GM 47579

JOURNAL DE SONDAGES, PROJET VALRENNES A

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-1

Feuille No 1 de

Projet	: Valrennes A	Ligne	: 4+00W	Ord.	:	Profondeur	: 0	200' 400'	600' 800'	Couronne	
Claim	: 371328-3	Section	: 1+30S	Ord.	:	Plongée	: -70°	-65° -64 ½	-63 -61	AX: EX:	
Canton	: Valrennes	Lat.	:	Long.	:	Azimut	: 1067=027°		1067=57°	AQ: BQ	
Rang	:	Elévation Orifice:				Commencé le	: 13-02-88				
Lot	:	Azimut:	030°			Terminé le	: 18-02-88				
N.T.S.	:	Niveau:				Entrepreneur	: Forages Diamex				

De à

Profondeur totale: 325,30 m

Journal: Donald Théberge

Date: 17-18/02/88

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. PPb	Vérif.
0	6.5	Overburden								
6.5	7.69	Fragmental felsic tuff	31751	6.50	7.69	1.19	«1%		137	
		Rock is green, silicified, contains intermediate to felsic								
		fragments, up to 1 cm., forming about 60% of the rock, in a								
		felsic matrix. Pyrite is only in traces.								
		At 6.7m, over 30 cm fault sub-parallel to core axis.								
		An open fault is at the bottom contact. (Circulating water has								
		leached it)								
		Pyrite is in very little patches («1mm) fine, and sometimes								
		finely disseminated.								
7.69	14.22	Silicified fragmental tuff (without dominant schistosity)	31752	7.69	8.66	0.97	2-3%		440	
		Rock is grey, very hard with felsic fragments in a felsic matrix.	31753	8.66	9.55	0.89	«1%		109	
		Those fx represent 65 to 70% of the rock and are up to 4 cm.	31754	9.55	9.96	0.41	1%		699	
		They are generally angular, some of them are even showing relics	31755	9.96	10.93	0.97	«1%		9	
		of bedding. Some jasper fx 3mm are distributed in the lower	31756	10.93	12.40	1.47	«1%		385	
		part of the unit.	31757	12.40	14.22	1.82	«1%		43	
		Pyrite represents generally 1% of the rock, but can locally be								
		up to 3%. Pyrite is very fine, sometimes disseminated in the								
		matrix in millimetric patches, mainly along sub-millimetric								
		crack system.								
		At 9.70 m, over 30 cm, fault, with leached contacts, sub-parallel								
		to core axis with about 1% py along the fault plane.								

Ministère de l'Énergie et des Ressources
Service de la Géoinformation
Date: 16 JAN 1990
No G.M.: 17579

INGÉNIEUR ENGINEER
DONALD THÉBERGE
3236
QUÉBEC

ÉNERGIE ET RESSOURCES
SECTEUR MINES
07 OCT. 1988
Bureau régional Val d'Or

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88- A-1

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne AX: EX: AQ:

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: _____

Date: _____

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		-Unit becomes more massive toward the end.								
			31758	14.22	15.25	1.03	«1%		385	
			31759	15.25	16.61	1.36	«1%		285	
			31760	16.61	18.08	1.47	«1%		203	
14.22	46.27	Rhyolitic fragmental tuff (or debris flow?)	31761	18.08	19.53	1.45	«1%		237	
		Rock is yellowish, hard and mainly characterized by quartz por-	31762	19.53	20.95	1.42	«1%		266	
		phyries, about 2 to 5 mm in size and forming about 5% of the	31763	20.95	22.37	1.42	1%		579	
		rock.	31764	22.37	23.86	1.49	1%		462	
		Rock contains about 40% of fragments usually varying in size	31765	23.86	25.23	1.37	Tr		114	
		from some mm to 2 cm, and exceptionnally up to 10 cm.	31766	25.23	26.69	1.46	Tr		123	
		They are elongated, following the schistosity. They are all	31767	26.69	28.17	1.48	Tr		358	
		felsic some are even cherty and many were sericitized before	31768	28.17	29.65	1.48	Tr		646	
		being silicified. Fuchsite is also present in some of them.	31769	29.65	31.72	2.07	Tr		480	
		Pyrite represents less than 1% of the rock, but is sometimes	31770	31.72	34.14	2.42	Tr		802	
		in concentration up to 4%, over a few centimeters. Pyrite is	31771	34.14	35.64	1.50	Tr		861	
		fine grained and in little patches, in the matrix and the frag-	31772	35.64	37.09	1.45	Tr		507	
		ments and also concentrated along the quartz veins.	31773	37.09	38.47	1.38	Tr		87	
		Some joints are rusty and show leaching activity by meteoritic	31774	38.47	39.92	1.45	Tr		45	
		water.	31775	39.92	41.77	1.85	Tr		518	
		At 14.92, fault sub-parallel to core axis over 40 cm.	31776	41.77	42.85	1.08	«1%		37	
		From 31.72, fragment becomes more little and less abundant	31777	42.85	44.28	1.43	1%		399	
		= 3- 4 mm. 25%	31778	44.28	46.27	1.99	1-2%		236	
		Schistosity is strong.								

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No 88-A-1

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: _____

Date: _____

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		Rock is hematized (pink) in some places, pyrite remains in Traces								
		throughout the end of unit.								
		At 33.05, barren quartz vein, over 40 cm.								
		At 41.77 m, massive non-fragmental part, over 1,1 m. slightly								
		mineralized with less than 1% py.								
		Pyrite is more abundant, about 1-2%, over the last 2 m. of the								
		unit.	31779	46.27	47.27	1.0	Tr		11	
			31780	47.27	50.05	2.78	Tr		54	
46.27	71.63	Felsic intrusive	31781	50.05	53.0	2.95	Tr		44	
		Rock is grey, hard very coarse grained, made of cristallized	31782	53.0	55.88	2.88	Tr		40	
		quartz and feldsphar totaling about 95% of the rock, the remai-	31783	55.88	58.90	3.02	Tr		42	
		ning 5% is made of an intersticial dark mineral, (chlorite or	31784	58.90	61.80	2.90	Tr		87	
		micas), pyrite is present as traces.	31785	61.80	64.66	2.86	Tr		54	
		Quartz veining accounts for less than 10% of the unit.	31786	64.66	67.66	3.0	Tr		44	
			31787	67.66	70.43	2.77	Tr		44	
71.63	75.70	Rhyolitic tuff	31788	70.43	71.63	1.20	Tr		35	
		Rx is grey-green, with about 5%, 1.5mm quartz porphyries.								
		Fragments are present but not common «5%	31789	71.63	73.31	1.68	Tr		12	
		At 74.80, over 1m, quantity of porphyries raise to 15%	31790	73.31	75.70	2.39	«1%		6	
75.70	83.45	Felsic intrusive	31791	75.70	79.12	3.42	Tr		51	
		Idem the preceeding unit (46.27- 71.63)	31792	79.12	81.95	2.83	Tr		55	
			31793	81.95	83.45	1.50	Tr		20	

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No 88- A-1

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Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: _____

Date: _____

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au ppb	Vérif.	
83.45	295.50	Rhyolite, rhyolitic tuff?	31794	83.45	84.90	1.45	Tr		62		
		Rx is generally grey, very hard, intermixed with the preceeding	31795	84.90	87.80	2.90	Tr		7		
		unit for the first 2 m, contains 5 to 10% of 1,- 1,5 mm quartz	31796	87.80	90.64	2.84	Tr		20		
		porphyries. Rx is not altered, except for a few sericitic	31797	90.64	93.60	2.96	Tr		8		
		streaks in schistosity which is medium developed.	31798	93.60	96.44	2.84	Tr		5		
		Pyrite is generally present in traces throughout the unit.	31799	96.44	99.45	3.01	Tr		5		
		103- 105 m, barren quartz veining more abundant.	31800	99.45	102.33	2.88	Tr		4		
		105,6 to 108.64 pyrite content raise to 1-2%, very fine and	31801	102.33	105.25	2.92	Tr		56		
		disseminated.	31802	105.25	108.19	2.94	«1%		376		
		At 123,10 over 2m, rock is green, due to chlorite concentration,	31803	108.19	111.26	3.07	1-2%		304		
		some fx 3-4 mm are observable within the chlorite.	31804	111.26	114.24	2.98	Tr		66		
		128,15- 132: Intermixed rhyolitic flows (probably more than one	31805	114.24	117.15	2.91	Tr		9		
		flow). Slightly chloritic in places. Quartz porphyries are far	31806	117.15	120.10	2.95	Tr		10		
		less abundant in chlorite («1%)	31807	120.10	122.91	2.81	Tr		5		
		136.88- 147.72: grey-green rhyolite % quartz porphyries varia-	31808	122.91	125.84	2.93	Tr		71		
		ble but usually 1-3%- 1mm	31809	125.84	128.85	3.01	Tr		9		
		Around 142 m, some felsic fx « 1cm									
		147,72- 151,32: green rhyolite with 1-2% «1mm quartz porphyries,	31810	131.4	132.9	1.5	Tr		5		
		with about 10% sub-centimetric barren quartz veining.	31811	137.25	138.75	1.5	Tr		142		
		At 164.5- chloritic alteration, clearly visible also from	31812	143.11	144.61	1.5	Tr		7		
		175.34 to 180.5									
		Some fx are present, they are rounded and the same composition									
		as the matrix.									

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Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: _____

Date: _____

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		180.5 to 215.55: rock is grey as before	31813	148.70	150.2	1.50	Tr		9	
		From 215.55 to 230- composition of the rock is still the same,	31814	154.51	156.01	1.50	Tr		7	
		but some slightly graphitic lengths are observable.	31815	160.43	161.93	1.50	Tr		6	
		Around 222 m, some sericite is present over 3 m.	31816	166.03	167.53	1.50	Tr		11	
		After 230 m, rx is grey, and the quartz porphyries represent	31817	171.74	173.24	1.50	Tr		4	
		about 5% of the rock. (2mm in size)	31818	177.34	178.84	1.50	Tr		7	
		268,83 to 269,59: rock is almost ground, faulted with sericite.	31819	183.01	184.57	1.56	Tr		6	
		Rx becomes fragmented from 269.59.	31820	188.86	190.36	1.50	Tr		4	
		271,18 to 278: quartz veining abundant	31821	194.66	196.16	1.50	Tr		5	
			31822	213.75	214.75	1.0	Tr		20	
		From 275, rx is definitely tuffaceous, schistosity is strong,	31823	214.75	217.48	2.73	Tr	(gp)	6	
		bedding non-apparent, contains about 3-5% fx less than 1 cm in	31824	217.48	220.25	2.77	Tr	(gp)	5	
		size. Quartz porphyries remain the same as before.	31825	226.24	229.24	3.0	Tr	(gp)	20	
		From 289.5 to 295, some graphitic streaks. In this interval,	31826	246.34	247.84	1.50	Tr		51	
		the rock is also more schistose, with feldsphars.	31827	262.83	264.33	1.50	Tr		5	
			31828	267.38	269.88	2.50	Tr		6	
			31744	223.20	224.70	1.5	Tr		6	
			31839	270.48	271.98	1.50	Tr		6	
			31840	271.98	274.98	3.0	Tr		256	
			31841	274.98	276.13	1.15	Tr		81	
295.5	312.74	Felsic fragmental tuff								

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No 88- A-1

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: _____

Date: _____

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au Ppb	Vérif.	
		Rock is generally grey, with a light yellow tint, medium hard,									
		essentially the continuity of the preceeding unit, but with	31842	276.13	277.53	1.40	Tr		4		
		far less quartz porphyries, about 1% at the beginning decreasing	31843	277.53	279	1.47	Tr		94		
		toward bottom of hole.	31844	279	281.81	2.81	Tr		5		
		Schistosity is moderate to strong.	31845	284.72	286.22	1.50	Tr		5		
		Fragments represent about 10% of the rock but are more common	31846	290.47	293.47	3.0	Tr		4		
		at the end of the unit.	31847	293.47	294.80	1.33	Tr		7		
		The fragments are usually felsic, even cherty and less than	31848	294.80	296.3	1.50	Tr		36		
		1 cm in size. They are angular and elongated following the	31849	296.3	297.62	1.32	Tr		264		
		schistosity. (Some even contain fuchsite, some py fx are also	31850	297.62	299.12	1.50	Tr		7		
		present).	31851	299.12	300.49	1.37	1-2%		36		
		Some big 3-4mm quartz (amygdules or porphyries) also exist in	31852	300.49	301.90	1.41	1-2%		6		
		the unit.	31853	301.90	303.35	1.45	1-2%		8		
312.74	316.65	Rhyolitic agglomerate	31854	303.35	304.76	1.41	1-2%		4		
			31855	304.76	306.14	1.38	1%		7		
		Rock is dark grey, matrix is rhyolitic with about 1% of 1mm	31856	306.14	307.51	1.37	1%		5		
		quartz porphyries. Fragments are felsic, lighter colored, they	31857	307.51	308.91	1.40	1%		6		
		form about 35% of the rock and they are up to 6 cm in size.	31858	308.91	310.28	1.37	1%		15		
		Py represent 1-2% of the rock.	31859	310.28	312.77	2.49	1%		14		
			31860	312.77	314.59	1.82	1-2%		9		
			31829	314.59	316.09	1.50	5%		695		
			31830	316.09	316.65	0.56	5-10%		1025		

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No 88- A-1

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: _____

Date: _____

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
316.65	321.33	Mineralized zone								
		Brecciated and quartz injected zone, with an average of 30-40%								
		pyrite. See each sample for description.								
		Py in 2-3mm patches, also as fine grained, disseminated.	31831	316.65	317.75	1.10	40%		1198	0.035
		Little patches and nodules of pyrite	31832	317.75	318.20	0.45	5-10%		1421	0.041
		Quartz veining form 65% of the sample, the quartz itself is not	31833	318.20	318.71	0.51	20%		4117	0.12
		mineralized but the boundaries of the vein and of the enclosed								
		fx are pyrite rich.								
		Rx is cherty. Pyrite mainly along bedding but also in matrix.	31834	318.71	319.22	0.51	20%		750	.022
		Py is fine grained and patchy (nodular) almost massive in places.	31835	319.22	320.22	1.0	75%		1267	0.037
		Fine, disseminated and patchy.	31836	320.22	320.77	0.55	25%		238	.007
		Quartz veining represent 25% of sample. (White and barren quartz)	31837	320.77	321.33	0.56	50%		1999	0.058
		Pyrite is fine with some nodules.								
321.33	325.30	Black argillite								
		Rx is soft, mainly made of graphite with nodular pyrite up to	31838	321.33	321.63	0.30	Gp		127	Ppb
		3 cm in size, (15%). Generally sub-centimetric bedding								
		Schistosity measurements: 33m= 48° 230 m= 26° 322 m= 30°								
		105m= 25° 289 m= 40°								
	325.30	End of hole								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : Valrennes A | Ligne : L-6+50W | Ord. : | Profondeur : 0 | 61 m | 122 m | Couronne

Claim : 371328-2 | Section : 1+75S | Ord. : | Plongée : -69° | -71° | -63° | AX: EX:

Canton : Valrennes | Lat. : | Long. : | Azimut : 030° | | | AQ: BQ

Rang : | Elévation Orifice: | Commencé le : Feb. 19, 1988

Lot : | Azimut: 030°N | Terminé le : Feb. 24, 1988

N.T.S. : | Niveau: Surface | Entrepreneur : Forages Diamex Ltée.

Feuille No 0 de

De à

Profondeur totale: 352.74

Journal: D.W. Christie

Date: Feb. 20, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au.	Vérif
		Inclination tests								
		Depth Test Type Reading								
		0 030°N/-70°								
		60.98m(200') Acid -71°								
		121.95m (400') Acid -63°								
		182.93m (600') Acid -61.5°								
		243.90m (800') Acid -52°								
		304.88m (1000') Acid -50°								
		352.74m (1157') Tropari -46°/ 46°								
		Summary log								
		After 15.90 m of overburden, a series of amygdular volcanics (mostly andesitic, trending rhyolitic down section) where intersected till 246.15 m with varying degrees of sericitization seen near the end of this series. From 246.15- 251.35 a sericitic-quartz schist (Tr- 2% py, 0.008 oz /t Au/1.51 m) was intersected. Then from 251.35- 294.21, a series of varying fragmentals (debris flows) with qtz eyes were intersected. Then till 303.02 a interbedded fine grained sediment series was intersected (2- 3% py). From 303.02- 318.58, a rhyolitic-tuff-qtz eyes (1- 3% pyrite), and 318.58- 321.63, a felsic cherty fragmental tuff (qtz-ferro dolomite veins) (2% pyrite).								

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MINES AGNICO EAGLE LTÉE

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No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 0 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 20, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au ~~ppb~~	Vérif.	
		321.63- 325.81 mineralized qtz vein and argillitic sediments									
		(3- 10% pyrite, 0.021 oz/t Au/4.18m- not true thickness)									
		A felsic fragmental tuff interbedded with graphitic fragmental									
		silicified tuff (2% py, 0.030 oz/t /0.86 m Au)- 5% pyrite overall									
		Then till the end of the hole at 352.74 a series of felsic dykes									
		intersecting graphitic tuff and argillite are intersected									
		(2% - 5% py- felsic dykes, 5- 10% nodular marcasite in graphitic									
		tuff; when marcasite nodules sampled alone 0.015 oz/t/8.5m Au)									
		The hole ends in graphitic tuff with marcasite nodules at									
		352.74 m.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Feuille No 1 de

Projet	: Valrennes A	Ligne	: L6+50W	Ord.	:	Profondeur	: 0	61m	122m
Claim	: 371328-2-3	Section	: 1+75S	Ord.	:	Plongée	: -69°	-71°	-63°
Canton	: Valrennes	Lat.	:	Long.	:	Azimut	: 030°		
Rang	:	Elévation Orifice:	030° N			Commencé le	: Feb. 19, 1988		
Lot	:	Azimut:	Surface			Terminé le	: Feb. 24, 1988		
N.T.S.	:	Niveau:				Entrepreneur	: Forages Diamex Ltée.		

Couronne
AX: EX:
AQ: BQ

De _____ à _____
Profondeur totale: 352.74

Journal: D.W. Christie
Date: Feb. 20, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.
0	15.90	Overburden (casing removed)								
15.90	174.49	Amygdular andesite								
		Grey- green colour; fine to medium grained; chlorite amygdules								
		throughout, « 5mm (Ave. 2mm) «5%, usually elongated parallel to								
		foliation.								
		10% qtz-carbonate veining, mostly randomly oriented, along fo-								
		liation, or cross-cutting foliation (1-5 cm wide), one vein set								
		(2- 3cm wide) shows a 70%- 80% to foliation throughout the unit.								
		(Qtz-carb-pinkish).								
		Smaller veins («1cm) often show ptygmatic folding. Some limonite								
		or $FeCO_3$ staining of quartz carbonate veins. First 15 m, a num-								
		ber of rusty coloured fractures, where ground water has circula-								
		ted. Tr to Nil pyrite and 1% hematite								
		32.53- 39.83								
		Silicified well foliated amygdular andesite	31737	36.59	38.21	1.62			5	
		Rose quartz-carbonate has been injected along foliation replacing								
		rock matrix. Minor tourmaline-veining-millimetric. Hematite								
		ovoids in Qtz-carb. veins («1cm wide running parallel to C.A.)								
		(i.e. 36.59- 38.26)								
		Sericitic alteration along foliation surfaces seen as yellow-								
		grey bands. Several silicified bleached zones (or bands) with a								
		grey pink colour exist. Increased sericite content down hole								
		(from 81.02 onward) as well as chlorite alteration and hematite								
		alteration content (i.e. 102.74)								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		81.55- 82.06, 82.65- 82.73									
		Qtz-carbonate ($CaCO_3$)- tourmaline- sericite- chlorite veins	31738	81.02	82.30	1.28			8		
		(white qtz)	31739	82.30	83.73	1.43			5		
		50.84- 56.75, 121.79- 124.09, 132.59- 136.17, 147.79- 168.17,									
		Amygdular porphyritic andesite; white subhedral-euhedral feldspar									
		cubes & laths («2mm) «15% with even distribution									
		After 99m, almost all veining is of the oriented type at 70°									
		intersection with foliation; minor $CaCO_3$ amygdulas up to 1 cm									
		«1%.									
		102.74- 104.03, 125.66- 127.73: qtz-carbonate-hematite millime-	31740	102.74	104.03	1.29			9		
		tric veining running parallel to and cross-cutting foliation,	31742	125.66	127.13	1.47			7		
		often showing ptygmatic folding (2-3% hematite)									
		170.82- 174.49: schistose qtz veined andesite (amygdula) and									
		sericite;convoluted schistosity, millimetric qtz-carb banding									
		with chloritic andesite/sericite and black chlorite bands.									
		Qtz veining 20% (171.37- 171.56, 172.60- 172.65- white bull qtz)	31741	171.37	172.79	1.42	Tr		25		
		1% pyrite; foliation moderately developed to well developed	31743	172.79	173.83	1.04	1%		7		
		20m 45° to C.A., 95 m 35° to C.A., 130 m 35° to C.A.									
		60m 40° to C.A., 108 m 40° to C.A., 150 m 40° to C.A.									
		75m 30° to C.A., 117 m 40° to C.A., 170 m 35° to C.A.									
		174m 45° to C.A.									
174.49	198.28	Intermediate- felsic (dacitic) volcanic-amygdular (tuff?)	31745	176.77	177.97	1.2	2%		8	Hem	
		Yellow to grey green, fine to medium grained									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Several sub-units with various alterations. Moderately hard.									
		Quarty veins (white) « 2cm, cross-cutting and parallel to									
		foliation « 2%; green chlorite amygdules often stretched out									
		parallel to foliation (5- 10%) « 2cm (ave 1cm); localized									
		quartz amygdules, rounded and « 2cm in diameter. Ptygmatically									
		folded qty- hematite-chlorite veinlets. «2% pyrite (varying)									
		tr. chalcopyrite. 1-2% fuschite flakes (lenticular with folia-									
		tion). Minor qtz-carb veins (yellow white, probably ferro-carbo-									
		nate- dolomite). Hematite +pyrite associated with Qtz and Qtz-									
		carb. veins.									
		174.49- 176.77: Sericitic dacitic (amygdular volcanic) schist									
		Millimetric banding of sericite and felsic (high in SO_2) rock									
		(Qtz-carb) a yellow colour- reacts to concentrated HCL									
		Minor crenulations in well foliated rock, qty amygdules 2%, py-									
		rite 1%, chlorite amygdules 5%									
		176.77- 177.97: Chloritized- sericitized (Int-mafic) volcanic									
		(schistose): green colour, fine to medium grained									
		Qtz- amygdules 2-3%, chlorite amygdules diffuse due to colour 5%									
		10% Qtz- $CaCO_3$- epidote- hematite- chlorite veinlets with some									
		Ferro-dolomite and often pyrite (i.e. 177.30m)									
		2% pyrite, tr. Cpy, rock reacts strongly to HCL concentrated									
		Foliation at 37° to C.A.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____

Lot : _____ Azimut: _____

N.T.S. : _____ Niveau: _____

Commencé le : _____

Terminé le : _____

Entrepreneur : _____

Couronne AX: EX: AQ:

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		177.97- 182.91: silicified- sericitic- amygdular dacitic									
		volcanic (tuff?) light green, grey yellow. 2- 6% chlorite									
		amygdules, 5% qty amygdules, «2% fuschite flakes, qty $CaCO_3$									
		(reacts to HCL conc)									
		Millimetric sericitic bands along foliation.									
		Minor qtz- $CaCO_3$ veining, increase in qtz amygdules down section.									
		Tr. pyrite, foliation at 40° to C.A. at 182.91									
		182.91- 198.28: hematized dacitic volcanic (tuff?)									
		pink grey green, carbonate matrix, fairly hard									
		5- 10% chlorite amygdules (« 2cm), qtz $CaCO_3$ amygdules 3% («2cm)									
		and hematite often with Qtz-$CaCO_3$ amygdules, 1% fuschite flakes									
		1% pyrite, minor cross-cutting qtz-$CaCO_3$ veins & hematite +									
		pyrite associated. Foliation 40° to C.A. (198.28) increasing									
		schistosity down section.									
198.28	207.95	Mafic-intermediate schistose volcanic (tuff?)									
		Grey green- fine to medium grained.									
		Millimetric to centimetric chlorite bands, Qtz $CaCO_3$ bands,									
		Qtz bands & sericite bands									
		Chlorite amygdules 5- 10%- diffuse boundaries due to shearing									
		Qtz & qtz-$CaCO_3$ amygdules with hematite + pyrite inclusion									
		(« 3cm, Ave. 1cm)									
		Well foliated at 43° (202 m) to C.A. - strong schistosity									
		(friable); sericite along foliation surfaces.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W Christie

Date: Feb. 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		Reacts strongly to conc. HCL but not 10% HCL- some $CaC0_3$ +									
		maybe dolomite									
		Gradual unit contacts									
		Qtz-dolomite veins often showing ptygmatic folding									
		(i.e. 205- 205.06, 205.28, 205.50- 205.62)									
		«1% pyrite									
207.95	213.17	Sericitized intermediate volcanic schist	31746	207.95	209.27	1.32	1%		6		
		Grey-yellow (brownish), fine grained	31747	209.27	210.56	1.29	2%		6		
		Strong sericite alteration	31748	210.56	212.0	1.44	1%		8		
		Centimetric banding of sericite and Qtz-carbonate (possibly	31749	212.0	213.17	1.17	1%		6		
		dolomite content)									
		Mottled textural appearance & crenulated foliation									
		Foliation at 50° to the C.A. (213.0 m)									
		A secondary cleavage is seen at 100° to foliation (not prevasive)									
		Fault gauge (210.52- 210.56) 3% pyrite (fine « 2mm) cubes									
		within the rock floor									
		Fuschite flakes 3% (« 5mm)									
		Some qty-carbonate fragments and Qtz-carbonate amygdules («1cm)									
		1- 2% pyrite									
213.17	224.57	Intermediate-mafic tuff (fragmental?)									
		Green grey colour									
		Millimetric to centimetric banding of quartz-carbonate (dolomite)									
		chlorite, and sericite bands									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au Ppb	Vérif.	
		Amygdules of chlorite present («1cm) 8%, amygdules of qtz-hema-									
		tite and qtz-carbonate- rounded « 2cm and 10%									
		Possibly these amygdules are fragments as they are large often									
		oval and appears sometimes as bands in the rock									
		moderate hardness									
		220.15- 22 .87: felsic sericitic volcanic: yellow grey in colour	31750	220.15	221.66	1.51	1%		6		
		fine grained; chertose (very hard bands with sericitic millime-	31901	221.66	222.87	1.21	2%		40		
		tric bands; 2% pyrite (euhedral grains), 2% fuschite (3mm)	31902	222.87	224.57	1.7	2%		6		
		Minor qtz-carbonate veining; quartz carbonate amygdules («1cm)									
		rounded 5%									
		223.43 Qtz-carb vein with a concentration of euhedral pyrite									
		grains									
		Foliation at 50° to C.A. (224.57) moderately developed									
224.57	246.15	Intermediate- felsic (rhyodacite) tuff	31903	224.57	225.83	1.26	2%		5		
		Yellow grey- fine grained	31904	225.83	227.23	1.4	2%		5		
		Chlorite amygdules (« 1cm long) 5%, & qtz and Qtz- carbonate	31905	227.23	228.84	1.61	1%		4		
		amygdules (perhaps some are fragments), rounded to angular and	31906	228.84	230.31	1.47	1%		6		
		often stretched out parallel to the foliation («2cm)	31907	230.31	231.74	1.43	Tr		7		
		5% and decreasing in concentration Northward (down section)	31908	241.19	242.83	1.64	Tr		7		
		Fuschite grains (flakes) « 1cm long and «3%	31909	244.60	246.15	1.55			5		
		Slight sericite alteration along fractures and foliation planes.									
		Roser green colour dominated the rock northward (down section)									
		and schistosity is strongest at the end of the unit.									

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MINES AGNICO EAGLE LTÉE

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No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Most of the unit displays its foliation due to lineation of									
		elongated amygdules.									
		Hematite concentration in last 6m of the unit									
		Minor randomly oriented cross-cutting qty & qty-carb veins									
		with hematite.									
		Foliation poor at most sections at 50° to the C.A., flattening									
		at end of unit due to a qty vein to 30° to the C.A.									
		Minor convoluted qtz-dolomite (Ferro) veins («0.5 cm wide)									
		usually showing ptygmatic folding.									
		244.20- 246.15: sheared nature with stronger chlorite- sericitic									
		alteration; tourmaline grains in some qty veins									
246.15	251.35	Sericitic- qtz schist.	31910	246.15	247.59	1.44	Tr		6		
		Yellow beige- fine grained.	31911	247.59	249	1.41	2%		91		
		Minor fuschite	31912	249	250.51	1.51	2%		260		
		1-2 % pyrite often as fine rounded detrital grains («2mm) and	31913	250.51	251.35	0.84	1%		7	Qtz	
		very fine; euhedral grains									
		Strong schistosity, very convoluted foliation									
		Centimetric qtz bands and a large area of qtz veining with dolo-									
		mite grains in the qtz vein at end of unit									
		249- 251.35: mixed with the sericite schist.									
251.35	262.51	Coarse fragmental- cherty (agglomerate- debris flow?)	31914	251.35	252.41	1.06	2%		7		
		light green grey	31915	252.41	254.96	2.55	1%		9		
		Coarse up to 5 cm long fragments and 10 cm wide (ave. 5 X 1 cm)	31916	254.96	255.36	0.4	2%		4		

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne AX: EX: AQ:

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.	
		Cherty clasts are the longer ones- aphanitic- up to 10 cm wide									
		Other clasts are of felsic volcanic make up	31917	255.36	256.84	1.48	3%		12		
		Some sericite along foliation or bedding surfaces	31918	256.84	258.23	1.39	1%		4		
		Fine pyrite often in larger anhedral masses (2- 3%- also	31919	258.23	259.69	1.46	1%		5		
		euhedral grains) («1/2cm)- finely disseminated	31920	259.69	261.28	1.59	2%		6		
		Qtz-dolomite veins (grey qtz) minor epidote and chlorite	31921	261.28	262.51	1.23	1%		6		
		in these veins (larger ones)									
		Bedding well developed at 45° to C.A. and clasts are very									
		stretched out along it. 90% clasts- in the matrix									
		minor fuschite; minor «2% qtz eyes in matrix (grey « 3mm)									
		The last /m shows a chloritic matrix									
262.51	294.21	Felsic tuff, (fragmental- rhyodacitic)	31922	262.51	263.96	1.45	1%		5		
		Light grey, fine- medium grained, highly silicic	31923	263.96	265.21	1.25	1%		4		
		25- 20% round grey qtz eyes from 2mm- 5mm (ave. 2mm)	31924	265.21	266.55	1.34	1%		4		
		White plagioclase phenocrysts or fragments («1cm) 3-5%	31925	266.55	267.92	1.37	1%		9		
		At first this unit resembles the one above (251.35- 262.51),	31926	267.92	269.41	1.49	1%		4	5% frag.	
		showing flattened felsic fragments, but then these fragments	31927	269.41	270.83	1.42	1%		4		
		become annealed together as we move north (down unit) and the	31928	270.83	272.23	1.4	Tr		5		
		intensity of silicification increases.	31929	272.23	273.66	1.43	Tr		4		
		Chloritic alteration localized (279.84- 280.16; 281.24- 281.63)	31930	273.66	275.08	1.42	«1%		4		
		as well as increased graphitic content (288.44- 289.26; 289.60-									
		290.64)									
		292.25- 292.40 & 292.79- 292.92 as we move closer to the									
		sediment package.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		There appears to a fining northward sequence- tops north									
		279.33 minor fault gauge running 20° to C.A. acute with the	31931	275.08	276.52	1.44	«1%		5		
		foliation	31932	276.52	278.0	1.48	1%		4		
		Pyrite fine granular euhedral grains up to 1 cm and in more an-	31933	278.0	279.40	1.4	Tr		4		
		hedral clamps 1%- 3% pyrite- disseminated	31934	271.40	280.88	1.48	«2%		6		
		294.21 foliation at 55° to C.A. and increases in intensity near	31935	280.88	282.32	1.44	1T		5		
		the end of the unit with sericite and sandstone chlorite millime-	31936	282.32	283.70	1.38	Tr		5	Plag 10%	
		tric seams making foliation planes.	31937	283.70	285.35	1.65	1%		5	cherty frag	
		Chloritic- graphitic sections show stronger pyrite content	31938	285.35	286.83	1.45	Tr		5	blocky	
		Minor quartz veins (grey + white) and qtz-carbonate veins with	31939	286.83	288.10	1.27	1%		4		
		and cross-cutting foliation- often associated with pyrite	31940	288.10	289.46	1.36	1%		112	Gp + frag	
		Minor crenulations in the foliation	31941	289.46	290.91	1.45	2%		14		
		Fragments are most undisturbed in the chloritic-graphitic sec-	31942	290.91	292.38	1.47	1%		5		
		tions	31943	292.38	294.21	1.83	1%		4		
		5- 15% fragments (2- 25mm) cherty & felsic volcanic, sub-rounded									
		to angular- qtz vein 288.15- 288.32, 288.44- 288.54									
		Qtz, 2% pyrite, graphite-sericitic stringers									
		minor pytgmatic folding of qtz veins.									
294.21	303.02	Interbedded argillite, arkosic sandstones, siltstones and grey-	31944	294.21	295.29	1.08	2%		5		
		wacke- yellow white to black in colour, fine to med. grained	31945	295.29	296.61	1.32	3%		5		
		Millimetric to decimetric bedding thickness, with many very thin	31946	296.61	298.12	1.51	2%		6		
		graphitic argillite beds	31947	298.12	299.58	1.46	2%		5		

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No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 10 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 27, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		Graywacke grey- clastic with a chloritic graphitic matrix									
		and clasts are chert,qty and felsic rock fragments (« 5cm long,	31948	299.58	300.91	1.33	2%		9		
		and 2 cm wide) Sub-angular to sub rounded 10- 20% fragments.	31949	300.91	302.40	1.49	1%		4		
		The chert + qtz is very dk blue grey	31950	302.40	303.02	0.62	2%		5		
		Siltstone- sandstone- yellow grey; minor fuschite content-									
		often cherty bands interrupt these beds.									
		Qtz veins cross cut bedding in these beds at 110° to the bedding									
		Bedding is at 50° to the C.A.									
		Qty clasts sometime exhibit pressure shadows.									
		Some grey qtz clasts show diss. pyrite content.									
		2- 3% pyrite disseminated finely- often bordering white qty veins									
		Graphitic argillite- finely laminates- often with qty + chert									
		clasts within it- stilolitic qtz fracture fill veins									
		Some sandstone has been sericitized, giving it a yellow colour									
		Some bands of pyrite (2 cm wide) (i.e. 296.10- 296.35) usually									
		in a qtz bed or clast.									
303.02	318.58	Rhyolitic tuff	33001	303.02	304.95	1.93	«1%		20		
		Yellow grey colour, fine to med. grained	33002	304.95	306.45	1.5	1%		160		
		Slight sericitization overprinted by a strong silicic nature	33003	306.45	307.91	1.46	Tr		65		
		grey and white qtz eyes 15% « 2mm	33004	307.91	309.36	1.45	1%		«5		
		White feldspar clasts, subhedral - anhedral	33005	309.36	310.76	1.4	1%		«5		
		Clasts up to 4 cm long + 2 cm wide aligned with foliation	33006	310.76	312.35	1.59	2%		60		

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 11 de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: Feb. 27, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au ppb	Vérif.	
		Clasts are feldspathic (pink & white) plagioclase and K-spars									
		as well as quarty & cherty clasts 5- 10% clasts; minor fuschite	33007	312.35	313.82	1.47	Tr		«5		
		present; clastic concentration bands (i.e. 312.73- 312.75)	33008	313.82	315.25	1.43	1%		15		
		Pyrite present in fine disseminated type and sometimes in fine	33009	315.25	316.71	1.46	2%		«5		
		granular bands of 70% pyrite (i.e. 312.88- 316.33- 316.39)	33010	316.71	318.58	1.87	3%		205		
		overall 1- 3%. Foliation is at 45° to C.A. poorly developed									
		and outlined by the elongation of clasts along the foliation	33011	318.58	320.05	1.47	2%		280		
		and slight sericite alteration on the foliation planes (seams	33012	320.05	321.63	1.58	2%		15		
		of millimetric sericite)									
		Pyrite is also found as clast shaped anhedral clumps perhaps									
		clast replacement or clasts from a pyritic rock.									
318.58	321.63	Felsic cherty fragmental tuff									
		Yellow grey green, fine to med. grained; cherty blue grey									
		fragments (clasts) are common (10%) up to 4 cm long and 2 cm									
		side, often slightly brecciated.									
		Sericitic alteration along bedding foliation planes in milli-									
		metric bands as well as minor chloritic alteration seams.									
		Grey white qty veins, sometimes with ferro-dolomite associated									
		with them as individual grains.									
		Fragments (clasts) 20%- chert, qty and felsic volcanic clasts.									
		Foliation well developed and slightly schistose at 68° to C.A.									
		disseminated and banded fine pyrite (grains « 2mm)									
		Often pyrite in bands around qty or chert clasts and qty veins									
		2% pyrite									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 12 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 27, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		Minor localized tectonic slicing of clasts and veins of qty and chert.									
321.63	325.81	Mineralized qtz vein and argillite sediments									
		White, grey and black, fine to coarse grained									
		White quartz vein discontinuous within distorted argillitic sediments									
		321.82- 321.92, 322.11- 322.20, 322.40- 322.53, 323.98- 324.0	33013	321.63	322.77	1.14	10%		642		
		Semi-massive to massive granular fine pyrite	33014	322.77	324.15	1.38	3-4%		816		
		often intermixed with graphitic sediments and quartz	33015	324.15	325.81	1.66	5%		678		
		Also hematite grains («2mm) are often intermixed with the pyrite									
		and hematite alteration in bands running through the pyritic									
		zones. The white quartz veining is continuously intermixed with									
		argillitic sediments and siltstones which have been broken up									
		due to the qtz veining.									
		Disseminated fine grained pyrite, especially along fractures									
		in the qty veins 3- 5%									
		Argillitic sediments have bands of pyrite grains 5- 10% and									
		finely disseminated.									
325.81	333.51	Felsic fragmental tuff interbedded with graphitic fragmental tuff									
		Grey yellow to black									
		Very strongly silicified									
		325.81- 328.15, 329.01- 329.67, 329.80- 333.51	33016	325.81	326.97	1.16	3%		34		

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No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 13 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 27, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au ppb	Vérif.	
		Felsic fragmental tuff- yellow grey									
		Strongly silicified, v. fn. grained to med. grained	33017	326.97	328.15	1.18	4%		77		
		Strongly clastic, although many fragment boundaries have been	33019	329.01	330.31	1.3	5%		7		
		diffused and annealed together giving a mottled appearance	33020	330.31	331.76	1.45	5%		15		
		30-40% clasts; clasts « 5mm »2 cm, some cherty clasts, qtz	33021	331.76	333.51	1.75	5%		7		
		clasts, felsic qtz eyed volcanic clasts, angular to sub-rounded.									
		Minor qtz- ferro dolomite veinlets («3cm wide); minor cross-									
		cutting grey qty veins (millimetric); some qty clasts are full									
		of disseminated pyrite; felsic volcanic clasts sometimes have									
		minor fuschite flakes. Many clasts are elongated along the									
		foliation planes at 50° to the C.A.									
		5% disseminated fine pyrite throughout as well as anhedral									
		masses (« 2cm)									
		328.15- 329.01, 329.67- 329.80	33018	328.15	329.01	0.86	2%		1036	0.03	
		Graphitic argillite sub-unit: hard- silicified									
		15% clasts (« 2cm) qty or rhyolitic fragments and other grey									
		and yellow siliceous rock fragments and felsic tuff fragments.									
		15 cm qtz veins in section 328.15- 329.01									
		Fn. diss. pyrite often in bands along bedding/foliation									
333.51	342.77	Interbedded graphitic argillite, greywacke and fragmental tuff	33022	333.51	334.45	0.94	2%		4		
		Grey to black, fine grained. Finely laminated argillite,	33023	333.45	335.73	2.28	10%		18		
		sometimes clastic but seems to be finning northward.	33024	335.73	337.20	1.47	1%		4		
		First 4.0 m is clastic with clasts up to 3 cm long and 1 cm	33025	337.20	338.62	1.42	1%		8		
		wide	33026	338.62	339.77	1.15	1%		4		

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No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 14 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 28, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		clasts are argillitic, felsic volcanic, qty, and qty carbonate									
		55% clasts up to 337 m, after which they decrease	33027	339.77	341.19	1.42	4%		11		
		$CaCO_3$ in matrix; fine disseminated euhedral pyrite in the matrix	33028	341.19	342.77	1.58	6%		28		
		(« 2mm) 2- 5%; many millimetric qty & qtz-carb. veinlets.									
		Pyrite often associated with qtz-carb veinlets parallel to bedding									
		Last 2 m has a quartz-$CaCO_3$ veinlet intersection parallel to bed-									
		ding. The last 2 m is intersected by qtz-carb veining interrup-									
		ting and splitting up bedding of the fine argillite.									
		Coarse pyrite fills some of the qtz veining (« 3cm wide)									
		Nodular pyrite but usually broken up									
		335.60- 335.74: a fracture with a dendritic S_2- S_3 fracture									
		pattern (fish net) fracture pattern on each side of the major									
		fracture at 8° to the C.A., foliation relatively undisturbed									
		foliation bedding is well laminated and									
		over printed at 55° to the C.A.									
		339.77- 342.77: v. fn. graphitic argillite with 5% pyrite &									
		intervening qtz veinlets.									
342.77	344.24	Felsic mineralized intrusive dyke (Albitite dyke)	33029	342.77	344.24	1.47	5%		58		
		White, medium grained; feldspar; qtz, dyke- epidote- chlorite									
		on fractures. 5% pyrite; fine granular and coarse amorphous									
		clumps. Graphitic wisps running through on fractures.									
		343.06- 343.36: soft graphitic pyritic unit- nodular pyrite									
		trace chalcopyrite									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-2

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 15 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: Feb. 28, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
344.24	345.43	Graphitic tuff with marcasite nodules									
		Black, v. fn grained; slight foliation trace at 41° to the C.A.									
		Most nodules are slightly round and show a radiating texture on									
		cross-section and a mass of euhedral cubic grains on surface of									
		the nodules, and easily removed from the graphitic tuff									
		5- 10% marcasite									
345.43	346.41	Felsic qtz-feldspar dyke	33030	345.43	346.41	0.98	2%		9		
		As in 342.77- 344.24: fn to med grained									
		2- 3% pyrite; euhedral feldspar (« 3mm) 5% trace $CaCO_3$, qtz-									
		interstitial; granular, brittle									
		Graphitic interbed: 343.70- 345.94									
346.41	352.74	Graphitic tuff & nodular marcasite	33031	344.24	352.74	8.5	100%		0.015	only marcasite nodules	
		black; radiating growth texture in marcasite round nodules,									
		often elongated along foliation which is very poor. 5- 10%									
		marcasite. Minor qtz- $CaCO_3$ veinlets- millimetric (representa-									
		tive sample of marcasite nodules only taken)									
	352.74	End of hole									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-3

Projet : Valrennes A | Ligne : L3+00E | Ord. : | Profondeur : 0 | 61 122 | 183 237 | Couronne
Claim : 371329-2 | Section : 2+25S | Ord. : | Plongée : -55° | -53° -49° | 45.5° 40.5° | AX: EX:
Canton : Valrennes | Lat. : | Long. : | Azimut : 030° | | | AQ:BQ
Rang : | Elévation Orifice: | Commencé le : March 3, 1988
Lot : | Azimut: 030° N | Terminé le : March 8, 1988
N.T.S. : | Niveau: Surface | Entrepreneur : Les Forages Diamex

Feuille No 0 de
De à
Profondeur totale: 242.99

Journal: D.W. Christie
Date: March 13, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.
		Inclination tests								
		Depth Test type Reading								
		0 030°N/-55°								
		60.98m (200') Acid -53°								
		121.95m (400') Acid -49°								
		182.93m (600') Acid -45.5°								
		242.99m (797') Tropari -40.5°								
		Summary log								
		After 21.38 m of overburden, a series of amygdular andesitic								
		volcanics and felsic-intermediate qtz eyed tuffs were intersec-								
		ted up till 163.95.								
		From 163.95- 231.0, a silicified felsic agglomerate (Tr- 3% py)								
		was intersected. A mineralized graphitic tuff- silicified								
		(black chert appearance & 5- 25% pyrite) was intersected from								
		231.0- 237.50.								
		After the mineralized target, a series of silicified quartz								
		feldspar porphyries intersecting graphitic tuff with marcasite								
		nodules (25% pyrite, Tr. graphitic tuff, 3% in QFP's)								
		The hole ends at 242.99 m in graphitic tuff with marcasite								
		nodules								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-3

Projet	: Valrennes A	Ligne	: L-3+00E	Ord.	:
Claim	: 371329-2-3	Section	: 2 + 25S	Ord.	:
Canton	: Valrennes	Lat.	:	Long.	:
Rang	:	Elévation Orifice:	Surface		
Lot	:	Azimut:	030°		
N.T.S.	:	Niveau:	Surface		

Profondeur	: 0	61	122	183	237
Plongée	: -55°	-53°	-49°	45.5°	40.5°
Azimut	:				

Commencé le : March 3, 1988

Terminé le : March 8, 1988

Entrepreneur : Les Forages Diamex Inc.

Couronne AX: EX: AQ: BQ

Feuille No 1 de

De à

Profondeur totale: 242.99

Journal: D.W. Christie

Date: March 13, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.	
0	21.38	Overburden (casing left in)hole making water									
21.38	114.92	Intermediate-mafic (dacite-andesite) amygdular volcanic	33199	51.30	52.02	0.72	Tr		«5		
		Green to lighter green grey, fine grained; silicic hard nature;	33200	94.95	95.73	0.78	1%		«5		
		chlorite amygdules 15% («1cm long and 2 mm wide)	33201	112.04	114.92	2.88	Tr		«5		
		Chlorite amygdules are stretched out parallel to foliation.									
		Quartz-carbonate amygdules are less consistent and appear in									
		local patchy areas 2% and are usually rounded and slightly									
		elongated («3cm, ave. « 1cm).									
		Sericitic alteration along foliation planes seen as sericite									
		seams, more severe around some qty veins (i.e. 122.55- 122.65)									
		2- 5% quarty- carbonate veining with a slightly rose colour to									
		the veins.									
		One consistant set of veining at 50° to C.A. (90% to foliation)									
		which are all 1- 2cm wide and undisturbed, showing a comb									
		crystal growth structure.									
		The rest of the veining is more disturbed, showing ptygmatic									
		folding in smaller veins and larger veins show chloritic/serici-									
		tic wisps running through them.									
		47.56- 47.75: visicular weathered out granular calcite-quarty									
		veins									
		51.30- 52.02: rusty spotted area- possibly $FeCO_3$ - ankerite									
		(also 53.96- 54.40)- the ankerite runs calcite-qtz veins and									
		is disseminated in the rock.									

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 13, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au ~~Ppb~~	Vérif.	
		Hematite- qtz- carbonate veins (« 1/2 cm wide) i.e. 67.66-									
		68.80- 70.0: very blocky core (centimetric fragments) also									
		rusty, limonite staining.									
		Minor spotty carbonate ($CaCO_3$) content in the rock matrix									
		Some qty veins show $CaCO_3$ alteration on fracture planes.									
		94.57: example of a xenolithe (or rip of clast) (4cm long)									
		very angular fragment									
		94.95- 95.73: silicified semi-cherty section of chlorite amygdu-									
		lar andesite with 1% pyrite and sericite lined fractures									
		Increased sericite down unit towards lower contact giving better									
		foliation outlines.									
		Bands of more sheared andesite-dacite with high sericite alte-									
		ration									
		101.12- 101.56: sericite schistose band									
		105.69: fault gauge- at 65° to the C.A. (1cm wide) with convo-									
		luted foliation on the up section side of it									
		Foliation is moderately to well developed									
		35m at 40° to C.A., 52 m at 50° to C.A., 60° at 70 m, 88 m at									
		60° to C.A., 58° at 106 m, 60° at 114 m.									
		112.04- 114.92: amygdular silicified dacite green grey.									
		Fine grained with green chlorite amygdules (5%) and with									
		larger (« 3cm) qtz-carbonate (white) amygdules- rounded 5% and									
		10% qty-carbonate pink-white veining, randomly oriented									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 13, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au ppb	Vérif.	
		Trace pyrite 2-5% grey qty eyes («3mm, ave. 2mm)									
		Overall Tr- pyrite									
114.92	123.39	Mafic quartz eyed tuff	33202	121.03	122.49	1.46	1%		«5		
		Dark grey green, fine to medium grained									
		5- 10% grey translucent qty eyes; 5% feldspar fragments, fairly									
		hard, 5% $CaCO_3$ in the matrix as well as 3% $CaCO_3$;									
		Quarty veinlets («1 cm wide) cross-cutting foliation; sericitic									
		seams (millimetric) along foliation planes and fracture planes.									
		Mafic matrix for the most part (Py, Amph, chlorite & biotite)									
		1%- Tr pyrite seen along fracture surfaces and disseminated									
		as euhedral cubes (« 2mm)									
		Foliation poor to moderately developed at 48° to the C.A.									
123.39	124.57	Amygdular andesite volcanic									
		Medium green, fine grained; quarty, feldspar, chlorite and									
		quarty carbonate amygdules; 15% amygdules									
		Poor foliation until the end of the unit when it is at 60°									
		to the C.A.									
		No pyrite visible									
124.57	141.14	Felsic- intermediate quarty eyed tuff; light green yellow to									
		pink to grey green. Fine grained. Quarty eyes (1- 5mm)									
		15- 20% - grey translucent; some cherty clasts (5mm- 5cm long)									
		often elongated to the foliation plans 2-3% clasts									
		Very hard- silicified									
		124.57- 127.96: intermediate to mafic quarty eyed tuff									

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MINES AGNICO EAGLE LTÉE

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No 88-A-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 14, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Grey green, silicified, 3% clasts of chert (5mm- 5 cm long)									
		15% qty eyes; gradual change to more felsic tuff; sericite seams									
		along foliation planes; minor cross-cutting shallow dipping									
		qtz-carbonate veins («5mm wide). Foliation at 45° to the C.A.									
		at 127 .									
		127.96- 129.40: K-spar (hematite) rich qty eyed; felsic tuff;									
		pink; fine grained, slight $CaC0_3$ content in matrix.									
		2% qty eyes (grey) 1mm- 3mm; gradual change in colour, trace									
		pyrite; foliation at 55° to the C.A..									
		129.40- 134.37, 135.15- 135.88, 136.36- 138.49: felsic(rhyolitic)									
		qty eyed tuff; grey yellow; fine grained; $CaC0_3$ in matrix;									
		sericite seams on foliation planes; hard rock, 15% qty eyes									
		(grey) (2mm); cherty bands between millimetric sericite seams;									
		minor quartz-$CaC0_3$ veins									
		134.37- 135.15, 135.88- 136.36, 138.44- 141.14: carbonated									
		chloritic mafic- int- qty eyed tuff; green to grey green; 15%									
		grey (2mm) qty eyes; slight localized hematite alteration; mi-									
		nor $CaC0_3$ veinlets; feldspar porphyries («3mm)(K-spar) 5%,									
		no visible pyrite									
		At 141 m, foliation is at 55° to the C.A.									
141.14	147.26	Mafic amygdular- porphyritic volcanic; dark green, fine grained									
		(«2mm); chlorite amygdules 10%, qtz-carbonate amygdules, 5%									
		(«1cm- Ave. 3mm); feldspar phenocrysts («2mm, ave. 1mm) 20%									
		and 2% biotite phenocrysts («1mm); 5- 10% quarty-carbonate									

MINES AGNICO EAGLE LTÉE

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No 88-A-3

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Journal: D.W. Christie

Date: March 14, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		veinlets (« 1cm); homogeneous; trace pyrite; foliation poor at									
		55° to the C.A.									
147.26	163.95	Intermediate to mafic quartz eyed clastic tuff. Yellow grey									
		green to dark grey green, fine to medium grained; the unit									
		grades back and forth between intermediate bordering felsic									
		to mafic bordering intermediate.									
		Quartz eyes are prevalent throughout the unit 15-20% and up									
		to 5mm (ave. 2mm) and they are rounded. There is 5% clasts									
		present, they are felsic siliceous clasts, mostly sometimes									
		with qty eyes and sometimes with strong sericitic alteration									
		(« 2cm)									
		154.37- 157.51: 10% clasts and more felsic composition in the									
		matrix and more sericite along foliation planes than the rest									
		of the unit. Most of clasts are elongated parallel to foliation									
		Foliation is at 50° to the C.A., at 157 m.									
		Minor $CaCO_3$ content in matrix, and 2% centimetric (« 1cm)									
		Qtz- $CaCO_3$ veining in unit cross-cutting foliation									
		Minor amount of mafic chloritic clasts in the more mafic									
		parts of the tuff, and the quantity of qty eyes decreases									
		slightly near the end of the unit. Fairly hard; foliation at									
		163 m at 55° to the C.A. Trace pyrite									
163.95	231.0	Silicified felsic agglomerate	33203	163.95	164.31	0.36	2%		«5		
		Yellow grey, fine to medium grained; several differentiated	33204	164.31	165.28	0.97	1%		«5		
		sub- units.	33205	165.28	166.76	1.48	1%		«5		

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MINES AGNICO EAGLE LTÉE

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No 88-A-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 14, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		163.95- 172.67: felsic agglomerate, grey, yellow-yellow grey,									
		80% clasts, mostly felsic, but some mafic. Many felsic volcanic	33206	166.77	169.75	2.98	1%		«5		
		clasts or intrusive clasts are porphyritic with qty (angular)	33207	169.75	171.19	1.44	1%		«5		
		and sometimes feldspar (plagioclase), also clasts often have	33208	171.19	172.67	1.48	2%		«5		
		qty eyes (round). These qty porphyries in clasts are as large	33209	172.67	174.11	1.44	1%		«5		
		as 1cm (ave. 3mm)	33210	174.11	175.61	1.50	Tr		«5		
		In the matrix, there is qty volcanic shards- very angular frag-	33211	175.61	177.07	1.46	Tr		«5		
		ments. 5- 10% of total clasts as well as feldspar shards.	33212	177.07	178.59	1.52	2%		«5		
		Qty (round) eyes also are present at 5- 10%.	33213	178.59	179.98	1.39	1%		«5		
		Clasts are usually elongated and range from 3mm to 20 cm in	33214	179.98	181.45	1.47	Tr		«5		
		size, rounded to angular clasts.	33215	181.45	182.82	1.37	Tr		«5		
		2% pyrite disseminated in clasts and as pyritic qty clasts	33216	182.82	184.34	1.52	Tr		«5		
		(« 5cm) and minor amounts in the matrix.	33217	184.34	185.74	1.40	1%		«5		
		The clasts are clast supported most of the time, but when there	33218	185.74	187.33	1.59	Tr		«5		
		is a matrix present it is chloritic-sericitic-silicic (silici-	33219	187.33	188.71	1.38	Tr		«5		
		fied).	33220	188.71	190.07	1.36	1%		«5		
		Many felsic volcanic clasts have been sericitized and there	33221	190.07	191.42	1.35	1%		«5		
		are sericitic seams along foliation. Foliation at 167 m is	33222	191.42	192.76	1.34	Tr		«5		
		at 60° to the C.A.	33223	192.76	194.31	1.55	Tr		«5		
		172.67- 192.76: rhyolitic qty eyed agglomerate; light grey	33224	194.31	195.80	1.49	-		«5		
		yellow; 30% grey cherty quarty clasts & 5% rhyolitic volcanic	33225	195.80	197.25	1.45	-		«5		
		clasts; clasts range in size from 1mm- 25 cm; some are por-	33226	197.25	198.70	1.45	-		«5		
		phyritic with feldspar («5mm) laths, while others have fuschi-	33227	198.70	200.13	1.43	-		«5		

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MINES AGNICO EAGLE LTÉE

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No 88-A-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: March 14, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	À	Long.	% Py est.	% po. est.	Au ~~Ppb~~	Vérif.
		te flakes in them, and some have both.								
		And some grey cherty quarty clasts have fine disseminated py-	33228	200.13	201.57	1.44	-		«5	
		rite in them - matrix supported.	33229	201.57	203.16	1.59	Tr		«5	
		1% pyrite; quarty eyes (rounded + sub-rounded) 5% (« 4 mm)	33230	203.16	204.52	1.36	1%		«5	
		Quarty shards (angular) 5- 10%	33231	204.52	205.84	1.32	Tr		«5	
		Sericitic seams (millimetric) surrounds clasts and fine folia-	33232	205.84	207.24	1.4	Tr		«5	
		tion plans. Rhyolitic matrix with minor quarty and quartz-	33233	207.24	209.17	1.93	1%		40	
		carbonate veining.	33234	209.17	210.64	1.47	1%		«5	
		Qtz-$CaCO_3$ epidote vein at 173.43- 173.47	33235	210.64	211.56	0.92	1%		«5	
		192.76- 231.0: clast supported felsic agglomerate; grey to dark	33236	211.56	212.96	1.4	1%		«5	
		grey. 85- 90% clasts, nearly always clast supported. Clasts	33237	212.96	214.47	1.51	2%		«5	1% Hem
		range in size from 1mm- 30 cm. Mostly felsic grey yellow clasts	33238	214.47	215.90	1.43	2%		«5	1% Hem
		(rhyolitic) but others are present. Quarty-biotite porphyry,	33239	215.90	217.24	1.34	3%		«5	
		quarty feldspar porphyry, graphitic bedded argillite, quarty-	33240	217.24	218.67	1.43	1%		«5	Tr Hem
		coarse pyrite clasts (nodular) and quarty clasts.	33241	218.67	220.30	1.63	1%		«5	
		The clasts are finning northwards	33242	220.30	221.73	1.43	2%		«5	
		Poorly sorted except near the north contact of the unit. Some	33243	221.73	223.22	1.49	2%		«5	
		felsic rhyolite clasts have fuschite flakes in them. Pyrite is	33244	223.22	224.58	1.36	1%		«5	
		seen rimming the larger clasts with hematite (very fine grained	33245	224.58	226.02	1.44	1%		«5	
		pyrite) (i.e. 215.77, 218.48).	33246	226.02	227.57	1.55	2%		«5	
		1-5% pyrite; graphite is getting more concentrated in the	33247	227.57	228.96	1.39	1%		«5	
		matrix between the small clasts as the unit moves northwards.	33248	228.96	230.0	1.04	1%		«5	
		Foliation has elongated most smaller (« 5cm) clasts parallel to	33249	230	231.0	1.0	1%		«5	
		the foliation.								

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No 88-A-3

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne AX: EX: AQ:

Journal: D.W. Christie

Date: March 14, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		3% qtz eyes but seen only locally, not prevalent (i.e. 226.50)									
231.0	237.50	mineralized graphitic tuff; grey to black; fine grained;	33250	231.0	232.29	1.29	10%		55		
		millimetric banding of silicified graphite and quartz with	33251	232.29	233.70	1.41	5%		45		
		pyrite grains, some fine, some nodular coarse pyrite.	33252	233.70	234.56	0.86	25%		395		
		231.00- 233.70: 10- 15% pyrite disseminated in qty bands or qtz	33253	234.56	235.62	1.06	Tr		15		
		rich bands between the graphite bands (fine + coarse pyrite)	33254	235.62	237.50	1.88	15%		370		
		Minor qty-carbonate veining (« 1cm)									
		233.70- 233.94, 234.10- 234.56, 235.52- 235.62: semi massive									
		pyrite in qty veins (white qtz) with nodular coarse pyrite,									
		remnant radial growth									
		234.56- 234.89: the rest of the qty vein (white)- no pyrite									
		234.89- 235.52: black cherty qtz- with conchoidal fracture in									
		the chert; graphite contaminated qtz; tr. pyrite									
		235.62- 237.50: soft graphitic tuff with marcasite (pyrite)									
		nodules (« 5cm in diameter) 15%									
		231 m foliation at 42° to the C.A.									
		233 m foliation at 40° to the C.A.									
237.50	240.51	Quarty feldspar porphyry- silicified; white grey; fine to med.	33255	237.50	239.03	1.53	3%		10		
		grained; 35% plagioclase laths (« 1cm, Ave. 5mm); succrossic	33256	239.03	240.51	1.48	3%		10		
		textural appearance; 3- 5% fine disseminated pyrite (euhedral									
		cubes). Sericitic alteration of feldspars (sericitic halos);									
		silicification of the unit has caused the feldspar grain boun-									
		daries to appear foggy									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 14, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
240.51	240.96	Mineralized graphitic tuff; black; quarty vein with semi massive									
		pyrite- coarse and nodular pyrite (marcasite) in the graphite	33257	240.51	240.96	0.45	25%		745		
		25% pyrite									
240.96	242	Silicified quarty feldspar porphyry; white grey; as in unit	33258	240.96	242	1.04	3%		10		
		237.50- 240.51; except a minor amount of pink carbonate in a									
		veinlet in this unit.									
242	242.99	Graphitic tuff with marcasite nodules; black, fine grained;									
		silicified slightly, 10% marcasite nodules with minor quarty									
		veins and qty carbonate veins	33259	242	242.99	0.99	10%		60		
	242.99	End of hole									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Feuille No 0 de

De à

Profondeur totale: 215.55

Journal: D.W. Christie

Date: March 03, 1988

Projet : Valrennes A
Claim :
Canton : (371327-2) ~~Valrennes~~
Rang :
Lot :
N.T.S. :

Ligne : L-1200W
Section :
Lat. : 1+75S
Elévation Orifice: 030° N
Azimut: Surface
Niveau:

Ord. :
Ord. :
Long. :

Profondeur : 0 | 61 | 122 | 183
Plongée : -56° | -51° | -46° | -34°
Azimut : 030°
Commencé le : February 29, 1988
Terminé le : March 04, 1988
Entrepreneur : Forages Diamex Ltée.

Couronne
AX: EX:
AQ: BQ

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		INCLINATION TESTS								
		Depth Test type Readings								
		0 030°N/-55°								
		60.98m (200') Acid - 51°								
		121.95m (400') Acid - 46°								
		182.93m (600') Acid - 34°								
		215.55m (707') Tropari								
		SUMMARY LOG								
		After 24.39m of overburden, series of amygdular dacitic-andesitic (partly carbonated) volcanics till 56.55 m.								
		56.55- 66.10: a carbonated sericitic clastic metasediment was intersected. Then till 130.05m, a qtz eyed sericitic felsic-intermediate tuff was intersected followed by a fragmental tuff (1% py) till 133.84 m. A mineralized interbedded sediments and volcanic tuff unit (with black cherty seds) was intersected (2- 30% py, « 60 ppb Au).								
		After the target mineralized zone a series of graphitic tuffs with nodular marcasite (10- 30% py) and silicified quartz-feldspar porphyries (2-3% pyrite). The unit ends in graphitic tuff with nodular marcasite at 215.55 m.								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Feuille No 1 de

Projet	: Valrennes A	Ligne	: L-1200W	Ord.	:	Profondeur	: 0	61	122	183	Couronne
Claim	: (371328-1)	Section	:	Ord.	:	Plongée	: -56°	-51	-46	-34	AX: EX:
Canton	: (371327-2)	Lat.	: 1+75S	Long.	:	Azimut	: N 30°				AQ: BQ
Rang	: Valrennes	Elévation Orifice:	Surface			Commencé le	: February 29, 1988				
Lot	:	Azimut:				Terminé le	: March 04, 1988				
N.T.S.	:	Niveau:	Surface			Entrepreneur	: Forages Diamex Ltd.				

De ____ à ____

Profondeur totale: 215.55

Journal: D.W. Christie

Date: March 03, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
0	24.39	Overburden (casing removed)									
24.39	38.59	Andesite- amygdular									
		Grey green, fine grained with 2-4 mm chloritic amygdules									
		aligned with the foliation and elongated in this direction									
		- blocky in the first 6 m with Fe-CO_3 zones (react to 10% HCL									
		and are rusty-limonite $CaCO_3$)									
		$CaCO_3$- quarty veins (« 2cm wide), often irregular shaped and									
		cross cut foliation at low angles 80- 90° to C.A.									
		Some $CaCO_3$ in the matrix as well as the $FeCO_3$ at joint surfaces									
		where ground water has circulated.									
		Increase in sericite alteration begins at 33m and increases									
		towards a qtz- $CaCO_3$ veining zone which starts at 35.19									
		The sericite is very wispy and some sericite cleavage cuts									
		across foliation.									
		Foliation is moderately developed at 45° to the C.A.									
		Quarty-carbonate ($CaCO_3$) veining -75° 35.19- 38.59 with inter-	33080	35.19	36.86	1.67			10		
		veining sericite-chlorite and probably other micas in foliation	33081	36.86	38.59	1.73			«5		
		convoluted wisps and bands- qty is white									
		No visible sulphides anywhere in the unit									
38.59	56.55	Carbonated-sericitic amygdular int- mafic (dacite-andesite)									
		grey yellow green, fine grained.									
		$CaCO_3$- quartz amygdules (react weakly to 10% HCL, but strongly									
		to 100% HCL) 30% round + irregular shaped («1mm- 5mm)									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 06, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Rock is fairly hard; cherty appearance to the rock in places;									
		minor quartz and quarty-carbonate veins often with associated									
		pyrite (v. fine) and often boudinaged veins.									
		Sericite alteration along foliation and fracture sets;									
		Some qtz-$CaC0_3$ veins cause brecciation (i.e. 52.12). Minor									
		chlorite amygdules found in the rock, most visible in the									
		more felsic cherty areas (i.e. 51.0); fractures or jointing,									
		shown $FeC0_3$ or limonite staining (i.e. 43.57- 43.64) 43.93-	33082	43.47	45.33	1.86	Tr		«5		
		44.06, 45.37- 45.45, 55.73- 55.79									
		41.83- 41.99: quarty-carbonate vein (white) with some minor									
		$FeC0_3$, sericite- chlorite stringers running through it; other-									
		wise veining is v. small (« 5mm) and cross cuts foliation at									
		acute angles.									
		$CaC0_3$ fracture + foliation surfaces									
		Pyrite seen at 52.12 in the $CaC0_3$ breccia vein	33083	51.76	53.23	1.47	«1%		«5		
		Overall Tr. pyrite; some qty amygdules are elongated parallel									
		to foliation later in the unit.									
		Foliation is at 50° to the C.A. at 56 m.									
56.55	66.10	Carbonated-sericitic clastic meta-sediments									
		Pink grey; fine grained; well laminated bedding; 5- 10% clasts									
		rounded and elongated oval clasts of quarty-carbonate ($FeC0_3$)									
		(2mm- 3cm) feldspars with sericitic alteration - fragments of									
		grey quartz- angular fragments. Matrix supported.									

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No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: 03-06-88

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Moderately soft- very strong sericite content									
		64.47- 64.56: convoluted bedding due to late qty vein									
		$CaCO_3$ content in matrix make up (reacts strongly to 100% HCL and									
		moderately to 10% HCL)									
		Minor qtz veins (white-grey) with $CaCO_3$ alteration along folia-									
		tion fractures of these veins.									
		Tr- no pyrite									
		At 66m, bedding at 55° to the C.A.									
66.10	130.05	Qtz eyed sericitic felsic-intermediate tuff; yellow grey;									
		fine grained; qty eyes («3mm) 5- 20% irregular shaped and often									
		have associated coarse pyrite, as well as plagioclase fragments									
		(? eyes?)									
		Pyrite «1% occurs as bands or associated with qty eyes (i.e. 74.70)									
		sericite alteration along foliation planes and of plagioclase									
		tuffaceous fragments and chloritic alteration to a lesser extent									
		Clasts of felsic volcanics and qty-cherty material attain a size									
		of 2- 3cm, but are usually less than 1cm and are elongated +									
		stretched parallel to foliation.									
		Foliation is well developed 75m at 40° to the C.A.									
		87 m at 40° to the C.A.									
		103 m at 40° to the C.A.									
		120 m at 40° to the C.A.									
		130 m at 35° to the C.A.									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W Christie

Date: March 6, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		66.12- 67.57, 68.05- 68.10, 68.96- 69.02, 92.57- 92.68,	33084	66.12	67.57	1.45			«5		
		Quarty carbonate feldspar-sericite-chlorite veining; white									
		grey qtz with euhedral feldspar laths and ferrodolomite	33085	68.92	70.67	1.75	1-2%		«5		
		grains and wispy chlorite-sericite; no visible sulphide; inter-									
		vening intervals of sericitic-chloritic rock; has caused some									
		crenulation in surrounding rocks foliation.									
		Around 69.25 the foliation is severely disturbed + brecciated									
		71.50- 74.15: very blocky broken up core.									
		74.15- 75.13: very clastic appearance although could be boudi-	33086	74.15	75.13	0.98	1-2%		«5		
		naged and tectonically sliced bands; very silicic 1-2% pyrite.									
		96.90- 121.03: unlike 66.10- 96.90 and 121.03- 130.05, we have									
		lost the high sericite content giving the rock a yellow colour-									
		ation with millimetric bands of sericite along foliation & frac-									
		tures, but here the rock is greyer with a lot less sericite and									
		the quarty eye content has remained at 20% as it was for 66.10-									
		96.90.									
		92.57- 92.68: white barren qtz vein with some carbonate ($CaCO_3$)									
		92.57- 95.03: graphitic content in bands of black and grey rock									
		still very hard									
		95.03- 98.20: black graphitic felsic tuff (except for 97.30-	33087	95.15	96.55	1.4	Tr		«5	gp	
		97.66- felsic tuff)	33088	104.50	106.20	1.7	2%		«5	fn + coarse	
		The same rock with a graphitic concentration in its matrix,	33089	116.53	117.98	1.45	1%		«5		
		still has 20% grey qty eyes and felsic volcanic clasts (« 2cm,	33090	117.98	119.37	1.39	Tr		«5		
		ave. 5mm)									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 06, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		2- 3% + cherty clasts									
		104.50: loose majority of qtz eyes; the rest of the unit has	33091	119.37	120.86	1.49	«1%		«5		
		2- 5% qty eyes of all shapes and sizes and grey in colour.	33092	120.86	122.20	1.34	1%		«5		
		104.50- 117.19 banded graphitic-felsic tuff and slightly seri-	33093	122.20	123.66	1.46	2%		«5		
		citic felsic tuff. 111.50 crenulated foliation (fold axes	33094	123.66	125	1.34	1%		«5		
		at 50° to the C.A.)	33095	125	126.46	1.46	2%		«5		
		116.89- 116.97: quartz vein- qtz carbonate.									
		117.19- 130.05: sericitic rhyolitic (felsic) tuff py frag.	33096	126.46	127.80	1.34	Tr		«5		
		1% fuschite; 5% grey qtz eyes;	33097	127.80	129.37	1.57	1%		«5		
		2% pyrite as clastic fragments; well foliated;	33098	129.37	130.05	0.68	«1%		«5		
		cross cutting acutely qtz-carbonate (grey) veins									
		sometimes with pyrite content at 70° to the C.A. (« 1cm) 3- 4 %;									
		2- 3% cherty, felsic volcanic clasts elongated parallel to fo-									
		liation.									
130.05	133.84	Fragmental (agglomerate) tuff	33099	130.05	131.43	1.38	«1%		«5		
		Grey and green- depending on presence of chlorite alteration	33100	131.43	132.87	1.44	«1%		«5		
		Fine to medium grained; 25% clasts (« 2cm, ave. 1cm) one 6 cm	33101	132.87	133.84	0.97	«1%		«5		
		clast at 133.16 of a cherty material.									
		Mosts clasts are qty or felsic volcanics or grey chert.									
		132.89- 133.84: chlorite alteration begins on the down sections									
		of a thin grey qty vein. The rock turns a deep green colour;									
		clasts are rounded to angular (euhedral plagioclase laths);									
		some clasts show elongation in the direction parallel to folia-									
		tion (or bedding)									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 06, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.	
									Ppb		
		Fairly hard rock; qty $CaCO_3$ veins at 60° to the C.A.									
		Foliation/bedding at 30° to the C.A.; 1% pyrite- often as pyrite									
		fragments (« 1cm)									
133.84	140.23	Mineralized interbedded sediments and volcanic tuffs; dark grey	33102	133.84	135.54	1.7	1%		«5		
		to green brown; interbedded graphitic argillite fine silty	33103	135.54	136.70	1.16	«1%		«5		
		sediments, fragmental tuffs (as above) intermediate tuffs and	33104	136.70	137.09	0.39	30%		10		
		qtz veining. Good foliation parallel to bedding and some compo-	33105	137.09	138.57	1.48	2%		«5		
		sitional layering; minor crenulations in the foliation; pyrite:	33106	138.57	139.17	0.6	4%		10		
		2- 30%; $CaCO_3$ rich matrix in most places but not every where	33107	139.17	139.70	0.53	20%		20		
		136.70- 137.09: black cherty sediments with thin interwening	33108	139.70	140.23	0.53	5%		60		
		qty veins. Coarse anhedral pyrite with fine boundaries; semi-									
		massive 30% pyrite.									
		138.30- 138.35: qtz carbonate vein with 60% coarse anhedral									
		pyrite.									
		138.57- 139.53: felsic fragmental tuff with graphitic content									
		and 5% fine pyrite in thin bands and disseminated along foliation									
		planes as well as euhedral grains («5mm). Foliation at 40° to									
		the C.A.									
		139.53- 139.70: banded fine pyrite in cherty qty(foliation									
		than qtz vein as the pyrite is foliated within the vein)									
		Semi-massive 30- 40% pyrite in a qtz-carbonate vein									
		139.70- 140.23: graphitic argillite (tuff) with qty- carbonate									
		bands with fine and coarse euhedral pyrite in these bands									
		5- 10% pyrite									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 06, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py		Au Ppb		
		Foliation at 50° to the C.A.									
140.23	215.55	Graphitic tuff (argillite) with marcasite nodules intersected by	33109	140.23	141.28	1.05	30%		160		
		Quarty porphyry slightly sericitized dykes	33110	145.38	146.05	0.67	2%		«5		
		- first 6m very blockycore (140.23- 145.38)	33111	146.05	147.50	1.45	25%		35		
		Nodules of marcasite showing radial cubic growth patterns	33112	147.50	147.72	0.22	3%		«5		
		Nodules are usually rounded and up to 6 cm in diameter and as	33113	147.72	148.60	0.88	3%		«5		
		small as 1 mm	33114	148.60	149.70	1.1	3%		«5		
		Smaller marcasite nodules are probably fragmentation of larger	33115	149.70	150.85	1.15	3%		«5		
		nodules 10- 30% marcasite	33116	150.85	152.84	1.99	20%		90		
		Small veinlets of quartz as qtz-carbonate (millimetric)	33117	152.84	155.62	2.78	25%		65		
		Overall silicified (graphitic tuff) nature-moderately hard.	33118	155.62	158.49	2.87	15%		85		
		Often a fine disseminated pyrite on fracture and remnant	33119	158.49	160.55	2.06	15%		65		
		foliation/ bedding planes	33120	160.55	162.30	1.75	3%		«5		
		Poor foliation/ bedding at 62° to C.A. at 155 m	33121	162.30	164.23	1.93	20%		65		
		45° to C.A. at 188 m	33122	164.23	167.12	2.89	25%		90		
		130° to C.A. at 215 m	33123	169.82	171.40	1.58	15%		35		
		But often the foliation/bedding is totally absent	33124	171.40	172.28	0.88	1%		«5	v. blocky	
		Sometimes when present the pyrite nodules have been elongated	33125	172.28	174.13	1.85	15%		65		
		parallel to the foliation.	33126	174.13	177.18	3.05	15%		65		
		Sometimes almost pure graphite, very shiny metallic lustre and	33127	177.18	178.65	1.47	2%		«5		
		soft. Core missing 167.12- 169.82 and 30 cm in first part of	33128	178.65	179.48	0.83	2%		«5		
		graphitic zone.	33129	179.48	180.94	1.46	2%		«5		
			33130	180.94	181.28	0.34	10%		35		

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-4

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 07, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		145.38- 146.05, 147.50- 150.85, 160.55- 162.30, 171.40- 172.28,									
		177.18- 180.94, 181.28- 183.43, 196.24- 198.31, 198.56- 203.32	33131	181.28	182.01	0.73	1-2%		«5		
		Quarty feldspar porphyry dykes	33132	182.01	183.43	1.42	1%		«5		
		Light beige- grey, med. to coarse grained, contacts with	33133	183.43	185.80	2.37	5%		25		
		graphitic tuff are uneven	33134	185.80	188.65	2.85	2%		25		
		Plagioclase phenocrysts « 5mm with foggy	33135	188.65	191.54	2.89	30%		90		
		boundaries due to slight sericitization and an overall silicifi-	33136	191.54	194.50	2.96	30%		75		
		cation.	33137	194.50	196.24	1.74	25%		85		
		35-40% plagioclase porphyries	33138	196.24	197.19	0.95	3%		«5	qtz	
		2- 3% sericitic alteration of feldspar	33139	197.19	198.31	1.12	3%		«5		
		Very hard- high qty content	33140	198.31	198.56	0.25	10%		15		
		Broken surface shows a succrosic textural appearance	33141	198.56	200.3	1.74	4%		«5		
		Little in the way of mafic minerals, minor biotite.	33142	200.3	201.94	1.64	4%		«5		
		Pyrite very fine disseminated evenly throughout as euhedral	33143	201.94	203.32	1.38	4%		«5		
		grains (4mm) 2- 3%	33144	203.32	204.44	1.12	25%		45		
		No foliation or other structural trends.									
	215.55	End of hole									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Feuille No 0 de

De à

Profondeur totale: 188.10

Journal: D.W. Christie

Date: March 08, 1988

Projet	: Valrennes A	Ligne	: L-10+00W	Ord.	:	Profondeur	: 0	61 122	188
Claim	: 371328-2	Section	: 1+88S	Ord.	:	Plongée	: -55°	-49° -36.5	-34°
Canton	: Valrennes	Lat.	:	Long.	:	Azimut	: 030°	- -	023.8°
Rang	:	Elévation Orifice:				Commencé le	: March 04, 1988		
Lot	:	Azimut:	030° N			Terminé le	: March 06, 1988		
N.T.S.	:	Niveau:	Surface			Entrepreneur	: Forages Diamex Ltée.		

Couronne AX: EX: AQ: BQ

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		Inclination tests								
		Depth Test type Reading								
		0 030°/-55°								
		60.98 m (200') Acid -49°								
		121.95 m (400') Acid -36.5°								
		182.93 m (600') Acid 34°								
		188.10 m (617') Tropari 23.8° (azimuth)								
		SUMMARY LOG								
		After 26.63 m of overburden, intersected was a carbonated an-								
		desitic tuff till 43.46. From 43.46- 53.69 a fine grained								
		sericitized sediment unit was intersected (with minor locali-								
		zed fuschite content). Then up to 92.33, a series of varying								
		felsic tuffs were intersected, agglomeratic, dolomitic,								
		sericitic fragmental and quartz eyed. Then from 92.33- 101.05								
		a mafic porphyritic volcanic basalt- amygdular was intersected.								
		Then from 101.05- 133.90, a felsic graphitic agglomeratic								
		tuff interbedded with fine cherty sediments and arkosic sedi-								
		ments (1- 2% pyrite). After which a mineralized quartz vein								
		injected graphitic tuff (cherty) was intersected from 133.90-								
		137.58 (5- 40% pyrite). The unit ends at 188.10 in a graphitic								
		tuff with marcasite nodules								
		(15- 25% marcasite nodules) silicified in places.								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : Valrennes A | Ligne : L 10+00W | Ord. : | Profondeur :

Claim : | Section : 1+88S | Ord. : | Plongée :

Canton : Valrennes | Lat. : | Long. : | Azimut :

Rang : | Elévation Orifice: Surface | Commencé le : March 04, 1988

Lot : | Azimut: 030° | Terminé le : March 06, 1988

N.T.S. : | Niveau: Surface | Entrepreneur : Forages Diamex Ltée.

Couronne AX: EX: AQ: BQ

Feuille No 1 de

De à Profondeur totale: 188.10

Journal: D.W. Christie

Date: March 08, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
0	26.63	Overburden (casing removed)								
26.63	43.46	Andesitic (mafic) tuff- carbonated	33146	26.85	27.76	0.91	Tr		«5	
		Green and grey green; fine grained; strong carbonate content	33147	35.67	37.0	1.33	«1%		«5	
		in matrix (reacts to conc. HCL, not 10% HCL); 5% quartz-	33148	42.10	43.46	1.36	1%		30	
		carbonate veinlets- white, beige and pink and «1 cm generally,								
		and very irregular in orientation and shape.								
		Also associated with some of these qtz-carb. veins is hematite								
		and pyrite (i.e. hematite at 32.60m, pyrite at 36.97 m)								
		Foliation (or layering) is strong to absent at 40° to the C.A.								
		throughout the unit.								
		The qtz- $CaCO_3$ veinlets show considerable crumpling and ptygmatic								
		folding.								
		On 2mm, veins 43.06 shows ptygmatic folding and an altered								
		bleached pyritic 1/2 cm border on each side of the vein.								
		The unit shows a porphyritic nature (porphyries « 2mm) and								
		some (most) are feldspars (white) and others are carbonate								
		(white).								
		A clastic zone is seen (42.10- 42.70)								
		The clasts are « 1.5 cm long and are qtz rich felsic fragments.								
		Normally there is trace pyrite.								
		Between 42.10- 43.46, there is 1% pyrite								
		27.10- 27.38: quarty vein with Fe_2CO_3 staining and Tr. pyrite.								
		Sericitic alteration (beige) along foliation planes.								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 08, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Some bands of felsic material (« 2cm) 1%									
		35.67- 37.0 several fractures with limonite staining and									
		pyritic qtz-$CaCO_3$ veins pyrite 1%									
43.46	53.69	Fine grained sericitized sediments (tuff?)	33149	50.17	51.70	1.53	Tr		5		
		Yellow, beige and green. Fine to v. fine grained well lamina-	33150	51.70	53.16	1.46	Tr		«5		
		ted (millimetric- centimetric bedding). Strong sericitization									
		especially along bedding planes. Some chloritic beds (sub-									
		units) possibly mafic tuff (i.e. 47.78- 48.18)									
		Also millimetric cherty sericitized bands (millimetric to deci-									
		metric) and chloritic bands (millimetric to decimetric) and									
		centimetric to millimetric qty-carbonate and qty-dolomite veins									
		running parallel to bedding (5%)									
		Also 2% fuschite flakes localized (50.17- 51.70)									
		In a yellow sericitic-silicic sub-unit. Some minor crenulations									
		in the foliation. Iron-carbonate (ankerite) and/or limonite									
		staining on fractures or jointing.									
		(i.e. 51.99, 52.22, 52.53, 52.59, 52.72)									
		Trace pyrite seem as very fine euhedral cubes in qty-carbonate									
		veinlets.									
		Bedding/foliation developed at 40° to the C.A. (53.69)									
53.69	59.35	Agglomeratic felsic tuff - sericitized (debris flow?)	33151	53.69	55.07	1.42	Tr		15		
		Grey yellow- coarse clastic, 30% clasts- matrix supported;	33152	55.07	56.50	1.43	2%		85		
		clasts are 15% cherty qty often with disseminated pyrite in them	33153	56.50	57.87	1.37	1%		«5		
		and up to 3 cm wide, also 15% sericitized sediments or tuffs									

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 8, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		very fine grained (as in unit above) a grey beige colour-									
		clasts are oval and stretched out along foliation (rounded to									
		sub-angular). Matrix has a felsic-sericitic composition with									
		qty eyes (6%- « 2mm) grey in colour.									
		Fuschite flakes in matrix 2%. Minor fuschite flakes in									
		matrix. Some clasts have qty eyes also. 1-2% pyrite dissemi-									
		nated in clasts and in thin millimetric fine grained bands along									
		foliation with sericite. Foliation is at 40° to C.A.									
		At 55.15m, limonite (ankerite) rusty stains on fracture/joint									
		surfaces.									
59.35	71.76	Dolomitic- sericitic- fragmental tuff									
		Grey beige, fine grained with coarse dolomitic & cherty fragments									
		Finely laminated (similar to 43.46- 53.69) except for the									
		dolomitic framboid like fragments.									
		In some sections of the core, the fragments seem fragmented									
		supported whereas in other sections they are matrix supported.									
		The white yellow fragments are often (usually) in grey cherty									
		qty veinlets.									
		From 66.16- 67.9, the rock is 40% fragments or framboids (well	33155	66.16	67.9		Tr		«5		
		rounded) of dolomite with sericitic filaments running through									
		them.									
		Most of the rock contains 5- 10% fragments of this yellow dolo-									
		mite and chert (2mm- 2cm fragments)									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 09, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		The rock has undergone a sericitization and then a silicifica-								
		tion which has caused some brecciation as seen								
		66.16- 67.90: Mostly compositionally bands with varying sericite								
		concentrations and fragment concentrations and chlorite bands								
		as well as slightly carbonated bands ($CaCO_3$)								
		69- 69.70: qtz vein with Ferro dolomite laths and chloritic-	33156	69	70	1.0	Tr		«5	
		sericitic stringers as well as $CaCO_3$ fracture alteration.								
		69.70- 70: shows severe crenulations of foliation striolitic								
		crenulation & qty $CaCO_3$ veinlets- definitive laminations.								
		Trace pyrite seen in minor qtz-carbonate veinlets. Foliation								
		at 40° to C.A. at 71.76 m. Minor limonite (possibly ankerite)								
		stains on fractures.								
71.76	92.33	Felsic quarty eyed tuff. Yellow grey with black bands of gra-	33157	71.76	73.16	1.4	Tr		«5	
		phitic felsic qtz eye tuff. Fine to med. grained. Grey	33158	73.16	74.65	1.49	Tr		«5	
		(transparent) qtz eyes- round to sub-angular (« 4mm , ave	33159	74.65	76.03	1.38	Tr		«5	
		2mm) 15-20%. Very hard rock. Minor sericite along foliation	33160	76.03	77.50	1.47	«1%		«5	
		planes (yellow). 1% fuschite as flakes along foliation and	33161	77.50	78.81	1.31	1%		10	
		often with sericite decimetric graphitic sub-units where gra-	33162	78.81	80.24	1.43	1%		«5	
		phite has influxed the silicic matrix giving the rock a black	33163	80.24	81.50	1.26	Tr		5	
		colour, but loosing little of the hardness (i.e. 78.52- 79.71)	33164	81.50	83.0	1.5	Tr		«5	
		30% graphitic interbeds with qtz eyes also. Friable along	33165	83.0	84.45	1.45	Tr		«5	
		foliation planes. Minor white qty veins with associated fine	33166	84.45	85.90	1.45	Tr		«5	
		pyrite included and rimming (i.e. 75.86)	33167	85.90	87.32	1.42	1%		«5	

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 09, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		Trace to 2% pyrite fine disseminated and in masses of fine py-									
		rite. 73 m- a limonite stained fracture zone. Some cherty	33168	87.32	88.75	1.43	1%		«5		
		clasts «2% (« 1cm)	33169	88.75	90.22	1.47	2%		15		
		Foliation at 50° to C.A. at 90 m. Well developed	33170	90.22	92.33	2.11	2%		10		
		91.41- 92.33: transition zone between felsic tuff and porphy-									
		ritic mafic volcanic (interfingered zone) 2% pyrite									
92.33	101.05	Mafic porphyritic volcanic basalt									
		Dark green, fine grained; millimetric white plagioclase pheno-									
		crysts (« 2mm) 20%									
		Sericitic alteration visible in them.									
		Massive, poor foliation towards end of unit at 50° to C.A.									
		Chloritic amygdules in last 2 m of unit («3mm) 3%. No visible									
		pyrite. Small $CaCO_3$-quartz veinlets at various angles to the									
		C.A. (« 1cm)									
101.05	133.90	Felsic graphitic agglomeratic tuff. with interbedded fine	33171	101.05	102.67	1.62	1%		«5		
		cherty sediments and arkosic sediments. Fine to coarse grained.	33172	102.67	103.98	1.31	Tr		«5		
		Dark grey colour. Silicified, hard rock, although in places	33173	103.98	105.44	1.46	1%		«5	Tr sph	
		the graphitic content is high.	33174	105.44	106.86	1.42	1%		«5		
		101.05- 112.08: felsic qtz eyed agglomerate tuff. Dark grey.	33175	106.86	108.25	1.39	Tr		«5		
		10-15% grey round qtz eyes («3mm) evenly distributed. 25%	33176	108.25	109.68	1.43	«1%		«5		
		clasts (« 2cm, ave. 5mm). Off white felsic clasts, sometimes	33177	109.68	112.08	2.4	«1%		«5		
		with qtz eyes in them. Grey cherty clasts with $CaCO_3$ fractu-	33178	112.08	113.54	1.46	«1%		«5		
		res in them (« 5cm, ave. 1cm)	33179	113.54	114.93	1.39	«1%		60		

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 09, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au ppb	Vérif.
		All clasts are elongated parallel to foliation at 55° to C.A.								
		(112.08 m). Some planes show clast supported clasts but usually	33180	114.93	116.52	1.59	«1%		10	cherty
		matrix supported. Graphite, black chlorite and minor sericite	33181	116.52	117.98	1.46	«1%		20	
		make foliation as well graphite is mixed in the matrix.	33182	117.98	119.22	1.24	Tr		10	
		1% pyrite both in clasts and as disseminated pyrite in the	33183	119.22	120.67	1.45	1%		15	
		matrix and as fragments	33184	120.67	121.96	1.29	Tr		10	
		105.30 black sphalerite with minor qty-$CaCO_3$ vein. No major	33185	121.96	123.43	1.47	1%		5	
		veining only very minor qtz + Qtz-$CaCO_3$ veining.	33186	123.43	124.82	1.39	1%		«5	
		112.08- 113.92: felsic graphitic tuff. dark grey to yellow	33187	124.82	126.32	1.5	3%		20	
		grey. Clastic as above. Difference between the two sub-units	33188	126.32	127.67	1.35	1%		«5	
		is that this one lacks qtz eyes.								
		Tr- 1% pyrite.	33189	127.67	129.14	1.47	1%		«5	
		114.71- 116.30: cherty fine sediments. Very fine grained- well	33190	129.14	130.61	1.47	1%		«5	
		laminated, dark grey in colour. «1% pyrite in euhedral grain	33191	130.61	132.06	1.45	2%		«5	
		bands along bedding planes + diss.	33192	132.06	132.85	0.79	1%		«5	
		Bedding at 56° to the C.A.. A few minor clasts. Interbeds	33193	132.85	133.90	1.05	1%		«5	
		(centimetric) of arkosic sandstone.								
		116.30- 116.53: white barren qty vein which has intersected								
		the rock nearly parallel to foliation brecciating it (3 cm wide)								
		116.53- 121.96: interbedded arkosic sandstone (yellow beige)								
		Argillite and cherty siltstone and greywack (coarse) and coarse								
		agglomerates. Beds are decimetric to millimetric.								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 09. 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.
		Arkosic sandstones are slightly sericitic								
		Clasts in the graywacke and agglomerate are up to 3 cm in								
		length and 2 wide, but average 1cm X 3mm								
		In a few agglomerate beds, the clasts are clast supported								
		felsic-volcanic + felsic sediment clasts well rounded and elonga-								
		ted parallel to foliation.								
		Also large cherty clasts, 116.70- hematite concentration.								
		Tr- 1% pyrite in clasts and matrix								
		Bedding is at 46° to the C.A. at 121 m.								
		121.96- 132.06, 132.85- 133.23: very coarse silicic agglomerate								
		(lapilli tuff)- debris flow. Yellow grey to dark grey.								
		From 121.96- 123.40, clasts are sericitized fine sediments								
		seen earlier in this hole, these clasts are up to 5 cm across								
		(and bigger than core width) and 5 cm wide, angular to sub-								
		rounded, usually elongated slightly parallel to foliation.								
		Sometimes matrix supported other times clast supported. The								
		matrix is a medium grey silicic rock with many fine fragments								
		and clasts in it. Black argillite (graphite) stringers in the								
		core. After 123.40, the clasts and matrix get darker with more								
		graphite in the matrix and more cherty clasts. The sequence is								
		finning downward and becoming more clast supported.								
		125.51- 125.56: semi massive pyrite (coarse) in a quartz vein.								
		1-2% disseminated pyrite in matrix mostly and clasts.								

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MINES AGNICO EAGLE LTÉE

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No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 9, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		Some cherty blue clasts show diss. pyrite and $CaC0_3$ on fractures.								
		Foliation is at 55° to C.A. at 128 m.								
		Minor interbeds of fine graphitic argillite								
		Very minor qty-carbonate veining								
		132.06- 132.85, 132.23- 133.90: fine graphitic argillite (tuff)								
		black. Well laminated v. fine grained; quartz veining 3% with								
		$CaC0_3$ halos. 2% euhedral pyrite cubes along foliation qty								
		veins.								
133.90	137.58	Mineralized quartz flooded graphitic tuff.	33145	135.21	136.02	0.81	40%		Tr	
		Grey colour, fine to med. grained as there are some clasts («2cm)	33194	133.90	135.21	1.31	5%		«5	
		of felsic cherty composition.	33195	136.02	136.70	0.68	8%		25	
		The rock has been injected by white qty with minor $CaC0_3$ content	33196	136.70	137.58	0.88	17%		90	
		and coarse anhedral pyrite (aphanitic) pyrite.								
		133.90- 135.21: quarty veins 20%								
		pyrite 5%								
		clasts 3% («2cm)								
		very poor foliation due to the silicification.								
		135.21- 136.02: semi massive, coarse aphanitic pyrite in qty								
		vein with fine pyrite runs around the coarse grains (remnant								
		radical nodular forms) 40- 45% pyrite								
		136.02- 137.58: well foliated with quarty millimetric (grey white)								
		bands along foliation as well as 5% cherty clasts and white								
		felsic volcanic clasts								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-5

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 9, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		15- 20% pyrite as nodules (« 1cm) or fine euhedral pyrite finely									
		disseminated. Several pyritic rich bands (136.15- 136.70;									
		136.87- 137.43; 137.58- 137.58) between these bands is black									
		aphanitic homogeneous massive argillite with quarty veinlets									
		running through them. Foliation is at 40° to the C.A. at 137 m.									
137.58	188.10	Graphitic tuff with marcasite nodules	33197	137.58	139.05	1.47	10%		90		
		Black with marcasite nodules. Pure graphitic sections in places	33198	162.79	164.23	1.44	25%		170		
		with 15- 25% marcasite nodules with the radial growth pattern									
		visible and at surface of a nodule the euhedral cube staking									
		texture. Nodules as big as 4 cm in									
		diameter.									
		Slightly silicified in places with qty and qty carbonate vein-									
		lets running through the rock.									
		Missing core 153.87- 154.97									
	188.10	End of hole									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : Valrennes A | Ligne : 6+50W | Ord. : | Profondeur : 0 61 | 122 183 | 218 | Couronne

Claim : 371328-3 | Section : 1+00N | Ord. : | Plongée : -60° -44° | -44.5 -39.5 | -41° | AX: EX:

Canton : Valrennes | Lat. : | Long. : | Azimut : 030° - | - - | 024.5° | AQ: BQ

Rang : | Elévation Orifice: Surface | Commencé le : February 26, 1988

Lot : | Azimut: 030° N | Terminé le : February 29, 1988

N.T.S. : | Niveau: Surface | Entrepreneur : Forages Diamex Ltée.

Feuille No 0 de

De à

Profondeur totale: 218.60

Journal: D.W. Christie

Date: March 02, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.
		INCLINATION TESTS								
		Depth Test type Reading								
		0 030°N/-55°								
		60.98m (200') Acid -44°								
		121.95m (400') Acid -44.5°								
		182.93m (600') Acid -39.5°								
		218.60m (717') Tropari -41°/024.5°								
		SUMMARY LOG								
		After 20.73 m of overburden intersected was a series of fine								
		grained interbedded sediments till 158.78 m (Tr- 2% py). Then								
		from 158.78- 166.95, a mineralized graphitic argillite and qtz								
		veining was intersected (3- 8% pyrite, 1% HEM, Tr. Cpy, 100 ppb-								
		1050 ppb Au over lengths over 1m). Then till 168.28, a								
		fuschitic- chloritic- silicified mineralized meta sediment was								
		intersected (10- 15% pyrite, 0.036 oz/t/ 1.33m Au). After								
		which till 170.31, a soft graphitic breccia was intersected.								
		Then a series of mineralized quartz feldspar porphyries inter-								
		sects a series of fuschitic- graphitic meta sediments which are								
		also mineralized (QFP's 2-3% py and up to 720 ppb Au; the								
		meta sediments show Tr- 80% pyrite semi-massive locally and								
		520 ppb Au). Then from 140.70- 218.60, we intersect a fuschi-								
		tic meta Mg tholeite trending towards a mildly talcose carbo-								
		nated Mg tholeite which the hole ends in at 218.60m.								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : Valrennes A | Ligne : 6+50W | Ord. : | Profondeur : 0 | Couronne AX: EX: | Feuille No 1 de

Claim : | Section : 1+00N | Ord. : | Plongée : 60° | AQ:

Canton : Valrennes | Lat. : | Long. : | Azimut : 30° | De à

Rang : | Elévation Orifice: Surface | Commencé le : February 26, 1988 | Profondeur totale: 218.60

Lot : | Azimut: 30° | Terminé le : February 29, 1988 | Journal: D.W. Christie

N.T.S. : | Niveau: | Entrepreneur : Forages Diamex Ltée. | Date: February 29, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
0	20.73	Overburden (casing left in) boulders- granite								
20.73	158.78	Fine grained sediments. Light grey to black; sandstone- arkose,	33032	39.37	40.03	0.66	Tr		5	epidote qtz vein
		argillite, siltstone (cherty), graphitic argillite and fine								
		grained graywacke- fine linear bedding. Very fine grained	33033	59.59	60.43	0.84	1-2%		«5	$CaCO_3$ epidote
		(aphanitic) to fine grained. Millimetric to decimetric bedding.								
		Generally very hard, although some beds are slightly softer due								
		to chlorite, graphite or a less consolidated argillite nature								
		or more granular sandstone arkose nature.								
		A rusty jointed blocky zone (ground water penetration) (24.20-								
		27.48; 37.04- 37.15)								
		Often bedding has been tectonically sliced in some local areas								
		giving a clastic appearance.								
		Although no clasts were observed except for minor rock fragments								
		(millimetric) in the graywacke beds (i.e. 68.0, 28.80). Soft								
		sediment deformation is often seen in the argillite or siltstone								
		beds when in contact with coarser arkoses or graywacke beds								
		(i.e. 70.58- 70.86, 72.29- 72.79). Often thin whiter grey beds								
		show ptygmatic folding which has faulted at the fold hinges								
		and appears broken up (i.e. 37.15)								
		$CaCO_3$ qtz veining as millimetric bands close together causing								
		slight brecciation of the bedding it follows (i.e. 28.0, 59.59-								
		59.68, 59.89- 59.92) often with associated pyrite 1-2% and								
		possibly (FeCa) CO_3 at 28.0 m.								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Journal: D.W. Christie

Date: February 29, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		Qtz- carbonate $CaCO_3$ epidote veining (39.34- 39.92, 48.33- 48.61,								
		40.42- 40.55)- often with black + green stringers of chlorite-								
		graphite running through it, generally poor in sulphides only								
		trace amounts.								
		Blocky core 45.11- 45.73, 69.48- 70.29, 81.55- 82								
		One vein set (2- 3% of rock) 1-2 cm veins of qtz.								
		Carbonate consistently cross cutting foliation at 40- 55° to the								
		C.A. or 60- 85° to the bedding.								
		44.25- 45.11 very finely laminated grey siltstone and black								
		argillite- millimetric banding.								
		88.63- 89.21: beige grey sandstone arkose with millimetric-								
		centimetric graphitic argillite bands with soft sediment defor-								
		mation structures.								
		89.21- 89.40: aphanitic siltstone- cherty- there are other local								
		cherty examples								
		BEDDING 27.50 m 30° to C.A. VEINING								
		51.0 m 35° to C.A. 51.0m 75° to bedding 65°to C.A.								
		66.0 m 40° to C.A. 66 m 85° to bedding 55°to C.A.								
		89.0 m 55° to C.A. 82 m 110° to bedding								
		The majority of the unit is a cherty siltstone and argillite								
		with interbeds of arkosic fine sandstone and fine graywacke								
		(«2mm fragments)								
		There are several irregular veins of quartz with a cracked								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne AX: EX: AQ:

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: February 29, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Cu ppm	
		brecciation where the fractures are being altered to $CaCO_3$									
		and the quartz takes on a green grey hue (vein « 3cm thick)									
		(i.e. 109.04- 109.49 m) usually there is pyrite associated	33034	108.51	109.90	1.39	1%		«5	32	Tr Cpy
		with these as well as a trace of chalcopyrite									
		Pyrite is found in trace amounts and up to 2% locally and there									
		is trace chalcopyrite associated with the pyrite	33035	112.93	114.76	0.83	2%		«5		
		112.93- 116.23 m, concentration of disseminated pyrite and	33036	114.76	116.23	1.47	3%		«5		
		pyrite in qtz-carbonate veinlets 2-3% in fine arkosic graywacke									
		till 114.76 m and then a silty argillite till 116.23 m with fine									
		granular pyrite.									
		Many bedding sets of silty beds have been faulted probably du-									
		ring compaction (i.e. 116.15m)									
		There are possibly some finning upward sequences as seen at									
		116.90 m where the sequence fines northwar down section, there									
		are also probably ripples visible (i.e. 116.0 m)									
		Thin graphitic argillites are almost always shown soft sediment									
		deformation structures formed during compaction.									
		137.89- 137.98, 142.02- 142.20, 142.56- 142.97: examples of									
		beds of coarse lithic graywackes- shake linear fragments									
		(«3 cm long, « 2mm wide). Some rock fragments. Grain size:									
		« 3mm; grey rock.									
		143.06- 156.10: argillite, lithic wacke, arkosic S.S. and									
		siltstone) with an increase in pyrite content. 1-3% pyrite-									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 01, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Cu ppm
		Euhedral cubes disseminated throughout « 3mm.								
		156.10- 158.78: fine siltstone- slightly sericitized giving it								
		a yellow soapy colour and appearance- talc alteration slightly								
		3% disseminated pyrite- micritic aphanitic appearance.								
		Bedding angles								
		100.0 m 53° to the C.A.								
		118 m 50° to the C.A.								
		133.50 m 50° to the C.A.								
		151.0 m 52° to the C.A.								
		158.78 m 55° to the C.A.								
158.78	162.80	Mineralized quartz vein and interfingered argillite beds	33048	158.78	160.27	1.49	4%		200	58
		White and smokey grey qtz with black wisps and bands. 30%	33049	160.27	161.69	1.42	4%		365	
		graphitic argillite wisps and bands. Hematite present 1% in	33050	161.69	162.80	1.11	3%		100	
		matrix and in quartz veins. Minor K-spar veinlets running								
		through the qtz veining. Mostly fine granular pyrite, but some								
		larger coarser nodular pyrite. Pyrite 4- 5%, 1% hematite,								
		Tr. cpy.								
		Stiolitic graphitic fracture fills often with associated pyrite								
		and minor fuschite and chlorite.								
162.80	166.95	Mineralized qtz rich graphitic argillite	33051	162.80	164.25	1.45	8%		280	
		Black with lesser qty white and grey bands. Millimetric bands	33052	164.25	165.60	1.35	8%		1050	(.03)
		and fragments of qtz-carbonate (reacts to 100% HCL but no 10%	33053	165.60	166.95	1.15	8%		280	
		HCL). Foliation is present but contorted due to the intrusion								

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 01, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au.	Vérif.	
									ppb		
		of the later qtz-$CaCO_3$ into the argillite.									
		8% pyrite in a fine grained euhedral to anhedral type («3mm)									
		Foliation is at an average of 55° to the C.A.									
		165.60- 165.79 white qty vein (minor $CaCO_3$ fringes) and brec-									
		ciated fragments of the qtz-graphite-argillite- very little									
		sulphides within the vein.									
		162.80- 163.10: silicified sericitized chloritized- mineralized									
		schistose section- very little graphite. Chlorite-sericite has									
		taken the place of the graphite in the rest of the unit as									
		millimetric wisps accompanied by very fine pyrite (5%) and ban-									
		ded with qtz and qtz-carbonate.									
		166.50- 166.72: chlorite-fuschite- meta sediment. Lawn green									
		in colour, qty cherty fragments (« 2cm) 3%									
		Fine disseminated pyrite 7%									
		Minor 2 cm qty vein with $CaCO_3$ alteration rims.	33054	166.95	168.28	1.33	10%		0.036	1340 ppb	
		Brown green in colour, fine to medium grained, cherty fragments-									
		round to oval « 2cm- 4%. Small millimetric white qty veins									
		in the $CaCO_3$ rims and dark grey qty veins.									
		Mild $CaCO_3$ content in the matrix (reacts vigorously to 100%									
		HCL and not to 10% HCL. 10- 15% pyrite, very fine grained									
		disseminated evenly but higher concentration in the cherty-									
		$CaCO_3$ (whiter) parts of the unit.									
		Strong schistosity/bedding at 55° to the C.A.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 01, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Cu ppm	
		Minor ptygmatic folding of the grey cherty qty veins.									
		A hematite concentration at the angle of the unit clast(10 cm)									
168.28	170.31	Soft graphitic breccia; black with white felsic clasts « 2cm									
		10%; pyritic fragments or nodules 2% « 2 cm									
		Very soft + crumbly									
		169.82- 170.31: core missing- possibly a fault zone or graphitic									
		shear zone. Very blocky									
170.31	171.04	Qtz vein (felsic dyke)	33055	170.31	171.04	0.73	2%		720	(0.02)	
		Dull white, medium grained; fuschitic bands run through it.									
		Minor («2%) plagioclase grains and « 1% K-spar grains (« 2mm)									
		Hematite found mixed with the qtz giving the rock a red colour									
		in places. Granular qtz. Graphitic lenses in it + very blocky									
		core. 2% fine disseminated pyrite.									
171.04	171.55	Very fissile graphitic argillite. Black in colour; blocky									
		fissile core; trace pyrite.									
171.55	176.13	Quartz feldspar porphyry; light beige and white; fine formed	33056	171.55	173.06	1.51	2%		125		
		grains (« 4mm). 75% qtz 20% feldspar (K-spar + plagioclase)	33057	173.06	174.52	1.46	3%		85		
		Many of the feldspar grains boundaries have been altered meta-	33058	174.52	175.33	0.81	3%		140	17 Tr	cpy
		morphosed beyond distinguishibility. White qty veins run	33059	175.33	176.13	0.8	3%		250	20 Tr	cpy
		through the entire length of the dyke.									
		Very succrosic texture to the qtz									
		2-3% fine diss. pyrite, (« 2mm), tr. cpy.									
		At 175.33- 176.13, a qty vein intersects the porphyry and some									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W Christie

Date: March 01, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		argillite 175.76- 175.87 and in the qty vein there are fractu-									
		res with very very fine pyrite (powdery)									
		There are a couple other millimetric-centimetric graphite len-									
		ses within the porphyry.									
176.13	178.8	Pyritic graphitic qtz/argillite-meta-sediments) tuff; black	33060	176.13	176.92	0.79	80%		520		
		and gold yellow; minor fuschite along bedding planes of graphi-	33061	176.92	178.80	1.88	3%		170		
		tic beds. Clasts of felsic cherty rock « 2 cm. Minor hema-									
		tization in some of the felsic bonds. Fine disseminated and									
		banded pyrite 3%									
		176.25- 176.42: massive to semi massive pyrite nodular pyrite									
		with finer pyrite filling in the intercies between nodules and									
		nodular fragments. 80% pyrite									
		176.92- 178.8: brecciated graphitic-felsic tuff. Foliation at									
		55° to the C.A.									
178.8	180.72	Silicified qtz feldspar porphyry	33062	178.80	180.12	1.32	3%		115		
		Beige grey- medium grained; silicification has made the porphy-	33063	180.12	180.72	0.6	3%		0.006	160	ppb
		ries boundaries foggy. Succrosic texture; fine disseminated									
		pyrite 2- 3%; hematite enrichment seen at 178.8 and 180.12 and									
		at 179.72.									
		25- 30% feldspar porphyries (white « 3mm); beige grey qty-smo-									
		key. Small fault gauge at 180.12 at 45° to the C.A.									
180.72	182.23	Fuschitic silicic meta sediment. Deep green	33064	180.72	181.48	0.76	1%		150		
		179.72- 181.0: 181.42- 181.83	33065	181.48	182.23	0.75	1%		100		

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 01, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.	
									Ppb		
		Graphitic/qtz banded sediment with some hematite bands (millime-									
		tric). 1% pyrite; thin grey qty- ferro dolomite veins cross-									
		cutting foliation; foliation well developed at 70° to the C.A.									
182.23	190.70	Silicified quartz feldspar porphyry; beige; medium to coarse	33066	182.23	183.94	1.71	3%		400		
		grained; porphyries of feldspar in a beige grey quartz («5mm)	33067	183.94	185.17	1.23	3%		130		
		Feldspar (plagioclase) porphyries « 40%	33068	185.17	186.70	1.53	3%		230		
		Qtz 60%; fine pyrite; 3- 4% disseminated evenly. 10- 15% white	33069	186.70	187.86	1.16	3%		0.016	355 ppb	
		qty veins interbedding- barren of sulphides	33070	187.86	189.26	1.4	3%		.034	Sp	
		Some sericitication of the feldspar grain borders	33071	189.26	190.70	1.44	3%		565		
		182.23- 182.52: chilled contact with sediments fine grained									
		cherty qty with fine pyrite- also sicified sediments actual									
		unit contact is at 182.37 where the chilled zone of the porphyry									
		begins, but the porphyry silicified the sediments and altered									
		them leaving a silicified sediment contact.									
		Silicification of the porphyry has caused a foggy appearance to									
		plagioclase grain boundaries									
190.70	200.37	Fuschitic meta mg tholeite. Yellow green, v. fine grained to	33072	190.70	192.10	1.4	Tr		160		
		fine grained (« 1mm); strong fuschite content as individual	33073	192.10	193.52	1.42	Tr		260		
		grains & matrix; mild sericite content along foliation. Trace	33074	193.52	194.95	1.43	Tr		80		
		pyrite seen in qty-dolomite veins where qty has needle like	33075	194.95	196.36	1.41	Tr		20		
		laths of dolomite (ferro) included in it and they have grey halos	33076	196.36	197.78	1.42	Tr		«5		
		and often give the rock a rusty colour on that area.	33077	197.78	199.20	1.42	-		«5		
		192.63- 192.85: quartz- dolomite vein with 1% fine pyrite in the	33078	199.20	200.37	1.17	-		«5		

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____

Lot : _____ Azimut: _____

N.T.S. : _____ Niveau: _____

Commencé le : _____

Terminé le : _____

Entrepreneur : _____

Couronne AX: EX: AQ:

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 02, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au ~~ppb~~	Vérif.
		chlorite fuschite- sericite stringers.								
		The rock is fairly silicic in nature. The fuschite composition								
		varies throughout the unit from bright green to light yellow.								
		Fuschite, biotite and other black minerals show an alignment								
		along foliation planes.								
		Increases in softness towards the contact (lower)								
		Foliation moderately developed at 197 m at 50° to the C.A.								
200.37	218.60	Mildly talcose- carbonated Mg Tholeite	23079	208.60	210.08	1.48	Tr		«5	Sp. gr.
		Dark green to grey black								Fe_2O_3
		200.37- 204.49: talcose slightly carbonated; Mg tholeite- grey								
		black; white phenocrysts of $CaCO_3$ -talc (« 2cm) 15%								
		White varioles at 203.74								
		More talcose than the rest of the unit, but not really strong								
		alteration, although has a soapy appearance								
		Tr. pyrite, minot qtz $CaCO_3$ and $CaCO_3$ veinlets (millimetric)								
		204.49- 218.60: chloritic-carbonated talcose Mg Tholeite;								
		dark green, strong chlorite content and matrix carbonate con-								
		tents ($CaCO_3$)								
		Moderately soft; many small qtz-carb and carbonate veinlets								
		($CaCO_3$)- millimetric centimetric								
		Trace pyrite								
		Poorly developed foliation at 55° to the C.A. at 218 m								
		50° to the C.A. at 200.37 m								
	218.60	End of hole								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-6A

Feuille No 1 de

De à

Profondeur totale: 45.12

Projet : Valrennes A
Claim : 371328-3
Canton : Valrennes
Rang :
Lot :
N.T.S. :

Ligne : L-650W Ord. :
Section : 1+06N Ord. :
Lat. : Long. :
Elévation Orifice:
Azimut: 030°
Niveau: Surface

Profondeur : 0
Plongée : (-55°)
Azimut : 030°
Commencé le : March 21, 1988
Terminé le : March 23, 1988
Entrepreneur : Forages Diamex Ltée.

Couronne
AX: EX:
AQ: BQ

Journal: D.W. Christie
Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au.	Vérif.
0	23.70	Overburden (casing removed)								
23.70	45.12	Interbedded fine sediments. Grey and black. Interbedded argillite (black, very fine grained), cherty sediments (very hard, very fine grained), arkosik sandstones and clastic greywackes (felsic volcanic clasts) and argillite clasts (« 1/2 cm)								
		Well laminated millimetric to centimetric.								
		43.0- 45.12 very blocky, qty vein, $FeC0_3$ and fine argillite fragments (« 3cm pieces).								
		Soft sediment deformation structures are present such as flaming slicing & minor slumping (39.30)								
		Boudinaged coarser bands are prevalent as the fine grained beds upon compaction have been squeezed through the coarser more open texture (as in flaming).								
		Trace to 1% pyrite- disseminated euhedral grains (« 3mm). Minor qty + qty $CaC0_3$ millimetric veining								
		Bedding at 45° to C.A. at 40 m.								
		Secondary foliation S_2 is seen on foliation planes as lineations running down the foliation planes								
	45.12	E.O.H. cave in, move hole to 88-A-6 at L 650- 1+00N								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Feuille No 0 de

Projet : Valrennes A | Ligne : L3+00W | Ord. : | Profondeur : 0 61 122 183 224 | Couronne

Claim : 371328-4 | Section : 1+16N | Ord. : | Plongée : -57° 52° -49.5 -49 47 | AX: EX:

Canton : Valrennes | Lat. : | Long. : | Azimut : 030° 035.2 | AQ: BQ

Rang : | Elévation Orifice: | Commencé le : March 7, 1988

Lot : | Azimut: 030° N | Terminé le : March 11, 1988

N.T.S. : | Niveau: Surface | Entrepreneur : Forages Diamex Ltée.

De à

Profondeur totale: 224.7

Journal: D.W. Christie

Date: April 07, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au.	Vérif.
		INCLINATION TESTS								
		Depth Test type Reading								
		0 030°N/ 57°								
		60.98 m (200') Acid -52°								
		121.96 m (400') Acid -49.5°								
		182.73 m (600') Acid -49°								
		224.70 m (737') Tropari 35.2°/-47°								
		SUMMARY LOG								
		After 44.21 m of overburden, a fine interbedded sediment unit was intersected till 171.67. Then, 171.67- 172.04, a mineralized silicified qty veined meta-sediment unit was intersected (5% pyrite). Graphitic tuff with 5% nodular pyrite up till 176.44. After which a QFP- silicified with 3-5% pyrite was intersected up to 184.50 m. Then up to 191.41 intersected was a series of qtz veined mineralized meta-sediments (5- 10%) interbedded with graphitic tuffs with nodular pyrite (8%). Then 191.41- 196.73 a fuschitic carbonated ultramafic was intersected (Tr- 1% py) with a small mineralized qty vein. Then to 198.38 a fuschitic-carbonated graphitic tuff (2- 3% pyrite) followed by a QFP-silicified (4% pyrite). Then to 202.36, a graphitic brecciated clastic tuff (2% py). The hole ends at 224.7 in carbonated ultramafics (Tr- 2% pyrite)								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Feuille No 1 de

De à

Profondeur totale: 737'

Projet	: Valrennes A	Ligne	: L3+00W	Ord.	:	Profondeur	:0	61 122	183 224	Couronne	
Claim	:	Section	: 1+ 16N	Ord.	:	Plongée	:-57°	52 49.5	49 47	AX: EX:	
Canton	: Valrennes	Lat.	:	Long.	:	Azimut	:030°		035.2	AQ:	
Rang	:	Elévation Orifice:	Surface			Commencé le	: March 07, 1988				
Lot	:	Azimut:	030°			Terminé le	: March 11, 1988				
N.T.S.	:	Niveau:	Surface			Entrepreneur	: Forages Diamex Ltée.				

Journal: D.W. Christie

Date: March 15, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.	
									Ppb		
0	44.21	Overburden (casing left in) boulders									
44.21	171.67	Fine interbedded sediments. dark grey colour; very fine to	33260	60.53	62.03	1.5	1%		«5		
		medium grained; consists of interbedded siltstones, cherty sedi-	33261	133.24	134.75	1.51	1%		«5		
		ments (v. fine silt), arkosic sandstones, clastic fine graywackes	33262	167.40	168.87	1.47	1%		«5		
		and argillite ; mostly argillites; varies from very hard cherty	33263	168.87	170.33	1.46	1%		«5		
		siltstones to moderately soft argillites and soapstones (talcose)	33264	170.33	171.67	1.34	2%		135		
		but the very soft is minor constituent.									
		Calcium carbonate in some of the coarser sandstones and gray-									
		wackes but not always present in these rock types, also present									
		in argillites when there is millimetric light dark banding.									
		$CaCO_3$ also seen in millimetric veins and in fracture alteration									
		of larger quarty veins (i.e. 104.25- 104.33, 122.95- 123.13)									
		Cherty sediments (58.63- 59.71, 97.85- 98.00) often show concoi-									
		dal fractures.									
		Arkosic sandstones (« 2mm grain size) and often showing finning									
		upward sequence (also seen in graywacke) (i.e. 90.55- 90.75,									
		91.19- 91.22, 95.11- 95.21, 125.79- 125.91, 123.60- 124.07)									
		Clastic graywacke (109.37) clasts « 1cm									
		Most of the unit is very hard often showing concoidal fracturing									
		when split.									
		Many types of soft sediment deformation can be seen; slumped									
		bedding (i.e. 93.61- 142.13)									
		Flame structure on coarse/fine sediment bedding interface									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 15, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au ppb	Vérif.	
		where the fine sediments upon compaction from coarse sediments									
		above expand up into the coarse more open structure above									
		(i.e. 130.10)									
		Ripples caused during wave actions on the sediments (i.e. 126.75)									
		Boudinaged coarse arkose- where the fine sediments upon									
		compaction have boudinaged pieces of the coarser sediments									
		by filling in open spaces with the fine sediments									
		(i.e. 118.75)									
		Ptygmatic folding of millimetric bedding of fine sediments									
		(i.e. 115.50)									
		Possibly a sandstone dyke- where the coarse arkose s.s. has									
		found an opening in the fine sediments along bedding where									
		a fault (minor) has exposed a section of bedding planes and a									
		1 cm dyke of sandstone has shot in (i.e. 123.47)									
		Minor faulting and fault veining (i.e. 147.40, 156.64)									
		134.75- 136.04: a section of core which displays all the above									
		deformations from crenulated bedding and boudinaged									
		bedding to flame structures in soft sediments.									
		Pyrite is found as trace to local 1% amounts.									
		Seen as fine pyrite along bedding planes in argillite									
		or coarser euhedral disseminated pyrite in coarser sediments									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: March 15, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Bedding is well preserved at:									
		60 m 43° to C.A. 72m 35° to C.A.									
		90 m 40° to C.A. 109 m 40° to C.A.									
		127 m 40° to C.A. 143 m 54° to C.A.									
		161 m 57° to C.A. 171 m 47° to C.A.									
		From 167.40- 171.67: pyrite increases from trace to 2% as									
		disseminated euhedral cubes along bedding planes (« 2mm) and									
		there is an increase in silicification.	33265	171.67	172.04	0.37	5%		245		
171.67	172.04	Silicified qtz veined mineralized meta-sediments									
		Grey beige, stockwork millimetric qtz veins running through									
		the rock cross-cutting foliation (remnant bedding).									
		Very hard, remnant fine sediment beds; possibly a Fe rich									
		(hematite) quarty liquid which silicified the rock giving the									
		orange beige colour.									
		5% pyrite in bands and in grey clast like an hematized rock									
		but silicified (no room for pyrite compound in hematized rock),									
		fine to medium grained pyrite.									
		Remnant bedding at 55° to C.A. but slightly convoluted									
172.04	176.44	Graphitic tuff, black, very metallic in appearance- nearly pure	33266	174.37	176.44	2.07	5%		75		
		graphite (very conductive). The last 2 m has 15% qty and qtz-									
		carbonate veining intervening in the graphite.									
		Very fissile and blocky fragmented core. Foliation at 50° to									
		the C.A. 5% nodular pyrite (« 2cm). Silicified northern									
		contact									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: March 17, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
176.44	184.50	Quartz feldspar porphyry- silicified									
		white yellow grey (slightly green in places). 20% white	33267	176.44	177.95	1.51	3%		40		
		quartz veining randomly oriented (1 cm- 20 cm) usually void	33268	177.95	179.40	1.45	5%		140		
		of sulphides, there is one common orientation among a number	33269	179.40	180.78	1.38	5%		95		
		of smaller veins (« 1cm) at 43° to the C.A.	33270	180.78	182.30	1.52	4%		65		
		176.44- 178.63: the plagioclase laths are less abundant (15%)	33271	182.30	183.44	1.14	5%		250		
		and small (« 5mm) than the rest of the unit and at 180.03 there	33272	183.44	184.50	1.06	5%		90		
		is an abrupt change in mineralogy, perhaps signaling a change									
		in crystallization temperature drastically- epidote is seen in									
		fractures.									
		178.63- 184.50: 55- 60% plagioclase (sodic-green colour) laths									
		(« 2cm, ave. « 1cm) equigranular, sericitic alteration of the									
		feldspar grain boundaries									
		3- 5% fine equally disseminated pyrite (« 2mm)									
		Sometimes pyrite is found in fine bands bordering qty veins									
184.50	185.06	Quartz veined sericitic meta-sediment; yellow grey; very fissile	33273	184.50	185.06	0.56	5%		445		
		slight brecciation due to qtz veining. Sericitic stringers in									
		qty veins along fractures. White quartz 15- 20%; 5% pyrite									
		along foliation and fractures, fine to medium. Trace fuschite.									
185.06	187.90	Graphitic- felsic brecciated tuff with nodular pyrite;	33274	185.06	186.38	1.32	3%		170		
		grey to black; very hard; fine to medium coarse pyrite as well	33275	186.38	187.90	1.52	8%		45		
		as nodular pyrite (« 3cm) in the richer graphitic layers, the									
		fine pyrite is disseminated + in bands- 8% pyrite									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: March 17, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Felsic clasts and brecciation of these clasts.									
		Also tectonic slicing of more felsic bands (less graphite)									
		$CaCO_3$ content as the rock reacts strongly to concentrates HCL									
		but not 10% HCL. Foliation is at 47° to the C.A.									
187.90	191.41	Mineralized silicified meta sediments	33276	187.90	188.84	0.94	10%		105		
		Beige grey with 20% white qty veining. 20% of the unit is	33277	188.84	189.60	0.76	10%		175		
		intersected by white qty veins varying in thickness from 5mm-	33278	189.60	190.40	0.8	7%		275		
		20 cm and randomly oriented.	33279	190.40	191.41	1.01	7%		380		
		The red beige colouration which is more intense in some spots									
		possibly results from hematite content. This is remnant lamina-									
		tions and possibly clasts. The clasts seen are pyritic-carbona-									
		te (calcium carbonate and some dolomite), although these clasts									
		like pyritic-carbonates ovoids could be pyrite-carbonate replace-									
		ment ovoids.									
		The rock colour is much greyer in these clast like ovals (« 4cm,									
		ave 2 cm), there is also some grey quarty clasts (with carbonate									
		eyes) pre-carbonate pyrite alteration									
		$CaCO_3$ dolomite (some react to 10% HCL some don't, they all react									
		to concentrate HCL) millimetric replacement (exsolution?) eyes									
		are present throughout the unit evenly spaced (« 2mm, ave. 1mm)									
		and 15% of the unit. Also carbonate is present along most frac-									
		tures and in millimetric grey veinlets.									
		Pyrite is very fine to medium fine grained, found in clast like									

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 20, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		carbonate ovoids, along fractures are millimetric bands disse-									
		minated concentrations and along foliation (ex-bedding) as bands									
		and there is 10%									
		Foliation (ex-bedding) at 55° to the C.A. Although it varies									
		somewhat due to the contortions caused by the qty (stockwork									
		like) veining.									
		Contact with the fuschitic ultramafics below is gradual									
191.41	196.73	Fuschitic-carbonated ultramafics									
		Bright fuschitic green, med-fine grained									
		Compositionally banded with strong fuschite bands (green)	33280	191.41	193.15	1.74	1%		85		
		and strong quarty-dolomite and or $CaCO_3$ and carbonate bands	33281	193.15	194.57	1.42	Tr		20		
		(grey) millimetric to centimetric banding. Fairly hard, but	33282	194.57	194.95	0.38	40%		0.674	.741	
		increasing in talc and $CaCO_3$ content northward. Tr- 1% pyrite	33283	194.95	195.86	0.91	1%		80		
		very fine, usually disseminated in and around qty-dolomite	33284	195.86	196.73	0.87	1%		10		
		veining (i.e. 192.44- 192.71)									
		Where $CaCO_3$ is in higher percentage the rock is porous in									
		appearance with many small weathered out vacuoles (sponge like)									
		Variolitic textures are seen at 193.42 and other places. Some									
		chloritic millimetric bands. Well foliated at 55° to the C.A.									
		194.57- 194.95: mineralized qtz vein. Minor carbonate on									
		fractures.									
		194.57- 194.76: massive granular (fine to medium) pyrite with									
		(red) hematite filling in the interstices (shows a rusty oxida-									
		tion in places)									

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 20, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		although possibly sphalerite also present.									
		The qty within the massive sulphide section is grey white, the									
		rest of the vein is white up to 194.95									
196.73	198.38	Fuschitic-carbonate-graphitic tuff	33285	196.73	197.52	0.79	3%		20		
		Black & green compositional banding. Fuschite rich bands/	33286	197.52	198.30	0.78	2%		50		
		graphite rich bands/ hematite rich bands/ qty rich grey bands/									
		ankerite (rush coloured) rich bands, but mostly graphite.									
		Convoluted crenulated foliation (i.e. 198.14)									
		Nodular pyrite (« 2cm) in the graphite, elsewhere it is fine									
		to medium fine grained and disseminated 2- 3%									
		Brecciated and boudinaged banding as well as minor faulting									
		and tectonic slicing.									
		Unit is moderately hard. Possibly some qty clasts but the									
		brecciation (which is strong) makes them hard to see.									
		Foliation developed at 45° to the C.A.									
198.30	200.85	Quartz feldspar silicified porphyry. Light beige grey. Coarse	33287	198.30	199.49	1.19	4%		200		
		grained; 20% white randomly oriented qtz veins. Feldspar por-	33288	199.49	200.85	1.36	4%		115		
		phyries 3mm- 1cm equigranular 35-40% with foggy grain boundaries									
		due to silicification and sericitization of the plagioclase									
		feldspar (lath- euhedral shaped). 4% fine disseminated euhedral									
		pyrite (« 1mm) not in qty veins.									
		Upper contact at 60° to the C.A., lower contact at 17° to C.A.									
200.85	202.36	Graphitic brecciated clastic tuff	33289	200.85	202.36	1.51	2%		25		

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne AX: EX: AQ:

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 21, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au Ppb	Vérif.	
		Grey & black; very blocky. Some qtz veining and carbonate									
		veinlets (millimetric). Sericitic felsic clasts, qty rich									
		sed. clasts (fine grained), fuschitic clasts. All clasts									
		« 4 cm long and 2 cm wide, usually stretched out parallel to									
		the uneven unconstant foliation. Strong brecciation in the									
		graphitic fragmental section (2/3 unit). Strongly convoluted									
		crenulated foliation. Very crumbly, although moderately hard.									
		2% fine to med. grained euhedral pyrite.									
		Foliation developed at 65° to the C.A.									
202.36	224.7	Ultramafic volcanics (Hyaloclastite?) carbonate; dark yellow	33290	202.36	203.53	1.17	2%		«5		
		green; local silicification and medium carbonate throughout	33291	203.53	205.01	1.48	2%		«5		
		in matrix; local fuschitic qty sections. Increasing talcose	33292	205.01	206.53	1.52	2%		10		
		nature northward. Magnetic character when ground into very	33293	206.53	207.02	0.49	Tr		10		
		small pieces. Variolitic texture very prominent throughout.	33294	207.02	209.45	2.43	Tr		«5		
		1- 2% pyrite- euhedral grains 1mm- 3mm disseminated.	33295	209.45	210.94	1.49	Tr		5		
		texture seen locally (i.e. 220.30). Most of the unit shows	33296	210.94	212.41	1.47	1%		«5		
		a clastic texture with the clasts being the same make up as	33297	212.41	213.89	1.48	1%		«5		
		the matrix (« 3cm). Hyaloclastic appearance- clast supported	33298	213.89	215.37	1.48	«1%		«5		
		10% grey quarty veins (millimetric- 1cm) seen throughout	33299	215.37	216.76	1.39	Tr		«5		
		dark green mafic minerals + black ones are aligned parallel to	33300	216.76	218.22	1.46	Tr		«5		
		foliation. Foliation is well developed at 209 m at 55° to C.A.	33301	218.22	219.59	1.37	1%		«5		
		at 216m, 65° to C.A., 55° at 204m.	33302	219.59	220.94	1.35	Tr		«5		
		203.89- 204.21: silicified section. Grey to white grey as well									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-7

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 21, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		as ferro dolomite with the qtz. 3% disseminated fine pyrite.									
		Qtz is banded with the ultramafics.	33303	220.94	222.33		1%		«5		
		203.36- 203.89: very strong fuschitic section with a gradual	33304	222.33	224.47		1%		«5		
		loss of fuschite near the end.									
		212.05- 212.15, 214.58- 214.95, 215.17- 215.27									
		fuschitic- qtz sections with some $CaC0_3$									
		bright green + white with thin mafic mineral bands.									
	224.7	End of hole									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-8

Projet : Valrennes A | Ligne : L0+50E | Ord. : | Profondeur : | Couronne

Claim : 371328 -4 | Section : 0+82N | Ord. : | Plongée : | AX: EX:

Canton : Valrennes | Lat. : | Long. : | Azimut : | AQ:

Rang : | Elévation Orifice:

Lot : | Azimut: 030°

N.T.S. : | Niveau: Surface

Commencé le : March 08, 1988

Terminé le : March 12, 1988

Entrepreneur : Forages Diamex Ltée.

Feuille No 0 de

De à

Profondeur totale: 224.09m

Journal: D.W Christie

Date: April 7, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au Ppb	Vérif.
		INCLINATION TESTS								
		Depth Test type Reading								
		0 030°N/-55°								
		60.98 m (200') Acid -53°								
		121.96 m (400') Acid - 50.5°								
		182.93 m (600') Acid - 46.5°								
		224.09 m (735') Tropari 35.7°/45°								
		SUMMARY LOG								
		After 32.66m of overburden fine to medium grained carbonated interbedded sediments were intersected up to 168.11. Then up to 178.96 m, a silicified mineralized quartz veined meta-sediment was intersected (2- 15% pyrite). After which a QFP-silicified was intersected up to 182.78 with 3- 4% pyrite. Then up to 186.02, a mineralized graphitic fuschitic iron carbonate (as well as $CaCO_3$) was intersected with 2- 15% pyrite (main alteration zone). Then up to 190.55, alteration decreases and the ultramafic character shows through the still prevalent iron-carbonate fuschitic, calcium carbonate alteration. A fuschitic dolomitic qty porphyry is intersected up to 193.84 (1% pyrite). Then up to the end of the unit at 224.09, the unit gradually looses its alteration characters of fuschite -dolomite-calcium carbonate and ends in a talcose ultramafic-mafic volcanic.									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-8

Feuille No 1 de

Projet : Valrennes A | Ligne : L0+50E | Ord. : | Profondeur :

Claim : | Section : | Ord. : | Plongée :

Canton : Valrennes | Lat. : 0+82N | Long. : | Azimut :

Rang : | Elévation Orifice:

Lot : | Azimut: 030°

N.T.S. : | Niveau: Surface

Couronne AX: EX: AQ: BQ

De à

Profondeur totale:

Commencé le : March 08, 1988

Terminé le : March 12, 1988

Entrepreneur : Forages Diamex Ltée.

Journal: D.W.Christie

Date: March 21, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.	
0	32.66	Overburden (casing removed) boulders									
32.66	168.11	Fine to medium grained interbedded sediments- carbonated	33305	35.98	37.94	1.96	1%		«5		
		Light grey to black; interbedded graywacke, argillite, lithic	33306	38.75	39.69	0.94	1%		«5		
		graywacke, arkosic sandstone, siltstone, and some soapstone like	33307	46.88	48.46	1.58	2%		«5		
		siltstone and cherty siltstone.	33308	48.46	50.50	2.04	2%		«5		
		Hardness varies from bed to bed. Beds vary from centimetric	33309	61.57	63.01	1.44	1%		«5		
		to metric in length, but usually decimetric. Most beds are	33310	127.13	128.57	1.49	2%		«5		
		well carbonated with $CaCO_3$. Many of the softer graywackes	33311	128.57	130.08	1.51	1%		«5		
		which are carbonated have 7% $CaCO_3$ beds disseminated throughout.	33312	130.08	131.50	1.42	1%		«5		
		Many primary sedimentary structures are well preserved.	33313	131.50	133.03	1.53	1%		«5		
		Slumping (i.e. 47.17, 35.0- 35.15, 99.70- 99.80)	33314	133.03	134.43	1.4	1%		«5		
		Graded bedding (i.e. 101.01- 101.05, 94.31- 94.38, 153.95-	33315	134.43	135.86	1.43	2%		«5		
		154) and other soft sediment deformation structures such as	33316	135.86	137.28	1.42	1%		«5		
		flaming, faulting as well as boudinaged beds. Bedding is well	33317	137.28	138.73	1.45	«1%		«5		
		preserved in most places although crenulations faulting and	33318	138.73	140.11	1.38	2%		«5		
		soft sediment deformations have caused some convolutions in	33319	140.11	141.61	1.5	Tr		«5		
		the bedding which is developed at 47 m at 55° to C.A., 62 m	33320	141.61	143.01	1.4	Tr		«5		
		45° to C.A., 81 m at 50° to C.A., 100m at 40° to C.A.,	33321	143.01	144.49	1.48	«1%		«5		
		130 m at 35° to C.A., 145 m at 55° to C.A., 164 m 37° to the	33322	144.49	145.90	1.41	1%		«5		
		C.A., 168 m at 65° to C.A.	33323	145.90	147.34	1.44	2%		«5		
		A secondary cleavage is developed throughout the unit faults	33324	147.34	148.71	1.37	Tr		«5		
		many of the beds it cross cuts at 55°- 60° to the C.A.	33325	148.71	150.21	1.5	2%		«5		
		Sometimes cleavage parallels or sub-parallel bedding, but	33326	150.21	151.62	1.41	2%		150		
		usually cross-cuts it.									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-8

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 21, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au Ppb	Vérif.	
		50.50- 64.41: lithic graywacke with shale clasts and graphitic									
		argillite clasts, most of which are lenticular clasts parallel	33327	151.62	153.03	1.41	3%		15		
		to bedding.	33328	153.03	154.51	1.48	3%		10		
		Quartz-$CaCO_3$ veining is present up to 5% most are randomly o-	33329	154.51	155.90	1.39	«1%		70		
		riented shallow dipping veins, one set remains fairly constant	33330	155.90	157.42	1.52	«1%		50		
		at 55° to C.A. and 75° to bedding, (2mm- 2cm). Many of the	33331	157.42	158.85	1.43	1%		85		
		smaller veins (« 5mm) are ptygmatically folded and un parallel	33332	158.85	160.30	1.45	1%		130		
		to the C.A.	33333	160.30	161.67	1.37	«1%		165		
		And the qtz-$CaCO_3$ veins show comb like crystal growth texture.	33334	161.67	163.61	1.94	1%		170		
		Pyrite is present in varying amounts with some sub-units more	33335	163.61	165.02	1.41	2%		50		
		rich in pyrite than others, most being anhedral, detrital pyrite	33336	165.02	166.54	1.52	2%		95		
		or euhedral secondary pyrite disseminated and in qty carb.	33337	166.54	168.11	1.57	4%		230		
		veins. Often pyrite is more associated with graphitic looking									
		argillite than other type of sediment.									
		123.07- 154.38: cherty interbedded fine sediments with 1-3%									
		pyrite disseminated anhedral-euhedral 1- 2mm grains and some-									
		times anhedral masses. 126.06: a dendritic growth pattern									
		around a black chert like millimetric veinlet.									
		143.57: vein offset faulting of bedding- common throughout									
		149.90: block faulting of large interbed									
		154.38- 158.85: large arkosic sandstone interbed with millime-									
		tric argillite interbeds									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-8

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		1- 2% pyrite finely disseminated									
		After 123.07, carbonate in the matrix is a localized phenomenon.									
		158.85- 168.11: argillite siltstone with crackle $CaCO_3$ -qtz									
		brecciation and 1- 4% pyrite									
168.11	178.96	Silicified mineralized qtz veined sediments (sediment-volcanic	33338	168.11	169.47	1.36	3%		395		
		shear): grey, white, black, beige and green grey, fine grained.	33339	169.47	170.16	0.69	6%		370		
		30% white mineralized qtz veining- millimetric to decimetric	33340	170.16	170.83	0.67	4%		165		
		invasions of bedding, fractures and mica faults.	33341	170.83	171.49	0.66	3%		335		
		These qty veins show graphite along fractures, as well as	33342	171.49	172.64	1.15	7%		595		
		minor carbonate along fractures ($FeCO_3$ reacts to conc. HCL,	33343	172.64	173.42	0.78	2%		160		
		not 10% HCL) Pyrite in qty veining is much lesser than in	33344	173.42	174.64	1.22	8%		545		
		sediments and sediment fragments within qty veining, as the	33345	174.64	175.11	0.47	2%		160		
		qty-veining has brecciated the sediments into isolated blocks	33346	175.11	176.49	1.38	15%		140		
		and fragments (centimetric fragments)	33347	176.49	177.88	1.39	10%		165	Zn	
		168.29- 168.81: soft crumbly graphitic clastic tuff; very	33348	177.88	178.96	1.08	10%		430		
		blocky, nodular pyrite (« 2cm) 2%									
		Felsic qty like fragments (clasts) 15%- angular- sub-rounded									
		170.16- 170.39, 170.83- 171.30, 171.49- 172.25, 176.62- 176.76									
		177.88- 178.96 silicified graphitic mineralized argillite									
		Black, fine grained, often banded with intervening qty- carb-									
		(centimetric-millimetric). Felsic bands are often boudinaged									
		or brecciated. Some of these sub-units (177.88- 178.96)									
		show severe crenulations and convolutions in bedding causing									
		severe boudinage of qtz veins and grey cherty bands, giving									

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No 88-A-8

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		the rock a clastic appearance.									
		Most of these sub-units have 3- 4% fine (« 2mm) disseminated euhedral-anhedral pyrite often in bands with millimetric qty veins.									
		177.88- 178.96: is much more mineralized with 10% fine (« 3mm, ave. 1mm) pyrite euhedral-anhedral, usually in the qty or grey cherty millimetric-centimetric bands + boudinaged fragments disseminated throughout.									
		Bedding at 52° to C.A. (170.20), 30° to C.A. (172), 65° to C.A. (176.70), 75° to C.A. (178 m), as can be seen the bedding is very contorted due to the shearing and qty veining.									
		In the qty veins, there are ferro-dolomite needles around the edges.									
		177.07- 177.47: as above but with 10% pyrite and hematite mixed in with the graphite.									
		168.11- 168.29, 168.81- 170.16, 172.25- 172.64, 173.42- 174.64, 175.11- 176.02, 176.11- 176.31, 176.49- 176.62, 176.76- 177.07, 177.47- 177.88									
		Silicified fine grained meta sediments- mineralized; grey to beige, fine grained, cherty in matrix; often with centimetric-millimetric qty veins running in through them. Bedding is still visible, although very contorted due to surrounding qtz vein now.									

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Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

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Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.	
		35° to C.A. (169m), 55° to C.A. (172 m), 60° to C.A. (177.20m)									
		Flattens to zero with two fold noses with axes perpendicular									
		to C.A. at 177.50 m.									
		Pyrite content varies but is generally 4- 10%, very fine									
		grained to med. fine (dusty - 3mm), often euhedral grains,									
		although some anhedral masses - finely disseminated and in bands									
		along fractures, bordering qty veins and along bedding planes									
		(175.11- 176.02 very fine dusty pyrite 20%)									
		Sericitic, chloritic and minor fuschitic seams along bedding									
		and fractures.									
		Many decimetric blocky sections.									
		170.39- 170.83, 171.30- 171.49, 172.64- 173.42, 174.64- 175.11,									
		176.02- 176.11, 176.31- 176.49, white qty vein.									
		CaCO, on fractures (minor) crumbly									
		«2% pyrite euhedral (« 3mm). Graphitic- chloritic-pyritic									
		stringers along fractures. Isolated sediment blocks within the									
		qty veins. Minor hematite, & sericite seams. Minor ferro-									
		dolomite grains and veinlets. Very irregularly shaped- filling									
		most easily opened spaces. Many centimetric qty vein off shoots									
		into surrounding rock									
178.96	182.78	Silicified quartz feldspar porphyry. Light white grey	33349	178.96	180.38	1.42	3%		355		
		40% plagioclase laths with foggy grain boundaries due to the	33350	180.38	181.66	1.28	4%		240		
		silicification. 10% qty veining. 3- 4% fine to very fine	33351	181.66	182.78	1.12	4%		400		

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Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

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Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.	
		(«1mm) pyrite, mostly along fractures + some anhedral fine py-									
		rite masses. Intensely fractured rock random orientation.									
		Chlorite also along fractures + sometimes graphite. $CaCO_3$									
		spotty alteration. Sericitic alteration of the plagioclase									
		laths is present but not strong.									
182.78	186.02	Mineralized graphitic- fuschitic- Fe carbonate $CaCO_3$ alteration									
		zone. Black, grey or green and rusty brown. Fine-grained-									
		medium grained.	33352	182.78	183.82	1.04	15%		240		
		Strong foliation at 45- 50° to the C.A.	33353	183.82	184.93	1.11	2%		5		
		182.78- 183.52, 183.82- 184.13, 184.93- 186.02: mineralized	33354	184.93	186.02	1.09	8%		5		
		graphitic silicified tuff. Black to dark grey in colour; very									
		fine grained; millimetric to centimetric banding of graphitic									
		bands and qty bands (with minor amounts of $CaCO_3$)									
		Also hematite often mixed with the graphitic bands. Euhedral									
		and anhedral pyrite, seen mostly in the qty bands but also in									
		the graphitic bands (« 3mm, ave. 1mm) 5- 8%. Qty bands often									
		boudinaged, giving a clastic appearance.									
		183.52- 183.82: quartz rich clastic tuff- white grey									
		Medium grained (1- 4mm grain size). Very granular, cherty grey									
		clasts (« 2cm long, 5mm wide) 5%									
		20% fine to med. fine pyrite (« 2mm, ave. « 1mm) euhedral grains									
		disseminated evenly throughout.									
		184.13- 184.93: fuschitic- iron $CaCO_3$ alteration.									

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Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

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Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.
		Bright green and rusty brown melange (mottled appearance)								
		Green $CaCO_3$ - fuschite (possibly green $CaCO_3$) alteration with grey carbonate (dolomite) qtz veinlets running through this sub-unit (reacts to conc. HCL but not to 10% HCL)								
		2% euhedral pyrite cubes («2mm)								
		Foliation well preserved.								
		The green fuschite- calcium carbonate zones are verry pitled as the carbonate has been removed leaving the pitled porous appearance. At 184.73, you can see dolomite (ferro) crystals where they have not altered to an amorphous rusty brown alteration packed needles which are being altered to a rusty brown and then a green fuschite carbonate.								
		Ferro dolomite- ankerite- green (fuschite) calcium carbonate								
186.02	190.55	Ferro dolomite- fuschitic- $CaCO_3$ altered ultramafics	33355	186.02	187.31	1.29	2%		«5	
		Grey bright green, fine grained; some spotty brown rusty alteration of the grey ferro-dolomite and some pitted $CaCO_3$ alteration. 186.82- 186.85: ferro dolomite packed needle vein parallel to foliation (reacts to Conc. HCL but no 10% HCL) Other ferro dolomite packed needle veinlets, as well as qtz veining (minor centimetric). What may be fuschite may just be green $CaCO_3$ (whole rock). 186.90- 187.31: graphitic-dolomitic section with very convoluted foliation and 3% pyrite cubes (« 2mm)	33356	187.31	188.74	1.43	1%		«5	
			33357	188.74	190.55	1.81	2%		10	
		«2% fine disseminated pyrite.								

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Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		Some sericitic seams along foliation planes.									
		Moderately hard; the whole unit reacts vigorously to conc. HCL									
		but not to 10% HCL									
		Some local $CaC0_3$ alteration in pitted sports (reacts to 10% HCL)									
		Foliation is at 50° to the C.A.									
190.55	193.84	Fuschite- dolomite- quartz porphyry (meta-volcanic)	33358	190.55	192.07	1.52	1%		«5		
		Green porphyries in a grey matrix. Matrix is dolomite (ferro)	33359	192.07	193.84	1.77	1%		«5		
		rich (reacts strongly to conc. HCL but not to 10% HCL) and									
		quartz rich.									
		As well there are ferro-dolomite packed needle veins (i.e.									
		193.11- 193.13) as well as thin grey dolomite veinlets (millime-									
		tric)									
		Fuschite porphyries (« 1cm, ave. 5mm) 20% evenly distribution									
		between usually shown a long axis parallel to what is probably									
		remnant foliation.									
		1- 2% disseminated pyrite (« 2mm euhedral cubes)									
		Foliation is poorly developed at 40° at 191 m.									
193.84	204.76	Fuschitic- dolomitic altered ultramafics. Yellow green colour,	33360	193.84	195.22	1.38	Tr		«5		
		fine- medium grained; fuschite found in the matrix and as por-	33361	195.22	196.54	1.32	Tr		«5		
		phyries. Sericite along foliation surfaces and as seams in	33362	196.54	197.92	1.38	1%		35		
		quarty-ferro dolomite veins.	33363	197.92	199.53	1.61	Tr		«5		
		Possibly remnant variolitic texture seen throughout. Also	33364	199.53	200.84	1.31	1%		65		
		fuschitic seams along foliation.	33365	200.84	202.25	1.41	2%		580		

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Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		Qtz- and qtz ferro dolomite veins seen throughout often parallel									
		to foliation 15% veining	33366	202.25	203.56	1.31	1%		275		
		Grey dolomitic millimetric bands with sericitic-fuschitic-dolo	33367	203.56	204.76	1.2	1%		«5		
		mitic bands. Millimetric calcium carbonate veins. 1- 3%									
		disseminated fine («2mm) pyrite associated with larger qty-									
		dolomite veins (not in them, just around them). Foliation is									
		at 55° to the C.A. at 204 m. When crushed into a powder, it is									
		magnetic.									
204.76	212.11	Dolomitic intermediate volcanic (dacitic)	33368	204.76	206.26	1.5	Tr		«5		
		Light grey, fine grained, reacts strongly to concentrated HCL	33369	206.26	207,65	1.39	Tr		«5		
		but not to 10% HCL. Many millimetric dolomitic veinlets running	33370	207.65	209.16	1.51	1%		«5		
		through it. As well as millimetric grey qty veinlets and cen-	33371	209.16	210.66	1.5	1%		«5		
		timetric white qty veins (5% white quarty veins- barren)	33372	210.66	212.11	1.45	1%		«5		
		Sericitic seams on fracture planes, foliation planes and surroun-									
		ding qty veins are present but not prominent. Very silicic rock									
		1-2% fuschite along fractures + foliation planes as small centi-									
		metric (long) X millimetric (wide) wisps.									
		Minor $CaCO_3$ on fracture surfaces. Fairly massive rock as the									
		foliation is very poorly developed- almost cherty (micritic)									
		in appearance in some places.									
		Increased fuschite content in the last 1 m of the unit as well									
		as pyrite content.									
		Trace to 2% pyrite finely disseminated.									
		Poor foliation developed at 45° to the C.A.									

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Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

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Feuille No 10 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au ppb	Vérif.
212.11	224.09	Ultramafic mafic-volcanics								
		212- 213.24: fuschitic- sericitic- dolomitic altered volcanics	33373	212.11	213.24	1.13	Tr		«5	
		Green yellow, fine to medium grained, remnant variolitic textu-	33374	213.24	214.48	1.24	Tr		«5	
		re, annealed together after the alteration. Fuschitic porphy-	33375	214.48	215.43	0.95	Tr		«5	
		ries (1cm large, 2mm wide) (20%) in a sericitic (yellow green)	33376	215.43	217.37	1.94	Tr		5	
		dolomitic matrix. Thin(millimetric- centimetric) grey and white	33377	217.37	218.75	1.38	1%		«5	
		qty and qty- dolomite veins. Trace pyrite.	33378	218.75	220.18	1.43	1%		«5	
		213.24- 215.43: dolomitic sericitic altered ultramafics: yellow	33379	220.18	221.64	1.46	1%		«5	
		(beige) green, fine to medium grained. Strong variolitic tex-	33380	221.64	224.09	2.45	1%		«5	
		ture although sericitized making them foggy. 20% qtz-carbonate								
		(dolomite) veins and veinlets- in random orientation (millime-								
		tric- centimetric). Poor foliation developed at 50° to the C.A.								
		Trace pyrite. Moderate reaction to concentrated HCL (none to								
		10% HCL). Some chlorite contact.								
		Slightly talcose, slightly soft. Magnetic when crushed.								
		215.43- 224.09: Ultramafic volcanic (possibly Hyaloclastite),								
		dark green, strong variolitic texture, although distorted due								
		to the foliation, talcose nature of the rock and the chloritic								
		nature. Fairly soft due to the talcose alteration and chloritic								
		alteration. A clastic appearance where the clasts are all the								
		same kind of rock as the matrix- dark green variolitic- ultrama-								
		fic (2- 4 cm in size)- angular clasts- matrix is more chlorite								
		rich (dark colour) and lacks varioles. Some dolomite carbonate								

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No 88-A-8

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Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 11 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		alteration; minor $CaCO_3$ -quarty veins (millimetric) with no									
		specific orientation. Foliation is at 60° to the C.A. at									
		224 m.									
		Tr- 1% pyrite finely disseminated.									
	224.09	End of hole									

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No 88-A-9

Projet : Valrennes A | Ligne : L3+50W | Ord. : | Profondeur : | Couronne
Claim : 371329-1 | Section : 2+15S | Ord. : | Plongée : | AX: EX:
Canton : Valrennes | Lat. : | Long. : | Azimut : | AQ BQ
Rang : | Elévation Orifice: | Commencé le : March 11, 1988
Lot : | Azimut: 030° N | Terminé le : March 17, 1988
N.T.S. : | Niveau: Surface | Entrepreneur : Forages Diamex Ltée.

Feuille No 0 de
De à
Profondeur totale: 407.62

Journal: D.W. Christie
Date: April 7, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. oz. T	Vérif.
		Inclination tests								
		Depth Test type Reading								
		0 030N/-65								
		60.98 m (200') Acid -59.5°								
		121.96 m (400') Acid -61.5°								
		182.93 m (600') Acid -56.5°								
		243.90 m (800') Acid -56.5°								
		304.88 m (1000') Acid -57.5°								
		365.85 m (1200') Acid -51.5°								
		298.48 m (1307') Tropari 216.8/47°								
		223.8/47°								
		215.55 m (707') Tropari 129°/59°								
		Summary Log								
		After 10.98 m of overburden, amygdular andesite (Tr - 1% pyrite)								
		was intersected to 118.41. Then, there is a transitional dacitic								
		unit into a rhyolitic-dacitic amygdular volcanic ending at								
		150.68 m. A silicified quartz feldspar porphy (1- 3% pyrite)								
		to 165.19 m followed by dolomitized interbedded siliceous chlo-								
		ritic fine sediments (1- 5% pyrite) which go to 205.28 m. Then								
		a series of dolomitized porphyritic and/or cherty and/or qtz								
		eyed tuffs and fine sediments to 222.12 m (1- 6% pyrite).								
		222.12- 241.60 a felsic sericitic qtz eyed fragmental is								

LF C 4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 0 A de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: April 7, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. oz. T	Vérif.	
		intersected (Tr- 10% pyrite).									
		Then up to 397.38 there was an intersection of a series of felsic									
		tuffs with qtz eyes, some local fragmental areas and local									
		chlorite or graphitic or dolomitic alteration (Tr- 2% pyrite).									
		Then at 397.38- 400.55, an intersection of mineralized dolomitic									
		sediments with qtz- dolomite veining. (40% pyrite semi-massive									
		locally). After the mineralized intersection, a graphitic									
		dolomitized banded argillite was intersected to 404.91 (5%									
		pyrite nodular) followed by grey unconsolidated clay in which									
		the hole ended at 407.62.									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : L-350 Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ: BQ

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 1 de _____

De _____ à _____

Profondeur totale: 1337' (407.62

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ~~Ppb~~	Vérif.	
0	10.98	Overburden (left casing in)									
10.98	118.41	Amygdular andesite	33381	33.90	35.40	1.5	1%		«5		
		- green grey, fine grained, fairly hard- Fe, Mg, silicate rich	33382	35.40	36.81	1.41	1%		«5		
		- strong spotty calcium carbonate content in the matrix through-	33383	36.81	38.28	1.47	1%		«5		
		out the unit. - 5% $CaCO_3$ veining (millimetric- centimetric)-	33384	38.28	39.68	1.4	1%		«5		
		cross cutting foliation at various angles. -15% chlorite amyg-	33385	39.68	41.17	1.49	1%		«5		
		dules (« 1cm)- angular to ellipsodal. - 2-3% plagioclase pheno-									
		crysts (« 2cm) often euhedral laths but sometimes rounded-									
		with foggy grain boundaries.									
		Also millimetric-centimetric qtz veins with $CaCO_3$ alteration									
		along the fractures and vein edge.									
		Sericitic seams along foliation planes, fracture surfaces and									
		on qtz vein contacts.									
		Foliation is poor and developed only by the alignment of elonga-									
		ted chlorite amygdules and sericitic seams.									
		In first 3 m, there is several rusty stains, probably caused									
		by ground water circulation.									
		54.22- 58.23: crackled, brecciated qtz veined sericitized zone;									
		with a qtz vein running sub-parallel to the C.A.									
		Sericitic alteration on every fracture surface.									
		Slightly rusty yellow colour.									
		Trace pyrite- finely disseminated locally.									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 22, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Foliation is poorly developed at (in places it is massive)									
		37° to C.A. at 23 m, 40° to C.A. at 58 m, 35° to C.A.. 63.50									
		35° to C.A. at 88 m.									
		Some sections are slightly silicified and usually have 1% pyrite									
		(which was sampled)									
		After 80 m (approx.), the unit trends dacite-andesite, waivering									
		between mafic and intermediate									
		108.11- 108.18: quartz carbonate vein with a sericitic halo	33386	107.31	108.79	1.48	1%		10		
		with fine pyrite 2% and pink carbonate in the vein.									
118.41	126.04	Dacitic transition unit between andesite above and rhyolite below	33387	118.41	121.04	2.63	1%		«5		
		Lighter grey green, fine grained	33388	121.04	122.44	1.4	1%		«5		
		Chloritic amygdules («1cm) angular to ellipsidal, sometimes elon-	33389	122.44	124.09	1.65	1%		«5		
		gated parallel to the poor foliation present. 15%	33390	124.09	126.04	1.95	1%		«5		
		Very hard, very strong, silica content									
		5% $CaCO_3$-quartz veining millimetric to 1 centimetre veins at an-									
		gles of 50- 80° to C.A. (shallow vein sets)									
		Foliation very poor to non existent									
		1- 2% very fine disseminated pyrite, with a higher concentration									
		around qtz-carb veins.									
		Chlorite sericite concentrations around veining (larger veins) and									
		fractures and any prominent foliation planes (as seams)									
		Areas surrounding some veining are bleached to a off white									
		(rhyolitic) colour. 2 cm each side of the vein.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88 A 9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 23, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		possibly some trace fuschite associated with the chlorite amyg-									
		dules.									
		Rusty iron staining on fractures- limonite- hematite									
		No $CaC0_3$ in the matrix any more.									
126.04	150.68	Rhyolitic- dacitic volcanics- amygdular									
		Light yellow green grey, fine grained									
		1- 2% qtz eyes («1mm) and not evenly distributed									
		10-15% chlorite amygdules («1cm, ave. 5mm - Angular									
		2-3% fuschite, amygdules									
		Feldspar phenocrysts, 3% («1cm)- euhedral- anhedral									
		Chlorite- fuschite amygdules often contain pyrite grains									
		qtz grains visible (1mm in size)- sometimes euhedral									
		Very felsic composition									
		Some quarty amygdules «1% (« 1cm) rounded with some carbonate									
		($CaC0_3$) in them									
		There is minor trace amount of $FeC0_3$ in the matrix									
		Quarty veinlets 40% to 70% to C.A. (millimetre) 5% sometimes									
		with pyrite (i.e. 138.70 with trace sphalerite)									
		Minor quartz-$CaC0_3$ veins- white + orange									
		126.04- 133.84- rhyolite- amygdular	33391	129.95	130.36	0.41	«1%		«5		
		with chlorite + fuschite, amygdules and sericitization of	33392	130.36	131.81	1.45	«1%		«5		
		some chlorite amygdules	33393	131.81	133.84	2.03	«2%		«5		
		1% qtz eyes («1%) « 1% pyrite, very fine disseminated									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 23, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.	
		Sericitic seams along some foliation planes							Ppb		
		Absent to very poor foliation									
		Rusty stains and some fractures									
		133.84- 139.78: slightly hematitic rhyolite- amygdules	33394	133.84	135.23	1.39	2%		40		
		As above but with a pink tint to the rock and 5% qty amygdules-	33395	135.23	136.77	1.54	2%		10		
		angular («2 cm, average 1 cm)	33396	136.77	138.27	2.0	«2%		«5		
		Fuschite amygdules 5% as well as 15% chlorite amygdules.	33397	138.27	139.78	1.51	2%		«5		
		Several rusty stains on fractures									
		3% quartz veinlets millimetric									
		absent to very poor foliation									
		$CaCO_3$ on fracture surfaces, sericitic seams on fractures + veins									
		2% very fine («1mm) disseminated pyrite									
		Gradual change in colour white yellow to pink yellow									
		139.78- 145.67: rhyolite- dacite- amygdules									
		light green grey; fine grained									
		15% ch amygdules («1cm); 10% qtz eyes (« 1mm)									
		«5% quarty amygdules (« 1cm) round									
		«5% feldspar phenocrysts (« 1cm) euhedral									
		- 2% fuschite amygdules or flakes									
		- Quarty eye concentration increases down unit									
		- Foliation poor to absent									
		- 1- 2% pyrite often associated with qtz eyes or amygdules									
		(fine grained)									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 5 de _____

De _____ à _____

Profondeur totale: _____

Journal: D. W. Christie

Date: March 23, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		145.67- 150.68: foliated rhyo-dacite- yellow	33398	139.78	141.26	1.48	1%		«5		
		70% quarty amygdules with pyrite inclusions	33399	141.26	142.66	1.4	1%		«5		
		5% fuschite flakes	33400	142.66	143.98	1.32	2%		«5		
		10% quartz eyes («2mm average 1mm)	33401	143.98	145.67	1.69	2%		«5		
		«2% chlorite amygdules	33402	145.67	147.11	1.44	2%		10		
		2% pyrite disseminated and associated with amygdules + qtz eyes	33403	147.11	148.48	1.37	1%		«5		
		in fine pyrite clumps (grains «1mm, clumps «1cm)	33404	148.48	150.68	2.2	1%		«5		
		well developed foliation moderately schistose at end of unit									
		at 35° to C.A. (146 m) and 60° to C.A. at 150.5 m									
		All qtz, chlorite, fuschite amygdules are stretched out									
		along foliation.									
150.68	158.73	Quartz feldspar porphory- silicified	33405	150.68	152.27	1.59	2%		25		
		White grey, fine- medium coarse grained	33406	152.27	153.60	1.33	2%		100		
		65% quartz veining- white	33407	153.60	155.17	1.57	3%		90		
		In the parts that are not quartz veins, the quartz feldspar	33408	155.17	156.63	1.46	2%		80		
		porphory has feldspar porphyries « 2cm (average 1 cm)- euhedral	33409	156.63	158.73	2.1	1%		25		
		Feldspar grain boundaries are foggy due to the heavy silicifica-									
		tion.									
		The first 20 cm show strong sericitization along fractures.									
		This is seen in lesser degrees throughout the unit.									
		Very fine pyrite (1- 3%) is seen along fractures in bands and									
		disseminated throughout, although not seen very often in the									
		qtz veins.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 6 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 23, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		153.11- 153.60, 155.81- 156.63									
		Sericitized- silicified felsic volcanic- schistose- yellow									
		Foliation well developed at 30° average to the C.A., but									
		it is severely convoluted.									
		These sections are richer in pyrite as are the qtz feldspar									
		porphiry sections.									
		The qtz vein sections are only mineralized along fractures,									
		not much disseminated pyrite									
158.73	165.19	Amygdular felsic volcanic	33410	158.73	159.97	1.24	Tr		«5		
		Yellow beige and brown red, fine grained	33411	159.97	161.85	1.88	2%		125		
		6- 7% fuschite amygdules- Angular sub rounded (« 5mm)	33412	161.85	163.37	1.52	1%		60		
		and usually elongated parallel to foliation 2% chlorite	33413	163.37	165.19	1.82	1%		«5		
		amygdules.									
		Foliation moderately to poorly developed at 35° to C.A.									
		(161 m)									
		Very hard rock- strong silica content									
		Sericitization is moderate in foliation and fracture planes									
		Minor ferro dolomite in matrix									
		2% millimetric randomly oriented qtz veins									
		2% disseminated sulphides, often associated within fuschite									
		amygdules or near qtz veins									
		2% feldspar phenocrysts- euhedral « 1cm (white)									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 7 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 24, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		161.85- 165.19: hematized section of amygdular felsic									
		volcanic- brick brown red									
		Foliation is poor in the section- more massive									
		Some («2%) black + white qty amygdules («5mm, average 1mm)									
		Stronger ferro dolomite content									
165.19	205.28	Dolomitized inter bedded siliceous and chloritic fine sediments	33414	165.19	166.77	1.58	1%		«5		
		Grey, beige, yellow and dark green, fine-grained to medium grai-	33415	166.77	169.08	2.31	2%		«5		
		ned- chloritic siltstones and siliceous siltstones- mudstones	33416	169.08	170.53	1.45	2%		135		
		(chloritic) as well as selective chloritic alteration	33417	170.53	172.07	1.54	2%		165		
		Strongly laminated in centimetric to decimetric bands, which	33418	172.07	173.30	1.23	Tr		10		
		display compositional differences in light and dark minerals	33419	173.30	175.01	1.71	Tr		«5		
		Often micritic looking (micritic mudstones)	33420	175.01	176.47	1.46	2%		130		
		Very hard to moderately hard (sometimes scratcheable) suggests	33421	176.47	177.93	2.92	2%		«5		
		a silicification	33422	177.93	179.35	1.42	1%		«5		
		Often 1-2 mm grains are visible in a finer matrix seem due to	33423	179.35	180.85	1.5	2%		«5		
		the slight difference in colour (i.e. 176.25 and almost every-	33424	180.85	182.30	1.45	2%		«5		
		where else). In the chloritized sediments, these 1-2 mm oval	33425	182.30	183.32	1.02	2%		«5		
		to sub rounded grains often are not altered, either due to	33426	183.32	184.67	1.35	1%		10		
		their composition which appears to be strongly dolomitic while	33427	184.67	186.20	1.53	Tr		«5		
		other times the matrix is left only slightly green coloured	33428	186.20	187.63	1.43	Tr		«5		
		while the larger 2 mm grains are dark green, and the matrix	33429	187.63	189.11	1.48	Tr		«5		
		is less reactive to HCL and the larger grains do not react	33430	189.11	190.81	1.7	1%		«5		
		to HCL at all, suggesting the whiter matrix to be uncondusive									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 8 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au Ppb	Vérif.	
		to chloritization, slightly condusive to dolomitization and									
		probably very siliceous, while the large grains are only	33431	190.81	192.52	1.71	2%		130		
		condusive to chloritization in these localized areas.	33432	192.52	194.21	1.69	Tr		«5		
		Since in some areas the large (2mm) grains are chloritized and	33433	194.21	195.90	1.69	2%		«5		
		in other areas they are not, and in some places the chlorite	33434	195.90	197.45	1.55	1%		5		
		is prevasive in everything, we have primary chloritic siltsones-	33435	197.45	199.89	*2.44	3%		230	*(1.5)	
		mudstones and secondary chloritization.	33436	199.89	200.30	0.41	5%		545		
		In the grey and yellow unchloritic beds the larger grains are	33437	200.30	201.11	0.81	7%		945		
		only slightly different coloured than the matrix.	33438	201.11	202.77	1.66	2%		65		
		The beds with the layer 2mm grains are generally «5 cm wide.	33439	202.77	204.35	1.58	4%		625		
		Although there are exceptions, sometimes bedding displays soft	33440	204.35	205.28	0.93	2%		450		
		sediment deformation (i.e. slumping 167.52).									
		There are several qtz feldspar porphory intrusive in this unit.									
		Pyrite varies from 1%- 5% fine to medium grained.									
		(4mm- 5mm grain size) disseminated and in bands.									
		Millimetric- centimetric and only oriented qtz veins									
		2-3% grey + white qtz with some $CaCO_3$ alteration.									
		Also along these veins there is often several microfaults of the									
		bedding on either side of the vein, often causing minor breccia-									
		ted zones (« 5 cm long), also ptygmatic folding of millimetric									
		grey veins is seen.									
		165.19- 169.08 grey beige fine dolomitic sediments hard									
		1- 2% pyrite, bedding at 40° to the C.A., shows conchoidal									
		fractures- very siliceous									

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MINES AGNICO EAGLE LTÉE

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No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 9 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au.	Vérif.	
		169.08- 172.07 dolomitic, fuschitic fine sediment yellow							ppb		
		(«5 mm spots)									
		10% fuschite as alteration of larger grains and on fractures,									
		moderately preserved bedding at 45° to the C.A., 2% pyrite									
		disseminated and with the fuschite, fine toned grained pyrite,									
		also with minor qtz veins.									
		172.07- 183.32: beige grey to light green dolomitic fine sedi-									
		ments with coarser beds- very hard, strong silicic content,									
		shows conchoidal fracture when split.									
		A mottled green chloritic alteration which is selective to only									
		some minerals given the mottled non prevasive colouration									
		Also near qtz veins what used to be chloritic has been bleached									
		to a yellow white, while along some smaller fracture veins,									
		the opposite has happened, the area nearest the vein has remai-									
		ned green while the surrounding rock has become white.									
		181.34- 48 shows qtz-carbonate ($CaC0_3$) veins (millimetric)									
		faulty due to faults parallel to the C.A.									
		181.72- 183.32 shows a number of grey qtz- $CaC0_3$ veins with									
		pyrite brecciating the surrounding rock and intersecting the									
		C.A. at random angles.									
		Bedding is not well preserved in the last 5 m of core but at									
		176m, it is at 32° to C.A.									
		1- 3% pyrite («1mm, very fine to medium fine)									
		183.32- 190.81, 191.89- 192.27, 192.52- 195.47, 195.90- 197.45									

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DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au Ppb	Vérif.	
		Chloritic- dolomitic fine to medium grained silicic sediments									
		Dark to light green, selective chloritization of larger grains									
		(2- 3mm) and selective alteration of some beds.									
		Almost porphyritic in appearance but the porphiry like grains									
		are just grains which either were or were not chloritized,									
		also bleaching on the edges of Q.F.P. intrusive.									
		1% disseminated pyrite and up to 2% at QFP contacts									
		Same structure as seen elsewhere + minor veining									
		Bedding at 193 m is at 35° to the C.A.									
		190.81- 191.89, 192.27- 192.52, 195.47- 195.90, 201.11- 202.77,									
		200.45- 200.59									
		Quarty feldspar porphiries									
		Grey beige- coarse grained; feldspar- plagioclase. 45% pheno-									
		crysts (euhedral « 1cm, average 5 mm)									
		Quarty phenocrysts- round- angular 10% (« 2cm, average 1 cm)									
		Sericitization of the matrix and feldspar grain boundaries									
		Some dolomitic carbonate in the matrix. Sharp contacts with									
		the sediments, often with a pyrite concentration in the sedi-									
		ments at the contact usually at the dip of the bedding.									
		Only in the first and last porphiry listed are the feldspars									
		visible. In the other two they are not seen but I suspect they									
		have been sericitized. 2% fine disseminated pyrite									
		203.17- 203.55, 204.35- 204.91, 204.95- 205.10, 205.18- 205.28									
		Quartz- K-feldspar porphiry									

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Date: March 24, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		White- orange; 30% K-spar phenocrysts (euhedral « 2cm, average									
		1 cm); 20% quarty vein- white grey; some sericitization of the									
		feldspar; 1-2% pyrite disseminated + concentrations in sedi-									
		ments at contacts.									
		197.45- 205.28 fine dolomitic siliceous sediments- yellow colour.									
		Intersected by QFP's and qtz veins (decimetric).									
		As in 172.07- 183.32, but without any chloritic selective alte-									
		ration.									
		5- 6% fine disseminated pyrite, often in bands (latter pyrite)									
		not in qtz veins, in concentrations at QFP contacts.									
		At 200.30 bedding at 50° to C.A.									
205.28	212.39	Fragmental dolomitized porphirytic tuff	33441	205.28	206.71	1.43	3%		290		
		dark green, fine grained. 15% white («1mm) porphiries evenly	33442	206.71	208.76	1.45	3%		20		
		distributed; strongly dolomitic. 5%- 10% angular dolomitic	33443	208.16	209.45	1.29	3%		110		
		grey sediment (from above) fragments (« 3cm, average 1.5 cm)	33444	209.45	211.31	1.86	3%		10		
		5% - 20% quarty shards, often with pyritic inclusive	33445	211.31	212.39	1.08	2%		35		
		(Qtz shards « 5mm, average 2 mm) Very angular.									
		205.28- 205.75- no chlorite- silicified with 20% qty shards,									
		while the rest up till 211.31 has «5% qty shards and «5%									
		fragments of dolomitic grey sediment fragments.									
		The rock is a little bit soft due to the chlorite content									
		and more or less massive homogeneous.									
		Qty veins are very thin («5mm) and often have bleached contacts									

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		in the chlorite rock and sometimes pyrite contacts over 1 cm								
		on each side of the vein in the wall rock (i.e. 209.15- 209.20)								
		Pyrite is fine («1mm) and evenly disseminated at 1- 5%								
		211.31- 212.39 sericitic- dolomitized qtz fragmental :								
		yellow (light), fine grained matrix; sericitic matrix- soft;								
		25% qty and cherty sediments (from above) fragments («2cm,								
		average 1 cm) grey and elongated parallel to the foliation.								
		5% qty eyes («1mm) (possibly qtz shards); 1% fine disseminated								
		pyrite; thin grey (millimetric) quartz veins; foliation is								
		penetrative through quartz veining (foliations after qty								
		veining); foliation is at 38° to C.A.								
212.39	222.12	Dolomitized cherty fine sediments (fine mudstone- siltstone);	33446	212.39	213.86	1.47	1%		125	
		dark grey; very fine grained; 15% qty veins white and pink	33447	213.86	215.35	1.49	«1%		25	
		(hematized)	33448	215.35	217.07	1.72	1%		65	
		217.07- 218.12 hematized pink quarty vein with millimetric	33449	217.07	218.60	1.53	1%		95	
		dolomitic vein within it. (also 219.09- 219.23 and several	33450	218.60	220.45	1.85	5%		780	
		other small ones) 2% pyrite in the hematite veins disseminated.	33451	220.45	222.12	1.67	6%		.026	1075
		5% grey millimetric qty veins intersecting everywhere at many								
		different angles causing crackled brecciation and dolomitic								
		rich fractures around the breccia clasts (4cm) which are only								
		visible when reacting with concentrated HCL								
		218.12- 18.50- more intense brecciation caused by white quarty								
		Fe $CaCO_3$ vein, causing 2- 4 cm angular breccia fragments.								

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DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		Before 218.50 the rock is fairly massive homogeneous 1% pyrite									
		(fine- diss)									
		218.50- 222.12: dolomitic fragmental as above with 60% fragments									
		of the same rock and 20% fragments from the dolomitized sediments									
		up section									
		Grey in colour, fine grained matrix									
		Fragments 1- 3 cm- angular- matrix supported- dolomite- silica									
		matrix									
		6% disseminated pyrite - fine to medium grained- in fragments									
		+ matrix (latter pyrite)									
		1- 2% quartz shards- angular (« 2mm)									
		Bedding/ foliation at 27° to the C.A. at 219.50									
		2- 3% millimetric grey qty vein									
		10% white and hematitic qtz veins 30- 50° to C.A.									
		0.5- 10 cm wide- Tr- 2% pyrite									
222.12	241.60	Felsic sericitic qtz eyed fragmental (? debris flow?) yellow grey	33452	222.12	223.55	1.43	10%		.080	2730	
		fine grained matrix	33453	223.53	224.93	1.4	10%		.060	2040	
		50- 60% clasts for most of the unit (thinning northward loosing	33454	224.93	226.38	1.45	8%		710		
		clasts). Clasts are 5mm- 4 cm, (average 2 cm) elongated parallel	33455	226.38	227.74	1.36	5%		610		
		to the foliation- angular and silicic, although at first the	33456	227.74	229.26	1.52	4%		650		
		clasts are much larger and less sorted but then they fine north-	33457	229.26	230.44	1.18	3%		365		
		ward. Clasts vary in type, in colour, various shades of green,									
		yellow and grey. Most clasts appear to be from up section									

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		and the dolomitic sediments (165.19- 205.28) as they react to								
		concentrated HCL vigorously	33458	230.44	231.99	1.55	2%		100	
		Others are very hard fine grained felsic clasts. Some clasts	33459	231.99	233.53	1.54	3%		240	
		have qty eyes in them as the rock matrix does suggesting they	33460	233.53	234.31	0.78	1%		25	
		are latter; and some are amygdulas. 15% qtz eyes (« 5mm, avera-	33461	234.31	235.45	1.14	1%		5	
		ge 3 mm) round, grey and often have pyrite inclusions (pyrite +	33462	235.41	236.76	1.35	Tr		«5	
		qtz eyes at some time)	33463	236.76	238.25	1.49	Tr		«5	
		Pyrite is also found both in qtz eyes, clasts and matrix	33464	238.25	239.73	1.48	3%		.032	1065
		suggesting very late in the history of the rock	33465	239.73	240.70	0.97	Tr		70	
		The matrix is somewhat sericitic and dolomitic, and clasts are	33466	240.70	241.60	0.90	Tr		25	
		clast supported in some places and almost in others								
		The dolomitic matrix has sericitic seams which run around the								
		clasts.								
		Quarty veining and hematitic qty rich intrusions were the last								
		as they don't have much pyrite in them.								
		227.06- 227.42; 230.44- 230.91: hematitic- qty rich intrusives								
		orange in colour with spots of sericite perhaps from altered								
		feldspar								
		The hematitic dykes have white qty veins intruding them								
		(centimetric).								
		There are other minor unmineralized white qty veins (centimetric)								
		Foliation is at 30° to C.A. at 226 m. and 45° to C.A. at								
		236 m and 45° at 241 m.								
		234.31- 236.76: hematized section of the								

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DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		fragmental except for some of the felsic clasts.									
		236.76- 241.60: finer clasts « 2cm and getting smaller and									
		more qty in the matrix.									
		1- 10% pyrite- fine medium fine in clasts qty eyes and concen-									
		trated bands (i.e. 238.25- 238.47 15% py)- lose pyrite north-									
		ward as sequence fines									
241.60	246.38	Silicified sericitic rhyolitic qtz eyes tuff: yellow- grey									
		yellow, fine grained- med. grained. 15- 20% grey round quarty									
		eyes («3mm, average 1mm). 2% white feldspar porphiries- euhedral									
		subhedral (« 2mm); strongly silicified, but the texture and									
		colour suggests previous sericitization.									
		5% felsic fragments- angular and stretched out parallel to folia-									
		tion (« 2 cm, average « 1cm); some are round. Qty eyes are									
		prevasive throughout clasts and matrix . There is also a pre-									
		sence of qty shards, which are angular (« 2mm)									
		Some of the qty eyes show intent brecciation									
		Minor Fe-carbonate (dolomite) in matrix									
		Quarty veins are grey with white $FeC0_3$ edges and centimetric									
		(« 2cm) with no regular orientation.									
		Foliation is at 35° to the C.A.									
		No visible pyrite a trace of fuschite.									
246.38	250.5	Porphyritic felsic chloritized tuff									
		dark green colour with off white porphiries									

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.	
		Fine to medium grained									
		White to off white feldspar porphiries 15- 20% (« 2mm).									
		Most do not show their euhedral shape as they have lost it due									
		to sericitization of the feldspars, but many of them show the									
		typical lath like shape									
		After 247.50, there are 5% qty eyes as well and 10% felsic									
		rock fragments (« 2cm), average « 1cm) angular- to rounded									
		Also after 247.50, the rock shows laminations of tuff horizon									
		and it shows the feldspars porphiries and qty eyes to be much									
		latter as they overprint the fragments and laminations.									
		There is a spot where the chloritic content disappears for									
		10 cm and the rock is K-spar rich (orange) and has many									
		qty eyes (250.26- 250.35)									
		Chloritic alteration is strong as the rock is not as hard as									
		it should before its felsic composition.									
		Miner qtz-Ferro dolomite veins (white carbonate borders the									
		vein of grey qty)									
		Trace pyrite; foliation is at 33° to the C.A.									
250.5	263.68	Qtz eyed felsic fragmental tuff	33467	252.22	255.18	2.96	Tr		«5		
		Yellow white, black green, beige pink	33468	255.18	258.11	2.93	Tr		«5		
		Fine grained	33469	258.11	259.58	1.47	«1%		60		
		15% quarty eyes- round («3mm, average 2 mm) grey	33470	259.58	261.28	1.7	1%		5		
		5% feldspar porphiries- euhedral («2mm) grey white	33471	261.28	263.68	2.4	1%		85		

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DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ~~Ppb~~	Vérif.	
		Several sub units which differ due to clastic content chloritic									
		alteration and carbonate content.									
		250.5- 252.22: qty eyed K-feldspar rich felsic tuff									
		Pink grey, fine medium grained, minor $FeCaC0_3$ in matrix									
		«3% felsic clasts (white grey and pink grey) round to angular									
		(« 2cm) and chloritic felsic clasts (« 2cm)									
		15% qty eyes prevasive clasts matrix- grey (« 3mm)									
		Granular texture, foliation poor, minor thin qty- carbonate									
		veins									
		trace to 1% disseminated fine pyrite									
		252.22- 258.11, 259.58- 263.68: chloritized felsic- dolomitized-									
		qtz eyed fragmental tuff									
		dark green; fine- medium grained									
		15% quarty eyes- round («3mm)									
		15- 20% fragments, felsic dolomitic fragments, chloritic fragments									
		feldspar fragments (sometimes euhedral) and all are elongated									
		parallel to foliation (« 2cm, average 1 cm)									
		Dolomitic matrix alteration on top of the chloritic alteration									
		Gradual contacts									
		Chloritic stringers running along foliation									
		Foliation is at 45° to the C.A.									
		Sericitization of the feldspar porphiries and fragments									
		1% pyrite									

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		Sometimes around qty- carbonate veins (millimetric) there is a								
		concentration of pyrite (i.e. 216.78)								
		258.11- 259.58: felsic qty eyed tuff								
		Yellow grey, fine grained. Minor 1- 2% fragments of dolomitic								
		sericitic sediments. 15% qtz eyes (« 3mm) round								
		Dolomitic alteration of the matrix around the quarty eyes								
		fairly massive with poor foliation at 30° to the C.A.; «1% pyrite								
263.68	352.30	Quartz eyed rhyolitic tuff: grey light yellow (whitish); 15-25%								
		grey round qty eyes (« 3mm); minor fragments throughout 1%								
		(«2 cm, average « 1cm)								
		Chloritic, silicic, feldspathic								
		Sericitic- chloritic seams along foliation								
		Quarty FeC0, veining and quarty veining (white + grey)								
		Centimetric- decimetric, trace pyrite								
		Sericitization of feldspars, which are sometimes porphirytic								
		up to 10% (« 2mm)								
		Various sub units of chloritized rock, graphitic felsic tuff								
		and clastic felsic tuff								
		Foliation is moderately well developed at 20° at 280 m								
		22° at 298m, 33° at 314 m, 40° at 333 m, 35° to C.A. at 350 m								
		Often there are elongated clasts of black shade or silicated								
		block chloritic rock stretched out 2 cm by 2mm.								

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			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
		283- 289.22: chloritized, coarse, qty eyed felsic tuff- light									
		green									
		15% feldspar porphiries (fragments) («3mm, average 1mm)									
		15% qtz eyes («3mm, average 2mm)									
		Feldspar, qty shards- angular anhedral									
		Chloritic matrix surrounding the majority felsic grains									
		Very granular									
		Chloritic (black + green) clasts « lcm long + stringy 5%									
		Felsic clasts (« lcm) with qty eyes- sub angular elongated									
		parallel to foliation									
		295.65- 297.87: compositionally banded chloritic felsic tuff and	33472	307.43	308.87	1.44	«1%		«5		
		the previously described felsic (white grey yellow) tuff	33473	308.87	310.28	1.41	«1%		«5		
		307.43- 313.74: chloritic fragmental felsic qtz eyed tuff	33474	310.28	311.80	1.52	«1%		«5		
		10% chloritic clasts- angular- elongated in direction of	33475	311.80	313.74	1.94	«1%		«5		
		foliation (2mm- 2cm, average « lcm)- soft									
		15% qtz eyes («3mm, average 2mm) round									
		slight chloritic content to matrix- light green rock									
		1% pyrite disseminated and in very minor qty veins									
		3% sericite clasts - («2cm, average « lcm) angular									
		mainly in less chlorite zones near contacts.									
		321.48- 323.90, 327.01- 331.76, 346.54- 347.42, 347.62- 348.21,									
		351.37- 351.82									
		Graphitic qtz eyed rhyolitic tuff									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 20 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 24, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.
		Black dark grey, strongly dolomitic								
		Strong graphitic content in with the felsic matrix								
		25% qtz eyes, («4mm, average 2mm)- with dolomitic alteration								
		veins making the qty eyes up to 5 mm- white veins around the								
		grey qty eyes								
		Sometimes banded graphitic/non graphitic								
		Some epidote clasts are seen- rare («1% i.e. 342.80)								
		Small iron carbonate content in matrix								
		Very few qty veins								
352.30	390.84	Felsic qty eyed fragmental tuff. Sericitized slightly (debris	33476	352.30	353.71	1.41	1%		«5	
		flow?)	33477	353.71	355.16	1.45	«1%		«5	
		Light grey yellow, fine grained matrix	33478	355.16	356.55	1.39	Tr		«5	
		2- 15% qty eyes- grey («3mm, average 1mm)	33479	356.50	358.03	1.53	Tr		«5	
		15- 20% clasts (fragments) of several different types	33480	358.03	359.22	1.19	-		«5	
		1- cherty sediments clasts (grey) (« 3cm, average 1.5 cm)-	33481	359.22	360.68	1.46	-		«5	
		round (most commonly) to sub-angular- often elongated parallel	33482	360.68	362.01	1.33	-		«5	
		to foliation- increasing at end of unit in concentration	33483	362.01	363.30	1.29	Tr		«5	
		2- Felsic volcanic clasts with qtz eyes, and qty shards	33484	363.30	364.94	1.64	1%		45	
		(«3cm, average 1 cm) (yellow)								
		3- silicified sericitic fine sediment clasts, (« 2cm, average								
		1cm) (yellow)								
		4- Pyrite- quarty fragments- grey qtz with granular pyrite in								
		anhedral clumps (« 2cm, average 5 mm) (grey)								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ | _____ | _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ | _____ | _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ | _____ | _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 21 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 24, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.
		5- felsic clasts with a green colouration- minor (« 2cm, average								
		5 mm)	33485	364.94	366.43	1.49	Tr		«5	
		Chlorite, sericite and green mica (bright green) seams running	33486	366.43	367.90	1.47	1%		«5	
		along foliation and around clasts	33487	367.90	369.32	1.42	1%		«5	
		Feldspar grains 3- 5% (« 1cm, average 3mm) enhedral laths to	33488	369.32	370.80	1.48	2%		10	
		anhedral; some sections have a higher concentration of qty eyes	33489	370.80	372.22	1.42	1%		160	
		and feldspar grains. Dolomitic content is moderate to strong	33490	372.22	373.72	1.5	1%		«5	
		in the matrix between clasts and in some of the fine sediment	33491	373.72	375.13	1.41	4%		«5	
		clasts. Some clasts are 1-2 cm wide and longer than the core	33492	375.13	376.58	1.45	Tr		«5	
		is wide. Silica, dolomite, sericite matrix. 1-2% pyrite,	33493	376.58	378.0	1.42	4%		5	
		fine euhedral grains (4mm) in amorphous lumps and in qty (cherty)	33494	378.0	379.50	1.5	1%		«5	
		clasts + pyrite clasts and disseminated finely. Quarty veining	33495	379.50	380.87	1.37	4%		«5	
		with $FeCO_3$ veins is minor but often has a higher pyrite concen-	33496	380.87	382.22	1.35	Tr		20	
		tration around them (i.e. 370.32- 370.35, 371.11- 371.17) veins	33497	382.22	383.60	1.38	1%		«5	
		are parallel to foliation or at 10° to C.A. at 371 m	33498	383.60	385.21	1.61	1%		«5	
		Foliation is well developed at 164 m 30° to C.A.	33499	385.21	386.62	1.41	1%		125	
		383 m 35° to C.A., 390 m 43° to C.A.	33500	386.62	388.29	1.67	2%		«5	
		359.22- 363.30: sericitic felsic tuff fine grained	31951	388.29	389.69	1.4	1%		«5	
		very few clasts «1%, 5% qty eyes (« 2mm) grey	31952	389.69	390.84	1.15	Tr		«5	
		qty (grey) bands of sericitic bands (millimetric banding)								
		352.30- 359.22 25% qtz eyes in felsic fragmental tuff								
		In most places the matrix supports clasts, clasts are poorly								
		sorted in size- i.e. debris flow								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 22 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. Ppb	Vérif.	
390.84	397.38	Dolomitic fragmental tuff (sediment)									
		dark grey, clastic, 2% grey round qty eyes	31953	390.84	392.38	1.54	2%		«5		
		clasts are of two types (1) grey siliceous fine grained	31954	392.38	394.07	1.69	2%		65		
		Fe-carbonate (2mm- 2cm , average 1 cm)- most are this type (80%)	31955	394.01	395.43	1.42	«1%		10		
		(2) white and yellow felsic volcanic with qty eyes (2mm-2cm,	31956	395.43	396.28	0.85	«1%		75		
		average 1 cm) 20%	31957	396.28	397.38	1.1	«1%		60		
		Matrix is a graphitic $FeCO_3$ mix (i.e. clastic argillite)- clast									
		supported clasts 90% clasts									
		Quartz veining and quarty veining with thin iron dolomite rims									
		are found (i.e. 193.68)									
		The vein at 193.68 m is 1 cm wide at 40° to C.A. (cutting the									
		foliation by 10°, with a double fold with the fold axis dipping									
		with the foliation at 50° to the C.A.									
		There is an S_2 lineation running down the foliation surface									
		seen by small ridges in the foliation plane.									
		A larger quarty iron dolomite vein at 197.12- 197.31 (2cm wide)									
		running 70° - 0° to the C.A.- relatively steep vein set									
		These veins often show pyritic concentrations near them									
		Foliation is at 50° to the C.A. at 395 m and fairly fissile									
		along foliation.									
		1-2% pyrite, fine euhedral disseminated pyrite and fine euhedral									
		clumps in clasts.									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 23 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif. Ag
397.38	400.55	Dolomitic sediments (Telbel's dacitic sediments) Mineralized								
		dark grey - blocky fine grained (cherty)	31958	397.38	398.48	1.1	5%		350	1.0
		Very strongly dolomitized ($FeC0_3$)	31959	398.48	399.20	0.72	45%		585	
		Well laminated fine sediments	31960	399.20	399.86	0.66	25%	.092	3050	
		Hard core, very silicic, silicified chert like -	31961	399.86	400.55	0.69	20%	.034	1030	0.9
		Some centimetric- millimetric coarse beds, often with very fine								
		pyrite present disseminated in these bands								
		Bedding well preserved at 45° to the C.A.								
		Many small grey and white qty veins as well as several larger								
		qty $FeC0_3$ veins (i.e. 397.51- 397.54, 397.80- 397.81, 398.51-								
		398.67, 399.76- 399.21, etc.) dipping at 25° to C.A., at 45°								
		to C.A., 60° to C.A. and with small scale folds with axes								
		plunging along bedding. 40% pyrite both fine euhedral pyrite								
		and nodular amorphous pyrite (mostly nodular)								
		397.38- 398.48 1/2 of the pyrite is fine euhedral pyrite in								
		bands. 139.48- 400.55: mostly nodular pyrite with concentration								
		around qtz- dolomite veins								
		139.48- 400.55: massive to semi massive pyrite with fine euhe-								
		dral pyrite rims around the amorphous nodular pyrite.								
400.55	404.91	Graphitic- dolomitized banded argillite	31962	400.55	401.88	1.33	5%		60	
		fine grained, black dark grey colour; banded, centimetric	31963	401.88	403.68	1.80	5%		60	
		graphitic silicified bands and centimetric dolomitic silicified								
		bands.								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-9

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 24 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 25, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. Ppb	Vérif.
		The dolomitic silicified bands often have fragments («5mm,								
		average 2mm) of silicic rock which is also dolomitized								
		5% pyrite- nodular amorphous pyrite which is often slightly								
		brecciated as well as fine (1- 2mm) euhedral disseminated								
		pyrite by itself and with the amorphous pyrite								
		Bedding is at 34° to the C.A. at 401.50 and 50° to C.A. at 403 m								
		S, foliation is seen on the bedding surfaces and is prevasive								
		but not really strong. Small grey qty veins are present and are								
		often showing ptygmatic folding, veining striking 50° to the C.A								
		403.68- 404.91: soft and silicified unlaminated graphitic frag-								
		mented with 10% white grey felsic angular- sub rounded (« 1cm)								
		fragments- no pyrite								
404.91	407.62	Grey unconsolidated clay- probably a large fault gauge.								
		soft, clay feel, very fine grained come out of drill core								
		barrel like pea soup								
	407.62	End of hole								

LE C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-10

Feuille No 0 de

Projet : Valrennes A
Claim : 371329-3
Canton : Valrennes
Rang :
Lot :
N.T.S. :

Ligne : L3+00E
Section : 0+50N
Lat. :
Elévation Orifice:
Azimut: 030° N
Niveau: Surface

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :

Commencé le : March 12, 1988
Terminé le : March 18, 1988
Entrepreneur : Forages Diamex Ltée.

Couronne AX: EX: AQ: BQ

De à
Profondeur totale: 243.60

Journal: D.W. Christie
Date: April 7, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au.	Vérif.
		INCLINATION TESTS								
		DEPTH TEST TYPE READING								
		0 030°/-55°								
		60.98 m (200') Acid -53°								
		121.96 m (400') Acid -40°								
		182.93 m (600') Acid -38.5°								
		236.89 m (777') Acid -36.5°								
		236.89 m (777') Tropari- bad reading 49.7/-36.5°								
		SUMMARY LOG								
		After 20.12 m of overburden fine-medium interbedded sediments								
		(1- 2% pyrite) were intersected to 138.16. Then to 142.68, an								
		interbedded graphitic silicified argillite and dolomitized me-								
		dium grained sediments. Then to 143.58, a white qty vein with								
		graphitic pyrite and chloritic fracture seams. (2% pyrite).								
		An intersection of silicified graphitic tuff (tr. pyrite)								
		up to 145.67 m. Then a graphitic-chloritic-sericitic felsic								
		granular tuff (3% pyrite) followed by a graphitic tuff with								
		nodular pyrite & marcasite (15%) from 146.48- 148.70. A quartz								
		feldspar porphyry-silicified intrudes from 148.70- 154.80								
		(2- 3% pyrite). Then up to 155.43, a silicified-dolomitized								
		graphitic-fuschitic tuff (7% pyrite) is intersected. Then up								
		to 222.70 a series of quartz-feldspar silicified porphyries								
		(3- 5% pyrite)								

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-10

Feuille No 1 de

De à

Profondeur totale:

Projet : Valrennes A | Ligne : L3+00E | Ord. : | Profondeur : 0

Claim : | Section : 0+50N | Ord. : | Plongée : -55°

Canton : Valrennes | Lat. : | Long. : | Azimut : 030°

Rang : | Elévation Orifice: | Commencé le : March 12, 1988

Lot : | Azimut: 030° N | Terminé le : March 18, 1988

N.T.S. : | Niveau: | Entrepreneur : Forages Diamex Ltée.

Couronne AX: EX: AQ: BQ

Journal: D.W. Christie

Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au ppb	Vérif	
		intrudes silicified fuschitic dolomitized ultramafic volcanics									
		(1- 2% pyrite). The hole ends in talcose ultramafic with trace									
		pyrite.									
0	20.12	Overburden (casing removed)									
20.12	138.16	Fine-medium grained interbedded sediments	31964	32.62	33.61	0.99	1%		15		
		Light grey black, fine to medium grained; interbedded black	31965	33.61	35.12	1.51	1%		15		
		argillite, light grey arkosic sandstone, lithic graywacke,	31966	35.12	36.51	1.39	1%		20		
		siltstone & cherty siltstone and fragmental graywacke.	31967	60.41	61.87	1.46	1%		5		
		Bedding is millimetric to decimetric. 40% is black fine graphi-	31968	61.87	63.19	1.32	1%		10		
		tic argillite. Graywackes and sandstones making up the majority	31969	63.19	64.69	1.5	2%		5		
		of the rest of the unit (1/2 each) with minor siltstones and	31970	64.69	66.16	1.47	1%		5		
		cherts. $CaCO_3$ present as small veins of quartz carbonate	31971	71.50	73.21	1.71	«1%		10		
		which cut bedding at various angles. White $FeCO_3$ is present	31972	76.04	77.48	1.44	2%		5		
		as carbonate in the lighter coloured coarse beds of graywacke	31973	84.40	85.26	0.86	2%		«5		
		and sandstone, as opposed to the argillite and sandstone which	31974	96.65	99.70	3.05	2%		5		
		have no $FeCO_3$ in the matrix.	31975	113.49	114.94	1.45	2%		«5		
		Pyrite is present in trace to 2% spotty, localized areas as									
		disseminated medium coarse pyrite (1mm- 1cm) euhedral cubes in									
		all types of sediments. The argillites are very fine grained,									
		strongly laminated with intervening sandstones, siltstones or									
		graywackes. They are for the most part soft in comparison with									
		the more silica rich sandstones and graywackes which are hard.									

LF C-4782

MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-10

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ _____ _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ _____ _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ _____ _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 2 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		Sandstones are grey in colour, equigranular, qtz rich (1- 2 mm grains) with an iron carbonate matrix between grains (cementing- carbonate) . Graywackes and arkosic sandstones are very similar except graywackes have rock fragments and sometimes have so many clasts they could be called a fragmental or a lithic coarse graywacke (i.e. 83.40- 84.60, 49.72- 50.70, 88.92- 89.81). 71.50- 85.26: a graded sub-unit which grades back and forth from sandstones to graywacke, but overall is a lithic graywacke- med. grain size (also 20.12- 23.29) grey colour. 5- 10% rock fragments and clasts- concentrated in. Argillite fragments which range from 2mm- 3cm and are very angular- to sub-rounded rock fragments from 83.40- 84.60- but seen everywhere. The surrounding rocks- black colour- often elongated parallel to bedding: white and grey cherty qty clasts 2mm- 2 cm. Sub-rounded to well rounded. 2% disseminated pyrite: 2- 10mm euhedral grains and fine grained amorphous clumps (« 1cm) Soft sediment deformation textures (i.e. slumpy, sediment flames, faulting, micro folding) are prevalent throughout the unit. Slumping (i.e. 33.61- 34.36, 69.25- 71.50) Sediment flaming (i.e. 54.21). Micro folding (i.e. 36.21, 102.74- 106.84). Micro faulting (102.24- 106.84) Very often bedding is boudinaged into isolated blocks (centimetric- millimetric). Hematite staining at 46.37- 46.46									

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-10

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif
		Bedding is fairly well preserved at 36 m at 40° to C.A.								
		At 54 m 40° to C.A., at 69 m, 60° to C.A., at 88 m at 50° to								
		C.A., at 98 m 50° to C.A., at 118 m, 60° to C.A., at 138 m								
		65° to C.A.- bedding is very well laminated.								
		S_2 millimetric $CaCO_3$ foliation veining which causes faulting								
		is not prevalent everywhere but the second half of the unit								
		shows it well.								
		Depth S_2 vein («1mm) foliation (faulting) S_2 (bedding)								
		103 m 55° to C.A. 11° to C.A.								
		122 m 65° to C.A. 45° to C.A.								
		131 m 70° to C.A. 15° to C.A.								
		This S_2 foliation causes severe contortions in bedding as can								
		be seen in the angles of the bedding where the S_2 lineation								
		is prevalent. Also 5mm- 1cm qtz-$CaCO_3$ veinlet 97m 50° to C.A.								
		100m 50° to C.A., 119 50° to C.A., 45° to C.A. at 126 m, gene-								
		rally intersects bedding at an 80° angle cross-cutting.								
138.16	142.68	Interbedded graphitic silicified argillite and dolomitized	31976	138.16	139.60	1.44	2%		25	
		medium grained sediments. Black and light green grey.	31977	139.60	140.96	1.36	2%		75	
		The first 3 m show 5% well rounded grey clasts of chert («1cm)	31978	140.96	142.68	1.72	3%		295	
		mostly in the black argillite beds.								
		Black argillite beds are very fn. grained with the chert clasts								

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MINES AGNICO EAGLE LTÉE

JOURNAL DE SONDAGES

No 88-A-10

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne

Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:

Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:

Rang : _____ Elévation Orifice: _____ Commencé le : _____

Lot : _____ Azimut: _____ Terminé le : _____

N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de _____

De _____ à _____

Profondeur totale: _____

Journal: D.W. Christie

Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		While the coarser sediments (sandstone- graywacke- dolomitized)									
		are dolomitic medium grained (« 2mm) have a little graphite in									
		the matrix as well as the dolomite (Ferro-dolomite), these									
		best are most often boudinaged or tectonically sliced by the									
		finer sediments due to the coarser make up being more easily									
		penetrated. These beds also show thin hematized bands (2%)									
		(i.e. 140.16- 140.19). These beds show some felsic clasts-									
		also dolomitized (« 4mm). Before 140.86, the black argillite									
		is more prominent after 140.86. The dolomitized coarser sedi-									
		ments are more prominent. These several sets of millimetric									
		qty-$CaCO_3$ veins, one set has a consistent orientation of 35° to									
		the C.A.- some show ptygmatic folding . Bedding is well preser-									
		ved at 75° to the C.A. at 140.50. The coarser sediments become									
		greener after 140.86, probably fuschite content.									
		2- 3% disseminated pyrite (1- 2mm) euhedral grains. Some large									
		qty veining has caused brecciation of the argillite bedding									
		(i.e. 140.97- 141.36). This vein has ferro dolomite grains									
		on the outside of the vein and around the edge of the brecciated									
		fragments.									
		Very fissile along bedding planes.									
142.68	143.58	White qty vein with graphite, pyritic or chloritic fracture	31979	142.68	143.58	0.9	2%		270		

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Journal: D.W. Christie

Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au.	Vérif.	
									ppb		
		seams. 2% pyrite; some $FeCO_3$ - (ferro dolomite grains). Some									
		cherty sediment fragments. $CaCO_3$ on fractures.									
143.58	145.67	Silicified graphitic tuff. Black very fine grained; hard.	31980	143.58	145.67	2.09	Tr		260		
		Many millimetric white qty veins running through it and white									
		grey millimetric bands. Foliation is moderately developed at									
		55° to the C.A. $CaCO_3$ on fractures. 144.14- 144.66: soft									
		strongly graphitic tuff fragmental (1mm- 1cm) 5% qty fragments									
		mixed in with the graphitic powder and metallic lustre graphitic									
		flakes.									
145.67	146.48	Graphitic- chlorite- sericite- felsic granular tuff.	31981	145.67	146.48	0.81	3%		20		
		Green yellow dark grey. Medium grained («2mm) soft. Moderately									
		schistose. Moderately dolomitized. Graphite & chlorite, strin-									
		gers running parallel to foliation. Feldspar and qty grains									
		are visible (« 2mm) in the lighter coloured bands. Many qty-									
		iron carbonate veins run through this section (20%) millimetric-									
		centimetric.									
		2- 3% fine euhedral pyrite- medium grained (« 3mm) euhedral &									
		amorphous clumps.									
		A moderate sericitization in the lighter coloured qtz-feldspar									
		rich bands. Foliation is moderately schistose at 40° to the C.A									
		with contortions caused by the veining which has no prevalent									
		orientation, often parallel to foliation.									
146.48	148.70	Graphitic tuff with nodular pyrite and marcasite	31982	146.48	148.70	2.22	25%		325		

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Journal: D.W. Christie

Date: March 26, 1988

DE	À	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	À	Long.	% Py est.	% po. est.	Au. ppb	Vérif.	
		Black; moderately hard; some silicification of the graphite.									
		10% qtz (chert) fragments, often elongated (« 1cm).									
		10- 15% nodular amorphous pyrite and radial growth nodules of									
		marcasite (« 3cm, ave. 1.5 cm). The pyrite + marcasite nodules									
		usually have qty halos or pressure shadows as they all have									
		the qty in a tear drop pattern on one side.									
		There is poor foliation at 60° to the C.A.									
148.70	154.80	Quartz- feldspar porphyry- silicified. Beige grey, coarse	31983	148.70	150.15	1.45	2%		95		
		grained; 45- 50° feldspar, probably most is a sodic plagioclase	31984	150.15	151.60	1.45	2%		140		
		(slightly green). The feldspars are lath shaped but have foggy	31985	151.60	153.03	1.43	2%		190		
		grain boundaries due to silicification, (« 1cm, ave. 3mm). The	31986	153.03	154.80	1.77	2%		90		
		qty is a brown grey colour with the light green and grey felds-									
		par porphyries. Some feldspars being altered to sericite, but									
		the process is very early in the alteration process.									
		3% white qty veins (« 2cm) barren at no constant angle.									
		These veins have some white feldspar crystals in them at times.									
		2- 3% pyrite as fine euhedral grains (« 1mm) and very fine									
		grained amorphous clumps (« 1mm)- finely disseminated throughout									
		North contact (lower) is at 65° to C.A., south contact is at									
		45° to C.A.									
154.80	155.43	Silicified- dolomitized, graphitic-fuschitic tuff (semi minera-	31987	154.80	155.43	0.63	7%		235		
		ralized zone). Green grey, fine- medium grained- very hard.									
		Very hard- silicic, and									

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Journal: D.W. Christie

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.
		strong reaction to concentrated HCL- dolomitized. Many milli-								
		metric bands of graphite, hematite- Qtz, $FeCO_3$ crystals.								
		Qtz, pyrite, sericite, dolomitized silica, and fuschite-								
		chlorite- sericite complex- all of which have been silicified.								
		Many small white and grey qty veins (millimetric) and some								
		white qty veins with $FeCO_3$ crystals on the vein walls. (1mm-								
		1cm). Many qty veins have been boudinaged into isolated qty								
		clasts. This has happened with fuschite- sericite- dolomite								
		bands as well, where they have pinched, swelled and boudinaged.								
		$FeCO_3$ alteration of quartz (grey), where it occurs at qty								
		vein bands, parallel to foliation.								
		Foliation is at 55° to the C.A.								
		7% fine euhedral pyrite (« 1mm) in bands + disseminated.								
155.43	167.66	Dolomitized- fuschitic ultramafic volcanics	31988	155.43	157.0	1.57	1%		«5	
		Yellow, grey and bright green, medium fine grained. Remnant	31989	157.0	158.54	1.54	Tr		«5	
		ultramafic textures, stretched out varioles (i.e. variolitic	31990	158.54	160.02	1.48	Tr		«5	
		texture) powdered dust is magnetic and sometimes rock is magne-	31991	160.02	161.46	1.44	Tr		5	
		tic in black very mafic mineral bands. 10- 15% quarty- iron	31992	161.46	162.99	1.53	1%		«5	
		carbonate (dolomite) veins (« 2cm) seen everywhere in the unit	31993	162.99	164.45	1.46	1%		5	
		(i.e. 166.77- 166.83)	31994	164.45	166.04	1.59	Tr		«5	
		Slightly talcose 4 m either side of either contact. Loose	31995	166.04	167.66	1.62	1%		15	
		fuschite content as move away from QFP contacts gaining more								
		talcose alteration as well as sericitic alteration.								

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.
		Dark mineral phenocrysts often in alignment give the foliation								
		(biotite, hornblende, pyroxene) « 5mm long. There are places								
		where the rock looks hyaloclastic or an ultramafic clast								
		supported debris flow- possible then strong Qtz-$FeC0_3$ veining								
		has caused brecciations. 1-2% pyrite disseminated in amorphous								
		clumps (« 3mm). Foliation is poor to moderate at 60° to C.A.								
		at 166 m. Feldspar porphyries are sometimes visible (« 2mm)								
		Subhedral - euhedral laths.								
167.66	171.88	Quartz feldspar porphyry- silicified. Beige grey, coarse grained								
		similar to 148.70- 155.43 m. 40% sodic plagioclase feldspar	31996	167.66	169.14	1.48	3%		210	
		(green). 3% disseminated pyrite and on fracture planes (« 2mm)	31997	169.14	170.64	1.5	3%		530	
		5% white qty veins. Silicification causes foggy feldspar grain	31998	170.64	171.88	1.24	3%		265	
		boundaries. North contact at 90° to C.A., south at 55° to C.A.								
		Pyritic band at contacts.								
171.88	188.88	Silicified fuschitic, dolomitized ultramafic volcanics	31999	171.88	173.31	1.43	Tr		5	
		Medium grained, bright yellow green- similar to 155.43- 167.66;	32000	173.31	174.80	1.49	1%		5	
		the ultramafic is the least altered in the middle of the unit.	37451	174.80	176.20	1.4	Tr		5	
		Very hard, many grey qty veins with dolomitic alteration- mil-	37452	176.20	177.65	1.45	Tr		«5	
		limetric- centimetric grey qty veins.	37453	177.65	178.96	1.31	Tr		«5	
		10% millimetric to centimetric white qtz- $FeC0_3$ crystal veins	37454	178.96	180.47	1.51	Tr		«5	
		- remnant variolitic texture, stretched out diluted varioles.	37455	180.47	182.01	1.54	Tr		10	
		Tr- 1% fine pyritic clumps + grains disseminated (« 2mm).	37456	182.01	183.43	1.42	Tr		15	
		Increasing fuschitic content towards dykes (north & south)	37457	183.43	185.06	1.63	Tr		5	

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.
		Foliation is poor to moderately developed at 65° to the C.A.								
		Many of the $FeCO_3$ -qtz veins are boudinaged and are usually	37458	185.06	186.42	1.36	Tr		5	
		parallel to sub-parallel to foliation.	37459	186.42	188.11	1.69	Tr		«5	
		Whereas the grey qty veins cut foliation at 25° to the C.A.,	37460	188.11	188.88	0.77	1%		70	
188.88	206.63	Silicified quartz feldspar porphyry- mineralized. Beige grey,								
		coarse grained- similar to 148.70- 155.43 m.	37461	188.88	190.38	1.5	4%		240	
		35- 40% sodic plagioclase feldspar with diffuse grain boundaries	37462	190.38	191.87	1.49	4%		190	
		due to the silicification. Beige grey qty. 10% white qty veins	37463	191.87	193.40	1.53	3%		250	
		barren (5mm- 5cm). One set of veining consistently at 55- 60°	37464	193.40	194.95	1.55	5%		275	
		to the C.A. (« 5mm). Another set at 30° to the C.A. in the	37465	194.95	196.56	1.61	3%		350	
		opposite direction from these above. Often a thin band of fine	37466	196.56	198.09	1.53	4%		200	
		pyrite will line the outside edge of the qty veins. No folia-	37467	198.09	199.67	1.59	4%		220	
		tion. Pyrite is present 3- 5% as fine euhedral pyrite in	37468	199.67	201.16	1.49	4%		235	
		clumps and finely disseminated and in thin bands in fractures +	37469	201.16	202.78	1.62	4%		110	
		bordering qty veins. Sericitization of feldspars has begun	37470	202.78	204.34	1.56	5%		210	
		(early in alteration). $FeCO_3$ is in some fractures as an alte-	37471	204.34	205.57	1.23	5%		235	
		ration. Hematite with pyrite in millimetric pyrite-hematite-	37472	205.57	206.63	1.06	4%		300	
		fracture fills.								
206.63	224.70	Fuschitic- silicified- dolomitized ultramafics	37473	206.63	208.24	1.61	7%		25	
		Yellow green (bright)- med. grained- similar to 155.43- 167.66	37474	208.24	209.83	1.59	1%		«5	
		Darker mafic minerals (pyroxene, amphiboles, biotite) are found	37475	209.83	210.97	1.14	2%		15	
		porphyritic and in alignment showing the foliation, as well	37476	210.97	212.50	1.53	2%		100	
		as fuschite grains. Feldspar grains are sometimes visible	37477	212.50	214.04	1.54	2%		5	

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DE	À	GÉOLOGIE	ÉCHANTILLON No:	De	À	Long.	ANALYSES % Py est.	% po. est.	Au. ppb	Vérif.	
		in the matrix (« 1mm).									
		1- 2% fine disseminated pyrite. 5% quarty-$FeC0_3$ veins (millime-	37478	214.04	215.55	1.51	2%		«5		
		tric- centimetric); often parallel with foliation. Foliation	37479	215.55	216.98	1.43	1%		«5		
		is at 65° to the C.A. Some sericitic alteration as seen	37480	216.98	218.6	1.62	1%		«5		
		on foliation surfaces. Fuschite and sericite alteration is	37481	218.60	220.06	1.46	1%		10		
		lost down section as a gradual change takes place into	37482	220.06	221.65	1.59	Tr		«5		
		talcose ultramafics. Remnant variolitic textures, seen as	37483	221.65	223.13	1.48	Tr		5		
		stretched varioles are present . Dolomitic alteration qtz on	37484	223.13	224.70	1.57	Tr		10		
		grey qty veins.									
		219.87- 220.06: qtz- ferro dolomite- fuschite vein with 1% pyri-									
		te , fine + disseminated.								whole	
224.7	243.60	Talcose ultramafic. Dark green; many thin quarty- $FeC0_3$ veins	37485	226.53	228.0	1.47	Tr		5	rock	
		as stringer like veins with many boudinages & ptygmatic folds							Au		
		15% (white).									
		Variolitic texture is prominent although some varioles have been									
		stretched out. The intense qtz- carbonate veining gives a									
		brecciated appearance. Strong talcose alteration as well as									
		chlorite alteration (weak). Trace pyrite.									
		Slightly magnetic in places, as well as magnetic when crushed.									
		Moderate $FeC0_3$ content in matrix. Spotted texture of grain									
		intergrowth, the felsic grains (feldspars) growing in a majority									
		Mafic mineral composition giving a spotted texture, as well as									
		dolomitic + talcose lighter coloured alteration of the matrix.									
		Foliation at 237 m is at 55° to the C.A.									

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243.60 End of hole