Diamond Drill Record

Hole No. ML 94-01

Company LAC RESOURCES (1985) LTD.	Collar Elevation ~18' (6m) above lake	Bearing of hole from true North	Total Footage Oct 21/94 - 2500'	Map Reference No. Claim Map G-4093 N.T.S.	Claim No. Boundary between 577377 & 1179591
Hole Started UGUST 9/94	Date Completed AUGUST 21/94 (@ 1000') OCTOBER 21/94 (@ 2500')	Dip of Hole -90°	Logged by Frank H. Toews, B.Sc.	Location Rathbun Twp. - on N-S Claimline, 95' (29 m) S. of Witness Post for #4-1179591 (175 m S. of #4) which is 21' S. of shore of Matagamasi Lake	
Company Erana Mines Ltd., Lively, Ontario	Core size BQ				

010

41115SE0027 2.15834 RATHBUN

Feet FROM	Feet TO	DESCRIPTION
		P. 15834
0	5'	CASING - Sandy clay, boulders; bedrock at about 3' (laminated wackes)
~3'	29.7'	GOWGANDA FORMATION - LAMINATED WACKES ± SUDBURY - TYPE BRECCIA ZONE
		Rocks are non-magnetic; wackes are light greenish greys (sericitic, very fine grained) and medium to darker greenish grey(s) (chloritic-sericitic, fine to medium grained), thinly laminated to very thinly bedded, becoming more thinly bedded (+ thin laminations) down-hole from the zone of Sudbury Breccia; bedding @ 40-50° to C.A. (Core Axis) above breccia and @ 25-30° to C.A. below breccia (the contacts of which are conformable to bedding); wackes are soft to moderately soft.

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3	11.1	Sericitic fractures along bedding, a few with limonitic staining; 3-6/ foot; occasional pink quartz-carbonate gash veinlets, <1-3 mm wide @ 60° and 35° to C.A. (cross-cut bedding)
11.1	21.3	Sudbury Breccia Zone - medium to lighter greenish grey, fine grained, moderately soft, sericitic-chloritic matrix with flowage lines parallel to contacts and about inclusions in places; clasts are rounded to sub-rounded (and a few are ragged) varying in size from 1 mm (+/-) to ~25 cm, composed of wacke, laminated wacke, pink arkosic rock, some albitized (greenish, pink to reddish to tan, very hard, internally and on rims of clasts); fractures (+/- sericite +/- slips) @ 50-60°, 25-35° to C.A., 2-6/ foot, some broken core;
		12.9 - 13.4' - Brecciated, pink albitized inclusion with 10% +/- chlorite matrix;
	numerous	fragments are angular to sub-angular and also cut by chlorite fracture fillings; minor Pyrite grains in matrix and possibly some dolomite (?)
		18.3 - 18.6' - harder, silicified (?) with albitized clasts and ~3% off-white dolomite flecks and small anhedral to sub-hedral porphyroblasts up to 1-2 mm in size in matrix and in clasts; minor dolomite gash @ 80° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	19.5-20.1' - Bleached, partly albitized, light grey to tan with thin chlorite laminations in wacke inclusion; an irregular, 0.5-2 cm wide, pink to reddish albite +/- quartz +/- chlorite veinlet with 1-3% disseminated Pyrite cuts the laminated wacke; sericitic slip parallel to down-hole contact of inclusion @ ~15° to C.A.
21.3	29.7	Thinly bedded (up to 10 cm) and thinly laminated wackes; rocks fracture (+/- slips) parallel to bedding @ 25-35°; a few chloritic fractures/slips @ 60°, 45° to C.A.
		22.7-26' - some milky to grey quartz veinlets and gashes with pink to reddish (hematitic) carbonate (dolomite?) +/- chlorite; mainly irregular forms up to 0.5cm wide
		26.5-29.7' - sinuous, sericitic-chloritic slips parallel to sub-parallel to C.A.; locally some bleaching on margins; broken core in lower part
29.7	42.3	GOWGANDA FORMATION - MORE MASSIVE WACKE +/- BEDDING +/- QUARTZ-CARBONATE VEINLETS +/- BRECCIATION
		Medium to dark greenish greys, fine to medium grained, non-magnetic, chloritic, soft, becoming harder and partly silicified down-hole; some thin beds

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	ctd.	and laminations @ 10-15° to C.A.; a few beds appear to be brecciated by soft sediment deformation; also about 10-15% sections brecciated by irregular chlorite "crackle" fracture fillings/small gashes, which are sometimes cut by ~2% later, irregular to uniform, grey to milky quartz-dolomite veinlets/gashes with creamy to reddish (hematitic) carbonate +/- chlorite, <1 to 5 mm wide @ 50-65°, 30-35° to C.A.; chloritic slips (+/- pyrite grains or small scales) @ 40-50° mainly (2-6/foot) cut some of the quartz-carbonate veinlets and gashes
		31-31.3' - partly brecciated soft to hard light greenish-grey laminated wacke fragment, partly enveloped by an irregular Sudbury Breccia vein/patch, some silicification (?) and several quartz-carbonate veinlets/gashes in zone
		40.2-42.1' - about 15 milky to reddish quartz-carbonate veinlets and gashes, 1-5 mm wide @ 60-70° to C.A. mainly
		42.2-42.3' - two milky to reddish quartz-carbonate +/- chlorite veinlets 0.5-1.0 cm wide @ ~75° to C.A. with partial brecciation of wackes in between; breccia matrix is chlorite

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Feet FROM	Feet TO	DESCRIPTION
42.3	59.5	GOWGANDA FORMATION - ALTERED, ALBITIZED ZONE + DOLOMITE +/- QUARTZ-CARBONATE VEINLETS
		Very hard, non-magnetic, pink to reddish, fine grained, intensely recrystallized, albitized, massive arkosic rocks with occasional tan to pinkish, laminated band @ 0-20° to C.A.; Pale greenish to creamy dolomite occurs as 1-10 mm size, sub-hedral to anhedral porphyroblasts (Trace to 10%, average 5% +/-), 5% +/- irregular patches and veinlets (+/- quartz), several (<5%) short sections with small chlorite "crackle" fracture fillings; ~2% milky quartz - pink to reddish (hematitic) dolomite veinlets / gashes @ 60-70° to C.A.; a few reddish-orange, hematitic alteration veinlets; chloritic fractures/slips (+/- sericite) @ 35-45°, 60-65° to C.A.; occasionally chlorite replaces dolomite porphyroblasts
		56.5' - 2 cm wide milky quartz veinlet @ 60° to C.A. with some hematitic carbonate and chlorite patches
		57.7 - 58.3' - Weak brecciation by 3%(+/-) irregular milky quartz +/- dolomite veinlets, quartz partly cut by orange hematitic alteration veinlets
		59 - 59.5' - red hematitic alteration in parts of pink albitized rocks (+/- chlorite gashes/veinlets) and in 10% quartz - carbonate veinlets
		59.5' - contact @ 70° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
59.5	73.4	GOWGANDA FORMATION - MASSIVE WACKES +/- BRECCIATION +/- QUARTZ-CARBONATE VEINLETS
		Non-magnetic, medium to darker greenish-grey, fine to medium grained, chloritic, sericitic soft to hard (patchy silicification); a few broken-up beds of light greenish grey laminated wackes present; 2-3% milky quartz-reddish (hematitic) carbonate veinlets, gashes & angular patches (+/- chlorite),
	15%	Chloritic "crackle" fracture filling zones, sometimes brecciate host rocks;
		Chloritic (+/- sericitic) fractures/slips @ 30-45°, 10-20°, 60-70° to C.A. (2-5+/foot) occasionally with Pyrite grains
		59.5-60.9' - 5-10% quartz - hematitic carbonate veinlets/gashes 0.1-1 cm wide @ 0-35° to C.A. and one ~4 cm wide @ 75-60° to C.A. near 59.7'; Veining cuts a zone partly brecciated by chlorite "crackle" fractures
		61.7' (+/-) - limonitic, quartz-carbonate veinlet ≤ 1.5 cm wide, some small dolomite porphyroblasts in vicinity
		62.-63' - some brecciation by "crackle" fracture fillings (chlorite)
		63.2-64' - 3% quartz-hematitic carbonate gashes and patches with minor Pyrite grains
		66-66.3' - 10-15% irregular quartz-hematitic carbonate veinlets/gashes +/- Pyrite

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	72 - 73.4' - 2% ragged patches, gashes and veinlets of quartz - carbonate (+/- some disseminated Pyrite grains) in soft chloritic wacke with patchy hard, slightly brownish albite alteration; some broken up beds fragments, disseminated dolomite porphyroblasts (≤ 5%)
		73.1' - contact @ ~60° to C.A.
73.4	104.2 +/-	GOWGANDA FORMATION - ALTERED, ALBITIZED ZONE + DOLOMITE +/- QUARTZ-CARBONATE VEINLETS (+/- CHLORITE)
		Pink to reddish, intensely recrystallized, albitized, fine grained, very hard, arkosic non-magnetic; trace to locally 15% (avg. 5%+) creamy dolomite porphyroblasts and patches (< 0.1 - 3 cm) sometimes partly replaced by hematitic alteration and sometimes rimmed by chloritc; dolomite (+/- kutnahorite) also occurs in milky to grey quartz +/- chlorite veinlets often 1-5 mm wide @ 60-70° to C.A., but some veining is 1-8 cm wide, (about 2-3% quartz-carbonate veining); trace to 5% reddish-orange pervasive hematitic alteration veinlets, anastamosing @ 15-70° to C.A. and 1-5 mm wide mainly (up to 10/foot) and more prevalent between ~78-95'; 5% +/- scattered chloritic +/- sericitic alteration veinlets are anastamesing, locally numerous, 1-3 mm wide @ 10-25° to C.A. and are cut by quartz-carbonate veinlets;

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	chloritic ± sericitic slips @ 20-35°, 50-60° to C.A. (<1-5/foot)
73.4	74.7	Faint pinkish grey zone
74.7	75	Pink; brecciated by quartz-carbonate-chlorite matrix
78.2	78.4 ±	Irregular, grey to creamy dolomite vein, 0.2-2 cm wide with 2-3% disseminated
		Pyrite; vein partly brecciates host rock which is also partly brecciated
		by chlorite veinlets; chlorite margins ± hematite on dolomite vein
78.4	78.7	Milky quartz-chlorite-hematitic carbonate vein(s) @ ~50° to C.A.
80.3		5 cm wide milky to grey quartz-chlorite-hematitic carbonate vein(s) @ 65-70° to CA.
		vein is partly vuggy
87.2	87.5	Two, 1.5-2 cm wide milky quartz veinlets @ 65° and 75° to C.A (opposed)
		some vuggy hematitic carbonate in 75° vein
88.5		8 cm wide milky quartz-chlorite vein @ 65-75° to CA.; vuggy hematitic
		carbonate in vein
90.2	90.7	15-20% creamy carbonate (± hematite) - milky to grey quartz - chlorite veining/gashes/
		patches partly brecciate host rocks
92	94.4	~10% greyish to creamy dolomite porphyroblasts, angular to irregular patches
		(± hematitic alteration ± chloritic rims/fractures) and several quartz-chlorite veinlets

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Feet FROM	Feet TO	DESCRIPTION
96	98.2	10-15% greyish to creamy dolomite porphyroblasts and patches
98.5		1.5 cm wide milky to grey quartz veinlet (+/- dolomite) @ 65° to C.A.
103.5		Pale greenish grey soft to hard (silicified?) Sudbury Breccia veinlet with flow lines @ ~30-35° to C.A. (opposed to contact at 104.2')
104+		Minor disseminated Pyrite in several, ragged quartz-dolomite (+/- chlorite) veinlets/ gashes
104.2		Chloritic shear/breccia, 0-1 cm wide @ ~10° to C.A. plus muddy chloritic-sericitic slip on contact with Sudbury Breccia. (contact over length of ~0.6')
104.2 +/-	109.2	SUDBURY-TYPE BRECCIA
		Non-magnetic, soft (chloritic-sericitic), medium to light greenish grey, very fine grained matrix with flow lines; rounded to sub-rounded albitized-silicified pinkish to tan to grey to greenish metasedimentary clasts up to 6 cm in size; sometimes the matrix is very hard, silicified/albitized near clast margins; both matrix and clasts are cut by a few quartz-dolomite (+/- hematite) veinlets 1-3 mm wide, @ 20-30°, 50° to C.A. (a few vuggy); some small clasts are chloritic
		109.2' - contact sheared (?) (plus quartz-carbonate veinlet partly along contact) and oriented @ 35° to C.A.; chloritic slip parallel to and above contact
		('disseminated Pyrite' occurs in some clasts & also in matrix; < 1/4% Pyrite)

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Feet FROM	Feet TO	DESCRIPTION
109.2	135.1	GOWGANDA FORMATION - ALTERED, ALBITIZED - SILICIFIED +/- QUARTZ - CARBONATE (+/- CHLORITE) VEINLETS
		Non-magnetic; Pink to pale pink and sometimes pale grey (more silicified?) and occasionally tan-coloured, very hard, fine to coarse grained intensely recrystallized (occasionally a few laminations visible), albitized-silicified metasedimentary rocks; 5% (+/-) often locally numerous, anastamosing, low angle (5-30° to C.A.) chloritic +/- sericitic alteration fracture fillings/alteration veinlets locally brecciate host rocks and some appear to be associated with quartz-carbonate (although quartz-carbonate veinlets also cut the chloritic veinlets), chloritic fracture fillings/veinlets mainly to about 120';
		2-3% (locally 10%) milky to grey quartz - creamy to greyish dolomite (+/- hematitic alteration) veinlets, irregular patches or gashes, sometimes with chlorite and sometimes hematitic and vuggy; the more uniform veinlets are 1'-10 mm wide @ 60-75° to C.A.; some red-orange, hematitic alteration veinlets are also present @ 60-70° to C.A.;
		Scattered dolomite porphyroblasts, <1 to 5 mm size, are also present locally up to 10% but mainly Trace to 2%;
		Occasional Pyrite grains visible
125.3	125.6	Milky to grey quartz - hematitic carbonate - (minor) chlorite vein (with wall rock fragments)

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	@ 60-70° to CA., (some apophyses also present)
126.5	128.7	10% irregular to ragged quartz-carbonate (+/- hematitic alteration) veinlets/gashes and patches
		partly brecciate host rocks
135		Silicified, partly brecciated, and quartz-carbonate veinlets near and at
		contact area with Sudbury Breccia; slip parallel to contact which is about
		30° to C.A.
135.1	149.5	SUDBURY-TYPE BRECCIA +/- QUARTZ-CARBONATE VEINLETS
		Non-magnetic, very fine to fine grained, medium to pale greenish grey,
		generally soft, chloritic-sericitic matrix with flow lines; rounded to
		sub-rounded clasts ≤ 1 mm to ~2' in size (~40% clasts > 0.5') consisting
		of pink albitized fragments, very hard silicified light to dark greenish grey
		massive to bedded wackes, pink arkose, soft greenish laminated wackes;
		matrix of breccia is sometimes hard silicified; a few quartz-carbonate veinlets
		and gashes (+/- hematitic alteration) cut fragments and matrix; minor
		Pyrite grains in matrix
		149.5' - contact @ 35° to CA.

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Feet FROM	Feet TO	DESCRIPTION
149.5	272 ft	GOUGANDA FORMATION - ALTERED, ALBITIZED-SILICIFIED, MAINLY ARKOSIC, PARTLY BRECCIATED, +/- QUARTZ-CARBONATE VEINLETS; +/- SUDBURY-TYPE BRECCIA Non-magnetic, intensely to strongly recrystallized, often medium to coarse grained (<1mm) very hard, silicified-albitized, pale to light pinks to pale pinkish greys; occasional bedding visible; 20% (+/-) brecciated zones, 0.5-4' long with greyish (+/- sericite) flood quartz matrix containing hazy to sharp, rounded to angular fragments of host rocks and some very fine grained pale greyish to tan to pinkish laminated wacke fragments; fragments vary in size from ~5 mm to 10 cm (+); breccia matrix is sometimes very minor but often <5 to 25% in volume; flood quartz matrix can occur to about 259.5' Creamy to greyish dolomite porphyroblasts, 0.1-2 cm in size, sub-hedral to anhedral in shape have developed throughout in amounts from trace to locally 10-20% (average ~5%) in the massive rocks, breccia matrix and in fragments; 2-5% dolomite also occurs in all rocks as more uniform to irregular-ragged veinlets (0.1-1 cm wide) and small irregular blotches and patches and gashes +/- quartz; dolomite is sometimes affected by reddish hematitic alteration ~2% scattered, milky to grey quartz +/- dolomite (+/- hematitic) +/- chlorite veinlets mainly 1-5 mm wide (a few 2-6 cm wide) @ 60-70°, 35-45° to C.A. Scattered (locally numerous) red to orange; anastamosing hematitic pervasive

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	alteration veinlets, 1-5 mm wide, @ 10-70° to C.A., some veinlets have
		calcite and/or chloritic core on fracture/slip surface; occasionally the
		hematitic alteration veinlets appear to be cut by quartz-carbonate veinlets; some
		hematitic alteration also can be found as patchy areas;
		Nil to very locally 1% (average < 1/8%) disseminated, 'sub-hedral' to rounded(?)
		Pyrite grains (mainly < 1 mm in size) occur throughout, sometimes within
		the dolomite porphyroblasts as well, occasionally as fracture fillings
149.5	150.3	Pale Pink breccia cut by numerous dolomite veinlets/gashes, and by a quartz gash
		@ 50-65° to C.A., sub-perpendicular to contact @ 149.5'
150.3	150.5 ±	Sudbury Breccia vein with sub-parallel contacts @ 65° and 40° (slip) to C.A. (sub-
		parallel to contact @ 149.5'); pale green to light greenish grey, flow lines,
		soft, sericitic, cut by quartz-carbonate veinlets (hematitic); several small (≤5mm)
		albitized clasts present among others
150.5	153.5	20-25% porphyroblastic and patchy dolomite in darker pink albitized section; some
		patchy (and veinlets of) hematitic alteration, some quartz-dolomite (pink to reddish)
		veinlets, one with chlorite
158.5	159.5	Bedding @ ~30° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
159.5	170.6	Brecciated zone
		160.6-161' - milky to white quartz vein ~3 cm wide @ ~20° to C.A.
		fractured and brecciated by greyish, translucent quartz, some creamy
		to slightly greenish dolomite patches partly replaced by reddish hematitic
		alteration; few wall rock inclusions; some hematitic alteration
		along margins of vein and partly cross-cutting lower portion of vein
		which exhibits apophyses
		164.2' - a 0.1' zone with 2% small veinlets, rags, splashes and some
		disseminated Pyrite
172	175½	Redrilled core, 0.5' ground core
175	176.6	Several (10-15%) pale to light greenish grey(s) irregular, soft (sericitic) to hard
		(silicified) Sudbury Breccia veins with flow lines and apophyses
		in pink plus reddish (hematitic alteration) and grey host rock which is
		brecciated/veined by milky and greyish translucent quartz veinlets/
		ragged small patches, some with white to greenish dolomite and some
		also containing dark green chlorite; dolomite patches and blotches also
		occur in brecciated host rocks; quartz-dolomite veinlets and some hematitic
		alteration cut the Sudbury Breccia as well; <¼% disseminated Pyrite present

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Feet FROM	Feet TO	DESCRIPTION
176.6	184.7	Often brecciated
		181.5-184.7 - Chloritic alteration also in matrix along with quartz and
		dolomite, some chloritic fracture fillings also present; ~3% chlorite,
		some Pyrite disseminated;
185	189	Red-orange, hematitic alteration veinlets, anastamosing @ 15-35°, 50-70° to CA.,
		5-10/foot in pale to light pink rock
192.5	193.5	Similar to 185-189
191	220	~15-20% Breccia
		196-197.5' - Similar to 185-189'
		204.8-206.2' - Bedding @ 5-10° to C.A. in slightly pinkish, light grey fragment
		206.5-208' - 10-15% dolomite patches and porphyroblasts in breccia and in
		fragments; some disseminated Pyrite in dolomite and host rocks
220	241'+/-	Mainly brecciated; sometimes dolomite +/- chlorite forms part of matrix; rocks pale pink to pale grey
		236.3' - 4 cm zone of grey, strongly silicified @ 35-40° to CA. with irregular
		fine dolomite veinlets, cross-cut by grey, translucent quartz (+/- dolomite) veinlets;
		some veinlets and disseminated Pyrite on up-hole contact; also hematitic alteration
		236.4'(+) - 4 cm wide vein of partly bleached silicified-albitized, sericitic-chloritic, pale to light
		greenish grey (+/- pinkish tinge) Sudbury Breccia @ ~40° to CA., cross-cut by quartz-

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Feet FROM	Feet TO	DESCRIPTION
	ctd	dolomite veinlets; breccia has flow lines
241½	242	Medium grey + light grey silicification; speckled by dolomite flecks,
		some hematitic dolomite patches (small)
		242' - hematitic dolomite-quartz-chlorite veinlet with chloritic-hematitic
		slip contacts @ 55° to C.A.
242	249.1	Pale pink, sometimes locally brecciated by dolomite carbonate-chlorite and quartz +/-
		dolomite carbonate +/- chlorite; also several uniform quartz-dolomite-chlorite veinlets 1-5mm size
		243.8' - 4-5 cm wide zone of milky + grey quartz +/- chlorite veining
		@ 55-60° to C.A.
		249' - 0.1' zone of grey silicification @ 75-80° to C.A.
249.1	249.3	Partly silicified, pale greenish greys, sericitic Sudbury Breccia vein
		with flow lines, cut by quartz-dolomite veinlet
249.3	249.7	Two milky (+grey) quartz-chlorite +/- hematitic dolomite veins, 5 cm and 2-3cm
		wide @ 75°-80° and @ ~35° to C.A.
249.7	272	Pale pinks to pinkish greys; variable; few cherty, light grey and tan, massive to laminated
		fragments present to about 258.5'; brecciation by some flood quartz but usually
		accompanied by, or brecciated only by 2-10% dolomite-chlorite +/- quartz veinlets (irregular +
		ragged small gashes + patches); also some uniform quartz-dolomite-chlorite veinlets

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	ctd.	up to 5 mm wide @ 60-70° to C.A.; hematitic alteration in some dolomite
		and as scattered veinlets and small patchy areas in host rocks; scattered areas with dolomite
		flecks and small blotches; Traces of Pyrite visible
		255.5-256' - six, vuggy, quartz-hematitic dolomite veinlets, 1-5 mm wide
		@ 60-70° to C.A.
		258.5-260' - ten (+/-) milky to grey quartz-hematitic dolomite veinlets and
		gashes 1-5 mm wide @ 60-80° to C.A., (one with chlorite)
		263' - 6cm wide milky to grey quartz-chlorite vein @ 60° to C.A.
		265-271' - chloritic (+/- calcite) slips @ 45-50°, 30-35° to C.A.,
		2-1/foot; 271' - slips @ 15° to C.A.
		271.6' - Fault - mud seam @ 40° to C.A.
		271.6-272' - possibly some Sudbury Breccia veining in this area
		272' (±) contact with laminated wacke in broken core - possibly @ ~60°
		to C.A. parallel to mud seam above

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Feet FROM	Feet TO	DESCRIPTION
272	419	GOWGANDA FORMATION – LAMINATED WACKES (+/- PEBBLES) +/- SUDBURY-TYPE BRECCIA
		Non-magnetic, soft, sericitic-chloritic, thinly to thickly laminated with +/- v. thin beds
		pale to light greenish to light grey and dark greenish grey laminations;
		rocks very fine to fine grained; bedding @ 30-60° to C.A. (some deformed)
		occasional disseminated Pyrite grains & clusters & splash; a few pinkish to white
		quartz-carbonate +/- chlorite +/- Pyrite veinlets/gash (cross-cut bedding); <1% small dropstones from ~392'
		~10% Sudbury Breccia veining (non-magnetic) to ~395'; flow lines present
		in matrix; occasional Pyrite present; one breccia vein with a rectanglar quartz-carbonate
		clast?? replaced by Pyrite near 351'; breccia matrix is very fine grained, soft, sericitic-
		chloritic, medium to light greenish grey(s) with rounded to elongate to ragged laminated wackeclasts
272.5	277½	Three Sudbury Breccia veins, 0.3-0.7' wide; with sub-parallel and
		opposing contacts @ 30-45° to C.A. oriented both parallel to and cross-
		cutting the bedding in the wacke which varies from about 50° to 25° to CA.
		Several slips parallel to bedding @~50° near 272';
		272.5-272.8' - Sudbury Breccia vein, contacts sub-parallel @ 45° and 35°
		272.8-273.8' - laminated wacke with bedding @ ~20-10° to CA. opposed to contacts
		with enclosing Sudbury Breccia; some shears @ 35° and 25° to C.A cross-cut
		and disrupt bedding

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Feet FROM	Feet TO	DESCRIPTION
		273.8 - 274.4' - Sudbury Breccia vein with parallel contacts @ 36° ± 25° (slip) to C.A.; down-hole contact parallel to bedding below
		274.4 - 276.4' - laminated wackes with bedding @ 25° to 15° to 40° to C.A. cross-cut by seven fractures +/- carbonate @ 55° to 60° to C.A.; bedding cross-cut by Sudbury Breccia contact @ ~35° to C.A. at 276.4'
		276.4 - 277' - Sudbury Breccia; contacts opposed; down-hole contact @ ~35° to C.A parallel to bedding below;
277	278.2	Laminated wackes, bedding @ 35 to 15° to C.A. and also partly deformed near lower contact with cross-cutting Sudbury Breccia veinlet, ± 1 cm wide @ 35° to C.A. (breccia veinlet is parallel to bedding below); several small cross-cutting shears @ 25-45° to C.A. also offset and disrupt bedding in this section; two quartz-carbonate veinlets, <1 mm wide, sub-parallel to bedding occur near 277'
278.2	299.1	laminated wackes; bedding @ 35° increasing to mainly 55-60° by ~ 300'; in first two feet, some bedding offset along fractures @ 10-30° to C.A.; some scattered pinkish to grey quartz +/- carbonate veinlets ≤ 1 mm wide, @ 50-55° to C.A. (cross-cut bedding) and one grey quartz cuts a sub-parallel shear(s) @ 25° to C.A. which also cross-cuts bedding near 294.6'

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		299.1' - bedding cross-cut by contact with Sudbury Breccia vein @ 45-50°
		to C.A.
299.1	300.7	Sudbury Breccia - outer contacts opposed; down-hole contact @ 60° to C.A.
		truncates bedding @ ~5° to C.A.
300.7	303.7	Laminated wacke, bedding @ 5° to 15° to C.A.; contact with Sudbury Breccia
		~parallel to bedding @ ~45° to C.A.
303.7	305.9	Sudbury Breccia; contacts sub-parallel; down-hole contact @ 40° to C.A.
		(sub-parallel to bedding below)
305.9	311.	Laminated wackes; bedding @ 50-60° to C.A.
		307-309' - Several 1-3 mm wide quartz-carbonate-chlorite
		veinlets and gashes @ ~35° (+/-) to C.A. (cross-cut bedding)
311	311.7	Sudbury Breccia, contacts are sub-parallel @ 35° & 60° to C.A. and truncate
		bedding
311.7	348.6	Laminated wackes; bedding @ 45-55° to C.A.; some scattered quartz-carbonate
		veinlets 1 mm wide @ 35-50° to C.A. (cross-cut bedding)
		322.2' - 3cm Sudbury Breccia vein @ 35° to C.A. (cross-cuts bedding)
		with sericitic slip contacts
		322.4' (+/-) - 323.2' - chloritic fracture with carbonate and some scaley Pyrite @ 0° to

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	10° to C.A.
		323.7 - 328' - fractures +/- carbonate +/- Pyrite grains @ 50-60° to C.A. (parallel and cross-cut bedding), 3-7/foot
		329.7' - Chloritic fracture + carbonate +/- Pyrite scales @ 15° to C.A., sub-parallel to bedding @ 55° to C.A.
		334.7' - carbonate + Pyrite grains/scales on fracture @ 15° to C.A. (sub-parallel to bedding @ 55° to C.A. and cross-cuts quartz-carbonate veinlet, 1 cm wide @ 50° to C.A.)
		337 - 339.5' - Sudbury Breccia; outer contacts @ 35° to C.A., sub-parallel to bedding; some locally disseminated, anhedral - subhedral dolomite (?) grains; Splash and disseminated grains of Chalcopyrite on fracture @ 60° to C.A.
348.6	361	Sudbury Breccia Zone with altered, Laminated Wacke fragments; Breccia matrix is mainly dark greenish grey, chloritized, soft, very fine grained exhibiting flow lines but parts more massive; laminated wacke inclusions appear bleached, light greys (+/- beige) with dark green chloritized laminations; the grey laminations are generally soft to moderately soft but some fragments, or portions of fragments, are hard, silicified, possibly albitized; fragments

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Feet FROM	Feet TO	DESCRIPTION
	ctd	vary in size from < 5mm to 2.5', are rounded to ragged; some of the laminated fragments are kinked and deformed and some fragments have low angle chlorite fracture fillings/veinlets which cross-cut and offset the laminations; fragments have been rotated; breccia matrix contains patchy areas with small flecks of disseminated dolomite(?) (up to 2% locally), minor amounts of disseminated Pyrite
		348.6' - vague contact
		351.4' - Rectangular patch (porphyroblast? or clast??) 1 X 2.5 cm in size with 30% (+) Pyrite replacing? a grey-white quartz-carbonate (calcite) matrix; some Pyrite is subhedral in patch (which occurs in breccia matrix)
		351.7 - 353' ± Kinked and deformed laminated wacke cut by chlorite +/- carbonate veinlet 1-2 mm wide which branches in an angular fashion, veinlets contain some silvery Pyrite (minor Chalcopyrite), and several Pyritic blebs + one cubic (3mm) porphyroblast? with quartz-carbonate (similar to 351.4') occur near the chloritic veinlet
		361' - contact @ 45° to C.A., sub-parallel to bedding @ 65° to C.A.
361	386.8	Thinly laminated to very thinly bedded, medium to darker grey(s) - greenish grey(s); bedding @ 65-55° to C.A. (sometimes kinked), occasional dropstone <1cm to 3cm in size (tops up-hole)

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Feet FROM	Feet TO	DESCRIPTION
		361.9' - bleb of Pyrite + Chalcopyrite
		362.5' - somewhat ragged, pinkish to greyish quartz - dolomite - chlorite veinlet @ 15° to C.A. (cross-cuts bedding) ≤ 1 cm wide
		385.3-386.9' - kinked; somewhat brecciated due to low to high angle chloritic fracture fillings and shears; bedding also flattens to about 10° to C.A. near contact with Sudbury Breccia below
386.9	388.7	Sudbury Breccia - outer contacts parallel @ 30-35° to C.A.; soft, light to medium grey - greenish grey(s) +/- beige matrix with flow lines; deformed, thinly laminated wacke fragments, some bleaching and possibly weak albite alteration; some fragments cut by & weakly brecciated by chlorite veinlets and small patches (+/- disseminated Pyrite)
		388.7' - contact sub-parallel to laminations below
388.7	393.5	Thinly laminated wackes; light to medium greenish grey(s), partly bleached(?) with bedding @ 65-45° to C.A. (sometimes kinked); occasional dropstone
		389-390.5' - gashes and veinlets (<1-2 mm wide) of quartz-carbonate-chlorite @ 30-35°, 45-50°, 65-75° to C.A., irregular to more uniform and sub-parallel; cross-cut bedding; minor disseminated Pyrite +/- Chalcopyrite in a few, 2-10/ foot; wackes may be bleached here

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Feet FROM	Feet TO	DESCRIPTION
		392.2-393' - chlorite-carbonate veinlet (+/- nearby blotchy disseminated Pyrite) @ 0-5° to C.A.; ≤ 1mm wide
		393.5' - contact with Sudbury Breccia irregular @ ~55° to C.A.
393.5	394.4	Sudbury Breccia - light greys to somewhat beige, moderately soft matrix with flow lines; rounded to ragged clasts of laminated wackes, wacke and possibly one a3' rounded clast of dark green metagabbroic(?) rock; minor disseminated Pyrite; outer contacts of breccia are sub-parallel
		394.4' - contact @ 60-65° to C.A.
394.4	419	Thinly laminated, medium to light greenish greys; soft; bedding @ 45-65° to C.A. mainly, and is sometimes vague and occasionally kinked; 1-2% dropstones <5mm - 2cm in size, composed of pink to grey granitic, and green to grey metasedimentary - metavolcanic rocks; some contain disseminated Pyrite; occasional grey-white quartz-carbonate-chlorite veinlet;
		400' (+/-) - 0.2' wide Sudbury Breccia vein(s) @ ~60° to C.A.
		419' - approximate contact

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Feet FROM	Feet TO	DESCRIPTION
419	1530	GOWGANDA FORMATION - MASSIVE PEBBLY WACKE (WEAKLY MINERALIZED WITH PYRRHOTITE/ CHALCOPYRITE/ PYRITE) WITH VERY OCCASIONAL LOCAL LAMINATIONS, + FRACTURE ZONES. Wacke is non-magnetic (except for Pyrrhotite); medium greenish-grey, moderately soft to hard, fine grained, sericitic(?) matrix containing <1-2% quartz & feldspar grains ≤1 mm(+/-) in size, and <1-5% (average ~ 2-3%) rounded to angular, granules and pebbles (≤ 2mm - 0.4', average ~1-2cm) of pink to grey granitic, green(s) to grey(s) metagabbroic-dioritic, grey(s) to green(s) to pink metasedimentary (quartzites to wackes - mudstones) and metavolcanic rocks, and occasional gneissic and schistose pebbles, some epidotized, or carbonatized, or cut by carbonate +/- quartz veinlets/fracture fillings; scattered throughout Pyrite &/or Pyrrhotite (brown) &/or Chalcopyrite partly (sometimes totally) replace some (not all) pebbles and granules as disseminations (internally & on margins), as internal veinlets/fracture fillings, as tiny rags, and as narrow, partial to complete rims about the clasts; disseminations of sulfides (<0.5-5mm) in the wacke matrix may represent completely replaced clasts (some are angular); Pyrrhotite first observed near 467'; Trace to very locally ½% replacement sulfides average ~ ⅛% in unit; Pyrrhotite predominates below ~645'; also scattered throughout are pink (hematitic) to grey-white quartz-carbonate veinlets/gashes, mainly ≤ 1mm wide (but up to 1 cm) @ 10-80° (often 45-60°) to C.A. and varying from <1-3/ 2-5' to more locally 2-6/foot, the veinlets/gashes sometimes have chlorite on margins and/or internally, and some have a light greenish to greenish-grey, bleached, soft sericitic alteration halos (which also occur about some of the pebbles); while the quartz-carbonate veinlets are often barren of sulfides, generally minor amounts of Pyrite +/-

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	Chalcopyrite +/- Pyrrhotite (occur); also very occasionally reddish Sphalerite (between 638 and 1410') or Galena (between 926 and 1225') occur with a few carbonate or quartz-carbonate fracture fillings or veinlets; also fractures (+/- slips) or fracture fillings +/- chlorite +/- carbonate or quartz-carbonate films (@ 5-80° to C.A.) fairly frequently contain (minor) scaley &/or disseminated Pyrite +/- Chalcopyrite & sometimes Pyrrhotite; the quartz-carbonate (+chlorite) veinlets containing Pyrrhotite +/- Chalcopyrite are more prevalent below ~ 1424'; several fracture zones and narrow mud seams present; several narrow beds of wacke and laminated wacke occur; occasional Sudbury Breccia vein to about 682'
428.7		Sheared @ 65-70° to C.A.
430	435	Sericitic (+/- carbonate) fractures/slips @ 15-30°, 45-50° to C.A.; 3-5/foot
440	441	Sericitic (+/- carbonate) fractures/slips @ 15-35° to C.A.; 5/foot
444	444.3	4 pink, hematitic, dolomite-quartz veinlets and gashes +/- chlorite @ 60°, 45° to C.A.; veinlets up to 5mm wide; minor Pyrite in vicinity & some Chalcopyrite & Pyrite in veinlets
449	450.7	Earthy, red hematite on fractures @ 60-75° to C.A. & on carbonate-chlorite slip @ 15° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
451.2		< 5 mm wide, quartz - pinkish carbonate veinlet @ 60° to C.A. with narrow
		bleached halo; minor disseminated Pyrite locally in host wacke
453		1 cm wide Sudbury Breccia veinlet @ 35° to C.A., pale sericitic greenish, flow lines
457.5	458	Sudbury Breccia vein @ 35 to 25° to C.A., pale to medium greenish, flow lines
459.3	460.5	Sericitic-chloritic slip @ 5-10° to C.A. with sericitic shear parallel to slip
461	462.8	Sudbury Breccia veinlet @ 5-10° to C.A., pale greenish, flow lines
480.2	481.5	Sericitic slips (+/- Pyrite scales +/- carbonate) @ 0°, 20-30° to C.A.
489	490	Hematitic, sericitic slips @ 10° and 35° to C.A.
498	499.5	Fractures (+/- carbonate) @ 50-60° to C.A., 4-6/ foot
528.5	585'	Pink to grey-white quartz-carbonate veinlets (+/- Pyrite +/- Chalcopyrite) and fracture fillings
		1 mm (+/-) wide @ 60-70°, 35-45° to C.A.; average ~ 1/ foot
		531.7 - 538' - dull red hematitic stain in veinlets and fractures @ 65-80°, 10-50°
		to C.A., 4-10/ foot
		539.4 - 542.3' - Pink (hematitic) to grey-white quartz-carbonate veinlets/gashes @ 0°,
		60-65° to C.A., some with Pyrite grains; ~ 2/ foot
		578 - 579.3' - chloritic-sericitic slip @ 0-5° to C.A. (+/- carbonate +/- Pyrite)
587.5		Minor Pyrite in 1 cm wide quartz - sericite (epidote?) - hematite - carbonate veinlet
		@ 25° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
598.4'		1 cm wide partly brecciated/sheared zone @ 20° to C.A. bordered by pinkish to white quartz-carbonate-chlorite (hematitic) veinlets and a slip; minor Pyrite
599	600	Ten fractures/+/- carbonate +/- Pyrite @ 60-65° to C.A.
627.1		1 cm wide, milky to grey quartz-carbonate-chlorite veinlet @ 30° to C.A. with slip contacts (+/- Pyrite) and narrow (<3mm) light brownish bleached margins in wall rocks
632.2	641	FAULT/FRACTURE ZONE — Fractured, broken core; fractures/+/-slips @ 60-70°, 30-15° to C.A. Some with carbonate (+/- minor Pyrite), some with chloritic slips, a few are vuggy; Sphalerite + carbonate on 70° open fracture @ ~638'
		632.2'- Slips @ 40-45° to C.A.
		632.2'(+)- mud seam in broken core
641	646.5	Several pinkish quartz-carbonate veinlets (+/- chlorite +/- Pyrite +/- Chalcopyrite) @ 60-65°, 35° to C.A.; Fractures 2-3/foot
649.5		Carbonate fracture @ 60° to C.A. with Galena (?) scales
655.2		Reddish, hematitic irregular, arkosic sandstone lense (?) 0.2-2cm @ ~40° to C.A. invaded by a parallel pink carbonate quartz (+/- chlorite) veinlet
655.2	657 (+/-)	Patchy, pervasive epidotization, minor disseminated Pyrite
		655.3-655.7'- coarse grained pebbly sandstone bed (epidotized matrix) contacts @ 40 & 75° to C.A.
		656-657'- ten, pinkish, hematitic, irregular quartz-carbonate veinlets & gashes @ 0-70° to C.A. (<1-5 mm wide)

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Feet FROM	Feet TO	DESCRIPTION
657.3		0.5-1 cm wide, milky-grey quartz-carbonate veinlet @ 35° to C.A. with chloritic slip margins (+ minor Pyrite)
659.8	660.8	Several pink quartz-carbonate gashes and veinlets @ 5-15° and 65° to C.A.; veinlets and gashes <1-5 mm wide; minor Pyrite +/or Chalcopyrite grains
681.3	681.6	Dark to light greenish-grey, soft, Sudbury Breccia vein @ ~65° & 80° to C.A.; flow lines and some dolomite(?) flecks; vein cut by a fine quartz-carbonate veinlet @ ~80° to C.A.
700	718	Scattered (occasionally locally 3-5/foot) pinkish (hematitic) to grey-white quartz-carbonate veinlets, <1-5 mm wide, @ 10-15°, 20-35°, 55-75° to C.A., some gashes also; veinlets usually accompanied by scaley or disseminated Pyrite grains, sometimes with minor Pyrrhotite +/or Chalcopyrite; one low-angle veinlet has a weakly bleached alteration halo <4 mm wide with darker margins near 701'.
720	734	Eleven, grey (+/- reddish) quartz +/or carbonate veinlets and fracture fillings (+/- scaley Pyrite) @ 10-20° to C.A. (with alteration haloes), and an equal number with scaley Pyrite (but no haloes) @ mainly 60-75° to C.A., which often cut the low-angle veinlets
742		1.5 cm wide, milky to grey quartz-pink carbonate-sericite-chlorite-epidote(?) veinlet with minor Pyrite @ 20° to C.A., plus scaley Pyrite on up-hole fracture contact
742.5		Branching epidote(?)-quartz veinlet ≤5 mm wide & 1-2 mm wide @ 20° to C.A. (parallel

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Feet FROM	Feet TO	DESCRIPTION
	cld.	to veinlet at 742') with minor Pyrrhotite-Chalcopyrite
744	746	Fracture zone; fractures (+/- carbonate -scaley Pyrite) @ 50-65°, 30°, 15° to C.A.; 5-8/foot
750.5	751.9	Pebbly wacke - paraconglomerate with up to 10% pebbles and granules in a medium to coarser grained matrix; greenish grey
		750.5-750.6' - thin bedding (fine and medium grained) @ 35° to C.A.
		750.6-751.2' - irregular, low-angle contact of fine grained wacke matrix with the coarser grained wacke with some apophyses of fine grained matrix penetrate into the coarser matrix (soft sediment mixing?)
		751.9-752' - some bedding @ 55-60° to C.A. (opposed to that at 750.5')
775.6		Pyrrhotite and Chalcopyrite on fracture with quartz-carbonate
792.5	796.2	Carbonate-chlorite fractures @ 35°, 60° to C.A.; 2-4/foot
823	841	Seven, low-angle (0-15° to C.A.) sub-parallel to parallel, mainly greyish carbonate-chlorite-quartz veinlets/fracture fillings plus scaley Pyrite on fracture contacts and some with minor Pyrite (disseminated), 2-3' long; with bleached (paler greenish, to tan near veinlets) alteration haloes & apophyses ≤ 1.5cm wide; with dark thin margins; occasionally 2 parallel veinlets are present within the haloes and minor ladder-like quartz-carbonate veinlets (≤2mm) are enclosed by the parallel veinlets; also present are some, 1-3mm ≤ 1-2 mm wide

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	wide, quartz-carbonate (+/- minor disseminated Pyrite) veinlets / tension gashes
		@ 30 - 15° to C.A. (<1 to occasionally locally 3-6/foot) sometimes
		truncated by the low-angle veinlets/fracturefillings and occasionally
		offset by the low-angle fractures; overall ≤ ½% Pyrite and ~3%
		veinlets/gashes in section; wackes are soft - moderately soft
843.3		2 mm wide chlorite mud seam (fault gouge) with minor quartz-
		carbonate on up-hole contact and slip on down-hole contact, both @ 35° to C.A.
843.3	844.5 ±	Altered, contorted, siliceous, soft, laminated wackes, dark grey (chloritic)
		and tan-grey (sericitic, some silicification?); small pebble near up-hole
		contact
844.5	845.2	Massive wacke with several dark, small possible Sudbury Breccia
		veinlets and one small pale greenish sericitic shear @ ~75° to C.A.
848	858	Some bleached alteration haloes, 3cm to 2mm wide, @ 5-15° to C.A.,
		lighter greenish grey with darker margins, some with quartz-carbonate-
		chlorite (+/- Pyrite) veinlet/gash in cores.; some quartz-carbonate veinlets
		<1-2 mm wide @ 50-60° to C.A. intersect with low-angle veinlets
		in alteration haloes.; host pebbly wackes soft
860.3	861.5	Scaley Pyrite on carbonate-chlorite slip @ 5-10° to C.A.

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Feet FROM	TO	DESCRIPTION
883.6	884(±)	Chlorite-carbonate slip @ 20° to C.A. at 883.6' followed by brecciated zone in hard, lighter greenish grey wacke with 15-20% darker, irregular-angular silicate veinlets <0.5-5mm wide
910.7	914.2	Bleached, light greenish grey alteration halo @ sub-parallel to C.A. with scaley Pyrite on chlorite-carbonate fracture/slip in core of halo.
926.8		Grey, carbonate-quartz fracture filling @ 75° to C.A. with disseminated Pyrite ± Chalcopyrite(?) intersects with a sub-parallel chloritic fracture @ ~60° to C.A. with a Pyrite spot enclosed
		by Galena, then dark reddish Sphalerite and some Pyrrhotite; several other carbonate-quartz (+/- Pyrrhotite) gashes/veinlets (<1-2 mm wide) @ 60-65° to C.A. in vicinity.
931.5		Sheared quartz-carbonate-chlorite veinlet(s) <1-2mm wide @ 20° to C.A. with Pyrite,
		Pyrrhotite ± Chalcopyrite; 2-3mm wide bleaching (with disseminated Po, Cp) along up-hole contact
932	931.4	Two pinkish to greyish quartz-carbonate veinlets (≤1-2 mm wide) @ 0-5° to C.A. with some
		Pyrrhotite ± Chalcopyrite, intersected by several quartz-carbonate veinlets/gashes ≤0.5mm wide
		@ 45-50°, 60°, 70-75° to C.A. +/- Pyrrhotite +/- Pyrite
941.2	942.3	Soft, thinly laminated, greenish greys (tan near down-hole contact) sericitic-chloritic wackes (+/- pebble
		bedding @ 70-75° to C.A.; some small (≤1mm) carbonate gashes (+/- Py +/- Po) mainly parallel to bedding.
942.3	947.5	Greyish carbonate-quartz veinlets/gashes/fracture fillings (<0.5-2mm wide, 3-4/foot) @ 40-50°, 60-65° & 70° to C.A. (sub-parallel to cross-cutting) with disseminated Po ±/or Py ±/or Cp.
955.5	958.5	Three, regular to irregular, hairline to 3mm wide, pinkish carbonate-quartz (+/- Pyrrhotite) veinlets
		@ sub-parallel to C.A., with branches (gashes) @ 10-20° to C.A.; 1 intersect with several, 0.5-2mm
		wide pink to grey quartz-carbonate (+/- Py, +/- Cp) veinlets @ 60°, 70-75° to C.A. and two fractures
		with carbonate (± scaley Pyrite) @ 0-10° to C.A.
961.3		Greyish quartz-carbonate veinlet (with branching gashes) ≤ 3 mm wide @ 60-65° to C.A.
		with disseminated Pyrite, Chalcopyrite, Pyrrhotite and a few Galena grains

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Feet FROM	Feet TO	DESCRIPTION
975.5	991	Carbonate-quartz veinlets (some pinkish; +/- Pyrrhotite-Chalcopyrite or disseminated Pyrite) 1-2 mm wide @ 60-70° to C.A., and fractures with carbonate +/- chlorite +/- scaley Pyrite @ 25-30°, 50-60° and 10-15° to C.A.; 2-3 / foot
		~985' - Fracture @ 15° to C.A. with carbonate and possibly some Galena
994		1-2 cm wide, sheared and/or banded quartz-carbonate-chlorite veinlet @ 20° to C.A., with fine disseminated Pyrite and parallel discontinuous veinlet or lenses of Pyrite ≤ 2 mm wide; about 2-3% Pyrite in veinlet; below 994' some scattered veinlets, gashes & fracture fillings similar to 975-991' interval
1003.7		Pink quartz-carbonate veinlet, 3mm wide @ 55° to CA, with disseminated Pyrite & some tiny Galena (?) grains; scaley Pyrite on intersecting fracture @ 30° to C.A. near veinlet
1023.7		3-4 cm thick zone of light greenish, sericitic, thinly laminated, very fine grained wackes with undulating bedding, some broken laminations and a down-hole set of cross-beds overlying a coarse grained lense of sandstone 0.1-1 cm thick; the laminated wackes drape over some granules at the up-hole contact of the sandstone lense indicating tops are up-hole; up-hole contact of laminated wackes is @ ~75° to CA. and the down-hole contact of the sandstone is @ ~60-65° to CA.; several greyish quartz-carbonate (+/- Pyrrhotite +/- Chalcopyrite) veinlets, < 1-2 mm in width,

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	invade the laminated rocks along bedding, and a little disseminated Pyrrhotite occurs in the sandstone lense
1026.5	+/-	2-7 mm wide greyish quartz-carbonate veinlet with disseminated and rags of Pyrrhotite +/- Chalcopyrite, often along margins of veinlet which is @ ~15° to C.A.
1038.2	1045.8	Five carbonate (+/- chlorite +/- Pyrite +/- Pyrrhotite) fractures @ sub-parallel to C.A.; intersect with several quartz-carbonate fracture fillings with disseminated Pyrrhotite +/- Pyrite +/- Chalcopyrite @ 35° and 70° to C.A.
1063 +/-		Local bedding @ 50° to C.A.
1062.5	1072.5	Six fractures @ 15°, 0-5° to C.A. with carbonate +/- chlorite +/- scaley Pyrite and several 1-2 mm wide grey white quartz-carbonate veinlets @ 60-65° to C.A. (+/- Pyrite)
		1065.4 - 1067' - 5-7% branching to sub-parallel to cross-cutting, irregular to more uniform, 1-15 mm wide carbonate-quartz veinlets/gashes @ 25° to 0° to C.A. with light greenish, soft, sericitic alteration haloes; carbonate is pink to reddish (hematitic) to white and quartz is milky to grey; veinlets contain small patches/blebs, disseminated Pyrite (~2% Pyrite in zone)
		1069.4' (+/-) some weak bedding @ ~55° to CA.

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Feet FROM	Feet TO	DESCRIPTION
1075.5	1075.8	Fine grained bed @ 50° to C.A.
1077	1081.5	About 15 carbonate +/- quartz +/- scaley Pyrite +/- Chalcopyrite fractures and veinlets @ 25-35°, 50°, 0-15° to C.A., minor sulphides;
		1077.5 - 1078.5' - Chloritic slip with scaley Pyrite and carbonate @ 0-15° to C.A.
		1080' - 3-4 mm wide, quartz-carbonate-chlorite (+/- Pyrite) veinlet @ 25° to C.A.
1103		Quartz-carbonate-Pyrite veinlet(s) up to 5 mm wide @ 25° to C.A. with sericite light greenish grey alteration halo which weathers with apophyses; broken core
1116.5	1116.8	(several thin beds) @ 65-70° to C.A.
1126		2 mm wide quartz-pink carbonate (+/- Pyrite) veinlet @ 25° to C.A.
1147.4		2 mm wide quartz-carbonate (+/- Pyrite) - chlorite veinlet @ 50° to C.A.
1157.8	1158.4	Several chloritic slips with carbonate +/- Pyrite +/- Pyrrhotite (?)
1163.5	1164.5	Chlorite fracture @ 50-10° to C.A. with carbonate and scaley Pyrite,
		plus a parallel quartz-carbonate veinlet, 1 mm wide, with disseminated
		and small rags of Pyrrhotite enclosed in a light greenish grey
		alteration halo ~5 mm wide; a small granule with similar alteration
		halo occurs nearby
1170.8		1 cm wide, sheared quartz-carbonate-chlorite veinlet with a little

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	disseminated Pyrrhotite and a Blebs of Pyrite; internal slip parallel to contacts @ 25° to C.A.
1171.1	1171.8	Some pebble and granules with light greenish grey, soft alteration haloes (and will have this feature similar to alteration haloes near 1163.5' and those below
1173.5	1175.5	7-8% carbonate-quartz (+/- chlorite +/- Pyrite +/- Pyrrhotite) fracture fillings/veinlets, intersecting @ 10-15° to C.A., with 0.2-8cm wide, light greenish grey alteration haloes (+ apophyses) about some of the structures and about some pebbles
1180		Pink quartz-carbonate veinlet (1mm) @ 0° to C.A. with disseminated Pyrite
1181.4	1182.3	Pinkish quartz-carbonate veinlet, 1-3 mm wide @ 10° to C.A. with some disseminated Pyrrhotite and Chalcopyrite (?)
1183.7	1183.9	Strongly altered; soft, medium grey, with some quartz-carbonate veinlets (+/- vugs) and gashes <0.5-2 mm wide @ 5-75° to C.A.; contacts @ ~75-80° to C.A.; light greenish grey alteration for 1 cm along up-hole contact
1183.9	1186	60-70% light greenish grey, soft sericitic alteration as a more massive area, and as haloes (with apophyses) about some chlorite-carbonate-Pyrite fractures/fracture fillings @ 0-20° to C.A.; near 1184' irregular, chloritic veinlets and "crackle" fractures
	fillings	(+/- carbonate) contain a little disseminated Pyrite; and some patchy areas with small

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	carbonate "crackle" fracture fillings occur in medium greenish grey soft host
		wackes between 1184.2 - 1184.6'
1186		Two chlorite +/- carbonate slips @ ~80-85° to C.A.
1186	1186.8	Light greenish grey, ragged to wispy sericitic shears (5-10%) @ 85° to
		35° to C.A. in the pebbly wacke.
1187	1188.1	Dark, quartz - carbonate - chlorite +/- Pyrite veinlet < 0.5 - 2 mm wide @
		0-5° to C.A. with light greenish grey alteration halo 2-3 cm wide.
1188.3	1188.8	Ragged, patchy light greenish grey alteration bands/shears @ 65-75° to C.A.;
		chlorite - carbonate - Pyrite veinlet @ 75° to C.A. near 1188.5'; possible
		Chalcopyrite in several (≤ 1 mm wide) quartz-carbonate gashes near 1188.6'
1189.3	1189.8	Several carbonate - chlorite - scaley Pyrite fractures @ ~15° to C.A. with
		light greenish grey alteration haloes, partly offset along some quartz-
		carbonate +/- Pyrite veinlets/fracture fillings @ ~55° and 35° to C.A.
1192.3	1193.9	White-grey carbonate - quartz +/- Pyrite fracture fillings @ 50-65°, 80° to C.A.; 3-6/
		foot; 1192.7' - pink to greyish quartz - carbonate - pyrite veinlet 3-5 mm
		wide @ 50-55° to C.A.
1194.6		Irregular pink quartz-carbonate gash intersects with grey quartz - carbonate - chlorite
		+/- Pyrite fracture filling @ 5° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
1202.3	1207.9	About 10, grey, en-echelon quartz-carbonate-chlorite-Pyrite or-Pyrrhotite veinlets @ ~10° to C.A. Some with intersecting tension veinlets @ 35-40°, 60° to C.A.; veinlets <1-2 mm wide mainly; 1206.7'-two chlorite-carbonate-scaly Pyrite fracture fillings @ 75° to C.A. cut enechelon veinlets @ 10° to C.A.
1209.4	1209.9	Two pink tourmalinish quartz-carbonate-chlorite veinlets, 2 mm wide @ 60°, 45° to C.A. with a little disseminated Pyrite (up-hole) or Pyrrhotite (down-hole veinlet)
1213	1213.2	Three chlorite-carbonate-scaley Pyrite fracture fillings @ 70° to C.A. the down-hole fracture intersects with a quartz-carbonate-chlorite veinlet 1 mm wide @ 30° to C.A. containing some Pyrrhotite and Pyrite
1223.5	1225.5	About 10, en-echelon to bralicking, brownish fracture fillings/veinlets @ ~10° (+/-) to C.A., some with Pyrrhotite, carbonate and one with possible Galena specks
1232.5	1255.9	Some scattered carbonate +/- quartz +/- chlorite fracture fillings/veinlets @ mainly 60-70° to C.A., some with Pyrrhotite +/- Chalcopyrite and Pyrite +/- Pyrrhotite
1256		0.5-1cm wide, banded, milky to grey quartz-carbonate-Pyrite veinlet @ 60° to C.A. with an apophysis @ 60° to C.A. (up-hole), weakly hematitic

Box 65

Box 66

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Feet FROM	Feet TO	DESCRIPTION
1257.5	1258.2	Two quartz-carbonate-chlorite veinlets, parallel @ 30° and 20° to C.A., 2 and 5mm thick; the up-hole veinlet contains a little pyrite and the down-hole (thicker) veinlet appears sheared and contains a little Pyrrhotite; a light greenish grey alteration (soft, sericitic) halo surrounds each veinlet, the up-hole halo is 2 cm thick and the down-hole halo is 5 cm thick; in the vicinity some pebbles are also surrounded by a similar halo both those with Pyrrhotite replacement and those pebbles without Pyrrhotite; a few brownish carbonate-chlorite fracture fillings @ 10°, 25° to C.A. are opposed and partly cross-cut the alteration halo on the upper veinlet, and one is parallel to the up-hole veinlet
1260.5	1261.5	2-3 mm thick quartz-carbbonate-chlorite veinlet @ 10° to C.A.; slip contact with scaley Pyrite; 2 cm thick light greenish grey alteration halo
1270.6	1271.8	Chlorite-quartz-carbonate veinlet/fracture filling (with some Pyrrhotite +/- Chalcopyrite) @ 5-10° to C.A., intersected by (and minor offset by) a carbonate-fracture filling with minor Pyrrhotite @ 50° to C.A.
1291.	1291.3	Several pinkish quartz-carbonate gashes/veinlets @ 25-35° to C.A. with minor Pyrite and Pyrrhotite (?)

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Feet FROM	Feet TO	DESCRIPTION
1292.7		Carbonate - chlorite fracture @ ~5° to C.A. with scaley Pyrite; broken core
1295.4		1-2 mm wide pinkish quartz - carbonate veinlet with a little Pyrite, @ 60° to C.A.
1298.1		Slip along chlorite - carbonate - quartz - Pyrite veinlet @ 60° to C.A.
1300		Pyrrhotite and Chalcopyrite in 0.5 mm wide quartz - carbonate veinlet @ 60° to C.A.
1300.8		3mm wide slightly pinkish carbonate - grey quartz veinlet with minor Pyrite
		@ 25° to C.A. veinlet contains a few angular wall rock fragments and
		branches into several fine sub-parallel veinlets; quartz appears to brecciate(?)
		carbonate in places
1301.1	1306.7	Carbonate ± chlorite fractures +/- slips @ 60° to C.A., some with Pyrite
		2-3/foot
1309		Carbonate - chlorite fracture/slip with scaley Pyrite @ 10° to C.A.
1313	1314	Quartz - carbonate chlorite veinlet 2 mm (+/-) wide @ 10° to C.A. with some
		scaley Pyrite, and 2 cm thick; light greenish grey alteration halo;
		some granules and pebbles (+/- Pyrrhotite) also have similar alteration
		haloes in vicinity of veinlet
1319.2	1326.6	Ten (+/-), 1-2 mm wide pinkish carbonate - quartz - chlorite veinlets @ 70-80°
		to C.A. with a little disseminated Pyrrhotite +/- Chalcopyrite +/- Pyrite;
		also several veinlet/slips with scaley Pyrite @ 45°, 25° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
1338±	1334.5	Carbonate - Chlorite - scaley Pyrite fracture filling @ ~5° to CA. plus several other carbonate fracture fillings @ 45° and 20° to C.A.
1341.6	1342	Mafic metavolcanic clast with some disseminated and veinlets of Pyrite, veinlets with Pyrrhotite and disseminated Pyrrhotite and/or Chalcopyrite and a fracture with Pyrrhotite - Chalcopyrite; a low angle brownish (altered) carbonate fracture filling cuts through the clast and surrounding pebbly wacke
1343	1348	Fracture zone (+/- slips); Fractures +/- carbonate +/- chlorite (occasional scaley Pyrite) @ 70-80°, 60-65°, 50°, 25-10° to CA.; 5-8/foot
1349	1431.5	Pebbly wackes are generally fractured (+slips) (1-6/foot average 2-3/foot), often with chlorite-carbonate +/- scaley Pyrite (occasionally with Pyrrhotite) @ 70-75, 60-65°, 50-55° and also 30-10° and occasionally 5-15° to C.A.; a few grey-white and pinkish quartz-carbonate veinlets @ 20-25°, 1-3 mm wide, occasionally with minor Pyrite or Pyrrhotite
		1356.3 - 1362.3' - reddish, Sphalerite(?) spotting with carbonate film on six fractures @ 75-80° to C.A. (some with Chalcopyrite near 1360.8')
		1376' - possible Sphalerite? with carbonate film on fracture @ 50° to CA
		1393.4 - 1393.9' - pale greenish, epidotized clast (?) with irregular contacts which are light grey to pale reddish (hematized?) partly silicified

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	and carbonatized; some disseminated Pyrrhotite present; this fine to
		medium grained mafic-dominated clast (?) or altered wacke(?) is cut
		by a pinkish, 1-2 mm wide, quartz(-carbonate?) veinlet @ 20° to C.A. Sph
		1410' - fracture with carbonate film and reddish Sphalerite(?)
		spotting,
		1423.8 - 1431.5' - several 1-2 mm wide, grey-white quartz-carbonate
		(chloritic margins) veinlets with Pyrrhotite dissemination and narrow
		(1 mm) bleached lighter greenish-grey halos @ 65-80° to C.A.
		these are similar to those found below 1431.5'
		1428.8 - 1429.2' - medium greenish-grey epidotized, mafic clast cut by
		numerous, sub-parallel, grey-white quartz-carbonate gashes/veinlets, 1-3 mm wide
		@ 15-45° to C.A. (some branch)
1431.5	1524 +/-	Zone of grey-white, quartz-carbonate-chlorite-Pyrrhotite (+/- Chalcopyrite +/- Pyrite) veinlets/fracture
		fillings, < 1-3 mm wide, mainly sub-parallel @ 65-80° to C.A. (occasionally 15-45°), 1-6/foot averaging
		< 2-3/foot; chlorite on margins or internal to veinlets; Pyrrhotite disseminated in veinlets or as
		small rags or as small veinlets sometimes oblique to veinlet walls, and also as scales on veinlet
		margins; most veinlets have 1-3 mm wide, bleached, lighter greenish, sericitic(?) alteration halos;
		also, as usual, Pyrrhotite +/- Chalcopyrite partly replaces some pebbles and granules in the wacke,
		≤ 1/2% sulfides in section

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	some chlorite-carbonate-scaley Pyrite fractures/slips @ 35°-40°, 20-25° to C.A. scattered (< 1/5' to 2/foot) from about 1487'
1524	1530	Pebbly wackes with fewer grey-white to slightly pinkish quartz-carbonate veinlets/gashes (+/- Pyrrhotite +/- Chalcopyrite +/- Pyrite) 1-3 mm wide @ 70°, 50-55°, 10-15° to C.A. (1-2/foot); also some pebbles partly replaced by disseminated and small blebs of Pyrrhotite +/- Chalcopyrite +/- sulphide grains; carbonate-chlorite fractures (+/- Scaley Pyrite) @ 40-50° cut some veinlets and occasionally offset them; contact @ 1530' in broken core
		1525.1' - ≤ 1 cm wide slightly pinkish quartz-carbonate veinlet @ 70° to C.A. with small wall-rock inclusion and minor Pyrite blebs
		1525.15'-1525.5' - quartz-carbonate veinlet, 2-4 mm wide @ 20° to C.A. (sub-parallel to veinlet at 1525.1') with angular wall rock fragments and a slip (with carbonate) parallel to veinlet, cut by chlorite-carbonate fracture @ 30° to CA. with scaley Pyrite
		1529.5' - 1-2 cm wide zone of quartz-carbonate +/- chlorite "crackle" fracture fillings/veinlets (+/- Pyrite) bounded by ≤ 1 mm wide carbonate veinlets @ 70-75° to CA. with disseminated or scaley Pyrite and cut by a Pyritic quartz-carbonate veinlet 1 mm wide @ 0-10° to CA.

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Feet FROM	Feet TO	DESCRIPTION
1530	1566 +/-	GOWGANDA FORMATION - THIN-MEDIUM BEDDED + LAMINATED WACKES +/- BLEACHING +/- QUARTZ-CARBONATE-CHLORITE VEINLETS
		Soft, non-magnetic, medium to darker greenish greys, very fine to fine grained, wackes, with bedding @ 70-80° to C.A.; a few scattered hard (siliceous?) epidotized beds 3-10 cm thick; ~10% short (≤ 5cm) sections (scattered to ~1554') of laminated interbeds often bleached (light greys, tan to beige, soft, sericitic) and often invaded by grey-white (occasionally pinkish) carbonate-quartz-chlorite veinlets (<1-3mm wide) parallel to bedding and accompanied by some Pyrrhotite &/or Pyrite (and occasionally a little Chalcopyrite) dissemination & small blebs; as well, in the thin to medium (≤ 25cm) bedded sections some of the high angle veinlets branch or are cut by (and/or offset by) similar carbonate-quartz veinlets and gashes @ 15-30° to C.A.; veinlets occur at intervals of 2-6(+)/foot (with an average of ~ 3/foot) down to about 1550' (+/-)
		Rocks fracture along (or parallel to) bedding; some chloritic fractures with carbonate +/- scaley Pyrite @ 10-25° to C.A. (+/- slips); some broken fractured core locally; < ½% sulfides overall
		1546-1547.4' - Former zone of soft sediment deformation in laminated to thin bedded wackes, subsequently partly impregnated by a matrix of quartz-carbonate-chlorite

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	(+/- Pyrrhotite +/- Chalcopyrite blebs, disseminations) and a few carbonate-quartz veinlets and
		chlorite-carbonate veinlets; zone is a "crackle" breccia in part; fragments are sub-rounded to
	angular,	and lower parts of zone have numerous, small, angular, broken laminated wacke chots set in
		a quartz-carbonate-chlorite matrix; Trace to 1% sulfides in section which has
	-	contacts parallel to bedding; just down-hole from section, a bleached bed(s)
		is broken up by some irregular, anastamosing, chlorite-carbonate veinlets @ 0° to 70-80°
		to C.A. over ~ 5 cm. length
		1553.9 - 1555.8' - massive wacke with a 3 mm wide quartz-carbonate-
		chlorite veinlet (minor Pyrite) @ 70° to C.A.. (this would probably cross-cut a 1-3
		cm. wide zone of bleached bed(s) @ ~75-80° to C.A., with branching alteration veinlets (+/- Pyrite)
		parallel to and cross-cutting bedding, up-hole @ 1553.8'); several chloritic
		fracture/slips with carbonate and some scaley Pyrite @ 15-25° to C.A. in
		the massive wacke
		1555.8 - 1566' +/- Soft, light to medium to dark greys - greenish greys, very fine-fine
	grained	laminated to thinly bedded, sericitic to chloritic wackes; partly deformed due
		to soft sediment deformation (some folding, broken lenses and bedded balls);
		bedding @ 60-80° to C.A.; some lenses, balls and beds are hard (siliceous?) and
		epidotized; occasional small drapstones are present; a little Pyrite

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	is present as disseminations, small (≤5mm) clusters of disseminations and in several quartz-carbonate-chlorite veinlets (≤3 mm wide); one minor granitic granule is partly replaced by Chalcopyrite near 1563.4'; several chloritic fractures (with carbonate and scaley Pyrite) having dark brownish alteration haloes (<2 mm wide), occur @ 0-15° to CA. between about 1562-1565.2' and these are cut by sub-parallel carbonate fractures/ slips @ ~30°, 40° to CA. near 1564'
1566½	1583.6 ±	GOUGANDA FORMATION - PEBBLY WACKES + FRACTURE ZONE (+/- ALBITE HALOES)
		Soft to moderately soft, non-magnetic, fine grained to very fine grained, light-medium greenish greys (sericitic-chloritic) with 1-2% scattered, rounded to sub-angular, pink to grey granitic, gabbroic(?), metasedimentary-metavolcanic pebbles and granules <1-3 cm in size (a few partly replaced by disseminated Pyrite, occasionally by Chalcopyrite); very occasional weak bedding observed @ 55-60° to CA.; <1% sulfides
		Rocks fractured (much mechanically broken core) mainly from about 1569' with carbonate (+/- chlorite) on numerous fractures often @ 0-15°, 25-35° occasionally 50-60° to CA.; (fracture zone to about 1587');; some scaley +/- disseminated Pyrite occurs

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	on many of the fractures with carbonate (occasionally chalcopyrite present); the low angle (0-30° to CA) fractures often have dark brownish alteration haloes in the outer parts of the fracture zone; and a pinkish albite alteration borders many of the fractures. (mainly 0-15°) from about 1570-1580'+/- 1575.7'+/- local network of irregular, pinkish, hard, albite alteration veinlets cut by (and cored by) quartz-carbonate-chlorite-Pyrite veinlets 1579'+/- - similar to 1575.7' (A few quartz-carbonate +/- chlorite veinlets, 1-2 mm wide, @ 0-10°, 25°, 60°+/- to CA. are present in zone)
1583.6	1626.9	GOWGANDA FORMATION - VARIABLE, THICKLY BEDDED TO LAMINATED WACKES +/- SUDBURY-TYPE BRECCIA VEINING
		Soft, non-magnetic, fine to very fine grained, medium (occasionally dark) to light greys - greenish greys; thickly to medium bedded, interbedded with 30%(+/-) thinly bedded to laminated wackes; bedding @ 50°, 65-75° to CA.; some parts with soft sediment deformation (slumping of laminations, balls); two dacite dykes between 1595-1598'; generally a few scattered carbonate +/- quartz +/- chlorite veinlets and fracture fillings parallel to bedding and

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	@ 15-25° to C.A. (a little scaley Pyrite +/- Chalcopyrite in some);
1583.6	1587	Fracture zone continues from above (similar); a few Pyrite cubes
		(2-5 mm) have also developed.
1605.6	1607.4	Several, fine grained, pink, hard albitized, arkosic(?) laminations (plus several
		broken fractured lenses/fragments in a local soft sediment brecciation zone, 4cm thick
		near 1605.7') up to 1 cm thick @ 70-75° to C.A., some appear
		partly epidotized and are cut by low-angle quartz-carbonate-chlorite veinlets
		1606.1' - few irregular faintly pinkish veinlets emanate from the
		pink altered lamination
		1607.3-1607.4' - pink altered bed offset by irregular chloritic breccia
		(1% carbonate) with carbonate fracture filling @ ~40° to C.A.
1607.7	~1619	Zone of 35% Sudbury Breccia veining; soft, pale to medium grey(s) to
		locally beige (bleached?) sericitic, aphanitic to fine grained matrix, with
		variable flow (swirling) lines in matrix around clasts and contacts; clasts within
		veining are fine to medium grained (±0.5 mm) wackes (occasionally laminated)
		rounded to elongated, slivered to ragged to contorted, <1 mm to a few centimetres
		in size (clasts between veining range from 0.4-3' in size); vein contacts

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	are parallel to sub-parallel to opposed @ 15-20° to 80° to C.A., smooth (+/- apophyses)
		and can be parallel to and also cross-cut bedding; breccia veining
		has widths from < 1 cm to 2'; some of the larger intervening
		clasts also show some disrupted bedding due to soft sediment deformation;
		and bedding varies from 0° to 40° to CA. (often 25-35°); scattered sericitic
		+/- chloritic +/- carbonate fractures/slips @ 15-50° to C.A., some parallel to or along
		breccia contacts, others cross-cut breccia;
		1607.7' - slip contact of 4 cm wide breccia vein @ 50° to CA. (would
		cross-cut bedding @ 65° to CA. up-hole from contact)
		1616 - 1619' - often fairly numerous, irregular, anastamosing carbonate-quartz
		veinlets (1-2 mm) and fracture fillings with chloritic-sericitic contacts @ 0-25° mainly,
		which cut breccia and larger clasts (some with minor Pyrite); core partly
		broken
		1619' - irregular breccia contact plus apophyses
1619	1626.9'	Medium to thinly bedded very fine to fine grained wackes with several sub-parallel (mainly) Sudbury Breccia veinlets
		up to 1 cm wide @ 60°, 30-40° to CA between 1623.1-1625.5'; wackes are
		light grey(s)-greenish grey(s) to dark greenish grey; soft, sericitic/to chloritic
		1619 - 1624' (+/-) - often numerous, fine, dark, chloritic fracture fillings @ 0-45° to CA.

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	which are locally a network of "crackle" fracture fillings in light to medium grey(s) - greenish grey(s) medium to thin bedded (occasionally laminated) wackes with bedding @ 60° to 40° to C.A. (some deformed)
		1621.8' - 1% disseminated Chalcopyrite in/near a chloritic fracture filling, cut by carbonate veinlet @ 0-20° to C.A.
		1624.4-1626.9' - fine network of light greenish-grey sericitic fracture fillings (+/- shears) @ 0-25° to C.A.
		1625.2-1625.5' - sericitic-chloritic Sudbury Breccia veinlets <0.5-2cm wide @ 40° ± 50-60° to C.A. on margins of dark greenish grey, medium grained wacke bed
		1626.3' - Partly folded wacke bed (similar to 1625.2') <0.5-2cm wide @ 30-45° to CA. enclosed by dark, chloritic, fine grained, sheared wacke
		1626.8' - 3cm wide wacke bed (similar to 1625.2') @ 55° to CA.; bleached veining in surrounding wackes plus a fine network of sericitic fracture fillings
1626.9	1668.6	GOWGANDA FORMATION - MASSIVE TO THICK BEDDED WACKES (+/- LAMINATIONS) WITH SHEARS AND BRECCIATED ZONES - ROCKS STRONGLY ALTERED
		Rocks are soft to very soft, non-magnetic, medium to dark grey(s) - greenish grey(s), fine grained to sometimes medium grained (≤ 0.5mm); sericitic-chloritic to chloritized, occasionally hard and silicified; wackes are partly brecciated (NOT Sudbury Breccia) ~40% of interval between ~1632-1656.3'; fragments consist of very soft, chloritized/sericitized, sometimes laminated, angular to

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	sub-rounded wacke, 0.2-3cm(t) in size, set in a fine to medium (≤0.5mm) grained, altered, very soft, often contrasting somewhat lighter coloured chloritized-sericitized (+ carbonate ??) wacke matrix (25-50% of breccia zones); sometimes breccia zones are vague with little contrast; contacts sub-parallel @ about 20-35° to C.A., with zones of brecciation up to ~2' long with intervening massive wacke (occasionally a few laminations @ 20° to 60° to C.A. sub-parallel to contacts and opposed to contacts) +/- somewhat lighter coloured bleached shears +/or alteration veinlets occasionally cored by fine carbonate (?) fracture fillings @ 20-50° to C.A. (sub-parallel to anastamosing); occasional quartz-carbonate veinlet (+/- minor Pyrite grains) <1mm wide, @ 20, 70° to C.A., cuts breccia
1626.9	1638 +/-	Often numerous, anastamosing, light greenish grey bleaching veinlets +/or haloes (<0.2-2cm wide) cored by locally intense, fine carbonate-quartz fracture fillings @ 10-35° to C.A.
		1631.8' - sericitic slip @ 25° to C.A. 1632' - irregular breccia contact
		1637' - open fracture with quartz crystal coating @ 20-25° to C.A.
1656.3 ±		Irregular breccia contact @ ~25° (+/-) to C.A. (some silicified wacke invaded by breccia)
1656.3	1657.6	Medium greenish grey, fine grained wacke, silicified, very hard, with four, 2-3 mm wide quartz +/- carbonate veinlets @ 0-10°, 25°, 45° to C.A. in

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Feet FROM	Feet TO	DESCRIPTION
		central part; chloritic margins on veinlets
		1657.9' - contact @ 55° to C.A. with local brecciation below
1657.8	1658.6	Very soft, chloritized, dark greenish grey with lighter (sericitized?) bleached bands/
		halos @ 20-25° to C.A., some cored by fine carbonate(?) fracture fillings
		sub-parallel to contact at 1657.9' where some small quartz patches are also present in matrix,
1659.7	1666.7	Soft to very soft, often dark greenish grey, chloritized wackes; scattered laminations
		and some thin beds up to several cm. thick @ 60-70° to C.A.
		1661.8-1663.2' - harder, fine to medium grained wacke; contacts
		@ 65° to C.A.; several chloritic fractures (± carbonate?) @ 25° to C.A.
		opposed to contacts
		1663.2' - shearing @ 65° to C.A.
		1663.2'-1663.8' - fine carbonate(?) fracture fillings @ 20° to C.A. (opposed
		to those at 1661.8') plus lighter bleaching
		1664.8' - sericitic shears @ 25° to C.A. cut and offset a lamination @ ~75° to C.A.
		1666.7' - contact @ ~20° to C.A.
1666.7	1668.6±	Soft to very soft, very fine to fine grained, medium to dark greenish grey, chloritized-
		sericitized; some vuggy fractures and broken core; 2mm wide quartz-carbonate
		veinlet @ ~10° to C.A. at 1668.3' (opposed to vein at 1668.6')

1668.3

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Feet FROM	Feet TO	DESCRIPTION
		1668.6' - bleaching and silicification above and parallel to contact with quartz-carbonate
		@ ~20° to CA.
1668.6	1686.3	GOWGANDA FORMATION - ALTERED (SILICIFICATION; CHLORITIZATION; SERICITIZATION), LOCALLY
		BRECCIATED, +/- PYRITE MINERALIZATION
		Rocks are non-magnetic; traces to locally 5% rounded to subhedral Pyrite (≤1-2mm)
	1668.6'	2-3cm wide, broken, white, coarse grained, partly vuggy quartz-carbonate vein @
		~20° to C.A.; granular coating of Pyrite in fracture fillings, some vugs, and on contacts
1668.7	1674.8 +/-	Light grey(s) to slightly greenish, very hard, silicified, weakly sericitic, fine-medium grained (≤0.5mm)
		quartzite with minor disseminated, rounded Pyrite grains (≤1mm) with some hazy, irregular
		chlorite veinlets & networks (1-3 mm wide) which occur mainly within 1' and 0.5' of contacts
		where they weakly brecciate host rocks; some sericitic fractures @ 60-70°, 20°, 35° to CA.;
		a few quartz +/-carbonate veinlets <0.1-2 mm wide @ 60-75° to C.A. (one with pinkish halo)
		mainly between 1669.3-1670.3'
		1674.8' - irregular contact with 0.1' breccia band @ ~20° to C.A.; hazy contact
1674.8	1681 +/-	Very dark to medium dark greenish greys, very soft to soft strongly chloritized to chloritic
		wackes; some weak brecciation to ~1676' plus fine, irregular, off-white carbonate (?) speckles
		and fracture fillings to ~1678'
		1674.8' - 0.1' breccia; chloritized + sericitized fragments + two silicified fragments

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Feet FROM	Feet TO	DESCRIPTION
		1677'- Scaley Pyrite on slip @ 15° to CA.
		1677.5'- ~2-3 mm wide, grey, quartz-carbonate veinlet @ 35° to C.A. with Pyrite film contact
		1678.5-1679.2'(+/-) - low angle breccia vein with irregular contacts @ ~25° (up-hole)
		and 10° (down-hole) to C.A.; some breccia matrix apophyses branch off lower contact; fragments
		are <0.2 to several cm. in size, angular to sub-angular and some small slabs of
		wall rocks, very soft chloritized-sericitized; about 30% matrix which is
		soft, chloritized-sericitized, cataclastic, medium to coarse grained (<1-3mm)
		wacke with some carbonate (?) flecks and fine fracture fillings, and lower part has ~1% Pyrite
		as fine grained disseminations, clusters, and rims on clasts; Pyrite is
		anhedral but some cubes present; breccination somewhat similar to that
		up-hole
		1679.2 - 1681'- wackes are medium greenish grey(s), soft, chloritic-sericitic, medium-
		coarser grained (≤ 1mm); a few irregular veinlets (≤ 1-3mm wide) near 1680' (+/-)
		contain disseminations and a few small rags of Pyrite (≤ 3mm long); rocks appear
		weakly (mzily) brecciated in part; variable amounts (<½-3%) of rounded to subhedral
		Pyrite ≤ 1 mm in size occur in section
1681	1681.6	Coarse-grained milky to greyish quartz (+/- chlorite) vein @ ~75-85° to C.A., with
		15%, mainly ragged patches & some small fragments of chloritized +-sericitized wall rocks

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Feet FROM	TO	DESCRIPTION
	ctd.	containing a little disseminated pyrite (~½% overall); vein contacts are ragged to smooth, irregular; minor small patches of grey carbonate? in upper part of vein.
1681.6	1683.6	Medium [illegible] fine to medium grained, soft to very soft with patchy, hard, lighter greenish silicification/recrystallization + chlorite spotting from ~1681.8-1682.7'. Trace to locally 20% (near 2-5 mm wide quartz ± chlorite veinlet @ 50-55° to CA. at 1682.4') disseminated, rounded to subhedral pyrite, 0.5-3mm in size (average ~2% Pyrite). Four 1 mm (1/4) wide, irregular quartz-carbonate veinlets @ 0-10° to C.A. 1682.7-1683.5' - numerous fine, carbonate(?) anastomosing network fracture fillings, and some fine sericitic fracture fillings/sheaves @ 15-45° to CA. cut by an irregular, curved quartz-carbonate veinlet @ ~10° to CA.
1683.6	1686.	Brecciated, chloritized &/or sericitized &/or hard silicified/albitized medium to very fine grained wackes (may be recrystallized quartzites? below 1685'); 10% matrix consisting of a soft dark greenish grey mixture of chlorite ± quartz ± carbonate in irregular, network of veinlets (0.1-1 cm wide), some with small patches or veinlets of late(?) pinkish quartz-carbonate (calcitic); Trace to locally 5% rounded to subhedral Pyrite (0.5-2 mm) often in the fragments but also in some matrix (average ~2% Pyrite) occasionally as small patches; fragments are fractured angular to sub-angular, <0.3-10 cm in

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	size, soft to hard to very hard, light to pale greenish grey to dark greenish-grey (possibly broken up interbedded units)
		1684 - 1681.3' - pink to greyish, fine grained (≤1mm) carbonate - quartz +/- chlorite vein with a few small chloritized wall rock fragments, ≤1% disseminated sub-hedral Pyrite (<1-2 mm); vein contacts irregular, partly bordered by, invaded and displaced by a chlorite shear @ 20° to C.A. on drill-hole contact, while up-hole contact is @ 75° to 45° to C.A.; contacts somewhat ragged
		~1685' - 1686.3' - most fragments are very fine grained, often very hard, recrystallized silicified and/or albitized(?) (some a weak tan-grey colour); ~2% Pyrite occasional, as small patches in matrix; some chlorite spotting (fine carbonate? rims) near 1685'
		~1686' (+/-) - breccia matrix (+/- carbonate veinlet/patches) on contact @ ~15° to CA. with weak chloritic alteration adjacent to contact with quartzites below.
16863	1720.8	GOWGANDA FORMATION - QUARTZITE - ARKOSIC QUARTZITE (+ SILICIFICATION)
		WITH INTERBEDS OF WACKES (ALTERED)
16863	1710.5	Very hard to hard, fine to medium grained (≤0.5mm), mainly massive, light greys to pale greenish greys (weakly sericitic - chloritic) with patchy silicification in quartzites; throughout some scattered milky to greyish quartz +/- carbonate veinlets (mainly 1-5 mm wide, occasionally with chlorite and/or Pyrite) @ 45°-50°,

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	25-35°, 45-50°, 70° to C.A.; sparsely disseminated, rounded to sub-hedral Pyrite
		<1-2 mm in size, and Trace to ¼% in volume, down to about 1707' in the
		host rocks; a few chlorite-carbonate fractures/slips
		1686(+/-) - 1690.2' - about 10-15, hairline to 1-2 mm wide quartz ± carbonate
		veinlets @ 25-70° to C.A., often with pinkish, narrow alteration halos (albite?)
		1687.5 (+/-) - Two, small, branching, sub-parallel, somewhat irregular quartz-carbonate
		(+ some small patches where veinlets are closer together) @ 35° and 40-45° to C.A., with
		chloritic alteration halos and 5-10% disseminated and small patches of Pyrite
		locally in silicified quartzites; these veinlets are sub-parallel to contact
		with breccia zone at 1686', and would intersect with some of the barren veinlets
		0.2-0.7 cm wide in the veinlet zone from ~1686-1690.2'
		1690.-1692 (+/-) - patchy faintly pinkish grey silicification; overall more or
		less @ 15-25° to C.A.
		1701' - 4cm wide quartz (milky to grey) vein with 60% patches of dark
		green chlorite; vein @ 60-65° to C.A. with slip on up-hole contact;
		Trace Pyrite
		1702'(+/-) - 0.5-1 cm wide milky to grey quartz veinlet with pinkish to white carbonate
		and patchy chloritic alteration halo, minor disseminated Pyrite in/near vein @ 20° to C.A.

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	which is sub-parallel to vein at 1701'; several other milky-grey quartz veinlets sub-parallel @ 15-20°, 70°, 40-45° to C.A. and 2-5 mm wide down to 1703.5', one with chlorite; a little disseminated Pyrite in silicified host rocks
		1708-1710.5 - rocks become greenish, slightly softer, and chloritized dark greenish grey within 0.1' of contact at 1710.5'; chloritic-sericitic
	alteration	fracture fillings/veinlets @ 55-65° (some @ 75° near 1710') and a few cross-cut @ 45-55°, 30-35° to C.A.; some with carbonate; 5-10/foot; 2-3 mm wide quartz-carbonate veinlet @ 15° to C.A. with branch up-hole @ 5° to C.A. cross-cuts veinlets/fracture fillings near 1710.
		1710.5 - contact @ ~75° with chloritized wackes
1710.5	1715.2'	Chloritized-Sericitized, soft to very soft, fine to very fine grained, dark to medium greenish-grey, thin bedded to laminated wackes which appear to be brecciated below 1712.3'; brecciation (+ silicification?) is vague to more distinct sometimes with darker fragments outlined by fine rims of carbonate (?), which also occurs as fine fracture fillings @ 0-50° to C.A.; breccias similar to those up-hole (eg. 1632-1656' section); bedding @ ~75° decreasing to ~45° to CA with fractures/slips oriented parallel; breccias sheared in part

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Feet FROM	Feet TO	DESCRIPTION
		1715.2 - very soft, strongly chloritized-sericitized contact (partly wavy) @ 60° to C.A.
		with a chlorite alteration (minor brecciation) veinlet, 1-4 mm wide (emanating
		from contact) traverses down-hole @ ~10° to C.A. into quartzites below
1716.2	1720.8	Pale to light greenish greys (weakly sericitic-chloritic), hard to very hard,
		fine to medium grained quartzite-arkosic quartzite, with some scattered
		chloritic alteration veinlets <1-2 mm wide (+ see above) @ 40-75° to C.A.
		rock becomes softer, darker, more chloritic below 1720.4'
		1720.8' - contact @ ~40° to C.A. with chlorite-carbonate fracture on
		contact with bleached Sudbury breccia vein below
1720.8	1778.6	GOWGANDA FORMATION - ALTERED, VARIABLE WACKES + SOFT SEDIMENT
		DEFORMATION ± SUDBURY-TYPE BRECCIA
		Wackes are non-magnetic, medium to very fine grained, medium to dark
		greenish greys to grey; soft to very soft (chloritized ±/or sericitized)
		with moderately hard to very hard (silicified) sections ±/or beds;
		rocks are thick to medium to thin bedded with some thin laminations
		with bedding @ ~35 to 65° to C.A.; some offset along slips
		About 25% sections showing soft sediment deformation, ie. beds with ragged (up to 2' long)

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1955 end

HOLE No. ML 94-01

Feet FROM	TO	DESCRIPTION
	ctd.	embayed contacts, disrupted broken bed fragments (ragged to angular shapes), usually a finer grained,
		lighter grey(s) sediment in a darker, fine to medium grained wacke,
		from ~ 1728 to 1757'
		Approximately 10% Sudbury Breccia veining @ sub-parallel to 70° to CA.
		scattered throughout, in widths from < 0.5 cm to about 2' zones; matrix
		is aphanitic to fine grained, dark but often bleached (light greys to tan to pinkish)
		with flow lines parallel to contacts, contorted, with apophyses, & containing
		rounded - sub-rounded to elongate clasts < 1 mm to several cm in size;
		matrix is usually soft (sericitized to chloritized) occasionally harder and is
		sometimes cut by quartz-carbonate +/- chlorite veinlets and gashes;
		breccia vein contacts may be! parallel and opposed, and breccia appears to
		truncate some soft sediment deformation bands (eg. near 1743')
		Scattered chlorite +/- carbonate fractures (+/- slips) @ 10-40° to CA.
		Minor (≤½%) Pyrite cubes and clusters from ~1770' in wackes and breccia
		A few quartz-carbonate +/- chlorite veinlets <1-3 mm wide @ 20-75° to CA.
1720.8	1721.4	Bleached, sericitic, soft, fine grained wacke with laminations @ 75° to 40° to CA, and
		with a bleached, sericitic, soft Sudbury Breccia veinlet <1-2 cm wide @ ~40° to CA.

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	(parallel to sub-parallel contact) at 1720.8', which is cut by chlorite veinlets and a few small quartz-carbonate gashes and may be brecciated in part near contact; bedding is cross-cut by Sudbury Breccia veinlet and by numerous fine, chlorite fracture fillings as well, often sub-perpendicular to contact @ 1720.8'; and from 1721.1' small chlorite veinlets occur along an irregular, low angle contact (@ 0-45° to C.A.) brecciating & invading rocks in part
1724.4	1723.2	Strongly chloritized, sericitized with vague brecciation and shearing @ low to high angles to C.A.
1723.2	1724.9	Silicified, chloritic wacke or quartzite (?); small dolomitic (?) blotches near 1724' along with fine quartz-carbonatic fracture fillings @ 0-10° to C.A., some with pinkish (albite?) alteration haloes
1750	1751.8	Silicified wacke containing a few quartz-carbonate veinlets/fracture fillings
1752.1	1753	Zones of fine sericitic shears parallel to bedding @ 30-40° to C.A. and cross-cut by carbonate-chloritic-sericitic slips @ 35-45° to C.A.
~1756	1761	Silicified, chloritic wackes +/- soft sediment deformation
1762.5	1776.5	Dark to medium greenish grey, medium to thin bedded (+/- laminations), (mainly) soft-very

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	soft, chloritized/sericitized, fine to very fine grained wackes; bedding @ 50-60° to C.A.
1761.1	1765.3	Shearing + fracture @ ~10° to CA., offsets bedding @ 50-55° to CA., by ≤ 1cm.
	1766	2 mm quartz-carbonate +/- chlorite veinlet @ 25° to CA. sharply turning along bedding @ 60° CA. silicified wacke above bedding plane which is offset < 1cm along 25° plane of veinlet
1770.2	1771.4	Several chloritic (+/- carbonate) fractures @ 10-25° to CA., cross-cut bedding @ 55° to C.A., and partly offset bedding; some cubic pyrite occurs in/near fractures
1774		Cubic Pyrite (< 1-5 mm size) developed along two close-spaced chlorite veinlets 1 mm (+/-) wide @ 60° to CA.; fine chloritic fracture fillings branch off, perpendicular to veinlets (within 1 cm of veinlets)
1776	1778.5	Sudbury Breccia veining; some Pyrite cubes and clusters present; probable clast of dark, pebbly wacke present in lower portion bordered by Sudbury Breccia veining with flow lines
		1778.5' - contact with pebbly wackes irregular @ ~35-50° to CA. (some apophyses)

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Feet FROM	Feet TO	DESCRIPTION
1778.5	1857.6	GOWGANDA FORMATION - PEBBLY WACKES + SOME SUDBURY-TYPE BRECCIA VEINING
		Non-magnetic, moderately soft to moderately hard, light-medium greys to somewhat greenish, sericitic/chloritic, fine-medium grained, massive matrix with 1-5% (average 2-3%) rounded to angular, grey granitic, dioritic and greenish-grey metagabbroic-dioritic, and various metasedimentary (quartzite, wackes, mudstones) clasts, <0.2 to 10cm in size (average <0.5-2cm), some carbonated; Scattered throughout are sometimes fairly numerous, irregular-ragged to more uniform, grey-white anastamosing quartz-carbonate +/- chlorite veinlets/fracture fillings, mainly <0.5 to 1-2mm wide, @ 5-60°(+) to C.A., occasionally with minor Pyrite visible; veinlets occasionally contain tiny wall rock fragments (microbreccia).
		Generally minor sulphides (Pyrite, Pyrrhotite +/- Chalcopyrite) are present as disseminations in matrix and partly replacing some clasts (internally or along rims); Pyrite grains sometimes occur in clusters; usually some quartz-carbonate veinlets are present in the host rocks and sometimes traverse the clasts; Pyrrhotite first observed near 1814'; ≤ 1/8% sulfides
		A few scattered veins of Sudbury Breccia with flowlines; soft chloritic to sericitic

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Feet FROM	Feet TO	DESCRIPTION
1779.5	1780.1	Numerous light greenish grey alteration veinlets (+/- shearing, +/- quartz) hairline to 2-3 mm wide, often @ ~60° to C.A., plus others @ 5-25° in general area
1780.6	1781.5	Wacke clast with soft-sediment deformation +/or alteration haloes along some of the numerous anastamosing fine chloritic fracture fillings; clast is bordered by dark Sudbury Breccia veinlets <1-2 cm wide @ ~50° and 25° to C.A.; flow lines
1791.5	1793.8	Zone of Sudbury Breccia veining with flow lines, wacke fragments (some deformed and fractured, some silicified in part and cut by a few quartz-carbonate veinlets/fracture fillings)
1801.1	1805	Mechanically shattered core in pebbly wacke
1818	1823	Chloritic fractures +/- slips +/- carbonate @ 15-20, 30-40° to C.A., occasionally with scaley Pyrite; 1-3/foot
1824.1		<1-2 cm wide Sudbury Breccia vein with apophyses; vein contacts @ ~40° ± 30° to C.A.
1827.5		Sudbury Breccia veinlet @ 35° to C.A.
1832	1833	Silicified in part; fine chloritic fracture fillings @ 45-50° to C.A.
1833	1835	Dark grey, soft chloritic Sudbury Breccia with some flow lines; opposing contacts @ ~50° and 75° to C.A.
1856	1857.6	Few quartz-carbonate veinlets, chloritic veinlets and fracture fillings @ 30-60° to C.A.;

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	rocks harder (silicified?) near contact (85° to C.A.) with Sudbury Breccia zone
1857.6	1873.9	SUDBURY-TYPE BRECCIA ZONE IN GOWGANDA FORMATION WACKES
		Rocks non-magnetic; ~15-20% breccia veining with dark grey, fine grained matrix exhibiting flow lines; breccia in variable wackes, including some deformed, soft, sericitic tan to pinkish bedded wackes, light greenish grey, hard, silicified wackes (some with anastamosing chloritic fracture fillings) and pebbly wackes; minor disseminated Pyrite and Pyrrhotite; a few 1-2 mm wide quartz-carbonate veinlets (+/- Pyrite, +/- Pyrrhotite) @ ~15-20°, 40-50° to C.A. plus some irregular gashes
		1873.9' - contact @ 50° to C.A.; 2 mm wide quartz-carbonate-Pyrite veinlet on contact
1873.9	1877	GOWGANDA FORMATION - WACKE
		Non-magnetic; very fine-fine grained, medium grey to slightly brownish tinge in part, soft; numerous anastamosing chloritic fracture fillings/ fine veinlets @ 5-30° to C.A. occasionally with Pyrite & some Pyrrhotite +/- Chalcopyrite near 1875' +/- (over <1'); bleached near contact (carbonate veinlet) @ 25° to C.A. at 1877'

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Feet FROM	Feet TO	DESCRIPTION
1877	1991.2	GOWEANDA FORMATION - PEBBLY WACKES +/- MASSIVE WACKES +/- SUDBURY-TYPE BRECCIA
		Non-magnetic rocks; pebbly wackes are light to medium greys, fine to medium
		grained with 1-2% granules and pebbles (≤ 2 cm in size); generally very minor
		Pyrite and/or Pyrrhotite (magnetite) present; gradational into more massive wackes;
		scattered Sudbury Breccia veining; wackes partly silicified
	1877	5cm pebble with minor Pyrrhotite
1880	1888	Fractures (+/- slips) with chlorite + carbonate @ 10-15°, 25-35° to C.A.;
		2-4/foot; several, 0.2-1 cm wide quartz-carbonate veinlets with
		minor Pyrite @ 35-40° to C.A.
	1908.3	Chlorite veinlet with some Pyrrhotite
1908.4	1917.2	More massive, fine grained wackes
		1908.4-1908.6' - irregular Sudbury Breccia veinlets with flow lines and
		bleached fragments
		1908.6-1909.6' - brownish tinge; bleached contact; chloritic fracture
		fillings; < ½% Pyrrhotite as disseminations and fracture fillings
		1910.4-1911.4' - brownish tinge; numerous anastamosing chloritic fracture
		fillings, some with small blebs of Pyrrhotite
		1912.5' - locally brecciated by numerous irregular chloritic veinlets

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Feet FROM	Feet TO	DESCRIPTION
		1914.5 - 1917.2 - mechanically shattered core
1917.2	1925 +/-	Brownish tinge, hard, silicified (?)
		1917.7' - sheared @ ~35° to CA.
		1919.7 - 1920.5' - locally brecciated + fine shearing; sub-parallel contacts @ ~40° and 30°
		to CA.
1950	1955.5	Fractures (+/- slips) with chlorite +/- carbonate +/- scaley Pyrite @ 10-15° to <5° to CA.
	1956.3	4 cm vein of Sudbury Breccia; chloritized margins, +/- silicification (?),
		flow lines; irregular contacts @ ~45-50° to C.A.; host wackes silicified in
		vicinity
1959.5	1959.7	5-10% squiggly, silicified rags @ 60-65° to CA. in silicified wacke
1963.8	1968.3	Light greenish, sericitized rags and deformed lenses (soft sediment deformation?)
		@ 20-35° to CA., and @ 70° to CA. (in lower 0.3')
1972.5	1974.2	Brownish, massive fine grained wacke (+/- occasional pebble)
		1972.5' - 1 cm chloritized band @ 45° to C.A. (Sudbury Breccia? veinlet)
		1972.5 - 1973' - Silicified + fine network of light grey siliceous (?) fracture fillings
		1974' - 0.2' thick deformed Laminated Wackes with chloritized laminations +
		bleaching @ ~50° to C.A.
1974.2	1977.4	Sudbury Breccia with dark, soft chloritic matrix with flow lines; contains light

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Feet FROM	Feet TO	DESCRIPTION
	cont.	greenish grey pebbly wacke fragments ± silicified massive wacke clasts; breccia zone contacts @ ~70° and 50° to CA.; minor disseminated Pyrite
1977.1	1980	Pebbly wackes; silicified
1980	1983.3	Dark to light greenish grey(s) Sudbury Breccia veins with flow lines; breccia zone contacts @ ~75° to CA. (irregular, up-hole) and sub-parallel to CA. (sinuous, down-hole contact)
1991	1991.2	Light to medium grey(s) Sudbury Breccia with flow lines and chloritic margins @ ~75° to C.A.
1991.2	2125.2	GOWGANDA FORMATION - PEBBLY WACKES
		Non-magnetic, medium to lighter grey(s) (± feint brownish tinge in upper parts), fine to medium grained, often hard (silicified?) to about 2039', and often with numerous, irregular, ragged, anastamosing, light grey, siliceous veinlets (with variable disseminated chlorite grains) to about 2055' where they then become scattered and only weakly developed; the siliceous veinlets (± shearing) are mainly <0.5 mm to 3 mm wide, and occasionally contain minor disseminated Pyrite or Pyrrhotite; and one siliceous vein (2-3 cm wide @ 60-75° to CA.) occurs near 2007' (and also a patch near 2051') containing patches and small fragments of host wackes;

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	the siliceous veinlets are oriented @ 0-70° to CA. and some are cut by
		fracture fillings with chlorite +/- carbonate +/- quartz; the wackes contain
		2-3% (locally 5%) angular to rounded granules and pebbles (often, <0.5-2cm, but
		some 3-5cm in size) composed of grey granitic, dioritic and greenish-grey
		gabbroic-dioritic clasts, various metasedimentary and some metavolcanic clasts,
		sometimes bleached internally or marginal to pebbles; Trace to very locally ¼%
		disseminated Pyrrhotite +/- Chalcopyrite and Pyrite in matrix, partly
		replacing clasts internally or on rims, and in fracture fillings; ≤ ⅛%
		sulfides; Pyrrhotite magnetic
		2001.3' - quartz fracture filling with some Pyrrhotite and Pyrite @ 25° to CA.
		2002' - 2-3 cm wide, chloritic, sheared + chlorite veinlet zone @ 45-50° to CA.
		with some disseminated and small patch Pyrrhotite +/- Chalcopyrite; zone
		opposed to quartz veinlet @ 2001.3'
		2006-2007.5' - section of chloritic-sericitic fractures/slips @ 30-35° and
		45-50° to CA. (opposed), 4/foot
		~2020' - pebble offset by slip @ 45° to CA.
		~2022' - pebble offset by slip @ 70° to CA.
		2035.5' - Pyrite scales on chloritic fracture @ 15° to CA

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Feet FROM	Feet TO	DESCRIPTION
		2038 - 2042.5' - chlorite +/- carbonate fractures (parallel) @ 15° to C.A. (mainly 1/foot)
		with several near 2038' with some scaley and fine disseminated Pyrite; also
		a few chloritic fractures @ 45-50° to C.A.
		2042.5 - 2045' - Fracture (+/- slips) zone; chloritic +/- carbonate (occasionally with
		some Pyrite scales) @ 70-80° to C.A.; 5-10/foot
		2045 - 2056' - Chlorite +/- carbonate fractures (+/- slips) @ 50-60°, 70° with some @ 40° and
		20-25° to C.A.; <1-3/foot; some have scaley Pyrite occasionally scaley Pyrrhotite;
		at 2047.5' is a ≤ 5 mm wide greyish white quartz-carbonate veinlet @ 15°
		to C.A. with chlorite (slip?) margins and shearing + minor scaley and disseminated
		Pyrite; veinlet also contains host rock slivers and intersects with a
		fracture @ 40° to C.A. with chlorite - carbonate +/- scaley Pyrite
		2064.5 - 2066' (+/-) - mechanically shattered core (in pebbly wacke) +/- quartz-
		carbonate fracture fillings
		2066 - 2088' (+/-) - quartz-carbonate (+/- chlorite +/- minor Pyrite) veinlets (1-2 mm) and
		fracture fillings (+/- slips) with some scaley Pyrite and/or Pyrrhotite; chloritic
		margins on fracture fillings and occasional bleaching; structures are sub-parallel
		to cross-cutting @ 15-25°, 40°-50°, 60° to C.A.; <1-7/foot (average 1-3/foot)

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Feet FROM	Feet TO	DESCRIPTION
2097.8	2100 (+/-)	Mechanically shattered core in pebbly wacke; fracture (+/- carbonate) @ 10-15° to C.A. at each end of zone
2107.1	2109 +/-	Chlorite (+/- carbonate) slips @ 0-10°, one with scaley Pyrrhotite; several slips in broken core
2125.2		Contact with vein of Sudbury Breccia @ 20° to C.A.
2125.2	2136.	SUDBURY-TYPE BRECCIA VEINING IN WEAKLY PEBBLY TO MASSIVE WACKES - ALTERED
		10-15% Sudbury Breccia; breccia veins variable, dark to light greenish greys
		Some tans, chloritized to sericitized (+/- bleaching), possibly locally partly silicified, with
		flow lines being irregular to contorted (also applies to some of the smaller clasts, +/- bleaching within matrix)
		with larger fragments (+/- smaller breccia veinlets) and patches between veins varying from ~0.5 to 2'
		in length; some have bleached (+/- silicification) margins near vein contacts
		which vary in attitude from 55° to sub-parallel to C.A.; breccia matrix (& fragments)
		cut by some, 1-5 mm wide, irregular quartz-carbonate veinlets @ 0-20° to C.A.
		and a little Pyrite occurs, in matrix as disseminations and rags (minor Pyrrhotite
		rag near 2127.8') ; rocks are non-magnetic
		~2128-2128.8' - dark greenish grey to black, strongly chloritized wacke with
		several pebbles, some partly replaced by Pyrite

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Feet FROM	Feet TO	DESCRIPTION
	~	2129-2133.5 - light-medium greenish grey, soft-moderately soft, sericitic-chloritic wackes with bleached
		margins adjacent to external and internal (0-50° CA) Sudbury Breccia veining;
	pebbly	wacke often by numerous anastamosing darker, chloritic <1-3mm wide veinlets (some
		with minor Pyrite) giving wackes a somewhat brecciated to cataclastic appearance
		2134' - lower contact of main Sudbury Breccia veining @ 55° to CA.
		(quartz-carbonate fracture filling)
		2134-2136' - massive wacke (minor granules), medium grey-greenish grey
		with some chloritic anastamosing veinlets to ~ 2135'; Sudbury Breccia
		veinlets in broken core near 2135.7'; hard, silicified with minor Pyrite
		from 2135.7 - 2136', and minor Sudbury Breccia veinlet(s) @ ~ 80° to CA.
		at 2136'
2136	2335	GOWGANDA FORMATION - PEBBLY WACKES +/- ALTERATION
		Non-magnetic; variably hard to moderately hard, medium to darker grey(s), fine-medium grained,
		pebbly wackes with 2-5% granules and pebbles (similar to above + occasional schist) mainly
		≤0.5-2 cm size (but up to 4cm); some scattered pebbles with pale greenish grey bleached
		(soft to hard) haloes; occasional, irregular, fine grained, light grey, siliceous veinlets with
		disseminated chlorite grains, 1-5 mm wide; ≤ 1/8% disseminated sulfides (magnetic
		Pyrrhotite +/- Chalcopyrite and Pyrite) in matrix and partly replacing clasts as before;

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HOLE No. HL 94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	Pyrite predominates below 2202' (+/-) and Pyrrhotite not observed below ~2339'; fractures &
		fracture fillings with quartz-carbonate +/- chlorite +/- scaly Pyrite mainly @ 15-30°, 45-55°, 60-70°
2153	2155	to C.A. (<1/2' to 2-3/foot) Several quartz-carbonate-chlorite (+/- scaly Pyrite) fractures @ 0-10° to C.A.
2161	2166	Similar to 2153-2155'
2222.8	2223.8	Several carbonate fracture fillings with chloritic margins, +/- Pyrite @ mainly 15° to C.A.
~2232.5	2234	Irregular, sinuous, very hard, fine-medium grained, altered, light greenish (epidotized?) arkosic
		quartzite band ≤ 2 cm thick @ 0-15° to C.A.; chlorite margins on band; light grey bleaching
		(ragged, hazy) in silicified pebbly wacke along band contacts; band terminates in a
		tail down-hole (may be soft-sediment deformation); minor Pyrite and Chalcopyrite
		replace granules in wacke near margins of band
2252.3	2253	Medium-coarse grained light grey dioritic cobble with hard, pale greenish grey bleaching
		along part of margins in pebbly wacke, all cut by quartz-carbonate
		fracture filling @ 25° to C.A. at 2252.3' (where weak pink feldspar alteration
		is also present on margin of cobble)
2259.8	2261	Mechanically shattered core
2266.7	2266.9	Patchy pale greenish-grey, moderately soft to very hard bleaching + smaller patchy red alteration
		(albitization?) partly cut(?) by a 1-5 mm wide quartz-carbonate veinlet with
		small wacke fragments in wide portion; veinlet @ ~70° to C.A. sub-parallel to

Diamond Drill Record

HOLE No. ML 94-01

FROM	TO	DESCRIPTION
	ctd.	two chloritic slips at 55-60° to CA. (veinlet between slips)
2274	2276.1	Chloritic-sericitic fractures/slips with +/- scaley Pyrite and dark brownish alteration haloes; (some fine Pyrite fracture fillings also); structures @ 30-55° to C.A., often @ 40-45° to C.A. and sub-parallel; ~15-20 in interval which cut some irregular light grey, siliceous veinlets (1-5 mm wide) with chlorite disseminations some associated with brownish albite(?) alteration; also some small pebbles and granules partly replaced by Pyrite (± Pyrrhotite?)
2279	2335±	Some scattered, light greenish grey bleaching often cored by quartz-carbonate +/- chlorite (+/- Pyrite) veinlets (1-3 mm wide) @ 25-35, 45-50° & occasionally 15° and 60-65° to C.A.; below 2323.8' the quartz-carbonate-chlorite veinlets sometimes have a dark chloritic halo followed (outward) by a pale greenish-beige (occ. hard pinkish) possibly albitized? halo (±0.5-2 mm wide) with another chloritic rim, finally enclosed by the light greenish grey bleaching halo (moderately soft to very hard); which vary from <0.5-1 cm wide (occasionally 3 cm wide) and are also present around some (not all) of the pebbles as seen previously (up-hole); occasionally one of the veinlets with bleaching haloes is seen adjacent to the bleached halo around a pebble; also present are quartz-carbonate +/- chlorite (+/- scaley Pyrite) fracture fillings and veinlets (≤ 1 mm(±) wide) +/- slips @ ±10-20°

Diamond Drill Record

HOLE No. ML 94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	35-45°, 50-60°, 70° to C.A., occasionally seen to cut structures with the bleached haloes;
		fracture fillings and veinlets ~2-3/foot (more so below ~2310')
		~2311-2312' - 10% (+/-) irregular to more uniform to patchy (small), pale brownish-grey
		alteration veinlets (albitization?) 1-2 cm wide @ 15-70° to C.A.; parts silicified and very hard
		in vicinity; some shearing, +/- slips and chlorite (+/- Pyrite grains) gashes and veinlets
		@ ~70° to C.A. between 2311.5-2311.9' plus a few quartz-carbonate-chlorite fracture fillings/
		slips @ 70° and one @ sub-parallel to C.A.
2335	2437 +/-	GOWGANDA FORMATION - VARIABLE, PEBBY WACKES + ALTERATION + FRACTURE ZONES.
		Pebbly wackes are non-magnetic and more variable, light greenish grey(s) to medium to
		dark greys (probably due to bleaching in part); 1-5% granules and pebbles similar to
		previous unit (some pink to reddish granitic pebbles also present); light greenish grey bleaching
		occurs about some (not all) pebbles, about veinlets and as bands and alteration veinlets
		without chlorite-quartz-carbonate cores; chlorite +/- quartz-carbonate, +/- Pyrite veinlets (with halo
		alteration similar to that in 2279-2335') are scattered throughout, more numerous by 2422',
		and epidote predominating over chlorite between ~2427.3-2435; these veinlets are <1-5 mm wide
		@ 15-25°, 45-50, 60° to C.A. (a few are paralled by, cut or intersected by, later grey-white quartz-
		carbonate veinlets, 1-2 mm wide @ 0-50° to C.A.); < 1/4% Pyrite and occasional Chalcopyrite
		occur in fractures, veinlets, in/marginal to some pebbles; minor Pyrrhotite below 2417'; several breccia

Diamond Drill Record

HOLE No. ML94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	veinlets occur at 2347.3', 2353', 2356.9' & 2384.4' (Fault? Breccia), breccia veinlets are dark grey-black, soft chloritic, non-magnetic, (+/- Pyrite grains), irregular to more uniform with sharp margins, <0.2 - 1 cm wide, & contain 2-15% small (<0.5-8mm) angular to sub-rounded wall rock clasts; silt pale greenish grey +/or hard beige (Albitization?) bleaching/alteration occurs along narr parts of margins of breccia veinlets; chloritic veinlets/gashes (hairline to 1-2mm wide, often parallel to sub-parallel but also sub-perpendicular to breccia veinlets) also occur in vicinity of breccia veinlets (some are apophyses) and the larger veinlets contain tiny angular clasts; these veinlets occur near 2353' and 2357' and some are cut by few later, hairline quartz-carbonate fracture fillings with narrow reddish brecciation alteration selvages, one of which cross-cuts & offsets a 2-3 mm wide breccia veinlet at 2356.9' (reddish alteration on breccia margins and some clasts also) 15-20% very hard silicified (& albitized?) parts, 0.1-2' long in pebbly wackes throughout, often (not always) associated with albitization alteration veinlets or haloes More pervasive beige grey albitization/silicification between ~2399.5 - 2402.5 (+/-) in pebbly wackes with ~1-2% pebbles and granules; rocks often very hard Fracture zones similar to 2279-2335' section; fractures +/- slips often chloritic +/- quartz carbonate (+/- scaley or disseminated Pyrite) @ 50-60°, 70-75°, 15-25°, occasionally 35-40°, 0-10° to C.A. 3-8/foot, strongest fracturing +/- broken core from 2339-2353 & below 2374'

Diamond Drill Record

HOLE No. ML 94-01

Feet FROM	Feet TO	DESCRIPTION
~2347.3	2347.6	Branching, irregular breccia veinlets (with pinching & terminating apophyses), <1 to 5 mm
		wide, partly ~~about~~ parallel to, and partly perpendicular to a chloritic slip @ 10-15°
		to C.A.; in part cut by & / or truncated by several chloritic slips @ 55° to
		C.A. which are perpendicular to the low-angle slip; rocks are partly bleached
		with patchy beige albitization (?) ~~silicification~~ including some of the breccia clasts;
		some reddish alteration (hematitic?) on cross-cutting fractures which also
		affects some of the clasts in the breccia veinlets
2347.8½	2357.3	75-80% softer, bleached, medium to light greenish grey bands and alteration
		veinlets (with remnant medium grey pebbly wacke bands) @ 50-65° to C.A.,
		this alteration may be similar to the haloes about the pebbles (which are present)
	but	slightly darker than the haloes; the breccia veinlets are within the
		altered sections and some of the narrow alteration veinlets are cored
		by fine chlorite (± carbonate?) fracture fillings and gashes which may be
		related to the breccia veinlets
2382.6	2383 ½	Part of a recrystallized pinkish arkosic or granitic cobble cut by red anastamosing
		hematitic alteration fractures (occasional carbonate core visible); fractures (no hematitic
		alteration) sometimes continue as chloritic fractures in dark wacke matrix and offset
		one contact of cobble; other opposing contact of cobble is along a chlorite (± carbonate)

Diamond Drill Record

HOLE No. ML94-01

Feet FROM	Feet TO	DESCRIPTION
		slip with some scaly Chalcopyrite and Pyrite @ 15° to C.A., some hematitic
		alteration in cobble occurs along the slip contact, and some beige
		albite alteration occurs in the rocks along the slip contact; albite (pinkish-tan)
		alteration rims a meta-gabbro pebble which is cut by a chloritic-carbonate
		fracture (1% scaly Pyrite and Chalcopyrite) @ 10° to C.A. in broken core just
		below the cobble; albite alteration halo also occurs near the fracture
2384.6	2381.7'	Breccia (cataclastic) - partly similar to breccia veinlets up-hole near 2347.6',
		upper contact of irregular main veinlet @ ~70° to C.A., ≤5-1cm(±) wide, with
		with apophyses and branching anastamosing veinlets (hairline to locally bulging to 2 mm) on down-
		hole side (and decreasing in intensity downhole) many of which are ~ parallel to a
		slip @ 40° to C.A.; wall rock fragments are angular to sub-rounded, <0.5-10 mm
		in size, often densley packed in a greenish-grey chloritic matrix, with occasional tiny
		quartz-carbonate gash with reddish alteration halo; some fragments are bleached
		(beige) in main portion of breccia and a weak reddish alteration selvage
		occurs along the up-hole contact in part; minor disseminated Pyrite in breccia;
		host rocks in vicinity are ~ slightly brownish greys (partly bleached) moderately
		hard to very hard below slip
2385.1	2385.3	Irregular chlorite-quartz-carbonate ± Pyrite veinlet/gash @ ~20° to CA with ragged to

Diamond Drill Record

HOLE No. ML-94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	patchy beige to tan to slightly pinkish albite alteration halo; some of the pebbles in vicinity also have bleached, albitized haloes, and the host wacke is very hard, brownish grey to dark grey
2392.3		0.1' wide cataclastic breccia band @ 45° to C.A. in moderately hard to hard patchy lighter to medium grey pebbly wacke; 15% darker grey chloritic matrix surrounds angular to sub-rounded clasts of host rock, 0.5-1 cm in size; minor carbonate gashes in breccia; minor Pyrite grains in breccia; feint pink albite alteration selvage along contact and in host rock about some fine chloritic fracture fillings near the breccia; slip @ 50° to C.A. would cut the sub-parallel breccia band (up-hole contact)
~ 2393.5	2394.6	Moderately hard to softer light grey-greenish grey pebbly wacke with numerous sub-parallel chloritic (+/- sericitic) fractures/slips @ 0-10°, 20-25° (some vuggy) to C.A. often with dull reddish hematitic(?) alteration haloes (narrow); also chloritic slips/fine fracture fillings @ 30°, 50-60° to C.A. mainly sub-parallel to the other structures; core mechanically broken up in part sometimes Pyrite or Chalcopyrite on fractures/slips.; occasional beige Albite alteration around pebble
2394.6	2399.5±	Dark grey to mdy lighter greys), hard to moderately hard pebbly wackes with lighter greenish grey bleaching veinlets and alteration haloes about some of the chlorite +/- carbonate

Diamond Drill Record

HOLE No. ML94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	fracture fillings/slips (and a few albite alteration margins) @ 45-55°, occ. 15°, 20-25° CA as well as some of the pebbles (also occasionally with beige albitized margins)
2399.5	2405.3	Very hard to locally moderately hard, light greys (somewhat greenish) with patchy beige to somewhat pinkish portions, and patchy dark grey in upper part of section, rocks are albitized/silicified; more pervasive in upper 2' of section where some of the felsic pebbles and granules are reddish-orange and rocks are cut by a few carbonate fracture fillings with narrow reddish alteration haloes @ 20-45° to CA, and a bluish green chlorite (+/- carbonate) veinlet with reddish halo @ ≤10° to C.A.; some pebbles have beige alteration haloes
		2402.3-2401 (+/-) - several bluish-green chlorite gash veinlets (≤2 mm wide) with minor grey carbonate @ 10° (+/-) to C.A. one cuts a chlorite-quartz-carbonate veinlet with bleached and albitized margin plus veinlets of beige albite alteration
2405.3	2419.6	Variably hard to very hard to locally soft, silicified, partly albitized dark grey, pebbly wacke with 10-15% light greenish grey, moderately hard to hard bleaching/alteration (patchy and narrow to broader haloes about chlorite +/- quartz-carbonate fracture fillings and small veinlets +/- disseminated Pyrite +/- slips with scaly Pyrite - occasional Chalcopyrite); also beige to pinkish albite alteration selvages (1-5 mm wide) often (not always) occur marginal to the bleached

Diamond Drill Record

HOLE No. ML94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	pale greenish grey alteration immediately adjacent to the chlorite ± quartz-carbonate veintets which are <1 to 2 mm wide (sometimes with apophyses and/or bulges) generally @ 25-35°, 40-50°, 60-70° sub-parallel and fairly uniform but sometimes irregular or gash-like and 1/2 to 1 foot, (especially between 2412' ± and 2417')
		2408.8' - pink albite alteration in angular felsic pebble (± chlorite spots) with chlorite ± carbonate ± Pyrite on margins, and followed by beige albitized selvage (± chlorite)
		2410.6' - sheared chlorite ± quartz ± carbonate veinlet ~ 1 cm wide @ 35° to C.A.; weak albite selvage
		2417.6-2418.6' - minor Pyrrhotite (as well as Pyrite) replacing granules, and at 2418.6' Pyrrhotite replacement? of Pyrite occurs, almost completely replacing a 3-4 mm granule
		2419'-2419.6' - Sudbury Breccia vein, 1-2 cm wide @ 15-25° to CA., breccia is fine grained soft chloritized ± partly albitized with flow lines and a few rounded clasts (≤ 6 mm), dark greens, medium greys & browns in flow bands which continue into an apophysis surrounding a larger wall rock clast; breccia appears to be cross-cut and truncated by fault breccia at 2419.5';
		2419.5' - Fault breccia vein (altered) @ 40-45° to CA.; this is a 1-2 mm wide

Diamond Drill Record

HOLE No. ML94-01

Feet FROM	Feet TO	DESCRIPTION
	ctd.	dark chlorite vein which bulges into a breccia vein <2 cm wide containing some
	tan,	albitized, angular clasts as well as "normal" host wacke clasts; late, small
		quartz-carbonate gashes cut chlorite matrix; pinkish albite rims chlorite veinlets &
		fault breccia + Sudbury Breccia; several irregular to more uniform chlorite veinlets
		present up-hole from fault
2419.6	2437½	Mainly black chloritic (with lighter zones) pebbly wacke gradational into
		bedded wackes below; pebbles (granules) (1-2%) disappear; moderately hard
		to locally soft to locally very hard; chlorite ± quartz-carbonate (some pinkish)
		veinlets (1-5 mm) mainly @ 60-70° but also anastomosing @ 25-45° with alteration
		haloes of pinkish to beige albite (as before); visible apple green epidote
		also occurs in veinlets, sometimes to the detriment of chlorite;
		disseminated Pyrite and some small veinlets occur in the chlorite veinlets & selvages
		of alteration (<1 cm wide). Pyrite cubes 1-3 mm in size occur sporadically in the
		wacke matrix and some pebbles (also with alteration haloes), ~½% Pyrite overall,
		some Pyrrhotite replaces some Pyrite between ~2426.3 and 2434' (2 mm Pyrite
		cube completely replaced by Pyrrhotite at 2434')
		Minor Chalcopyrite + Pyrrhotite + Pyrite in alteration veinlet near 2430.3'
		Chlorite veinlets, 2-10/foot, most intense (5-10/foot) between 2428-2435'

Diamond Drill Record

HOLE No. ML 94-01

Feet FROM	Feet TO	DESCRIPTION
		2435-2437' - rocks more brownish grey
		(Fracture zone continues to about 2465')
2437	2471	GOWGANDA FORMATION - ALTERED, WACKES +/- ARKOSIC BEDS
		Gradational contacts
		Wackes are non-magnetic, dark grey-black or greenish black, medium to thin
		bedded + 5% laminated sections (bedding @ 60-75° to CA), often fine-grained soft chloritic-
		chloritized; 10-15% altered, scattered, arkosic beds and laminations which
		are very hard, fine to medium grained, pinkish to reddish to beige, albitized &/or
		silicified +/- pale greenish-beige epidotization (?); (patchy to gradational
		alteration also extends into some of the wackes); wackes also contain some
		scattered veinlets of light greenish grey alteration/bleaching, often as haloes
		about 1-3mm chlorite &/or quartz-carbonate veinlets +/- Pyrite with epidote &/or albite
		haloes @ 45-75° to C.A., as in previous section; some, 1-4 mm Pyrite
		cubes developed, mainly in the altered parts, but also occuring in the host wackes
		Trace to locally < 3% Pyrite (average ≤ ½%);
		2443.3 - 2445' - hard, very hard pinkish to reddish alteration (albitization/
		silicification) in wackes and some arkosic bands; cut by quartz-carbonate
		veinlets and gashes @ mainly 15° to C.A.; one also invades a chlorite veinlet
		@ 70-80° to C.A. which offsets a gash; minor Pyrite near 2444.5' (+/-)

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HOLE No. ML 94-01

Feet FROM	Feet TO	DESCRIPTION
		2443-2450' - few fractures
		2448.3-2449.8' - pink to pinkish grey albitization (~85%) cut by a few quartz-carbonate veinlets
		2450-2468' - often fractured @ 60-75° (parallel to bedding), 40-50°, 25-35° to C.A.; 2-8/foot, some mechanically broken core
		2452.6' - pink carbonate-quartz (+/- chlorite) veinlet 0.3-1 cm wide @ ~25° to C.A., intersects with a chlorite-quartz-carbonate veinlet with epidote-albite halo @ 25° to C.A.
		2453' - 4cm wide albitized band @ 60° to C.A. with 3% Pyrite cubes
		2453.4' - 0-1.5cm wide, angular pink carbonate-quartz veinlet @ 15-35° to C.A. with angular, dull reddish brown, albitized wall rock fragments
		2454.3-2454.9' - Altered soft sediment deformation zone; tan to red, albitized, broken, deformed beds and laminations in chloritic wacke matrix (in part), bedding @ ~60-65° to C.A.; slip + Chalcopyrite @ 35° to C.A. cuts reddish albitized bed with irregular quartz-carbonate geshes near 2454.4'
		2455.1' - Mud seam in chlorite veinlet with albite halo @ 75-80° to C.A. (Fault?)
		2456.5-2457' - Brecciated, albitized bands (partly soft sediment deformation?), with <5% quartz-carbonate in matrix and irregular veinlets; fragments are red, pink tan & green

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Feet FROM	Feet TO	DESCRIPTION
	ctd.	and breccia zones are more or less parallel to remnant internal, and to external
		wacke laminations @ ~75-80° to C.A.
2468	2470	~15% pale greenish to beige (+/- pinkish) silicified/albitized/epidotized, fine to
		medium grained, hazy bands and arkosic beds, <0.2 - 0.8' thick, cut by some albite
		veinlets and by some quartz-carbonate-chlorite veinlets with epidote-albite
		haloes; some disseminated Pyrite
2471	2491.5	GOWGANDA FORMATION - PEBBLY WACKE +/- ALTERATION
		Non-magnetic; dark grey to black, moderately soft to hard +/- patchy areas
		which are very hard; chloritic; some light greenish-grey bleached patches
		and veinlets; occasional chlorite +/- quartz-carbonate veinlet with epidote/
		albite halo @ 30-60° to C.A.; <1-2% granules and pebbles ≤0.5-3 cm
		in size, rounded, and sometimes with bleached and/or albitized haloes
		and occasional replaced by Pyrite; some fractures @ 20-50° to CA.
2473.3	2474.6	<10% pebbles, 1-3 cm in size, +/- Pyrite, +/- alteration haloes
	2491.5	Gradational contact

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Feet FROM	Feet TO	DESCRIPTION
2491.5	2498	GOWGANDA FORMATION - MASSIVE WACKE +/- THIN BEDS, LAMINATIONS
		Non-magnetic, dark grey wackes with a few thin beds and laminations,
		chloritic, moderately soft to hard; some alteration, minor Pyrite
		Chloritic fractures +/- slips @ 30-35°, 50-60°, occasionally @ 75° to C.A.,
		4-7 / foot
	2493½	Albitized, epidotized, very thinly bedded @ 75° to C.A.
	2494.4	Pink, albitized, epidotized, very thinly bedded/laminated, over 2 cm @ 75-80°
		to C.A., 2% sub-hedral Pyrite cubes ≤ 3 mm in size
	2496.8	1.5 cm sub-hedral Pyrite cube
2497.4	2498	Some disseminated Pyrite in very thin bedded/laminated, lighter to dark
		greenish grey wackes; bedding @ ~70° to C.A.
2498	2500	GOWGANDA FORMATION - PEBBLY WACKE
		Non-magnetic, dark to medium grey(s), moderately soft to hard, with ~5%
		granules and pebbles 0.2 - 1 cm in size mainly; minor Pyrite in some pebbles
		2498.5 - 7 cm, chloritized wacke pebble
2500		END
		Frank H. Toews, B.Sc.
		Frank H. Toews
		Geologist

Diamond Drill Record

HOLE No. ML94-01

Feet FROM	Feet TO	DESCRIPTION
		ACID DIP TESTS
		485' -89½°
		625' -89°
		795' -89°
		995' -88°
		1405' -87°
		1700' -87°
		2000' -87°
		2300' -86°
		2500' -86°

Diamond Drill Record

CHECK SAMPLING

HOLE No. ML 94-01

	SAMPLE				ASSAYS						
	FROM	TO	WIDTH	No.	Au(ppb)	Ni(ppm)	U (ppm)				
Chloritic-sericitic, massive wacke, brecciated by chlorite fracture fillings +/- slips with scaley Py; 1-2% Quartz-(hematitic) Dolomite veinlets and gashes; < 1/4% Pyrite in sample	35.0'	39.0'	4.0'	ML94-1-1	7	—	—				
Chloritic-sericitic massive wacke with some weak, local brecciation by chlorite-sericite fracture fillings +/- slips; 2-3% Quartz-(hematitic) Dolomite +/- Chlorite veinlets and gashes; minor Py; rocks partially albitized below 42.3'	39.0	43.0	4.0'	ML94-1-2	6	—	—				
Pink, albitized, arkosic with ~5% Quartz-Dolomite +/- hematite +/- Chlorite veinlets, Dolomite (+/- Chlorite) porphyroblasts; Chloritic fracture fillings; minor Pyrite	56.0	59.5	3.5'	ML94-1-3	14	—	—				
Green-grey, Chloritic-sericitic wacke (partly brecciated by Chlorite fracture fillings) with 5-10% Qz-Dol (hem) +/- Chlorite veinlets; minor Pyrite; some Dol. porphyroblasts	59.5	63.0	4.5'	ML94-1-4	< 5	—	—				
Sudbury Breccia +/- silicification +/- albitization in some matrix and clasts; <1% Qz-Dol (hem) veinlets; < 1/4% disseminated Py in matrix and clasts	105.0	109.0	4.0'	ML94-1-5	96	—	—				
Brecciated, pale pinkish to pink, silicified, albitized, with Dol. porphyroblasts, veinlets, rags, gashes; several Qz-Dol veinlets; minor disseminated Py; several Py fracture fillings & splashes near 164.2'; minor Chlorite, Sericite	162.0	165.0	3.0'	ML94-1-6	143	—	—				
Light to medium greenish grey fine grained pebbly wacke incl. 1.2' section of med.-coarse grained pebbly wacke-paraconglom. < 1/8% Po +/- Cp as disseminations (or replaced granules) and in pebbles & as rims on pebbles; few Qz-Carb Fracture fillings +/- Po @ 70-75°, 65° to C.A.	750.0	755.0	5.0'	ML94-1-7	5	104	2.8	(See also Multi-element by Spectrolab ICAP results Inc.)			

Diamond Drill Record

CK) K SAMPLING

HOLE No. ML94-01

	SAMPLE				ASSAYS						
	FROM	TO	WIDTH	No.							
Magnetic concentrate from selected grab samples in pebbly wacke containing magnetic Po(+/-Cp) which variably, partly replaces pebbles and granules internally and on rims (some granules may be totally replaced), and also	760'	752'	Selected Grabs	ML94-1-8	(See multi-element analysis by 0.G.S. Lab)						
in some Quartz-carbonate +/-Chlorite veinlets (Concentrate was mainly Po according to O.G.S. laboratory)				11	Au(ppb) 513	Pt(ppb) 25	Pd(ppb) 92				
					Cu(ppm)	Ni(ppm)	Au(ppb)	Pt(ppb)	Pd(ppb)		
16 Quartz-Carb-Chlorite veinlets + Po, Cp +/- Py (≤10% Po, Cp in veinlets), <1-3mm wide (avg. 2mm) @ 60-75° to c.a.	1465	1470	5.0'	ML94-1-9	73	60	<5	<30	68		
in pebbly wacke; also disseminated Po replaces some pebbles & granules; <1% Po, Cp overall											
					Au(ppb)						
Chloritized-Sericitized Wacke +/- Breccia +0.6' Quartz-Chlorite vein; 2-3% disseminated Py in wacke	1679	1683.5	4.5'	ML94-1-10	13						
Chloritized-Sericitized Wacke, brecciated by Chlorite-Quartz-Carbonate-(+/-Py) matrix veinlets + one pink	1683.5	1686'	2.5'	ML94-1-11	19						
Quartz-Carbonate veinlet; 2-3% disseminated Pyrite											

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W7470-0023C

Personal information collected on this form is obtained under the authority of t
this collection should be directed to the Provincial Manager, Mining Lands,
Sudbury, Ontario, P3E 6A5, telephone (705) 670-7284.

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Instructions:
- Please type or print and submit in duplicate
- Refer to the Mining Act and Regulations for requirements of filing assessment work with the Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): FLAG RESOURCES (1985) LIMITED		Client No. 132 132
Address: SUITE 1970-540-FIFTH AVENUE S.W. CALGARY, AB T2P 0M2		Telephone No. (403) 262 8883
Mining Division: SUDBURY	Township/Area: RATHBUN	M or G Plan No.
Dates Work Performed — From: AUGUST 8, 1994	To: OCTOBER 21, 1994	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
X	Physical Work, Including Drilling	DRILLING AND GEOLOGIAL CONSULTING
	Rehabilitation	
	Other Authorized Work	SECTION 18 ONLY
	Assays	
X	Assignment from Reserve	

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MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ 46,751.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
ERANA MINES LIMITED	106 FIELDING ROAD, LIVELY, ONTARIO, P3Y 1L5
FRANK TOEWS	HIGHWAY 537, RR#3, SUDBURY, ONTARIO,P3E 4N1

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: DEC.5.94.	Recorded Holder or Agent (Signature):

Certification of Work Report

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

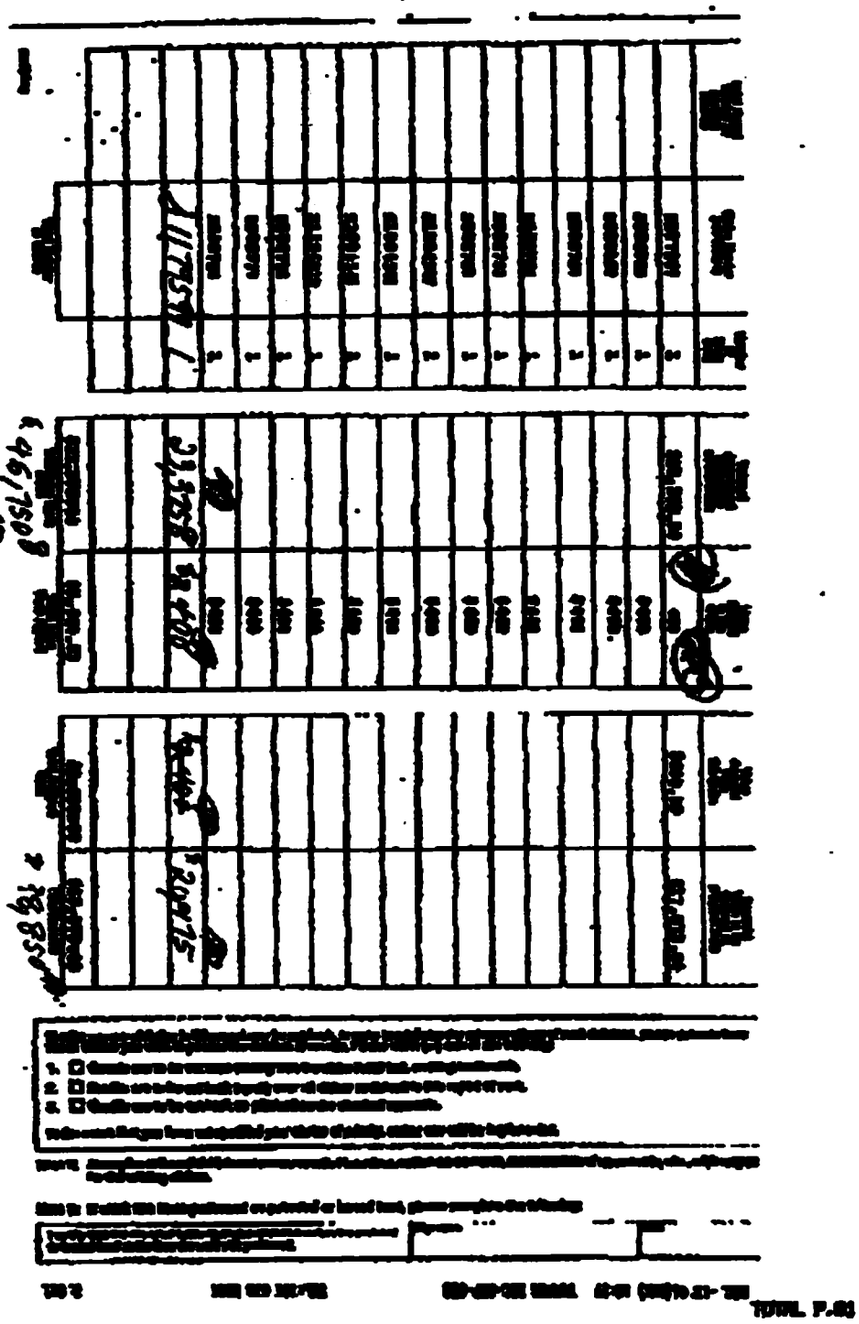
Name and Address of Person Certifying:
MURDO C. MCLEOD, SUITE 1970-540-FIFTH AVENUE S.W. CALGARY, AB T2P 0M2

Telepone No.	Date	Certified By (Signature)
(403) 262 8883	DECEMBER 5, 1994	

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
Rec 150 $3,81 Appt 81,000	Dec 8/94	Acting K. Giroux	RECEIVED DEC -8 1994
	Deemed Approval Date: March 8, 1995	Date Approved	
	Date Notice for Amendments Sent		

0241 (93/01)



2.1583 4

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	S577377	1	$23,375.00	400	$600.00	$17,875.00
	S586783	1		$400		
	S529169	1		$400		
	S586767	1		$400		
	S586728	1		$400		
	S586702	1		$400		
	S586701	1		$400		
	S1094347	1		$400		
	S1094346	1		$400		
	S1094345	1		$400		
	S1126212	1		$400		
	S586778	1		$400		
	S586779	1		$400		
	S586730	1		$400		
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

2.1583 4

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MINING LANDS BRANCH

0241 (03/91)

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9470.00230

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule so recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un regist des concessions minières. Adresser toute question sur la collecte de c renseignements au chef provincial des terrains miniers, ministère d Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbu (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type DRILLING	$39,274.00	
	CONSULTING	$ 4,447.00	
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
		$43,751.00	
	Total Direct Costs Total des coûts directs		$43,751.00

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type RECEIVED FEB 2 - 1994 MINING LANDS BRANCH		
	2.1583 4		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			$3,000.
	Sub Total of Indirect Costs Total partiel des coûts indirects		$3,000.
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		$43751.0
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles		$46751.0

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à ce effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

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

that as PRESIDENT (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (Titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé

à faire cette attestation.

Signature	Date

0212 (94/01)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

FLAG RESOURCES (1985) LIMITED

Suite 1970, 540 - 5th Avenue S.W.
Calgary, Alberta, Canada
T2P 0M2
TELEPHONE: (403) 262-8883
FAX: (403) 262-8886

2.15834

MINING RECORDERS OFFICE
WILLET GREEN MILLER CENTER
933 RAMSEY LAKE ROAD
3rd FLOOR
SUDBURY, ONTARIO
P3E 6B5

DECEMBER 4, 1994

Dear Sir:

Enclosed is a Report of Work and Statement of Costs on Drill Hole ML94-1, drilled on the boundary of S1179591 and S577377, as will be verified by Consulting Geologist, Frank H. Toews.

Two copies of the drill log will be submitted directly, to your office, by Mr. Toews.

There is an additional invoice, for consulting services, to be received from Mr. Toews, for this drill hole. It will be submitted when received.

Although costs are split on an equal basis between the two claims, we have submitted an assignment from reserve, from one claim only.

YOURS TRULY,

per

MURDO C. McLEOD
PRESIDENT
FLAG RESOURCES
CALGARY, CANADA
MCM/mdm
ENCL

2.15834

ERANA MINES LIMITED
106 Fielding Road
Lively, Ontario
P3Y 1L5

Flag Resources (1985) Limited
1970 540 - 5TH AVE., S.W.
Calgary, Alberta
T2P 0M2

RECEIVED
FEB 2 - 1995
MINING LANDS BRANCH

INVOICE NO.: FRL-003

DATE : Sept. 29/94

TERMS : Due upon receipt.

ENTION: Mr. M.C. McLeod

Diamond Drilling (B.Q.) - "RATHBUN TOWNSHIP"
- claim number ~~S472996~~
- to deepen hole 1000 ft.

Boundary
$ 1179591 - Lot 5
$ 577977 - Lot 6

:. 7 - 29/94 :	D.D. hole #ML94-1 to deepen hole 1000 to 2000 ft. 1000 ft. @ $15./ft.		$15,000.00
:. 19/94 :	haul drill core to 106 Fielding Rd. for viewing by geologist (Professor Naldrett)		
	2 men @ 12 hrs. each 17 hrs. @ $20./hr. 7 hrs. @ $30./hr.	340.00 210.00	550.00
	Bombardier - 1 day @ $200./day		200.00
	Truck Rental - 1 day @ $50./day to haul core		50.00
t. 14, 15, & 94 :	Tilden Rent-A-Car (Airport) reservation #54261 for Mr. M.C. McLeod (copy of transaction attached)		223.44*
			$16,023.44
	7% G.S.T. calculated on $15800.00		1,106.00
	GST #R1C1[illegible]		$17,129.44
	LESS: Sept. 6/94 tel. trsf.		-15,500.00
			$ 1,629.44

ENTERED SEP 2 5 '95
SJ - 264

FRANK H. TOEWS , B.Sc. GEOLOGIST
Highway 537, R.R.# 3
Sudbury, Ontario
P3E 4N1
Tel.(705) 694-4828

Statement of Account

To : Flag Resources (1985) Ltd.
Suite 1970, 540 - 5th Avenue S.W.
Calgary, Alberta
T2P 0M2

Date : October 2, 1994

2.1583 4

Period : August 15 - September 30, 1994

Projects : a) -Laundry L., Mackelcan Twp.
b) -Rathbun L. Area, Rathbun Twp.
c) -Matagamasi L. Area, Rathbun Twp.
d) -General

Particulars	Amount	Balance
PREVIOUS BALANCE: (Statement August 14/94)		$4,732.72
PAYMENT ON ACCOUNT: August 14/94	$1,400.00	
September 1/94	$3,332.00	
		$0.72

FEES:

(a) - Laundry L., Mackelcan Twp. $300.00
(6 days - charge only 2 days @ 150/day)

Re-write wet log sheets for DDH LL94-01, convert metric to imperial measurements, plot section, and photocopy.

(b) Rathbun L. Area
August 17 /94 (0.25 day) $37.50

Photocopy & deliver log of DDH RL94-04 to Mining Recorder for M.C.M.

(c) Matagamasi L. Area, Rathbun Twp.
August 15 - Sept.30 /94 (21.75 days) $3,262.50
To drill (DDH ML94-01) to log & sample core; visit drill with Wilf Meyer & Mike Cosec of M.N.D.M. (Sept. 7) & M.C.M. (Sept. 16); take samples of pebbly wacke with pyrrhotite +/- chalcopyrite to O.G.S. Lab (Sept.9 & again on Sept. 30); ship samples collect by bus to Spectrolab in Rouyn, PQ (Aug. 25 & Sept. 30); picked core & Tony Naldrett at airport, discussion,

ccount

urces (1985) Ltd.

er 2/94

agamasi L. Area, ctd.
nd review core from ML94-01 at Erana Mines,
ake Tony back to conference at Sheraton,
and re-stack core (Sept. 19 & 20); also
checked outcrops & old pit or shaft? on
south shore of Cathro L. (Sept. 12);
picked up copy of Fax of Naldrett's report
at M.N.D.M. (Sept. 30).

2.15834

(d) General
August - September/94 (No charge) $0.00
Phoning, etc.

Sub-total (Fees) :	$3,600.00	
EXPENSES:		
Vehicle Allowance (2875 Km @ 0.30/km)	$862.50	
Photocopies	$14.21	
Sub-total (Expenses) :	$876.71	
TOTAL (Fees + Expenses) :	$4,476.71	
BALANCE DUE :		$4,477.43

Frank H. Tees

ERANA MINES LIMITED
106 Fielding Road
Lively, Ontario
P3Y 1L5

TO:	**Flag Resources (1985) Limited** **1970 540 - 5th Ave., S.W.** **Calgary, Alberta** **T2P 0M2**	**INVOICE NO.:**	**FRL-002** A
		DATE :	**Aug. 26/94**
		TERMS :	**Due upon receipt.**

- - - - - - - - - - - - - - - - - - -

RE: Diamond Drilling (B.Q.) - "RATHBUN TOWNSHIP" Boundary 11 7991 - Lot 50
- claim number 8[redacted] # 577377 - Lot 6

MOBILIZATION	:	August 8, 1994	$ 1,500.00
		August 10 - 24, 1994 D.D. Hole #ML94-1 drilled complete to 1000 ft. @ $12./ft.	12,000.00
DEMOBILIZATION	:	August 24, 1994	1,500.00
			$15,000.00
G.S.T.	:	7% G.S.T. GST #R101671678	1,050.00
			$16,050.00
		LESS: Tel. Trsf. July 18/94	-15,000.00
			$ 1,050.00

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FEB 2 - 1995
MINING LANDS BRANCH

2.15834

ENTERED AUG 29 1994
55-262

Core Drilling/Per. 1/2

16. (1) Exploratory drilling by core or non-core method, including diamond or core drilling, and other drilling such as percussion, reverse circulation and auger drilling, is eligible for assessment work credit if the holder of the claim submits legible drill hole logs, suitable for photographic reproduction, in duplicate, a drilling plan and a drill hole section.

16. (2) The drill hole logs shall,

(a) identify the hole by number;
(b) give the mining claim numbers on which the hole is drilled;
(c) indicate the location of the drill hole collar in relation to the grid line co-ordinates, claim posts and identifiable geographic reference points;
(d) indicate the angle and azimuth of the hole;
(e) indicate the size of the core, or the diameter of the drill hole if bored other than by core drilling;
(f) state the starting and completion dates of the drilling;

16. (2)
(g) state the name of the drill contractor;
(h) state the storage location of the core or drill sample material;
(i) indicate the thickness of overburden in the core drilling holes;
(j) adequately describe all geological units encountered in terms of their thickness, composition, colour, textures, structure, grain size, degree of sorting, mineralization and alteration, as appropriate;
(k) indicate the total depth of penetration of the drill hole in bedrock and unconsolidated material;
(l) indicate the location and type of all samples taken for assay or physical tests;
(m) state the date of completion of the log;
(n) contain the printed name and signature of the author of the logs; and
N/A (o) provide a legend of all symbols or abbreviations used in the logs.

16. (3) The drilling plan map shall be on durable paper, suitable for photographic reproduction, and shall,

(a) be at a scale between 1: 5000 and 1: 10;
(b) contain a graphic or bar scale and show the magnetic north and the declination;
(c) show all lakes, streams and other notable topographic features, and all relative cultural features such as railroads and hydro lines;
(d) accurately show all claim boundaries, claim posts, township boundary lines, roads, lot and concession lines, base lines, picket lines and survey stations where identifiable, in relation to topographic features; and
(e) show the location of drill hole collars and the numbers, angles and depths of all drill holes in relation to clauses (2)(c), (d) and (e) in such a manner that relocation of the hole is simplified.

Core Drilling 2/2

16. (4) The drill hole section shall be on durable paper, suitable for photographic reproduction, and shall,

(a) indicate the rock types or type of material intersected;
(b) be at a scale between 1: 5000 and 1: 10;
(c) contain a bar or graphic scale;
(d) give the astronomic azimuth of the hole;
(e) show co-ordinate lines corresponding with those shown on the drilling map;

16. (4) (f) indicate the total length of the hole;
(g) contain a legend for codes or symbols corresponding to unconsolidated materials, mineralization and structure;
(h) show the location of the unconsolidated materials and mineralization designated by code or symbol corresponding to those mentioned in clause (g);
(i) indicate the mining claim number on which the hole is drilled; and
(j) show the number and angle of the drill hole.

16. (9) A holder of a mining claim who performs a program of diamond drilling or overburden drilling on it is eligible for an assessment work credit, in addition to that claimed elsewhere under this section, of 4 per cent of the cost of the drilling program if the appropriate resident geologist is advised that the holder does not wish to retain the core and samples.

16. (10) The holder of the mining claim shall,

(a) dispose of the core and samples in an appropriate manner under the conditions of the holder's work permit issued under the Public Lands Act or the Forest Fires Prevention Act; or
(b) if clause (a) does not apply and the resident geologist so requests, deliver the core and samples at the holder's sole expense to the nearest core library or to another location designated by the resident geologist.

Ontario

Ministry of Northern Development and Mines
Ministère du Développement du Nord et des Mines

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

Telephone: (705) 670-5853
Fax: (705) 670-5863

February 9, 1995

Our File: 2.15834
Transaction #W9470.00230

Mining Recorder
Ministry of Northern Development
and Mines
3rd Floor
Sudbury, Ontario
P3E 6B5

Dear Mr. Denomme:

RE: APPROVAL OF ASSESSMENT WORK ON MINING CLAIM S577377 IN RATHBUN TOWNSHIP.

The assessment credits for Drilling, Section 16 of the Mining Act Regulations, as listed on the original Report of Work, have been approved as of February 8, 1995.

Please note there was an error in addition on the Statement of Cost form. Consulting geologist charges of $4,477 is indicated on the invoices supplied, however only $4,447 is shown on the form. Total Direct Cost of $43,751 was obtained using the correct invoiced amount and the Total Value of Assessment Credit for this submission remains $46,751.

Please indicate this approval on the claim record sheets.

If you have any questions concerning this correspondence please contact Bruce Gates at (705) 670-5856.

ORIGINAL SIGNED BY:

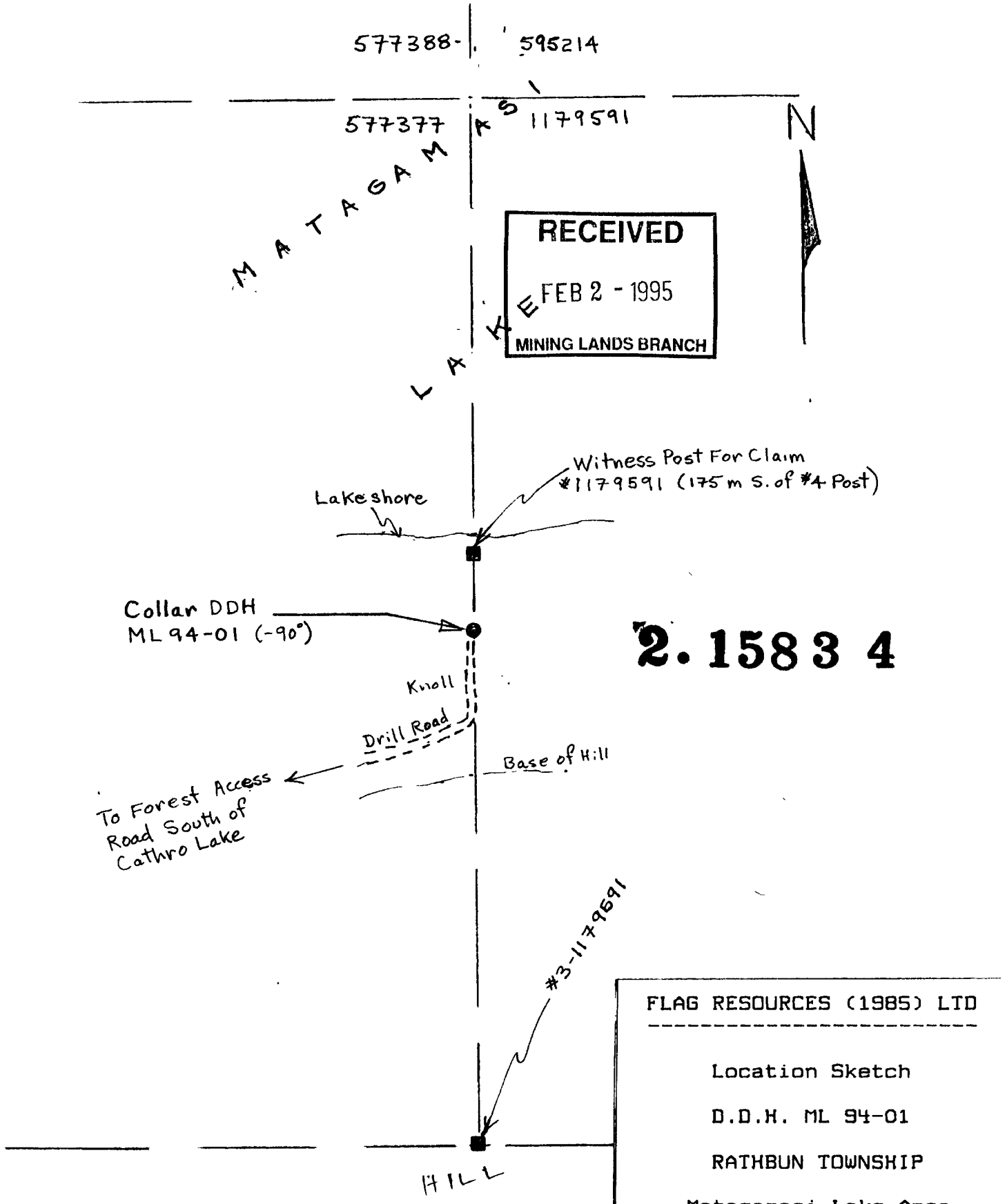
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

BIG/jl
Enclosures:

cc: Assessment Files Office
Sudbury, Ontario

Resident Geologist
Sudbury, Ontario


PARKIN TOWNSHIP
AYLMER TOWNSHIP
MACKELCAN TOWNSHIP
McCARTHY TOWNSHIP
NORMAN TOWNSHIP
KELLY TOWNSHIP
SCADDING TOWNSHIP
INDIAN RESERVE No. 11
WANAPITEI PROVINCIAL PARK
WANAPITEI LAKE
MATAGAMASI LAKE
KUKAGAMI LAKE
Bonhomme Point
Portage Bay
Boland's Lake
GAVIN ISLAND
SEAGULL ISLAND
BURNT ISLAND
BONANZA ISLAND
HIGH ISLAND
ZONE 17
NOTE
MINING RIGHTS OF THE LAND AND THE LAND UNDER THE WATERS OF WANAPITEI LAKE ARE WITHDRAWN FROM STAKING OUT UNDER SEC. 36 OF THE MINING ACT, ORDER NO 67/76 DATED NOV 17, 1976 FILE 7598 VOL. 9
RECEIVED
FEB 2 - 1995
MINING LANDS BRANCH
2.15834
Ministry of Natural Resources
Ministry of Northern Development and Mines
Ontario
INDEX TO LAND DISPOSITION
PLAN
G-4093
TOWNSHIP
RATHBUN
M.N.R. ADMINISTRATIVE DISTRICT
SUDBURY
MINING DIVISION
SUDBURY
LAND TITLES / REGISTRY DIVISION
SUDBURY
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.
DATE OF ISSUE
JAN 30 1995
SUDBURY
MINING RECORDER'S OFFICE
Scale 1:20 000
Contour Interval 10 Metres
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.
SYMBOLS
DISPOSITION OF CROWN LANDS
AREAS WITHDRAWN FROM DISPOSITION
MRO - Mining Rights Only
SRO - Surface Rights Only
M+S - Mining and Surface Rights
NOTES
FLOODING RIGHTS ALONG THE SHORES OF WANAPITEI LAKE AND ISLANDS CONTAINED THEREIN TO ELEV. 100.5' (CREST OF DAM) RESERVED TO ONTARIO HYDRO. L.O. 6185
RATHBUN TWP.



FLAG RESOURCES (1985) LTD

Location Sketch

D.D.H. ML 94-01

RATHBUN TOWNSHIP

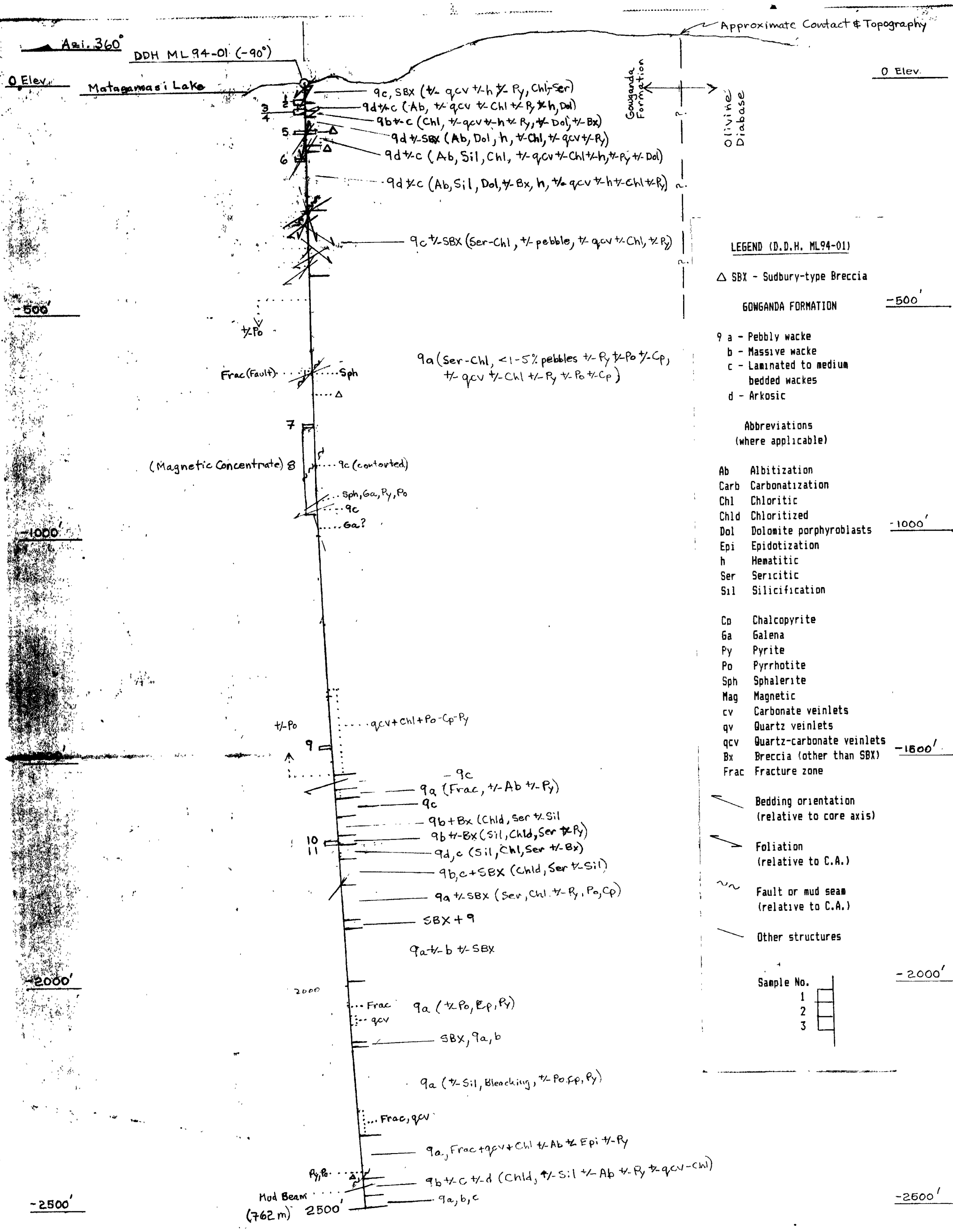
Matagamasi Lake Area
On Boundary of Claims
S - 577377 & 1179591

Scale - 1 : 2000 Oct/94

0 50m

0 100ft

FHT



evence Line

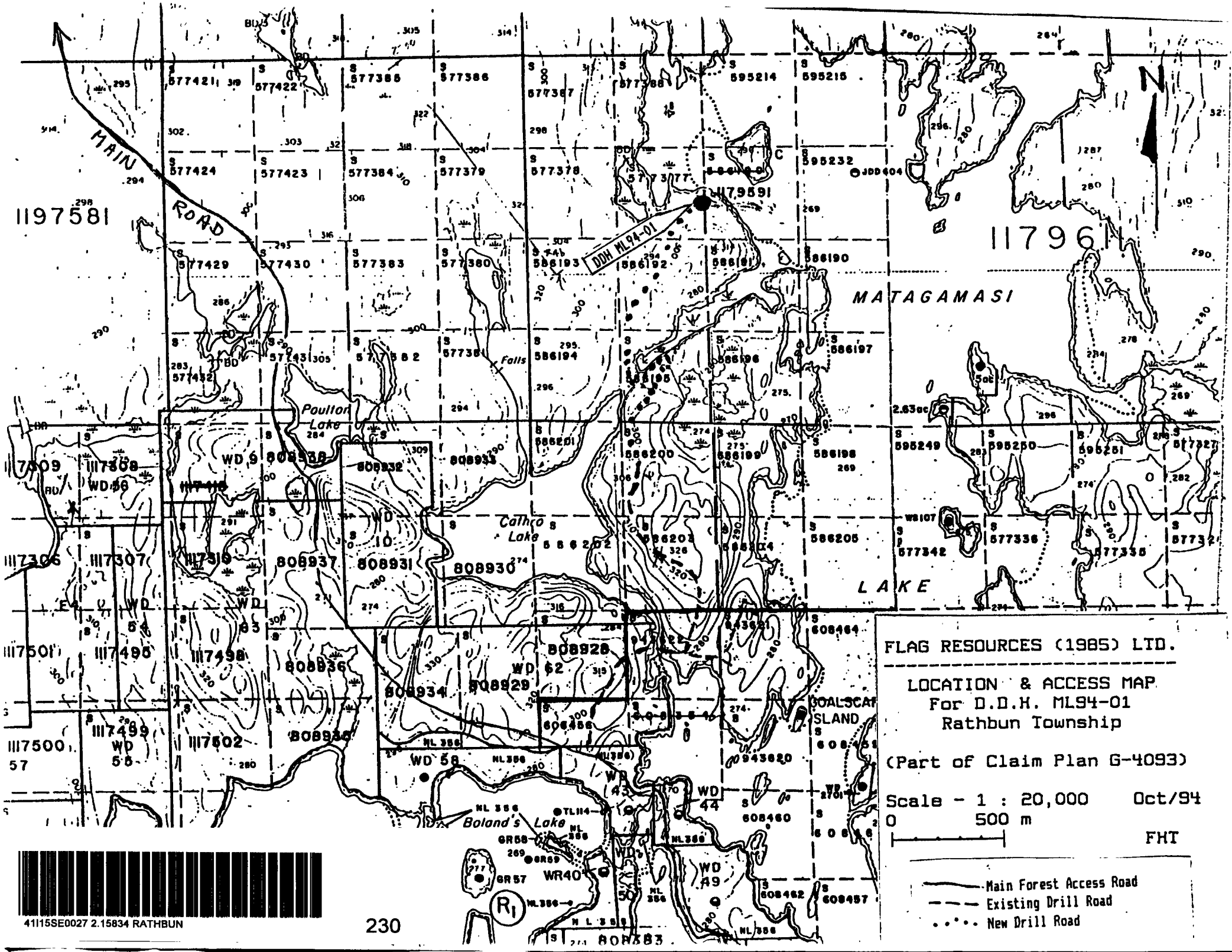
FLAG RESOURCES (1985) LTD.

SECTION THROUGH D.D.H. ML94-01
(Looking East)
On Boundary Between Claims
S - 577377 & 1179591

RATHBUN TOWNSHIP

Scale : 1" = 200' Oct. 1994
0 200 ft.
0 50 m
FHT

41I15SE0027 2.15834 RATHBUN



41I15SE0027 2.15834 RATHBUN