

FALCONBRIDGE LIMITED  
DRILL HOLE RECORD

HOLE NUMBER: CARN12-03

DATE: 02/24/2000

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: KIDD-HBED JV	PLOTTING COORDS GRID: UTM	ALTERNATE COORDS GRID: Carn12-03	COLLAR DIP: -50° 0' 0"
PROJECT NUMBER: 430	NORTH: 5395732.00N	NORTH: 88+60N	LENGTH OF THE HOLE: 281.00M
CLAIM NUMBER: P1226368	EAST: 467603.00E	EAST: 39+ 0E	START DEPTH: 0.00M
LOCATION: Carnegie Twp	ELEV: 3320.00	ELEV: 0.00	FINAL DEPTH: 281.00M

COLLAR ASTRONOMIC AZIMUTH: 180° 0' 0"

GRID ASTRONOMIC AZIMUTH: 180° 0' 0"

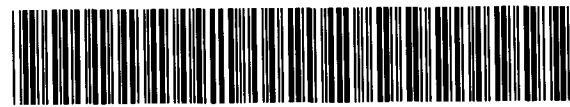
DATE STARTED: 02/24/1999	COLLAR SURVEY: YES	PULSE EM SURVEY: YES	CONTRACTOR: Bradley Bros.
DATE COMPLETED: 02/27/1999	RQD LOG: NO	PLUGGED: NO	CASING: 46m
DATE LOGGED: 03/29/1999	HOLE MAKES WATER: NO	HOLE SIZE: BQ	CORE STORAGE: Kidd Creek Minesite
			UTM COORD.:

COMMENTS : Conductor: Graphite in rhyolite and mafics  
WEDGES AT:

DIRECTIONAL DATA: Sperry Sun tests every 60m

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
56.00	182° 0' 0"	-51° 0' 0"	S	OK		-	-	-	-	-	
116.00	187° 0' 0"	-50° 0' 0"	S	OK		-	-	-	-	-	
176.00	190° 0' 0"	-49° 0' 0"	S	OK		-	-	-	-	-	
248.00	194° 0' 0"	-40° 0' 0"	S	OK		-	-	-	-	-	
281.00	199° 0' 0"	-39° 0' 0"	S	OK		-	-	-	-	-	
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2.20126



David Richardson

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 46.00	< ob >	Casing 46m NQ casing left in hole				Casing left in hole
46.00 TO 74.40	<2ap> Pillowed Mafic Volcanic	Pillowed Mafic Volcanic -Medium-Light green-grey -Moderate to strong bleaching by pervasive carbonate and possible trace sericite giving rock a slight grey tinge -Fine grained -Selvages are 2-10cm wide with fine chlorite and Pyrrhotite in selvages and strongly bleached selvage margins -Non magnetic in areas containing no Pyrrhotite. Magnetic suceptibility measured at 0.30-2.5 (depending on Pyrrhotite content) Weak schistosity < S2 52° > 73.9-74.4 cherty sediment Lower contact sharp at 60 degrees TCA. Intrusive unit cuts gradation from mafic flow to cherty sediment to felsic fragmental		Moderate to strong pervasive carbonate alteration mixed with possible trace sericite giving rock a bleached look. Intensity of bleaching decreases downhole Moderate to strong quartz-carbonate veining Minor veins of white mineral that does not react with HCL possibly albite alteration Moderate pervasive chlorite, Intensity of chlorite alteration increases downhole as bleaching decreases	1-2% Pyrrhotite concentrated as 1-10mm blebs in selvages but also as 1mm disseminated blebs in massive mafic rock Trace Pyrite blebs primarily concentrated in selvages	Magnetic Suceptibility measured with Exploranium KT-5
74.40 TO 84.70	<8m> Inter-mediate Intrusive	Intermediate Intrusive -Medium grey -Fine grained with 5% disseminated 1mm plagioclase phenocrysts -Non magnetic. Suceptibility measured at 0.11 -Massive. No textures evident -Moderately hard Schistosity not readily apparent but there is a regular fracture pattern at 65 and 40 degrees TCA Lower contact sharp but irregular trending 40 degrees TCA		Weak pervasive silicification Minor chloritic fractures	Trace (approx 0.5%) Pyrite in fractures and smeared on fracture planes and also disseminated 1mm grains Trace (<0.4%) disseminated 1mm Pyrrhotite blebs	
84.70 TO 87.70	<4f> Felsic Fragmental	Felsic Fragmental -Medium green Clast composition is as follows -60% 1-30mm round silicified felsic fragments -5% 2-10cm wide mafic fragments		Moderate pervasive sericite alteration Strong silicification in rhyolite fragments	84.7-85.1 4% disseminated 1mm wide stringer Pyrrhotite. 1% Pyrite cubes and 1mm wide beds 85.1-85.3 trace (<0.5%) Sphalerite	Trace Sphalerite stringers noted. Check assays Tops are indicated in an uphole direction from grading relationships

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>-30% fine sericitic and siliceous matrix</p> <p>-Vague coarsening of fragmental downhole indicating tops are uphole</p> <p>-Non magnetic. Suceptibility measured at 0.08</p> <p>Vague schistosity « S2 60° »</p> <p>84.7-85.1 tuffaceous section vague bedding 40 degrees TCA 1-10mm wide chert/felsic beds. Finer section.</p> <p>85.1-85.3 Semi-Massive (25-30%) Pyrite weakly bedded 3-30mm wide beds 40 degrees TCA with a sericitic rhyolite matrix</p> <p>85.3-87.7 Vague coarsening of rhyolite fragmental downhole</p> <p>Lower contact bleached irregular margin of mafic volcanic</p>			<p>stringers, 25-30% vaguely bedded Pyrite 1-30mm wide beds. &lt;0.1% Pyrrhotite.</p> <p>85.3-87.7 1-2% disseminated 1mm Pyrrhotite blebs. Trace disseminated Pyrite blebs</p>	(fining uphole) within felsic fragmental
87.70 TO 100.90	«2ap» Pillowed Mafic Volcanic	<p>Pillowed Mafic Volcanic</p> <p>-Medium green</p> <p>-Fine grained</p> <p>-Selvages are 2-20cm wide and have carbonate, Pyrrhotite, and chloritic interiors</p> <p>-Magnetic due to Pyrrhotite. Suceptibility measured between 0.79-6.00</p> <p>Weak schistosity « S2 60° »</p>		<p>Moderate to strong fracture (1-2mm wide) and vein controlled quartz-carbonate alteration (10-12% of unit is cut by quartz-carbonate). Bulk of Sphalerite mineralization is associated with quartz-carbonate</p> <p>Moderate pervasive chlorite</p>	<p>87.7-93.0 Trace (&lt;.5%) Sphalerite stringers isolated within mafic rock and mixed with Pyrrhotite and Pyrite stringers. 2-3% Pyrrhotite stringers in predominatley within selvages. 1% 1-30mm Pyrite blebs</p> <p>93.0-100.9 5-6% Pyrite stringers with 1-2% Pyrrhotite within selvages</p> <p>Lower contact irregular at 40 degrees TCA</p>	Note Sphalterite stringers
100.90 TO 108.80	«7cm» Mafic Intrusive	<p>Mafic Intrusive</p> <p>-Dark green</p> <p>-Fine to coarse grained with 20cm fine chilled margins at either contact and a medium grained interior with 1-3mm plagioclase, and hornblende or chloritized pyroxenes</p> <p>-Massive</p> <p>-Non magnetic. Suceptibility measured at 0.23-0.29</p>		<p>Strong pervasive chlorite alteration</p> <p>Minor quartz-carbonate veining generally oriented parallel to schistosity</p>	<p>Trace (&lt;0.5%) disseminated &lt;1mm Pyrite cubes and 1-3mm wide Pyrite filled fractures</p>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
108.80 TO 123.00	<2ap> Pillowed Mafic Volcanic	Weak schistosity <S2 55°>  Lower contact sharp at 45 degrees TCA  Pillowed Mafic Volcanic -Medium-light green -Fine grained -Massive -Selvages are vague and may be filled/obscured by quartz-carbonate veining -Magnetic due to Pyrrhotite. Suceptibility measured at 0.75-14.0  Weak schistosity <S2 55°>  118.4-123.0 zones of graphitic argillite intermixed with insitu-brecciated mafic volcanic. Insitu breccia matrix filled with carbonate and graphite  Lower contact sharp at 45 degrees TCA		Trace pervasive sericite  Moderate quartz-carbonate veining with approximately 5% of unit cut by quartz-carbonate veins	108.8-116.0 3-5% Pyrrhotite blebs and stringers 1-10mm wide. 1% disseminated 1mm Pyrite cubes  116.0-123.0 1-2% disseminated Pyrrhotite blebs and stringers. 1% disseminated 1-4mm Pyrite cubes and stringers	
123.00 TO 133.85	<5g> Graphitic Argillite	Graphitic Argillite -Dark black -Fine grained -Bedded at 35 to 50 degrees TCA with 1-10mm black and grey argillite beds intermixed with carbonate beds -Strongly conductive -Nodular Pyrite (concentrically laminated) -Non magnetic. Suceptibility measured at 0.02-0.03  Strong schistosity <S2 40°> Lineations have 10 degree rake on plane of schistosity    123.9-124.4   <FAI> broken core   132.0-132.1   <FAI> moderate to strong fault with 10cm gouge trending 50 degrees TCA  Lower contact sharp at 45 degrees TCA. Graphite beds are intercollated in the next unit		Moderate quartz-carbonate veining as veins and possibly replaced beds	4-5% 4-15mm nodules of Pyrite and 1-15mm Pyrite blebs elongated parallel to schistosity and bedding	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
133.85 TO 181.00	*3f* Hetero-lithic Fragmental	(heterolithic fragmental) Heterolithic Fragmental -Medium green with minor white felsic fragments  Clast composition is as follows: -30% fine 0.2-3.0cm mafic fragments -20% medium grained 0.2-3.0cm diorite fragments with 1mm leucoxenes -20% subrounded 0.2-3.0cm bleached mafic fragments -2% 0.2-4.0cm siliceous and glassy rhyolite fragments -<1% 0.1-2.0 cm argillite fragments decreasing in percentage downhole -<1% 0.2-3.0 cm round Pyrrhotite fragments -30% fine mafic/chloritic matrix with local 1mm leucoxenes  -Non magnetic. Suceptibility measured at 0.37-0.60 -Grading not distinct but upper contact is fine and interbedded with graphitic argillite  Vague schistosity *{S2 50°}*  133.85-137.0 interbedded 1-2cm wide argillite beds and 10-20cm sections of heterolithic fragmental. Heterolithic fragmental is slightly finer towards upper contact with an increasing percentage of mafic matrix and interbedded argillite towards the upper contact.  147.2 possible 3cm wide Pyrrhotite clast with 1mm bleb of Chalcopyrite exsollution, next to rhyolite fragment  156.2-156.7 quartz vein with trace sericite and chlorite  158.0 two sericitic felsic fragments  179.2-180.5 massive mafic intrusive (near lower contact) with chilled margins and 1mm feldspar and hornblende grains		Strong pervasive chlorite alteration in the matrix and mafic fragments  Minor quartz-carbonate veining 0.1-4cm wide. 1-3% of unit.  Siliceous felsic fragments and rare sericitic felsic fragments	Trace to 0.5% 0.2-3.0 cm round Pyrrhotite fragments and disseminated blebs  147.2 and 152.5 1mm blebs of Chalcopyrite in Pyrrhotite fragment as exsollution	Weak indication of tops uphole from grading near uphole contact

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>Fine mafic matrix increases in abundance towards lower contact and fragments become more monolithic as abundance of fine mafic fragments increases. Slight hyaloclastitic or autobreccia look to unit towards contact with massive mafic volcanic.</p> <p>Lower contact hyaloclastitic and irregular trending 70 degrees TCA</p>				
181.00 TO 226.85	«2apm» Mafic Volcanic	<p>Mafic Volcanic</p> <p>-Dark green</p> <p>-Fine grained</p> <p>-Massive</p> <p>-Trace (&lt;0.5%) 1-5mm round quartz-carbonate filled amygdules particularly evident from 195.0-200</p> <p>-Vague zones of autobreccia (within 3m of upper contact) with 50% fine mafic matrix and 50% fine angular mafic clasts</p> <p>-Vague wispy fine mafic selvages 2.0-10.0cm</p> <p>-Non magnetic. Suceptibility measured at 0.1-0.12</p> <p>Weak schistosity «S2 50°»</p> <p>Lineations have 20-40 degree rake on plane of schistosity</p> <p>183.9 5cm siliceous felsic fragment within massive mafic unit</p> <p>  186.9-187.0   «FAI» broken core and gouge   188.4-188.6   «FAI» broken core   189.0-189.1   «FAI» broken core   189.4-189.6   «FAI» broken core</p> <p>181.0-195.0 massive mafic volcanic trace-1% disseminated 1-4mm blebs of Pyrrhotite. Trace disseminated 1mm grains of Pyrite</p> <p>195.0-198.0 weakly sericitic (pervasive) mafic volcanic with trace Sphalerite primarily associated with quartz-carbonate veins. 2-3% 1-10mm Pyrrhotite blebs in chloritic fractures</p>		<p>Strong pervasive and fracture controlled chlorite alteration</p> <p>Local zones of sericite alteration outlined in the textures and structures section</p> <p>Minor to moderate quartz-carbonate veining generally 2-30mm wide oriented numerous directions to core axis</p> <p>Weak local pervasive carbonate alteration</p>	<p>See texture and structure section</p> <p>Note trace Sphalerite</p>	<p>Note trace Sphalerite mineralization</p> <p>Portions of unit may be intrusive</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		and trace (<0.5%) disseminated Pyrite. Noticable (moderate) quartz-carbonate veining 3-20mm wide				
		198.0-206.0 massive mafic volcanic with only trace amounts of sulphides. Strong chlorite alteration. Possibly intrusive?				
		206.0-213.8 sericitic mafic volcanic weak to strongly sericitized sections giving rock alternating light green to yellow look. Trace 1-3mm blebs of Sphalerite predominately vein controlled. 4-6% Pyrrhotite stringers in chloritic fractures/veinlets and trace disseminated Pyrite blebs. Lower contact to section sharp and irregular at 20 degrees TCA				
		213.8-218.0 massive mafic volcanic (or possibly intrusive) with strong pervasive carbonate alteration. Grades to mafic fragmental. Trace (<0.1%) 1mm Pyrite grains in chloritic fractures				
		218.0-222.5 mixed amygdaloidal mafic with mafic fragmental. Amygdules are 1-12mm and clasts are vague and wispy 1.0-4.0 cm in 10% fine mafic matrix.				
		225.5-226.85 mafic fragmental with vague wispy 0.1-4.0cm amygdaloidal and massive mafic volcanic fragments in 20-30% fine leucoxene bearing mafic matrix. 0.5 % disseminated Pyrrhotite blebs at upper contact increasing to 4.0% at lower contact. Trace disseminated 1mm Pyrite cubes associated with Pyrrhotite				
		Lower contact irregular and marked by 2cm wide quartz-carbonate vein				
226.85 TO	«4t,2f» Mixed	Mixed Rhyolite Tuff And Mafic Fragmental -Light yellow green rhyolite and medium green mafic fragmental		Strong pervasive sericite in felsic tuff sections	0.5% disseminated 1-2mm Pyrrhotite blebs	Felsic sections may possibly be related to pervasive silicification and sercitization from quartz veining
232.50	Rhyolite Tuff & Mafic Fragmental	-Felsic tuff intervals have <1-2mm rounded grains of quartz (5-7%), sericite (30-50%), and white feldspar (2-3%). -Mafic fragmental sections have 80-85% vague wispy 1.0-3.0cm mafic fragments in 10% fine mafic		Moderate pervasive chlorite in mafic fragmental sections  Moderate quartz-carbonate veining 0.5-10cm wide	Trace (<0.5%) 1mm disseminated Pyrite cubes  231.3 1mm Sphalerite bleb in felsic tuff	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>matrix. Units also contains minor 2-3% 2-4cm long and 2cm wide sericitic, felsic fragments possibly related to quartz veining?, -Non magnetic. Suceptibility measured at 0.08-0.10 for felsic tuff and 0.16-0.24 for mafic fragmental section</p> <p>Weak schistosity « S2 55° »</p> <p>226.85-228.9 sericitic felsic fragmental section</p> <p>228.9-230.9 mafic fragmental section</p> <p>230.9-232.5 sericitic felsic tuff</p> <p>Lower contact vague (gradational?) and marked by quartz veining and silica flooding</p>				
232.50 TO 246.50	«2ap» Mafic Volcanic	<p>Mafic Volcanic -Medium-light green -Fine grained and massive sections intermixed with fragmental and fine bedded sections of mafic sediment -Vague pillows 2-5cm zones of autobrecciated and fragmental mafic -Trace 1-5mm quartz-carbonate filled amygdules -Magnetic due to 1-3mm blebs of Pyrrhotite. Magnetic suceptibility measured at 0.69-1.8</p> <p>Weak schistosity « S2 45-50° »</p> <p>232.5-233.5 autobrecciated mafic volcanic 80-90% 0.1-3.0 cm subangular mafic clasts in 10% fine chloritic matrix grading to massive pillowed mafic volcanic</p> <p>233.5-237.8 massive pillowed mafic volcanic</p> <p>237.8-240.7 mafic fragmental with 60-70% vague subrounded mafic fragments</p> <p>240.7-242.2 fine bedded mafic sediment with 1-10mm wide mafic, sericitic, minor fuchsite, and chert/siliceous beds at 40 degrees TCA</p>		<p>Weak fracture controlled carbonate alteration</p> <p>Weak to strong patchy, pervasive, and bedding controlled silicification</p> <p>Trace ribboney fuchsite</p> <p>Possible trace pervasive sericitic giving mafic a light green colour</p>	<p>2-3% disseminated Pyrrhotite blebs and 0.5% disseminated 1-3mm fracture controlled Pyrite blebs</p> <p>245.1-245.5 20-30% Pyrrhotite blebs and nodules</p>	



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		242.2-246.5 massive pillowed and amygdaloidal mafic volcanic. 20 cm section of fine cherty looking material from 243.4-243.7				
		Lower contact sharp at 40 degrees TCA				
246.50 TO 254.50	«4m» Massive Rhyolite	Massive Rhyolite -Light grey with varying tinges of yellow -Fine grained -Massive and glassy -Ribbony locally variable sericite alteration -1-2% round 1-2mm quartz phenocrysts -2-3% subangular feldspar phenocrysts -Tuffaceous sections outlined below -Magnetic due to Pyrrhotite. Suceptibility measured at 0.13-10.0  Weak schistosity «S2 50°»		Moderate pervasive sericite  Strong pervasive silicification  Trace 2-10mm blebs of light green fuchsite in massive and tuffaceous rhyolite	2-3% Pyrrhotite stringers in rhyolite.  1% disseminated 1-3mm Pyrite cubes and blebs.  Trace (<0.5%) 1-4mm blebs of Sphalerite disseminated in carbonate veins and at mafic dyke contacts	Note Sphalerite in unit
		246.5-249.0 massive quartz-feldspar porphyritic glassy rhyolite				
		249.0-251.35 dark green massive mafic dyke with strong quartz-carbonate veining and strong pervasive chlorite alteration. 2-3% Pyrrhotite stringers				
		251.35-252.8 rhyolite tuff having vague granular appearance with 20-30% 1-4mm rounded ovoid rhyolite and chert lapilli, 5-7% round 1-2mm quartz phenocrysts, moderate pervasive sericite, and weak matrix chlorite alteration				
		252.8-253.2 massive sericitic rhyolite				
		253.2-253.9 massive dark green chloritic mafic dyke				
		253.9-254.5 glassy and sericitic quartz-feldspar porphyritic massive rhyolite				
		Lower contact sharp but wispy trending 50 degrees TCA				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
254.50 TO 257.90	«2ae» Amyg. Mafic Volcanic	Amygdaloidal Mafic Volcanic -Light green -Fine grained -Massive interior with 1.0-30.0cm wispy mafic fragments at either contact having a siliceous (chert or rhyolite) matrix -1-3cm angular quartz filled amygdules  Weak schistosity « S2 50° »    256.0-256.1  « FAI » broken core  Lower contact wispy trending 40 degrees TCA		Weakly bleached by weak pervasive carbonate and trace pervasive sericite	5-6% disseminated Pyrrhotite blebs  254.55 2mm bleb of chalcopyrite as exsollution of Pyrrhotite at	
257.90 TO 260.10	«4m» Massive Rhyolite	Massive Rhyolite -Light grey -Fine grained -Glassy and massive -1-3% vague 1-2mm feldspar phenocrysts -Non magnetic. Suceptibility measured at 0.04-0.09  Weak schistosity « S2 40° »  Lower contact 3cm of broken core		Strong pervasive silicification  Moderate patchy chlorite blebs and stringers  Weak banded sericite (50 degrees TCA) at lower contact	Trace (<0.5%) disseminated 1mm red/brown Sphalerite grains interspersed throughout unit  Trace (<0.5%) disseminated 1-3mm Pyrite and Pyrrhotite grains	Unit could be intermediate or highly silicified mafic
260.10 TO 281.00	«2ae» Amyg. Mafic Volcanic	Amygdaloidal Mafic Volcanic -Fine to medium grained (<=1mm grain size) -Massive medium grained mafic grading to autobrecciated amygdaloidal mafic volcanic at 281.0  Weak schistosity « S2 50° »  260.1-263.5 massive medium grained mafic intrusive. 1mm feldspar and chloritized pyroxenes. Strong pervasive carbonate. Trace disseminated Sphalerite blebs  263.5-265.7 silicified rhyolite lapilli tuff with 20-30% 1-30mm silicified angular lapilli and weak ribbon sericite		Strong pervasive chlorite  262.3-264.5 Strong pervasive carbonate  275.0-281.0 trace pervasive carbonaceous (graphite) alteration giving unit a dark look	Trace (<0.5%) disseminated 1mm Pyrite cubes  Trace (<0.1%) disseminated 1mm Sphalerite blebs  273.6 3mm bleb of chalcopyrite	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		265.7-267.5 autobrecciated mafic volcanic				
		267.5-267.7 silicified rhyolite lapilli tuff				
		267.7-281.0 amygdaloidal mafic volcanic with zones of autobreccia. 1-3mm round quartz-carbonate filled amygdules increase in concentration downhole from trace to 5% at 281.0. Pervasive and matrix controlled chlorite alteration is stronger downhole and trace pervasive carbonaceous (graphite) alteration gives unit a dark look				
		264.5-264.7   «-FAI-» strong fault with gouge trending 50 degrees TCA				
		270.8-271.0   «-FAI-» broken core				
		275.5-275.1   «-FAI-» broken core				
281.00 TO 281.00	E.O.H.					

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	Hg ppb	Sb ppm
AU06069	63.50	65.00	1.50	89	90	2	115.0	17	0									
AU06092	83.50	84.70	1.20	43	62	1	27.0	0	0									
AU06093	84.70	85.00	0.30	94	163	1	86.0	7	0									
AU06094	85.00	85.40	0.40	110	148	42	36.0	14	1									
AU06095	85.40	86.80	1.40	29	83	5	25.0	7	0									
AU06096	86.80	87.70	0.90	12	94	8	17.0	3	0									
AU06097	87.70	89.00	1.30	110	136	7	110.0	10	0									
AU06098	89.00	90.40	1.40	96	148	1	108.0	0	0									
AU06099	90.40	90.70	0.30	105	792	1	100.0	3	0									
AU06100	90.70	91.20	0.50	100	224	1	115.0	0	0									
AU06101	91.20	91.50	0.30	101	286	1	91.0	0	0									
AU06102	91.50	93.00	1.50	94	138	1	113.0	34	0									
AU06103	93.00	94.50	1.50	105	119	1	119.0	7	0									
AU06104	94.50	96.00	1.50	132	117	1	136.0	17	0									
AU06105	96.00	97.50	1.50	113	145	1	125.0	3	0									
AU06106	97.50	99.00	1.50	109	140	2	121.0	0	0									
AU06107	99.00	100.50	1.50	107	139	6	113.0	0	0									
AU06108	120.40	121.90	1.50	98	280	3	86.0	14	0									
AU06109	121.90	123.00	1.10	100	141	2	103.0	0	0									
AU06110	123.00	123.50	0.50	58	398	44	63.0	3	0									
AU06111	123.50	125.00	1.50	91	946	141	70.0	17	0									
AU06112	125.00	126.50	1.50	84	468	32	77.0	38	0									
AU06113	126.50	128.00	1.50	99	473	38	78.0	48	0									
AU06114	128.00	129.50	1.50	120	671	37	97.0	51	0									
AU06115	129.50	131.00	1.50	142	964	48	115.0	45	0									
AU06116	131.00	132.50	1.50	108	554	34	95.0	41	0									
AU06117	132.50	133.85	1.35	124	562	25	90.0	0	0									
AU06118	133.85	135.40	1.55	96	324	6	110.0	10	0									
AU06119	194.30	195.80	1.50	67	97	6	66.0	0	0									
AU06120	195.80	196.20	0.40	77	589	11	63.0	3	0									
AU06121	196.20	197.20	1.00	47	469	5	63.0	0	0									
AU06122	197.20	197.60	0.40	96	3830	46	76.0	10	0									
AU06123	197.60	198.00	0.40	78	190	57	70.0	0	0									
AU06124	198.00	199.50	1.50	43	321	5	54.0	21	0									
AU06125	206.00	206.90	0.90	98	118	1	60.0	14	0									
AU06126	206.90	207.40	0.50	67	69	1	42.0	0	0									
AU06127	207.40	208.40	1.00	85	85	1	49.0	0	0									
AU06128	208.40	209.00	0.60	54	66	1	36.0	14	0									
AU06129	209.00	210.50	1.50	51	116	2	59.0	7	0									
AU06130	210.50	212.00	1.50	63	100	2	71.0	7	0									
AU06131	212.00	213.50	1.50	76	101	3	90.0	0	0									
AU06132	213.50	213.80	0.30	189	345	6	506.0	10	0									
AU06133	230.00	231.20	1.20	54	123	12	49.0	0	0									
AU06134	231.20	231.50	0.30	23	48	3	8.0	3	0									
AU06135	231.50	232.50	1.00	57	50	3	23.0	0	0									
AU06136	240.70	242.20	1.50	113	395	4	926.0	0	0									
AU06137	245.00	246.50	1.50	192	355	10	141.0	17	0									

Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppm	Cu/Zn ppm	Co ppm	Pt ppb	Pd ppb	S ppm	Se ppm	As ppm	Hg ppb	Sb ppm
AU06138	246.50	248.00	1.50	28	25	11	75.0	10	0									
AU06139	248.00	249.00	1.00	21	17	1	71.0	3	0									
AU06140	249.00	250.50	1.50	81	77	1	119.0	0	0									
AU06141	250.50	251.35	0.85	70	101	1	85.0	0	0									
AU06142	251.35	252.50	1.15	19	184	4	81.0	0	0									
AU06143	252.50	253.20	0.70	22	1212	9	46.0	0	0									
AU06144	253.20	253.90	0.70	112	3700	638	71.0	27	0									
AU06145	253.90	254.50	0.60	31	98	20	85.0	7	0									
AU06146	254.50	256.00	1.50	117	157	11	86.0	0	0									
AU06147	256.00	257.00	1.00	103	167	4	108.0	17	0									
AU06148	257.00	257.90	0.90	148	665	370	94.0	0	0									
AU06149	257.90	258.60	0.70	23	268	51	63.0	3	0									
AU06150	258.60	260.10	1.50	34	236	33	77.0	0	0									
AU06151	260.10	261.50	1.40	90	604	219	75.0	14	0									
AU06152	261.50	262.15	0.65	145	491	100	77.0	17	0									
AU06153	262.15	262.40	0.25	101	4690	83	70.0	3	0									
AU06154	262.40	263.90	1.50	91	322	74	69.0	0	0									

HOLE NUMBER : CARN12-03

GEOCHEMICAL ASSAY

DATE: 11/02/2000

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	RB PPM	SR PPM	CO2 %	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM
AU05572	56.00	59.00	3.00																										
AU05573	69.50	72.50	3.00																										
AU05574	80.00	83.00	3.00																										
AU05575	85.60	85.80	0.20																										
AU05592	90.10	90.30	0.20																										
C120301	129.00	132.00	3.00																										
AU05593	152.00	155.00	3.00																										
AU05594	182.00	182.20	0.20																										
AU05595	212.60	212.70	0.10																										
AU05596	232.00	232.10	0.10																										
AU05597	241.20	241.30	0.10																										
AU05598	248.00	249.00	1.00																										
AU05599	252.70	252.80	0.10																										
AU05600	258.00	258.10	0.10																										
AU05845	263.00	263.10	0.10																										
AU05846	264.90	265.00	0.10																										
AU05847	278.00	281.00	3.00																										

HOLE NUMBER: CARN12-03

HOLE NUMBER : CARN12-03

GEOCHEMICAL ASSAYS

DATE: 11/02/2000

Sample	From (M)	To (M)	Leng. (M)	AG PPM	AU PPB	CO PPM	PB PPM	S PPM	V PPM	AS PPM	SN PPM	CD PPM	SB PPM	BI PPM	SE PPM	HF PPM	TA PPM	W PPM	MO PPM	TH PPM	U PPM	B PPM	CS PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	GD PPM
AU05572	56.00	59.00	3.00																										
AU05573	69.50	72.50	3.00																										
AU05574	80.00	83.00	3.00																										
AU05575	85.60	85.80	0.20																										
AU05592	90.10	90.30	0.20																										
C120301	129.00	132.00	3.00																										
AU05593	152.00	155.00	3.00																										
AU05594	182.00	182.20	0.20																										
AU05595	212.60	212.70	0.10																										
AU05596	232.00	232.10	0.10																										
AU05597	241.20	241.30	0.10																										
AU05598	248.00	249.00	1.00																										
AU05599	252.70	252.80	0.10																										
AU05600	258.00	258.10	0.10																										
AU05845	263.00	263.10	0.10																										
AU05846	264.90	265.00	0.10																										
AU05847	278.00	281.00	3.00																										

HOLE NUMBER: CARN12-03

HOLE NUMBER : CARN12-03

GEOCHEMICAL ASSAYS

DATE: 11/02/2000

Sample	From (M)	To (M)	Leng. (M)	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MN PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	YB PPM	NB PPM	HG PPB	MGO#	CA/AL	NI/MGO	ISHIKW	ZN/NA2
AU05572	56.00	59.00	3.00																										
AU05573	69.50	72.50	3.00																										
AU05574	80.00	83.00	3.00																										
AU05575	85.60	85.80	0.20																										
AU05592	90.10	90.30	0.20																										
C120301	129.00	132.00	3.00																										
AU05593	152.00	155.00	3.00																										
AU05594	182.00	182.20	0.20																										
AU05595	212.60	212.70	0.10																										
AU05596	232.00	232.10	0.10																										
AU05597	241.20	241.30	0.10																										
AU05598	248.00	249.00	1.00																										
AU05599	252.70	252.80	0.10																										
AU05600	258.00	258.10	0.10																										
AU05845	263.00	263.10	0.10																										
AU05846	264.90	265.00	0.10																										
AU05847	278.00	281.00	3.00																										

HOLE NUMBER : CARN12-03





# Swastika Laboratories

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## Geochemical Analysis Certificate

9W-0781-RG1

Company: **FALCONBRIDGE LTD EXPLORATION**  
Project: 228 Expl  
Attn: D.Richardson

Date: APR-12-99

We hereby certify the following Geochemical Analysis of 64 Core samples submitted APR-08-99 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AU06069	17	89	90	2	0.1	115
AU06092	<	43	62	1	0.1	27
AU06093	7	94	163	1	0.1	86
AU06094	14	110	148	42	0.6	36
AU06095	7	29	83	5	0.1	25
AU06096	3	12	94	8	0.1	17
AU06097	10	110	136	7	0.3	110
AU06098	<	96	148	1	0.1	108
AU06099	3	105	792	1	0.2	100
AU06100	<	100	224	1	0.1	115
AU06101	<	101	286	1	0.1	91
AU06102	34	94	138	1	0.1	113
AU06103	7	105	119	1	0.1	119
AU06104	17	132	117	1	0.2	136
AU06105	3	113	145	1	0.1	125
AU06106	<	109	140	2	0.1	121
AU06107	<	107	139	6	0.1	113
AU06108	14	98	280	3	0.2	86
AU06109	<	100	141	2	0.1	103
AU06110	3	58	398	44	0.2	63
AU06111	17	91	946	141	0.3	70
AU06112	38	84	468	32	0.3	77
AU06113	48	99	473	38	0.5	78
AU06114	51	120	671	37	0.5	97
AU06115	45	142	964	48	0.5	115
AU06116	41	108	554	34	0.4	95
AU06117	<	124	562	25	0.2	90
AU06118	10	96	324	6	0.2	110
AU06119	<	67	97	6	0.1	66
AU06120	3	77	589	11	0.2	63

Certified by



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## Geochemical Analysis Certificate

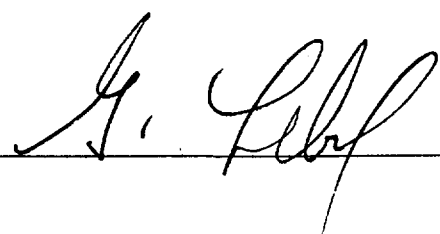
9W-0781-RG1

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Date: APR-12-99

We hereby certify the following Geochemical Analysis of 64 Core samples submitted APR-08-99 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AU06121	<2	47	469	5	0.1	63
AU06122	10	96	3830	46	0.3	76
AU06123	<2	78	190	57	0.3	70
AU06124	21	43	321	5	0.2	54
AU06125	14	98	118	1	0.1	60
AU06126	<2	67	69	1	0.1	42
AU06127	<2	85	85	1	0.1	49
AU06128	14	54	66	1	0.1	36
AU06129	7	51	116	2	0.1	59
AU06130	7	63	100	2	0.2	71
AU06131	<2	76	101	3	0.1	90
AU06132	10	189	345	6	0.3	506
AU06133	<2	54	123	12	0.2	49
AU06134	3	23	48	3	0.1	8
AU06135	<2	57	50	3	0.1	23
AU06136	<2	113	395	4	0.2	926
AU06137	17	192	355	10	0.3	141
AU06138	10	28	25	11	0.1	75
AU06139	3	21	17	1	0.1	71
AU06140	<2	81	77	1	0.1	119
AU06141	<2	70	101	1	0.1	85
AU06142	<2	19	184	4	0.1	81
AU06143	<2	22	1212	9	0.1	46
AU06144	27	112	3700	638	0.3	71
AU06145	7	31	98	20	0.1	85
AU06146	<2	117	157	11	0.2	86
AU06147	17	103	167	4	0.1	108
AU06148	<2	148	665	370	0.3	94
AU06149	3	23	268	51	0.2	63
AU06150	<2	34	236	33	0.1	77

Certified by 



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## Geochemical Analysis Certificate

9W-0781-RG1

Company: **FALCONBRIDGE LTD EXPLORATION**  
Project: 228 Expl  
Attn: D.Richardson

Date: APR-12-99

We hereby certify the following Geochemical Analysis of 64 Core samples submitted APR-08-99 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AU06151	14	90	604	219	0.1	75
AU06152	17	145	491	100	0.1	77
AU06153	3	101	4690	83	0.2	70
AU06154	<2	91	322	74	0.1	69

Certified by 

FALCONBRIDGE LIMITED  
DRILL HOLE RECORD

HOLE NUMBER: CARN12-04

DATE: 02/11/2000  
IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: KIDD-HBED JV PLOTTING COORDS GRID: UTM ALTERNATE COORDS GRID: Carn 12 COLLAR DIP: -50° 0' 0"  
 PROJECT NUMBER: NORTH: 5395975.00N NORTH: 91+10N LENGTH OF THE HOLE: 257.00M  
 CLAIM NUMBER: P1226369 EAST: 467672.00E EAST: 40+ 0E START DEPTH: 0.00M  
 LOCATION: Carnegie Twp. ELEV: 3320.00 ELEV: 0.00 FINAL DEPTH: 257.00M

COLLAR ASTRONOMIC AZIMUTH: 180° 0' 0"

GRID ASTRONOMIC AZIMUTH: 180° 0' 0"

DATE STARTED: 02/18/1999 COLLAR SURVEY: NO PULSE EM SURVEY: YES CONTRACTOR: Bradley Bros.  
 DATE COMPLETED: 02/23/1999 RQD LOG: NO PLUGGED: YES CASING: 77mNW pulled 80mNQ left  
 DATE LOGGED: 02/23/1999 HOLE MAKES WATER: NO HOLE SIZE: BQ CORE STORAGE: Kidd Creek minesite  
 UTM COORD.:

COMMENTS : Conductor: 6 boxes of graphite in mafic volcanics.Minor felsic fragmental unit encountered  
WEDGES AT:

DIRECTIONAL DATA:

Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (M)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
101.00	181° 0' 0"	-50° 0' 0"	S	OK		-	-	-	-	-	
161.00	184° 0' 0"	-48° 0' 0"	S	OK		-	-	-	-	-	
257.00	197° 0' 0"	-45° 0' 0"	S	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

2.20126

HOLE NUMBER: CARN12-04

DRILL HOLE RECORD

LOGGED BY: D. Richardson PAGE: 1

*David Richardson*



42A11NW2013 2.20126 CARNEGIE 020

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 77.00	« ob »	Casing 77m NW, 80m NQ 77m NW pulled 80m NQ left in hole				Hole not probed
77.00 TO 148.30	«2am» Mafic Volcanic	Mafic Volcanic (Vaguely Pillowed) -Colour varies from medium green to tan/grey bleached colour -Fine grained -Vague pillow selvages are 1-3cm wide, weakly chloritic, have distinct pillow curve to triple junctions, and are bordered by vesicular pillow interior. -1-2mm round clear quartz filled vessicles (amygdules) having variable abundance -Non magnetic, Suceptibility measured between 0.28-0.35 (Exploranium KT-5). Sections locally enriched with Pyrrhotite have suceptibility of up to 2.5  Weak schistostiy « S2 38° »  77.0-93.5 massive medium green mafic volcanic  93.5-115.3 strongly bleached section with 1-2mm vessicles and faint pillow selvages. Vessicles increase in concentration next to selvages  115.3-135.0 massive (intrusive?) medium green mafic  135.0-146.05 pillowed mafic volcanic. Distinct 1-3cm wide filled with chloritic and hyaloclastitic material. 0.5-1% fine <1mm disseminated Pyrrhotite blebs.  146.05-148.3 graphitic mafic volcanic. Graphite in fractures and the schistosity planes giving unit dark grey look. Angular mafic shards suggest flow top or bottom. 3-4% Pyrite cubes and blebs.  Zones of pitted and weakly broken core due to dissolving carbonate (vessicles?) from: 89.4-89.6		Moderate to strong pervasive chlorite  Moderate to strong pervasive carbonate (fizzes with HCL)  Minor quartz-carbonate veining (<3% of unit)	77.0-129.0 trace-0.5% disseminated 1-3mm Pyrite blebs and cubes. Nil - trace (<0.1%) Pyrrhotite  129.0-135.0 where Pyrrhotite increases to 2% as disseminated blebs.  135.0-146.05 0.5-1.0% fine disseminated Pyrrhotite blebs.  146.05-148.3 3-4% disseminated Pyrite blebs	Magnetic suceptibility measured with the Exploranium KT-5 suceptibility meter  Generally poor RQD from 92.0-114.0.  77.0-148.0 unit is geochemically distinct from mafics at 198.9-257.0

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		93.1-93.7 94.6-94.7 95.3-95.9 98.8-99.0				
		107.2-107.4 «-FAL-» broken core 99.5-102.5 «-FAL-» very poor core recovery (<30%), zone of broken core 110.0-113.5 «-FAL-» broken core				
		Lower contact sharp at 48 degrees TCA				
148.30 TO 188.00	«5g» Graphitic Argillite	Graphitic Argillite (Minor Wacke) -Dark black, sooty -Fine argillite to coarse wacke -Graphitic and strongly conductive. Graphite sheen on plane of schistosity -Bedded 30-55 degrees TCA (see below) -Disseminated Pyrite nodules -Non magnetic. Suceptibility measured between 0.01-0.07 -Tops likely uphole as vague grading suggests tops uphole, but vague load structures give tops both uphole and downhole.  Strong schistosity «-S2 35-55°-» (angle varies with bedding)  148.3-149.7 fine graphitic argillite 4-5% 1-10mm Pyrite blebs elongated subparallel to schistosity and round nodules.  149.7-152.7 coarse wacke generally grading from <1mm argillite and mafic grains to coarse 1-8mm subrounded argillite and mafic clasts. Clast supported. Bedded 50 degrees TCA. Vague grading suggests tops uphole. 1-2% Pyrite blebs and nodules.  152.7-156.6 fine graphitic argillite interbedded with fine <=1mm grain size wacke. Bedded 30 degrees TCA. 1-3% Pyrite as 1-15mm round blebs and nodules.  156.6-188.0 fine graphitic argillite bedded 35 degrees TCA 1-2mm beds of carbonate, light grey	30- 55	Minor quartz-carbonate vlenlets, <2%, 1-10mm wide.	See texture and structure	Tops indicated both uphole and downhole but most likely are uphole.  Generally good RQD except for major fault at 161.4m.

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
188.00 TO 198.90	«4cf» Felsic Fragmental	beds, and fine argillite. 3-5% round 0.5-3cm Pyrite nodules having carbonate rims. Trace Pyrite beds. Trace Pyrrhotite    161.4-162.0   «-FAI-» strong fault with broken core and gouge trending 30 degrees TCA   168.3-168.4   «-FAI-» weak fault, trace gouge, trending 25 degrees TCA  Lower contact sharp at 40 degrees TCA.  Felsic Fragmental -Light green-grey -Clast supported -Clasts are broken down as follows: Felsic - 30-35% subrounded glassy 0.1-1.2cm fragments, some are divitrified. Argillite - 20-25% black, angular Quartz Eyes - 10-12% round Matrix - 20-25% fine, sericitic and weakly graphitic  -Non magnetic except where Pyrrhotite is present. Suceptibility measured at 0.01 with no Pyrrhotite and up to 2.0 with Pyrrhotite. -Grading not distinct but both contacts are slightly finer with coarser interior. Tops possibly uphole as upper contact is slightly finer than lower contact and upper contact grades to argillite  Weak schistosity «-S2 40°-»  Lower contact sharp at 40 degrees TCA		Moderatly and pervasively sericitized matrix  <1% quartz-carbonate veinlets	2-3% disseminated 1-2mm Pyrrhotite blebs. Pyrrhotite common in argillite clasts.  2-3% disseminated 1-4mm Pyrite blebs	Good RQD  Tops possibly uphole but grading is not distinct.
198.90 TO 257.00	«2ap» Pillowed Mafic Volcanic	Pillowed Mafic Volcanic -Upper contact dark grey grading to medium green by 203.0 -Fine grained -Distinct 1-5cm wide hyaloclastitic, chloritic, and sometimes chert filled selvages approximately every 50cm. Pyrrhotite preferentially distributed within selvages. Some selvages are located within flow related autobrecciated sections. -Minor sections of autobreccia with 0.3-6cm		Strong pervasive chlorite  Zones of strong bleaching by pervasive carbonate. See texture and structure for intense zones of carbonatization.  Minor quartz-carbonate veining generally 1-5mm wide veinlets <2% by volume. Occassional trace epidote in quartz-carbonate veins.	See texture and structure for sulphides.  Pyrrhotite content decreases downhole	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
257.00 TO 257.00	E.O.H.	<p>angular jigsaw fit mafic clasts in 20% fine chloritic matrix                      -Most of unit is magnetic due to Pyrrhotite.                      Magnetic susceptibility ranges between 0.23 in areas with no Pyrrhotite and 8.0 in areas with Pyrrhotite                      -Flow contacts and selvages trend approximately 40-50 degrees TCA</p> <p>Weak schistosity                      « S2 50° » Lineations have a 80 degree rake on plane of schistosity</p> <p>198.9-203.0 pillowed mafic volcanic with trace pervasive and fracture controlled graphite giving the interval a dark-medium grey colour</p> <p>203.0-226.5 pillowed mafic volcanic with cherty selvages. 4-5% Pyrrhotite blebs primarily in selvages (slightly decreasing percentage towards lower contact) and 4% grading to 2-3% 1-3mm Pyrite blebs</p> <p>226.5-227.0 interflow zone with banded or bedded (50 degrees TCA) 1-10mm graphite/chlorite and carbonate beds. 1-2% 3-5mm Pyrite blebs, 1% Pyrrhotite subparallel to schistosity</p> <p>227.0-240.0 pillowed mafic volcanic. 1-3% Pyrrhotite primarily in selvages but also as disseminated 1mm blebs</p> <p>240.0-257.0 strongly bleached (strong pervasive carbonate and trace sericite) pillowed mafic with 1-2mm quartz filled vesicles next to selvage margins. 1% finely disseminated and selvage controlled Pyrrhotite. 1% 3-8mm Pyrite blebs primarily in selvages.</p>		Trace carbonaceous alteration at upper contact		



Sample	From (M)	To (M)	Leng. (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppb	Ag ppm	Cu/Zn ppm	Co ppm	Pt ppb	Pd ppb	S ppm	Se ppm	As ppm	Hg ppb	Sb ppm
AU06001	145.00	146.05	1.05	101	83	1	164.0	10	0									
AU06002	146.05	147.50	1.45	111	81	1	213.0	7	0									
AU06003	147.50	148.30	0.80	87	80	1	180.0	14	0									
AU06004	148.30	149.70	1.40	232	1690	31	147.0	2	0									
AU06005	149.70	151.20	1.50	43	351	11	32.0	24	0									
AU06006	151.20	152.70	1.50	18	162	9	12.0	10	0									
AU06007	152.70	154.00	1.30	61	550	19	56.0	14	0									
AU06008	154.00	155.50	1.50	89	464	18	54.0	21	0									
AU06009	155.50	156.60	1.10	85	573	17	53.0	7	0									
AU06010	156.60	158.00	1.40	59	350	27	40.0	7	0									
AU06011	158.00	159.50	1.50	100	677	20	58.0	31	0									
AU06012	159.50	161.00	1.50	115	643	28	66.0	7	0									
AU06013	161.00	162.50	1.50	148	905	43	76.0	2	0									
AU06014	162.50	164.00	1.50	47	289	18	23.0	7	0									
AU06015	164.00	165.50	1.50	86	724	33	78.0	7	0									
AU06016	165.50	167.00	1.50	297	1980	55	144.0	24	1									
AU06017	167.00	168.50	1.50	230	1710	51	141.0	24	1									
AU06018	168.50	170.00	1.50	263	3680	68	165.0	0	1									
AU06019	170.00	171.50	1.50	468	6160	84	227.0	17	1									
AU06020	171.50	173.00	1.50	285	2820	65	180.0	21	1									
AU06021	173.00	174.50	1.50	503	4990	57	210.0	17	1									
AU06022	174.50	176.00	1.50	150	1340	39	97.0	3	0									
AU06023	176.00	177.50	1.50	139	1090	30	80.0	0	0									
AU06024	177.50	179.00	1.50	81	627	19	45.0	0	0									
AU06025	179.00	180.50	1.50	91	807	20	58.0	0	0									
AU06026	180.50	182.00	1.50	60	353	14	32.0	0	0									
AU06027	182.00	183.50	1.50	41	178	9	31.0	3	0									
AU06028	183.50	185.00	1.50	23	138	5	29.0	0	0									
AU06029	185.00	186.50	1.50	53	147	7	46.0	0	0									
AU06030	186.50	188.00	1.50	62	489	8	44.0	0	0									
AU06031	188.00	189.50	1.50	10	120	4	6.0	0	0									
AU06032	212.30	213.40	1.10	194	344	1	139.0	21	0									
AU06033	225.50	226.50	1.00	137	437	1	111.0	7	0									
AU06034	226.50	227.00	0.50	106	388	1	91.0	14	0									
AU06035	227.00	228.00	1.00	128	243	1	112.0	7	0									

HOLE NUMBER : CARN12-04

GEOCHEMICAL ASSAY

DATE: 11/02/2000

Sample	From (M)	To (M)	Leng. (M)	SI02 %	AL2O3 %	CAO %	MGO %	NA2O %	K2O %	FE2O3 %	TIO2 %	P2O5 %	MNO %	CR2O3 %	LOI %	SUM %	Y PPM	ZR PPM	BA PPM	RB PPM	SR PPM	CO2 %	CU PPM	ZN PPM	NI PPM	CR PPM	FIELD NAME	CHEM ID	ALUM
AU05536	91.90	92.00	0.10																										
AU05537	125.80	126.00	0.20																										
AU05538	143.40	143.50	0.10																										
AU05539	190.50	190.60	0.10																										
AU05540	196.85	196.95	0.10																										
AU05542	201.30	201.40	0.10																										
AU05543	221.20	221.30	0.10																										
AU05544	253.90	254.00	0.10																										

HOLE NUMBER: CARN12-04

HOLE NUMBER : CARN12-04

GEOCHEMICAL ASSAYS

DATE: 11/02/2000

Sample	From (M)	To (M)	Leng. (M)	AG PPM	AU PPB	CO PPM	PB PPM	S PPM	V PPM	AS PPM	SN PPM	CD PPM	SB PPM	BI PPM	SE PPM	HF PPM	TA PPM	W PPM	MO PPM	TH PPM	U PPM	B PPM	CS PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	GD PPM	
AU05536	91.90	92.00	0.10																											
AU05537	125.80	126.00	0.20																											
AU05538	143.40	143.50	0.10																											
AU05539	190.50	190.60	0.10																											
AU05540	196.85	196.95	0.10																											
AU05542	201.30	201.40	0.10																											
AU05543	221.20	221.30	0.10																											
AU05544	253.90	254.00	0.10																											

HOLE NUMBER: CARN12-04

HOLE NUMBER : CARN12-04

GEOCHEMICAL ASSAYS

DATE: 11/02/2000

Sample	From (M)	To (M)	Leng. (M)	DY PPM	ER PPM	LU PPM	OS PPB	IR PPB	RU PPB	RH PPB	PT PPB	PD PPB	LI PPM	BE PPM	MN PPM	GA PPM	GE PPM	IN PPM	TL PPM	SC PPM	BR PPM	YB PPM	NB PPM	HG PPB	MGO#	CA/AL	NI/MGO	ISHIKW	ZN/NA2	
AU05536	91.90	92.00	0.10																											
AU05537	125.80	126.00	0.20																											
AU05538	143.40	143.50	0.10																											
AU05539	190.50	190.60	0.10																											
AU05540	196.85	196.95	0.10																											
AU05542	201.30	201.40	0.10																											
AU05543	221.20	221.30	0.10																											
AU05544	253.90	254.00	0.10																											

HOLE NUMBER: CARN12-04



# Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

## Geochemical Analysis Certificate

9W-0472-RG1

Company: **FALCONBRIDGE LTD EXPLORATION**

Date: MAR-09-99

Project: 035 Expl

Attn: P.Prince

We hereby certify the following Geochemical Analysis of 35 Core samples submitted MAR-05-99 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AU06001	10	101	83	1	0.1	164
AU06002	7	111	81	1	0.1	213
AU06003	14	87	80	1	0.1	180
AU06004	2	232	1690	31	0.5	147
AU06005	24	43	351	11	0.1	32
AU06006	10	18	162	9	0.1	12
AU06007	14	61	550	19	0.2	56
AU06008	21	89	464	18	0.2	54
AU06009	7	85	573	17	0.2	53
AU06010	7	59	350	27	0.2	40
AU06011	31	100	677	20	0.2	58
AU06012	7	115	643	28	0.3	66
AU06013	2	148	905	43	0.4	76
AU06014	7	47	289	18	0.2	23
AU06015	7	86	724	33	0.3	78
AU06016	24	297	1980	55	0.6	144
AU06017	24	230	1710	51	0.6	141
AU06018	Nil	263	3680	68	1.0	165
AU06019	17	468	6160	84	1.4	227
AU06020	21	285	2820	65	0.9	180
AU06021	17	503	4990	57	1.1	210
AU06022	3	150	1340	39	0.5	97
AU06023	∅	139	1090	30	0.4	80
AU06024	∅	81	627	19	0.3	45
AU06025	∅	91	807	20	0.3	58
AU06026	∅	60	353	14	0.2	32
AU06027	3	41	178	9	0.1	31
AU06028	∅	23	138	5	0.1	29
AU06029	∅	53	147	7	0.1	46
AU06030	∅	62	489	8	0.1	44

Certified by Denis Chantre



# Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 2 of 2

## Geochemical Analysis Certificate

9W-0472-RG1

Company: **FALCONBRIDGE LTD EXPLORATION**

Date: MAR-09-99

Project: 035 Expl

Attn: P.Prince

We hereby certify the following Geochemical Analysis of 35 Core samples submitted MAR-05-99 by .

Sample Number	Au PPB	Cu PPM	Zn PPM	Pb PPM	Ag PPM	Ni PPM
AU06031	<2	10	120	4	0.1	6
AU06032	21	194	344	1	0.1	139
AU06033	7	137	437	1	0.1	111
AU06034	14	106	388	1	0.1	91
AU06035	7	128	243	1	0.1	112

Certified by Denis Chouh

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

Telephone (705)642-3244 Fax (705)642-3300

**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>W0060-00078</i>
Assessment Files Research Imaging



42A11NW2013 2.20126 CARNEGIE 900

of subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the assessment work and correspond with the mining land holder. Questions about this Act may be directed to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, N2T 1P6.

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

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

Name	FALCONBRIDGE LIMITED	Client Number	130679
Address	Suite 1200 - 95 Wellington Street West	Telephone Number	(416) 956-5700
	Toronto, Ontario, M5H 2V4	Fax Number	(416) 956-5757
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.**

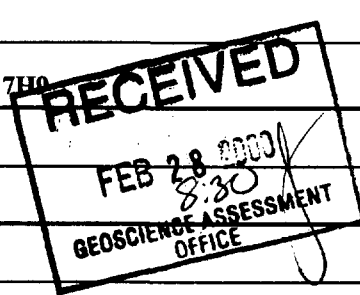
Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling stripping, trenching and associated assays       Rehabilitation

Work Type	Diamond Drilling (538m in two holes)	Office Use	
		Commodity	
		Total \$ Value of Work Claimed	<i>29,208</i>
Dates Work Performed	From 18 02 1999 To 27 02 1999	NTS Reference	
Global Positioning System Data (if available)	Township/Area Carnegie Township	Mining Division	<i>Prospire</i>
Approx 5395732mN, 467603mE	M or G-Plan Number G-3930	Resident Geologist District	<i>Timmins</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	Gary De Schutter	Telephone Number	(705) 264-5200 ext. 8231
Address	PO Box 1140, Timmins, Ontario, P4N 7H9	Fax Number	(705) 267-8874
Name		Telephone Number	
Address		Fax Number	
Name		Telephone Number	
Address		Fax Number	



**4. Certification by Recorded Holder or Agent**

I, Gary De Schutter (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>G. De Schutter</i>	Date	<i>FEB 24/00</i>
Agent's Address	PO Box 1140, Timmins, Ontario, P4N 7H9	Telephone Number	(705) 264-5200 ext. 8231
		Fax Number	(705) 267-8874

*977*

**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.

*WCCO. 00078*

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 P1226368	2	\$13,715	\$1,600	0	\$12,115
2 P1226369	2	\$10,843	\$1,600	0	\$9,243
3 P708350	1	\$4,650	0	0	\$4,650
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
<b>Column Totals</b>	<b>5</b>	<b>\$29,208</b>	<b>\$3,200</b>	<b>0</b>	<b>\$26,008</b>

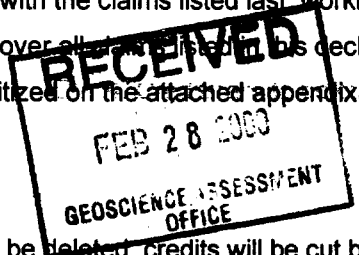
I, Gary De Schutter, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: *[Signature]* Date: *FEB 24/00*

**6. Instruction 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):



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



**Statement of Costs for Assessment Credit**

Transaction Number (office use)  
 W0060.00078

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, this 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 a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd 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/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Diamond Drilling	538m in two holes	\$51.62 per metre	\$27,772
Assay Sampling	99 samples	\$14.50 per sample	\$1,436
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
<b>Transportation Costs</b>			
<b>Food and Lodging Costs</b>			
<b>Total Value of Assessment Work</b>			\$29,208

**RECEIVED**  
 FEB 28 2000  
 GEOSCIENCE ASSESSMENT OFFICE

2000  
 2 20 12 6

**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:

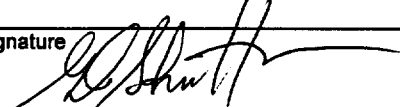
TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

**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, Gary De Schutter (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.

Signature  Date FEB 24/00

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

March 23, 2000

FALCONBRIDGE LIMITED  
SUITE 1200, 95 WELLINGTON STREET WEST  
TORONTO, ONTARIO  
M5J-2V4

Telephone: (888) 415-9845  
Fax: (877) 670-1555

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.20126

**Status**

**Subject: Transaction Number(s):** W0060.00078 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. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

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 [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@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

# Work Report Assessment Results

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**Submission Number:** 2.20126

**Date Correspondence Sent:** March 23, 2000

**Assessor:** STEVE BENETEAU

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W0060.00078	1226368	CARNEGIE	Approval	March 23, 2000

**Section:**  
16 Drilling PDRILL

**Correspondence to:**  
Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**  
Gary Deschutter  
TIMMINS, ONTARIO, CANADA

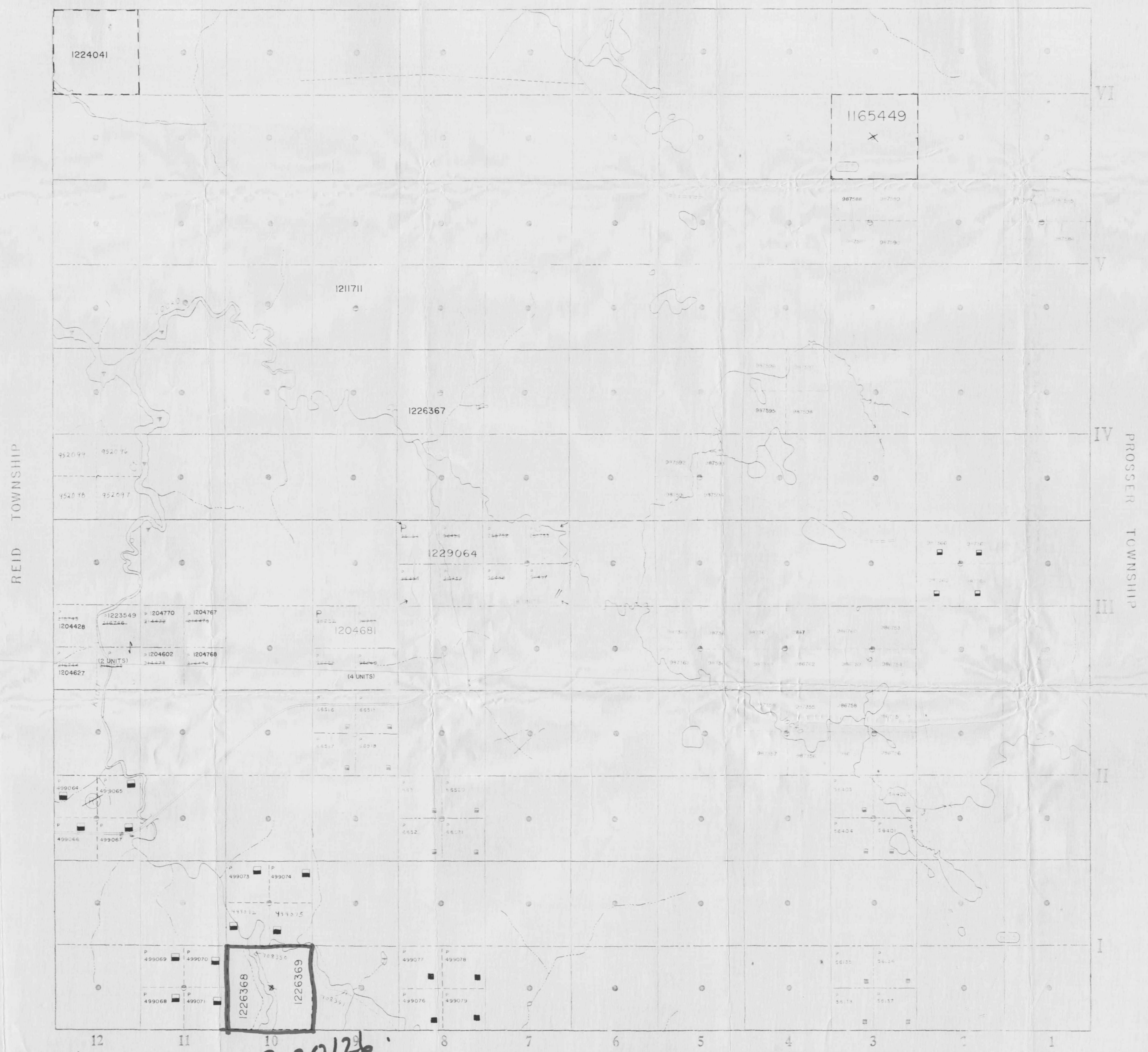
FALCONBRIDGE LIMITED  
TORONTO, ONTARIO

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WITHDRAWN FROM POSITION  
 MINING RIGHTS ONLY  
 SURFACE RIGHTS ONLY  
 MINING AND SURFACE RIGHTS

MINING AND SURFACE RIGHTS WITHDRAWN FROM  
 RESPECTIVE STAKEHOLDERS FROM  
 REGIONS OF THE MINING ACT, RSO 1990  
 UNDER SECTION 35 OF THE MINING ACT, RSO 1990  
 ORDER NO. O.P. 29192 DATED 92 NOV 02  
 (CLAIM NO. P-499064 TO P-499067 INCL.)

CRAWFORD TOWNSHIP



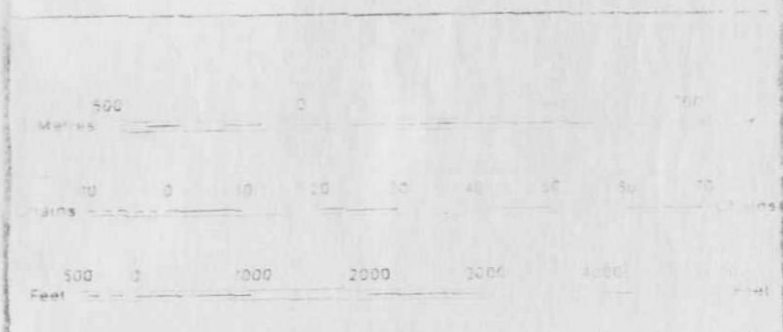
**LEGEND**

ROADWAY AND ROUTE NO.	
OTHER PLADS	
TRAILS	
SURVEYED LINES	
TOWNSHIP BASE LINES & TD	
LOTS MINING CLAIMS TABLES ETC	
UNRESERVED LINES	
MINES	
PARCEL BOUNDARY	
MINING CLAIMS	
BOUNDARY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERMANENT STREAM	
FLOODING OR FLOODPLAIN	
SUBDIVISION OF TOWNSHIP LOTS	
RESERVATIONS	
ORIGINAL SHORELINE	
WASH OR MUCKED	
MINES	
TRAVERSE MONUMENT	

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
RESERVE OF DISPOSITION	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1914 ARE LISTED IN ORIGINAL PATENTS BY THE MINING ACT, RSO 1990 THIS DATE 92 NOV 02



**DATE OF ISSUE**  
 APR 20 1999  
 PROVINCIAL RECORDING  
 OFFICE - SUBURBY

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

Ministry of Natural Resources  
 Ministry of Northern Development and Mines  
 DATE: OCTOBER 1998  
 G-3930

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.



2.20126  
 PDRILL

Con 1

Lot 10

92+00N

37+00E

45+00E

S1/2 Con 1, Lot 10  
Carnegie Township



P708350  
(creekbed claim)

P1226369

P1226368

CARN12-03  
 88+60N, 39+00E  
 5395732mN, 467603mE  
 180 degrees Az  
 -50 degrees dip  
 281m depth

	Cu	Zn	Pb	M	Ag	
36	86	2	125	17	0.1	
37	43	62	1	88	7	4.9
38	150	144	47	38	14	0.9
39	32	83	5	45	2	0.1
40	118	135	7	110	18	0.1
41	30	148	1	139	3	0.2
42	105	792	1	156	42	0.4
43	108	224	1	175	2	0.1
44	102	765	1	97	24	0.1
45	84	133	1	113	22	0.1
46	125	119	1	128	17	0.1
47	132	117	1	128	7	0.1
48	115	142	1	128	3	0.1
49	108	142	1	128	3	0.1
50	108	142	1	128	3	0.1
51	108	142	1	128	3	0.1
52	108	142	1	128	3	0.1
53	108	142	1	128	3	0.1
54	108	142	1	128	3	0.1
55	108	142	1	128	3	0.1
56	108	142	1	128	3	0.1
57	108	142	1	128	3	0.1
58	108	142	1	128	3	0.1
59	108	142	1	128	3	0.1
60	108	142	1	128	3	0.1
61	108	142	1	128	3	0.1
62	108	142	1	128	3	0.1
63	108	142	1	128	3	0.1
64	108	142	1	128	3	0.1
65	108	142	1	128	3	0.1
66	108	142	1	128	3	0.1
67	108	142	1	128	3	0.1
68	108	142	1	128	3	0.1
69	108	142	1	128	3	0.1
70	108	142	1	128	3	0.1
71	108	142	1	128	3	0.1
72	108	142	1	128	3	0.1
73	108	142	1	128	3	0.1
74	108	142	1	128	3	0.1
75	108	142	1	128	3	0.1
76	108	142	1	128	3	0.1
77	108	142	1	128	3	0.1
78	108	142	1	128	3	0.1
79	108	142	1	128	3	0.1
80	108	142	1	128	3	0.1
81	108	142	1	128	3	0.1
82	108	142	1	128	3	0.1
83	108	142	1	128	3	0.1
84	108	142	1	128	3	0.1
85	108	142	1	128	3	0.1
86	108	142	1	128	3	0.1
87	108	142	1	128	3	0.1
88	108	142	1	128	3	0.1
89	108	142	1	128	3	0.1
90	108	142	1	128	3	0.1
91	108	142	1	128	3	0.1
92	108	142	1	128	3	0.1
93	108	142	1	128	3	0.1
94	108	142	1	128	3	0.1
95	108	142	1	128	3	0.1
96	108	142	1	128	3	0.1
97	108	142	1	128	3	0.1
98	108	142	1	128	3	0.1
99	108	142	1	128	3	0.1
100	108	142	1	128	3	0.1

210

BL88+00N

CARNEGIE

42A11W2013 2.20126

84+00N

37+00E

37+00E

37+00E

45+00E

Kidd Township

ASTRONOMIC

**FALCONBRIDGE LIMITED**

Exploration Division      Timmins, ONTARIO

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**DDH Carn12-03 Location Map**  
Carnegie Township  
Porcupine Mining District

TRACED: A.D.T.	DATE: 2008	NTS:	PROJECT: 431
DRAWN: A.D.T.	DATE: 2008	FILE: Bldg_4211W_2013_2012_02	
SUPERVISED: S.M.	DATE: 2008		
<b>1: 5,000</b>			

Con 1

Lot 10

92+00N

37+00E

45+00E

CARN12-04  
91+10N, 40+00E  
(5395975mN, 467672mE)  
180 degrees Az  
-50 degrees dip  
257m depth

S1/2 Con 1, Lot 10  
Carnegie Township

P708350  
(creekbed claim)

P1226368

P1226369

84+00N

Kidd Township

Co	26	26	N	104	Ag
801	83	1	213	7	0.1
87	80	1	180	14	0.1
232	1850	31	157	24	0.1
43	281	11	12	10	0.2
12	162	9	12	10	0.2
85	550	19	69	14	0.2
86	864	18	54	11	0.2
88	573	17	53	7	0.2
26	330	27	40	7	0.2
190	879	20	28	6	0.2
115	845	43	23	7	0.2
149	906	28	60	7	0.2
41	298	M	23	7	0.2
86	754	25	78	7	0.2
297	1980	25	144	24	0.8
230	1710	61	162	14	1.0
253	3620	58	147	24	0.8
468	618	84	107	17	1.4
295	2020	50	107	21	0.9
845	4360	67	710	11	1.1
150	1340	39	30	5	0.5
139	1090	30	30	5	0.5
81	227	26	26	5	0.5
81	207	20	26	5	0.5
60	303	14	32	13	0.2
41	178	4	31	13	0.2
42	158	4	29	14	0.1
53	147	7	29	14	0.1
42	498	8	44	44	0.1
137	132	1	128	7	0.1
137	427	1	128	7	0.1
137	28	1	91	7	0.1
128	42	1	110	7	0.1

500m

0 100 200  
meters

ASTRONOMIC

<b>FALCONBRIDGE LIMITED</b>			
Exploration Division		Timmins, ONTARIO	
<b>DDH Carn12-04 Location Map</b>			
Carnegie Township			
Porcupine Mining District			
TRACED: A.D.T.	DATE: 04M	RTS:	PROJECT: 491
DRAWN: A.D.T.	DATE: 04M	FILE: Bldg_Airlog_04m04m (Feb_200)	
SUPPRESSED: A.M.	DATE: 04M	1: 5,000	
SCALE: 1:5000			

220

CARNEGIE

42A11NW2013 2.20126

BL88+00N



1. MAIN ROCK DIVISIONS

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

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
- Si Silicification
- Sr Serpentinization
- Tc Talc-Carbonatization
- Tk Talc

4. Textural/Structural MODIFIERS

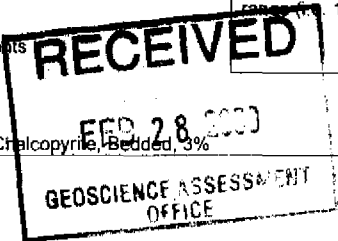
- |     |                           |    |                              |
|-----|---------------------------|----|------------------------------|
| *a  | Tuff (67% <2mm)           | *n | Graded Bedding               |
| *b  | Lapilli Tuff (2-64mm)     | *o | Cross bedding                |
| *c  | Lapillistone (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 |                          | PERCENTAGE                                                                    |
|------|--------------------------|-------------------------------------------------------------------------------|
| D    | Disseminated/Blebs       | Numeric percentage, or percentage range (e.g. 1-3%), must always be specified |
| F    | Fracture/vein controlled |                                                                               |
| M    | Massive                  |                                                                               |
| B    | Bedded                   |                                                                               |
| C    | Clasts/Fragments         |                                                                               |
- Example: CpB3% = Chalcopyrite, Bedded, 3%







S

Claim P708350 Claim P1226369

N

8900 N

9000 N

9100 N

10m WIDTH , DIP -80° North  
75m DEEP , 100mhosCARN12-04  
L 4000mE, 9110mN (467672mE, 5395975mN)  
Az. 180°, Dip -50°

OVERBURDEN

3300

3300

HLEM ANOMALY CORRESPONDS TO GRAPHITIC  
ARGILLITE UNIT FROM 148.3-188.0m

3200

3200

8900 N

9000 N

9100 N

3100

3100

KIDD-HBED JV ASSAY TABLE CARN12-04																
SAMPL. No.	FROM (M)	TO (M)	Int (M)	Cu ppm	Zn ppm	Pb ppm	Ni ppm	Au ppm	Ag ppm	Est.Ni %	Est.Po %	Est.Py %	Est.Op %	Est.Sp %	Est.Or %	ROCK T
AUD0001	145.00	146.05	1.1	101	83	1	184	10	0.1							2a
AUD0002	146.05	147.50	1.4	111	81	1	213	7	0.1							2a
AUD0003	147.50	148.30	0.8	87	80	1	180	14	0.1							2a
AUD0004	148.30	149.70	1.4	232	1680	31	147	2	0.5							5g
AUD0005	149.70	151.20	1.5	43	351	11	32	24	0.1							5, wack
AUD0006	151.20	152.70	1.5	18	182	9	12	10	0.1							5, wack
AUD0007	152.70	154.00	1.3	81	550	19	56	14	0.2							5, wack
AUD0008	154.00	155.50	1.5	89	484	18	54	21	0.2							5g
AUD0009	155.50	156.60	1.1	85	573	17	53	7	0.2							5g
AUD0010	156.60	158.00	1.4	58	350	27	40	7	0.2							5g
AUD0011	158.00	159.50	1.5	100	677	20	58	31	0.2							5g
AUD0012	159.50	161.00	1.5	115	643	28	66	7	0.3							5g
AUD0013	161.00	162.50	1.5	148	905	43	76	2	0.4							5g
AUD0014	162.50	164.00	1.5	47	289	18	23	7	0.2							5g
AUD0015	164.00	165.50	1.5	88	724	33	78	7	0.3							5g
AUD0016	165.50	167.00	1.5	297	1980	55	144	24	0.6							5g
AUD0017	167.00	168.50	1.5	230	1710	51	141	24	0.6							5g
AUD0018	168.50	170.00	1.5	283	3680	98	165	NT1	1.0							5g
AUD0019	170.00	171.50	1.5	488	6180	84	227	17	1.4							5g
AUD0020	171.50	173.00	1.5	285	2820	85	180	21	0.9							5g
AUD0021	173.00	174.50	1.5	503	4690	57	210	17	1.1							5g
AUD0022	174.50	176.00	1.5	150	1340	39	97	3	0.5							5g
AUD0023	176.00	177.50	1.5	139	1090	30	80	4	0.4							5g
AUD0024	177.50	179.00	1.5	81	627	18	45	4	0.3							5g
AUD0025	179.00	180.50	1.5	81	807	20	58	4	0.3							5g
AUD0026	180.50	182.00	1.5	80	353	14	32	4	0.2							5g
AUD0027	182.00	183.50	1.5	41	178	9	31	3	0.1							5g
AUD0028	183.50	185.00	1.5	23	138	5	29	4	0.1							5g
AUD0029	185.00	186.50	1.5	53	147	7	48	4	0.2							5g
AUD0030	186.50	188.00	1.5	62	488	8	44	4	0.1							5g
AUD0031	188.00	189.50	1.5	10	120	4	6	4	0.1							4f
AUD0032	212.30	213.40	1.1	184	344	1	138	21	0.1							2ap
AUD0033	225.50	226.50	1.0	137	437	1	111	7	0.1							2ap
AUD0034	226.50	227.00	0.5	108	388	1	91	14	0.1							2ap
AUD0035	227.00	228.00	1.0	128	243	1	112	7	0.1							2ap

## LEGEND

10

DIABASE

9

FELSIC INTRUSIVE ROCKS

8

INTERMEDIATE INTRUSIVE ROCKS

7

MAFIC INTRUSIVE ROCKS

6

ULTRAMAFIC INTRUSIVE ROCKS

5

SEDIMENTARY ROCKS

4

FELSIC VOLCANIC ROCKS

3

INTERMEDIATE VOLCANIC ROCKS

2

MAFIC VOLCANIC ROCKS

1

ULTRAMAFIC VOLCANIC ROCKS

FALCONBRIDGE LIMITED

Exploration Division

Timmins ONTARIO



GRID Carn12

LOOKING Az 270° CARNEGIE Twp.

DIAMOND DRILL SECTION L 4000 E

DDH CARN12-04

TRACED: PROCES	DATE: 07/06/99	NTR: 42-A/14 & 11	PROJECT: 8034
DRAWN: dw DRAFTING	DATE: 07/06/99	MAP No:	FILE: Carn1204
SUPERVISED: D Richardson	DATE: 04/06/99	SCALE 1:1 000 (metres)	
REVISED:	DATE:	0 10 20 30 40	



42A11NW2013 2.20126 CARNEGIE

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