
Address <i>P.O. BOX 1140, 571 MONETA AVE TIMMINS, ONTARIO P4N</i>	Telephone Number <i>(705) 267-1188</i>
	Fax Number <i>(705) 264-6080</i>
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.

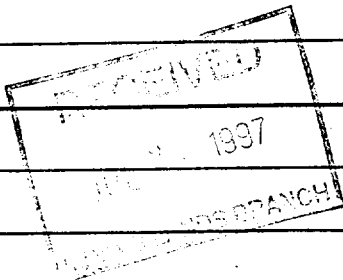
Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation

Work Type <i>DIAMOND DRILLING & ASSAYS</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>\$ 37,143</i>
Dates Work Performed From <i>30 03 96</i> To <i>21 04 96</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area <i>ROBB</i>	Resident Geologist District <i>Timmins</i>
M or G-Plan Number <i>M-0309</i>	

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 <i>MIKE COLLISON</i>	Telephone Number <i>(705) 267-1188</i>
Address <i>P.O. BOX 1140, 571 MONETA AVE, TIMMINS, ONT. P4N 7H9</i>	Fax Number <i>(705) 264-6080</i>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



4. Certification by Recorded Holder or Agent

I, MIKE COLLISON (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 <i>[Signature]</i>	Date <i>10 MAR 97</i>
Agent's Address <i>571 MONETA AVE, TIMMINS, ONT. P4N 7H9</i>	Telephone Number <i>(705) 267-1188</i>
	Fax Number <i>(705) 264-6080</i>

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) the mining land where work was performed, at the time work was performed. A map showing the contiguous line 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 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 SEE	ATTACHED	SHEETS			
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals					

217499

I, MIKE COLLISON (Print Full Name) do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 696 for assignment to contiguous claims or for application to the claim where the work was done.

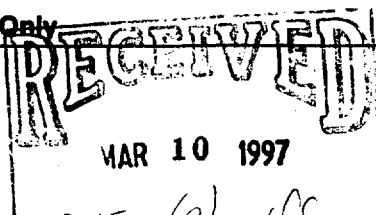
Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: 10 MAR 97

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 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):

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 	Deemed Approved Date <u>JUNE 8/97</u>	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

W. 976A. 00191

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.	
1	997530	1	\$17,862	\$0	\$12,000	\$5,862
2	1190169	1	\$19,881	\$800	\$18,800	\$281
3	969270	1		\$400		
4	997524	1		\$400		
5	997526	1		\$400		
6	997527	1		\$400		
7	997528	1		\$400		
8	997531	1		\$400		
9	997532	1		\$400		
10	997533	1		\$400		
11	997534	1		\$400		
12	997535	1		\$400		
13	997536	1		\$400		
14	997537	1		\$400		
15	997538	1		\$400		
16	997540	1		\$400		
17	997541	1		\$400		
18	997542	1		\$400		
19	997543	1		\$400		
20	1189497	1		\$400		
21	1189498	1		\$400		
22	1189499	1		\$400		
23	1189509	1		\$400		
24	1189869	2		\$800		
25	1190101	2		\$800		
26	1190102	2		\$800		
27	1190103	3		\$1,200		
28	1190104	6		\$2,400		
29	1190117	2		\$800		
30	1190118	1		\$400		
31	1190122	1		\$400		
32	1190123	1		\$400		
33	1190130	1		\$400		
34	1190131	1		\$400		
35	1190133	1		\$400		
36	1190134	1		\$400		
37	1190135	1		\$400		
38	1190136	1		\$400		
39	1190137	1		\$400		
40	1190139	1		\$400		
41	1190140	1		\$400		
42	1190144	1		\$400		
43	1190151	2		\$800		
44	1190153	1		\$400		
45	1190154	1		\$400		
46	1190158	1		\$400		
47	1190164	1		\$400		
48	1190168	1		\$400		
49	1190171	1		\$400		
50	1190176	2		\$800		
51	1190177	4		\$1,600		
52	1190183	4		\$1,600		
53	1190192	2		\$800		
54	1190245	1		\$400		
55	1190246	1		\$400		
56	1190248	1		\$400		
57	1190255	1		\$400		
58	1190331	1		\$400		
59	1190332	1		\$400		
Column Totals			\$37,743	\$31,600	\$30,800	\$6,143

2.17499

RECEIVED
MAR 10 1997
245 (a) ll



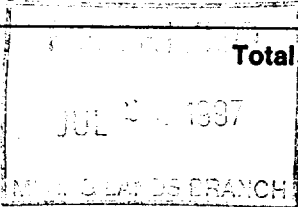
Statement of Costs for Assessment Credit

Transaction Number (office use) W19760-00191

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.

Table with 4 columns: Work Type, Units of Work, Cost Per Unit of work, Total Cost. Rows include DIAMOND DRILLING, ASSAYS, SUPERVISION & LOGGING, CORE SAWING, Associated Costs (e.g. supplies, mobilization and demobilization), DRILL MOB, Transportation Costs (TRUCK RENTAL, GAS), Food and Lodging Costs, and Total Value of Assessment Work (37743.29).

2.17499



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 x 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.

Certification verifying costs:

I, MICHAEL COLLISON (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 SENIOR FIELD GEOLOGIST (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

RECEIVED MAR 10 1997 @3:45 (c) WC

Signature [Signature] Date [Date]

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 7, 1997

Mike Collison
FALCONBRIDGE LIMITED
P. O. BOX 1140
571 MONETA AVE
TIMMINS, ONTARIO
P4N 7H9

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

Dear Sir or Madam:

Submission Number: 2.17499

Status

Subject: Transaction Number(s): W9760.00191 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 Lucille Jerome by e-mail at jerome_l@torv05.ndm.gov.on.ca or by telephone at (705) 670-5858.

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: 2.17499

Date Correspondence Sent: August 07, 1997

Assessor: Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00191	997530	ROBB	Deemed Approval	June 08, 1997

Section:
10 Physical PDRILL

Correspondence to:
Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Mike Collison
FALCONBRIDGE LIMITED
TIMMINS, ONTARIO

RECEIVED
JUL 9 1997
MINING LANDS BRANCH

2.17499

3968

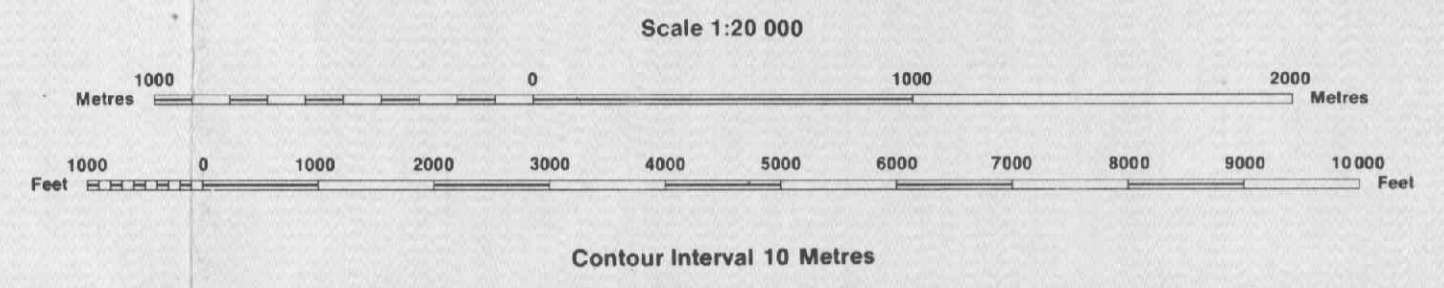
Ministry of Natural Resources
Ontario
Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3968
TOWNSHIP
ROBB

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

ISSUED
JUN 9 1997
PORCUPINE MINING DIVISION



AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
M.N.R. RESERVE				

SYMBOLS

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

DISPOSITION OF CROWN LANDS

Patent	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Lease	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Licence of Occupation	.....
Order-in-Council	.....
Cancelled	.....
Reservation	.....
Sand & Gravel	.....

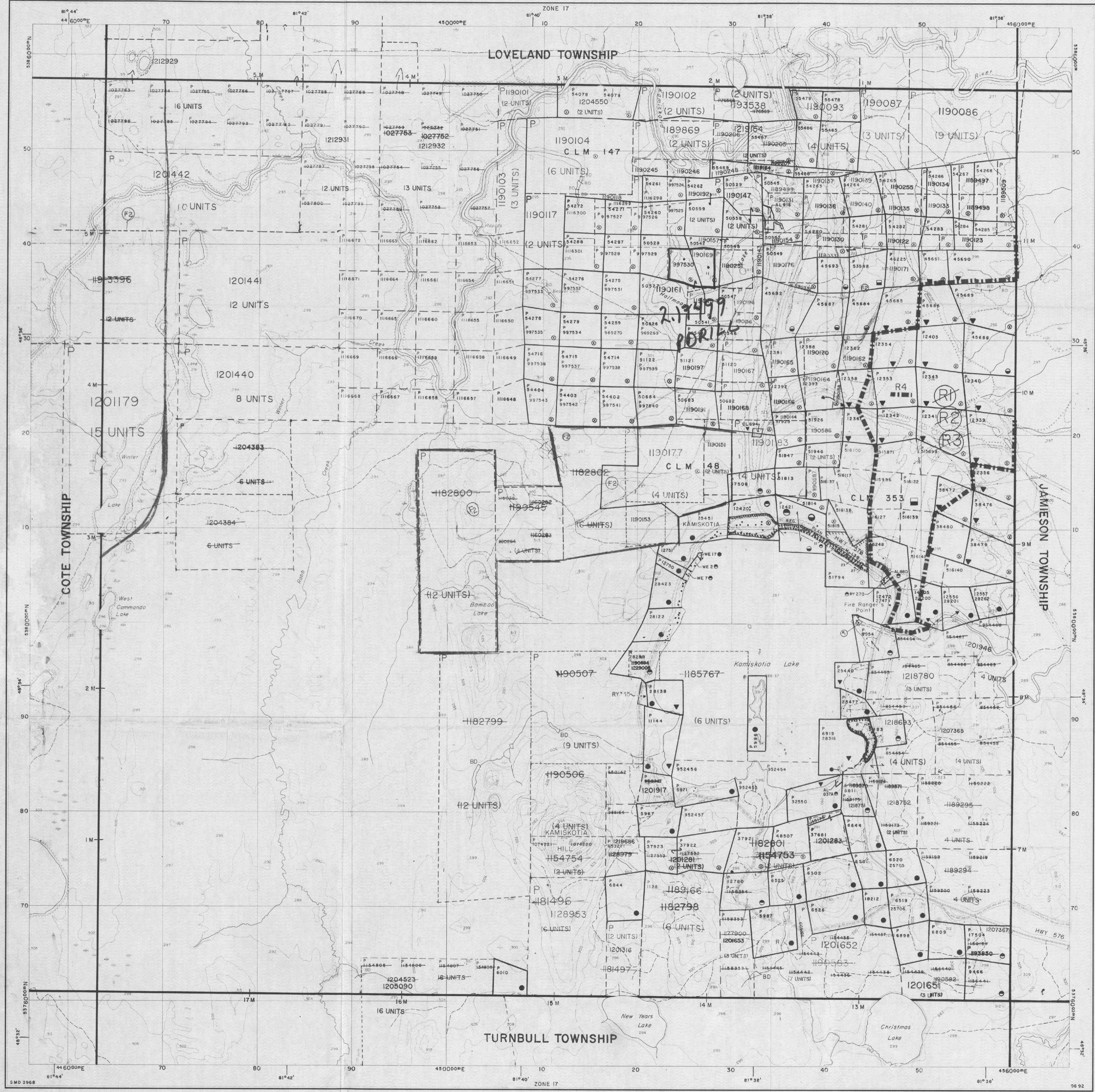
MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 35 OF THE MINING ACT, R.S.O. 1990
ORDER NO. W.P. 6/97 NER DATED APR. 28/97

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.

ACTIVATED AUGUST 13, 1997
BY D.C.
CHECKED BY G.W.

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

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



ROBB TWP

G-3968