GM 32129

DIAMOND DRILL CORE LOG, MANTHET 4-74 PROPERTY

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Énergie et Ressources naturelles
Québec

DIAMOND DRILL CORE LOG

Sheet No. 1

LATITUDE 28 + 00W.

DEPARTURE L 12 + 50N.

ELEVATION Surface

BEARING South on picket line

DIP AT COLLAR -55°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
350'	-38°		

TOTAL DEPTH OF HOLE 425'

PROPERTY Manthet 4-74

CLAIM NO. 344316-2 ~~SE Quarter~~ Manthet Township

HOLE NO. Man 76-1

CORE SIZE AQ Wireline

STARTED May 2, 1976

FINISHED May 5, 1976

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No	ASSAYS AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	TO	ACC WIDTH
0	24	Casing										
24	96.5	Diorite--										
		green-grey,medium grained. Fine leucoxene speckling										
		in places. Much secondary carbonate in veins and on										
		fractures. Slight to moderately sheared at 30° C.A.										
		77.7 fracture										
		91.5 - 96.5 fine grained chill margin; end of										
		leucoxene alteration.										
96.5	203.5	Altered Andesite--										
		Fine-medium grained, grey shearing at 40° C.A.										
		96.5-107 may be strongly altered diorite.										
		107-137 meta-andesite grey; much carbonate veining.										
		Some local fragments. On the whole rather massive save										

Ministère des Richesses Naturelles, Québec
SERVICE DE LA DOCUMENTATION TECHNIQUE
Date: 4 OCT 1976
No GM: 32129

CONTRACTOR Moderne Drilling

LOGGED BY Dan MacInnis

DIAMOND DRILL CORE LOG

Sheet No. 2

PROPERTY Manthet 4-74

HOLE NO. Man 76-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
		for sections of alteration due to fractures.										
		137-161 meta-andesite; dark grey-green more intensely										
		altered. (Light grey, fine around carbonate veins)										
		Some local fragments.										
		161-166 highly altered section of brown biotite and										
		carbonate (biotite schist); shearing at 35-40° C.A.										
		166-174 meta-andesite, dark grey-green; chloritic										
		and carbonated.										
		174-180 brown biotite section as above (biotite schist)										
		180-181.5 large carbonate-quartz-chlorite vein										
		181.5-203.5 meta-andesite as above; at 193 1" of										
		banded pyrrhotite with specks of chalcopyrite.										
203.5	228.5	Diorite--										
		medium grained, dark grey; fine leucoxene alteration.										
		Faintly to moderately sheared. Homogenuous and										
		massive for almost entire section; shearing at 35°										
		C.A.										
		203.5-205 massive carbonate and quartz vein										

DIAMOND DRILL CORE LOG

Sheet No. 3

PROPERTY Manthet 4-74

HOLE NO. Man 76-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
228.5	287	Altered Andesite or Diorite--										
		medium-fine grained dark grey-green. Fractures with										
		light grey-green alteration haloes. Carbonate.Original										
		rock was massive and homogenuous. Much carbonate.										
287	298	Silicified Biotite Schist(Tuff) - Conductor--	10606	.02	.05	.03	.01			289.8	292.6	2.8
		strongly sheared and silicified with 12-15% sulphides,										
		pyrite, pyrrhotite and chalcopyrite and some mag-	10607	tr.	.04	.01	.01			294.2	295.4	1.2
		netite. Black chlorite often associated with	10608	tr.	.04	.05	.03	.02	.05	295.4	297.0	1.6
		mineralization. Shearing 45° C.A. Much brown biotite	10609	.01	.08	0.11	N.D.		.07	297.0	297.6	0.6
		and strong amounts of carbonate . Local sects. cherty										
		banding										
298	310	Biotite Schist (Tuff?)--										
		strongly sheared at 45° C.A. in part silicified.										
		Much brown biotite. Strong amounts of carbonate.										
310	425	Altered Andesite--										
		fine to medium grained dark grey-green to light grey.										
		Altered with fractures and carbonate.										

DIAMOND DRILL CORE LOG

Sheet No. 4

PROPERTY Manthet 4-74

HOLE NO. Man 76-1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
		325-345 this part may be pillowed. Several intermittent										
		segments (2"-4") of pale cream sericite which may be										
		altered pillow rim.										
		345-350 small section of biotite schist.										
		350-375 meta-andesite; some local fragments.										
		375-394 meta-andesite as above. Some local fragments										
		This section may be pillowed in part.										
		394-425 meta-andesite; several sparsely located										
		sections of pale cream sericite. (Pillow rims?)										
		Highly fractured (leached and carbonated). Several										
		sections of strong shearing and local fragments.										
		Much carbonate.										
		425' End of hole										

DIAMOND DRILL CORE LOG

Sheet No. 1

LATITUDE 9 + 75 S

DEPARTURE 124 W

ELEVATION surface

BEARING southwest on picket line

DIP AT COLLAR -50°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
350'	-40°		

TOTAL DEPTH OF HOLE 358'

PROPERTY Manthet 4-74

CLAIM NO. 344316-5 SE quarter Manthet Township

HOLE NO. MAN. 76-2

CORE SIZE AQ Wireline

STARTED May 26, 1976

FINISHED June 2, 1976

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No	ASSAYS AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	TO	ACC WIDTH
0	42	Casing										
42	49	Silicified Diorite--										
		grey, fine to medium grained; carbonate veins. Shearing										
		at 55° C.A. Rather homogeneous in appearance.										
49	61	Altered Andesite--										
		Dark grey green, fine grained. Numerous thin white										
		carbonate veins; fracture alteration to light grey.										
		Chlorite rich;massive appearance.										
		55 - 55.5 brown biotite section										
61	142	Altered Diorite (Biotite)--										
		Light grey and fine to medium grained. Much										
		carbonate veining. Small red garnets quite common;										

CONTRACTOR Moderne Drilling

LOGGED BY Daniel MacInnis

DIAMOND DRILL CORE LOG

Sheet No. 2

PROPERTY Manthet 4-74

HOLE NO. 76-2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
		much brown biotite. Some sections are intensely sil-										
		icified and sericitized as well as brecciated. Shearing										
		at 45-50° C.A.										
		70-74 intensely altered to sericite and in part healed										
		breccia. Strongly carbonated.										
		79-80 much brown biotite										
		80-100 altered diorite micro fractured and carbonated										
		local spotty sections of brown biotite. Original										
		rock was fairly massive. Also some local sections										
		of porphyry.										
		100-125 altered diorite. Much brown biotite.										
		carbonated. Some minor sections of sericite alteration										
		some fine red garnets. Color ranges from light brown										
		green to brown grey. Grain size is fine-medium.										
		125-142 altered diorite. Becoming more biotitic and										
		shearing more pronounced.										
		125-128 Several veinlets and disseminated pyrrhotite										
		and pyrite often with quartz - $CaCO_3$										

DIAMOND DRILL CORE LOG

Sheet No. 3

PROPERTY Manthet 4-74

HOLE NO. 76-2

FOOTAGE		DESCRIPTION	SAMPLE No.							CORE LENGTH		
FROM	TO			AU OZ	AG OZ	% CU	% ZN	% NI	% Pb.	FROM	TO	ACC WIDTH
142	175	Biotite Schist (Altered Biotitic Diorite)--										
		brownish, red grey and fine to strongly biotitic										
		and sheared at 40° C.A. Some local sericite sections										
		and veinlets of quartz - $CaCO_3$ with pyrrotite and										
		pyrite.										
175	182	Silicified Biotite Schist or Tuff (Conductor)--										
		Section of mineralized and silicified schist. pyrite										
		and pyrrhotite . Much associated carbonate as well.	11420	.01	.04	.02	.01			175	177	2'
		Bright green fucite is common, from 40-45% pyrite	11421	.02	,03	.05	.02		.002	177	179	2'
		and pyrrhotite and the odd speck of chalcopyrite -	11422	tr.	.04	.25	.13		.01	179	182	3'
		magnetic. Some cherty banding.										
182	189	Biotite Schist--										
		as above. Shearing at 50-55° C.A. Much brown biotite.										
		Fine grained with overall red brown tinge.										
189	359	Altered Andesite or Diorite--										
		fine grained and dark green color. Micro fractured										

DIAMOND DRILL CORE LOG

Sheet No. 4

PROPERTY Manthet 4-74

HOLE NO. 76-2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
		and carbonated. Some short local healed breccia										
		sections. Original rock was probably massive. Now										
		intensely altered to chlorite, sericite and carbonate										
		and minor epidote.										
		209.8 large splash of pyrrhotite and chalcopyrite										
		210-225 looks more like an altered fine diorite.										
		Grid alteration.										
		225-250 meta andesite micro fractured; thin veinlets										
		of carbonate. Several 1- 2" quartz $CaCO_3$ veins										
		with specks of chalcopyrite. This section is										
		probably pillowed. Regular sections of brecciation										
		now healed with quartz and sericite.										
		250-275 meta andesite. Similar to above. Pillowed										
		263-264 altered acid porphyry dyke										
		272.5 - 273.5 altered acid dyke										
		275-284 meta andesite as above; pillowed. A few										
		local siliceous sections becoming porphyritic. Grid										
		alteration.										
		278.5-281 altered acid dyke. Few red garnets , much										

DIAMOND DRILL CORE LOG

Sheet No. 5

PROPERTY Manthet 4-74

HOLE NO. 76-2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	AU OZ	AG OZ	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDT
		shearing and sericite contacts brecciated.										
		282.5 large quartz - $CaCO_3$ veins										
		289-300 porphyritic meta andesite. Altered and										
		stretched phenocrysts of feldspars. Some localized										
		sections of silicification. Much fine grained and										
		darker chloritic and sericitized.										
		300-315 meta andesite dark green. Laced with $CaCO_3$										
		veining. A few local brecciated sections which may be										
		poorly formed pillow rims.										
		311-312 altered acid dyke (sericitized)										
		315-325 meta andesite as above										
		316-318 S_1O_2 - $CaCO_3$ vein sub parallel to C.N.										
		325-350 meta andesite, very fine and silicified.										
		Grid fracturing and carbonate. Local brecciated										
		section.										
		335-337 section of fine leucoxene speckling. Re-										
		presents an altered section of diorite. Lighter color.										
		350-359 meta andesite as above; more intensely										
		silicified. More massive like in appearance. Dacite.										

358' End of hole