GM 43274

RAPPORT GEOLOGIQUE, TRAVAUX D'EXPLORATION, PROPRIETE DES MINES SELBAIE

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Énergie et Ressources naturelles
Québec

LES MINES
SELBAIE
SELNOR INC - GÉRANT

CASE POSTALE 370
JOUTEL, QUÉBEC
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Ministère de l'Énergie et des Ressources
Service de la Géoinformation
Date: 16 SEP. 1987
No G.M.: 43274

Le 6 mars 1986

RAPPORT GEOLOGIQUE

TRAVAUX D'EXPLORATION, AUTOMNE 1985

Sur la propriété des Mines Selbaie, Canton Brouillan, une entente qui est intervenue entre le Ministère de l'Energie et des Ressources du Québec (MER) et les Mines Selbaie, a couvert des travaux d'exploration pour les métaux de base, lesquels ont été effectués entre le 23 septembre 1985 et le 12 janvier 1986. Les résultats positifs nous encouragent à poursuivre notre investigation plus à l'ouest.

Ces travaux d'exploration ont consisté en la foration de 7374 mètres de matériel réparti en 22 forages de surface dont uniquement deux ont dû être abandonnés puis repris. Ainsi, sans avoir atteint le roc, le forage B384A a été abandonné à 62 mètres à cause du bris du tubage dans le mort-terrain tandis que le forage B393A a été abandonné dans le roc à une profondeur de 63 mètres suite au bris du train de sonde BQ provoqué par son ensablement.

Cette campagne de forage nous a donc permis d'obtenir plus rapidement certaines informations géologiques à cause d'une augmentation, suite à l'obtention d'une subvention à l'exploration minière du MER, de la quantité de mètre à forer avec notre budget de 1985. Le coût total de ces forages s'élève à $387,253.84, soit un coût moyen de $52.52 par mètre de forage. Nous nous sommes donc qualifiés pour la subvention maximum de $89,250.00 du MER.

Nous pouvons regrouper tous les forages exécutés en trois (3) zones d'intérêt:

a) près de la mine en exploitation (Zone B), nous avons investigué un problème géologique avec le forage B393 ainsi que quelques axes de conducteur de polarisation provoquée (PP) de faible intensité au moyen des forages B384, B391, B392.

b) dans le voisinage de zones minéralisées recoupées par les anciens forages géologiques B378 et B372, l'investigation de leur potentiel minéral a été effectuée par les forages B386, B387, B381, B385 et l'approfondissement du forage de B367.

c) Enfin nous avons poursuivi vers l'ouest l'investigation de l'horizon felsique altéré géochimiquement et localisé au sommet de la séquence felsique de la mine, avec les forages B382, B383, B394, B395, B396, B388, B389, B390, B397, B398 et l'approfondissement du forage DB-12.

Pour faire suite à cette énumération des forages effectués lors de cette dernière campagne, voici un résumé des résultats obtenus.

Le forage B384 a recoupé dans le tuf dacitique de la mine, près de 1% de chalcopyrite et de pyrite entre 183 et 189 mètres, minéralisation pouvant expliquer le conducteur PP "E5".

Dans un porphyre de quartz avec ou sans feldspath, le forage B391 a recoupé presque continuellement des agrégats et des veinules de pyrite, constituant 4 à 12% de la roche. Il est impossible de faire correspondre le conducteur PP "C2" avec une seule de ces passées minéralisées. Par contre, le conducteur PP "C3" pourrait être l'expression géophysique des 6 à 10% de pyrite rencontrée dans le forage B392 de 123 à 147 mètres. Dans ces deux derniers forages, les sulfures de cuivre et de zinc sont absents.

Enfin pour compléter les forages effectués près de la mine, le forage B393 a confirmé l'existence de deux unités de porphyre de quartz séparées par un horizon de tuf dacitique avec localement des yeux de quartz. Il n'y a pas de sédiments chimiques (chert ou sulfures ou oxydes) associés à cette unité de tuf.

Dans le voisinage de la minéralisation en cuivre du forage B372, le forage B381 a recoupé dans un tuf à yeux de quartz des passées portant du cuivre. Ainsi 2 à 3% de chalcopyrite sont présents de 144 à 156m, de 165 à 171m et de 194 à 197m. Ce sont de petites veinules et/ou agrégats de sulfures. Les deux autres forages (B385 et prolongement du B367) ont aussi recoupé des sections d'épaisseur variable portant de la pyrite, de la chalcopyrite et de la sphalérite dont les teneurs sont généralement inférieures à 2% de cuivre et 2% de zinc sur quelques mètres.

De part et d'autre du forage B378 dans lequel nous avons obtenu 1% cuivre et 4.92% zinc sur 1.5 mètres, les forages B386 et B387 ont investigué l'extension possible de cette minéralisation. Localisé à 100 mètres à l'est, le forage B386 a recoupé une moyenne de 3% de sphalérite et 1% chalcopyrite de 434.95 à 438.3 mètres ainsi qu'une très courte zone (de 443.1 à 443.8m) avec 5% de sphalérite. Cette minéralisation est présente sous forme de veinules dans un tuf localement à lapilli. A 100 mètres à l'ouest, le forage B387 n'a recoupé que très peu de sphalérite (moins de 1% de 443 à 449m) mais ici, ce sont des veinules dans un porphyre de quartz. Cette minéralisation semble donc être plus intéressante en se déplaçant vers l'est.

Enfin, comme nous l'avions anticipé, l'horizon felsique supérieur situé au sommet de la séquence felsique de la mine, est très intéressant et prometteur.

Immédiatement sous la séquence andésitique, deux horizons de porphyre de quartz sont localement individualisés par une unité de tuf felsique à lapilli. De plus, un nouvel intrusif de composition dioritique à granodioritique a été identifié dans le coin NW de la région d'investigation (cf. fig. 1). Une zone d'altération chloriteuse semble être associée à cet intrusif.

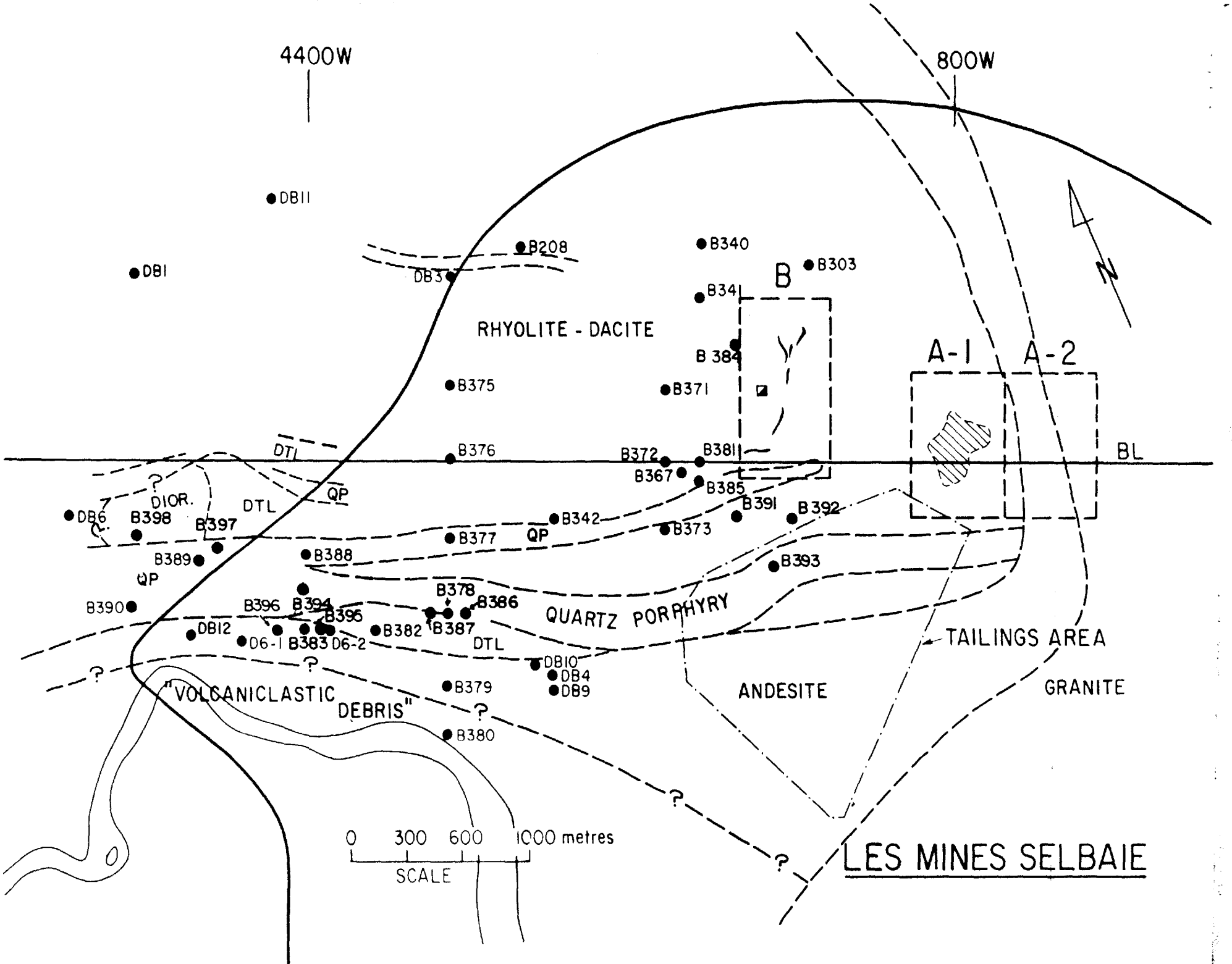
L'horizon de tuf felsique à lapilli est localement intensément silicifié et massif ou séricitisé et alors schisteux. On y rencontre une dissémination généralement régulière (< 1%) de pyrite très fine ainsi que des veinules et/ou petits agrégats de sphalérite associés parfois à de la galène et très rarement avec des traces de chalcopyrite.

De plus, 36 cm de sphalérite massive avec quelques tâches de chalcopyrite ont été observées dans le forage B383, de 422.64 à 423m. Cette veine n'a pu être identifiée dans les forages B395 et B396, localisée à 100 mètres de part et d'autre du forage B383.

Les premiers résultats d'analyse provenant des unités felsiques (les porphyres de quartz et les tufs à lapilli) montrent des teneurs en zinc généralement $\leq 0.5\%$ (localement jusqu'à 2% sur un maximum de 3 mètres) ainsi que des teneurs d'argent aussi élevées que 1000 g/t sur quelques mètres. Jusqu'à présent aucune association n'a été observée avec l'or ($\leq 0.7\%$ g/t).

L'association Zn-Ag semble être reliée au degré de silicification ainsi qu'à la présence de l'unité de tuf felsique à lapilli. Beaucoup d'autres forages devront être effectués dans cette région pour investiguer l'étendue de la silicification de même que la valeur et la continuité de la minéralisation en Zn-Ag. De plus, nous devrons délimiter l'étendue de l'intrusif dioritique et obtenir la stratigraphie dans cette région plus à l'ouest et au nord, dépourvue d'affleurements.

Jean Jacques Bouillon


4400W
800W
DB11
DB1
B208
DB3
B340
B303
B
B34
RHYOLITE - DACITE
B 384
A-1
A-2
B375
B371
DTL
B376
B372
B381
BL
B367
B385
DIOR.
DTL
QP
DB6
B398
B397
B342
B391
B392
B377
QP
B373
B389
B388
B393
QP
B378
B390
B396
B394
B386
QUARTZ PORPHYRY
B395
DB12
B382
B387
TAILINGS AREA
D6-1
B383
D6-2
DTL
DB10
DB4
DB9
B379
ANDESITE
GRANITE
"VOLCANICLASTIC DEBRIS"
B380
0 300 600 1000 metres
SCALE
LES MINES SELBAIE

BP RESOURCES CANADA LIMITED -
SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: B-367 (ext.)

PAGE Nº / *Nº de Feuille*: 1

PROJECT
PROJET Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B367 ext.	07/10/85	08/10/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*

DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse*	Northing / *Ordonnée*	Elevation / *Elévation*	Azimuth	Inclination / *Inclinaison*	Total Length / *Longueur Totale*
Metres	Metres	Metres	Degrees / *Degrés*	Degrees / *Degrés*	Metres
					3053

Ministère de l'Énergie et des Ressources
Service de la Géoinformation
Date: 16 SEP. 1987
No G.M.: 43274

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
182.88		-52.5
299.31		-50.5

Comments - *Remarques*

B 367 SUMMARY

0 - 50.30	Overburden		
50.30 - 118.14	Feldspar Porphyry	Faults at 50.4 (60°), 69.6 (35°), 94 (35°)	81.1 - minor galena
118.14 - 141.0	WATE		
141.0 - 156.58	WATE	Fault at 149.5	145.7 - abundant cpy. over 30 cm
156.58 - 187.76	BTL		(174.5-175.4) Abundant cpy, disseminated
187.76 - 202.91	WATE		(187.5 - 187.9) Abundant cpy.
END			

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU / Hole No: B-367 (ext.)

Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture - Composition / Granulometrie - grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondrement, etc) / Remarks - (mineralization, water, caving, etc)
199.95	DACITE TUFF (W)	Dark grey	DACITE TUFF (WELDED) Aphanitic, homogeneous matrix contains diss. (3-5%) irregular-shaped, elongate chloritic entities. Occasionally cut by irregular-shaped Qv.		hard	Contains a moderately developed cleavage. Chlorite "entities" are elongate parallel to the main foliation.	Weakly to moderately chloritized.	Cp-Py aggregates assoc. with Qv.
207.41	DACITE TUFF LAPILLI	Light green	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains densely concentrated (20-40%), poorly-sorted acid fragments. The fragments vary in size from 0.2-15cm and form angular to rounded shaped fragments. In general, the fragments are matrix-supported. Further down the unit, the proportion of chloritic fragments(?) increases (up to 15%). These chloritic fragments are irregular in shape and can form convex inward shapes.		hard	Defined by a sharp, irregular upper contact. Locally, the internal fabric is well-developed. 215.20 Strong internal fabric (44°/C.A.) 257.86 - 258.08 Gouge zone (fault?). Intense assoc. fabric (63°/C.A.)	Weak to moderate chlorite. Weak mineralization. The matrix contains localized patches of chlorite. 242.60 - 261.48 Contains highly chloritized patches (fragments). Highly kaolinized. Minor hematite.	Cp-Py aggregates assoc. with Qv.

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-367 (ext.)

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
261.48	DACITE TUFF (L) (W)	Dk.-Lt. green-grey	DACITE TUFF (LAPILLI) Aphanitic, homogeneous matrix contains diss. (3-5%) matrix-supported acid and chloritic fragments of varying size (0.1-1.0cm). Internally, the matrix contains weakly diss. (2-4%) f.g.(0.1-0.4cm), irregular-shaped chloritic "entities".		hard	Locally, contains a well developed fabric. 178.40 Local fabric oriented at 52° /C.A.) 283.20 Local fabric oriented at 50° /C.A.	Weak to moderate chlorite. The matrix is weakly carbonatized. Locally fractures are infilled with limonite.	
300.53	End of Hole.							

Description Par
Logged By _____ Page No _____ No du TROU
Hole No _____

GOV'T

BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

HOLE Nº / Nº du TROU: B-381

PAGE Nº / Nº de Feuille: 1

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
3381	26/10/85	04/11/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*

DONNIL

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Élévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
	-22+00	0+00	226.7	-60.0	321.26

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
000.0	226.7	-60.0
126.4	231.6	-53.0
187.4	225.6	-50.0
246.4	226.6	-48.0
309.3	218.6	-42.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-381

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
0.0	OVERBURDEN							
65.84	DACITE TUFF (L) (W)	Dark green-grey	DACITE TUFF (LAPILLI) Aphanitic, relatively homogeneous matrix contains lenses of poorly-sorted, rounded acid fragments (3-5%). In places, the matrix contains f.g.-c.g. (1mm-2cm) irregular-shaped chloritic "entities".		Hard	In places, a strong internal fabric is present. 71.50 - 74.50 Internal fabric is oriented at 47°/C.A. 96.20 - 96.80 Internal fabric is oriented at 39°/C.A.	The matrix is moderately to strongly chloritized in places. Some sericitization occurs. Fractures are infilled with limonite. The fabric is defined by chlorite. The fabric is defined by chlorite.	Irregular-shaped, f.g., Py aggregates are diss. (1-2%) within the matrix. 114.10 - 116.65 Irregular-shaped Cp blebs are assoc. with qtz. veins.
			128.75 - 130.20 Highly fractured zone. Contains many porous sections.			Fractures have no distinct pattern.	Leached zone. Porous zones are partially infilled with limonite. Some kaolin.	Porous zones often have assoc. Cp blebs.
		Light green-grey	130.20 - 132.82 FELSIC DYKE Aphanitic, homogeneous matrix contains diss. (2-4%), dark green, micaceous aggregates.		Soft	The dyke is internally featureless. Contacts with adjacent units are obliterated by intense fracturing.	The matrix is weakly chloritized and strongly carbonatized.	Cp-Py aggregates are erratically distributed.

Description Par
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Hole No _____

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-381

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
			139.00 - 172.52 Proportion of fragments increases dramatically (20-35%). The fragments are poorly-sorted, ranging in size (1cm-6cm). This unit is frequently cut by irregular-shaped quartz veins.		Hard	Forms a gradational contact. Strong internal fabric developed in a few places. 142.40 Internal fabric oriented at 41°/C.A.	Matrix is highly chloritized in places. Sericite concentrates from low to moderate levels.	139.10 - 166.42 Irregular-shaped Cp-blebs are associated with irregular-shaped, disrupted quartz eyes. 175.56 - 184.71 Irregular-shaped Cp-Py aggregates are diss. within Qv (2-3%).
			172.50 - 180.10 Lapilli units become interbanded with Q.P. units. Proportion of D.T.L. decreases down the unit.		Hard	Internal fabric is oriented at 23°/C.A.	Fabric is defined by chlorite concentrations.	
180.10	DACITE TUFF (Qe) (W)	Dark green-grey	DACITE TUFF (QUARTZ EYES) Aphanitic, homogeneous matrix contains f.g. (<2mm) rounded Qe, that are erratically diss. (2-4%) within the matrix. Contains lenses (0.5-2.0m) of D.T.L. These lenses consist of poorly-sorted f.g.-c.g. (0.2-4.0cm) acid fragments. Locally, the matrix contains generally f.g. (<4mm) irregular-shaped chloritic entities.		Hard	Q.P. generally forms gradational contacts with the D.T.L. Internally, fabric development is hetergoeneous. 181.50 Strong internal fabric. (35°/C.A.) 190.26 (4cm) Narrow gouge zone. Minor brecciation. (61°/C.A.)	The matrix is weakly to moderately chloritized. In places the matrix is carbonatized. Fabric defined chlorite concentrations.	

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU / Hole No B-381

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
						192.20 - 192.63 Highly brecciated zone (no preferred orientation).	Minor limonite infills the fractures.	
						198.20 - 202.80 Contains many porous zones.	Pores infilled with limonite.	
	DACITE TUFF LAPILLI (W)	Light - dark green-grey	DACITE TUFF LAPILLI 203.34 - 216.25 Aphanitic, homogeneous matrix contains erratically diss. (2-4%), f.g. irregular-shaped chlorite "entities". The matrix also contains poorly-sorted, f.g.-c.g. (0.7-2.0cm) acid fragments (4-8%) and c.g. (0.6-1.5cm) irregular-shaped quartz pisolites.		Hard	Forms sharp contacts (29°/C.A.) The internal fabric is generally poorly-developed. Locally a strong fabric exists.	Highly siliceous. Locally the matrix is weakly chloritized.	Cp-Py aggregates form within the Qv.
						209.00 - 74°/C.A.	The fabric is defined by slight chlorite concentrations.	
216.15	DACITE TUFF (Qe) (W)		DACITE TUFF (QUARTZ EYES) Aphanitic, homogeneous matrix contains weakly diss. (1-2%) f.g. (4-6mm) irregular-shaped chloritic "entities". The matrix is very featureless and appears finer-grained than adjacent units.		Hard	Forms fairly diffuse contacts. A weak fabric is developed (50°-55°/C.A.) throughout the matrix.	Matrix is weakly chloritized.	
225.60	DACITE TUFF LAPILLI		DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains isolated patches of		Hard	Forms gradational contacts. Contains weakly-developed	The matrix is weakly chloritized.	Mineralization is confined to quartz

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-381

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
			diss. (1-2%) f.g. (1-2cm), irregular-shaped chloritic "entities". The matrix also contains poorly-sorted irregular-shaped acid fragments of varying size (0.4 - 4.0cm).			internal fabric.		concentrations.
						240.0 Fabric oriented at 58°/C.A.		
						244.0 - 245.27 Highly brecciated and gouged zone (Fault?). Main penetrative fabric (42°/C.A.)	The gouge contains minor limonite and kaolin.	Low R.Q.D.
						254.67 - 257.74 Highly porous zone. Some fracturing.	Partially infilled with kaolin.	Low R.Q.D.
						268.40 - 268.70 Highly brecciated zone. Strong assoc. fabric (54°/C.A.)	Fractures are infilled in with limonite.	Low R.Q.D.
						272.00 - 273.50 Highly brecciated zone. Assoc. fabric (50°/C.A.)	Limonite and manganese stain form along fractures.	Low R.Q.D.
						282.50 Strong internal fabric (45°/C.A.)	Fabric defined by chlorite concentrations.	
						292.59 Strong internal fabric (40°/C.A.)		

Description Par
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Hole No _____

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-381

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
	DYKE	Light green-grey	303.02 - 304.70 FELSIC DYKE Aphanitic, homogeneous matrix contains diss. (2-3%) carbonate aggregates. Surface is slightly pitted due to the dissolution of some carbonate.		Fairly	Forms sharp contacts with adjacent units (13°/C.A.). Lower contact obscured by heavy fracturing. Internally, a well developed fabric is present (57°/C.A.).	Matrix is highly carbonated.	
321.26	End of Hole.							

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Hole No _____

BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: B-384

PAGE Nº / *Nº de Feuille*: 1

PROJECT / ***PROJET***: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carotte*
B384	26/11/85	05/12/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*

DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse*	Northing / *Ordonnée*	Elevation / *Elévation*	Azimuth	Inclination / *Inclinaison*	Total Length / *Longueur Totale*
Metres	Metres	Metres	Degrees / *Degrés*	Degrees / *Degrés*	Metres
	6+25		222.67	-60.00	190.80

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
91.44	—	-60.0
94.49	29.17	-59.0
178.61	—	-57.0
188.98	25.67	-55.0

Comments - *Remarques*

B 384 A le premier essai de forer de mort terrain a échoué avec le bris du train de sonde NW sans avoir rejoint le roc.

B 384 a été foré avec une inclinaison plus prononcée que le premier forage.

B-384 - RESUME

GEOLOGY

0.0 - 57.91	OVERBURDEN	
57.91 - 190.81	D.T.L.	
	135.10 - 146.30	D.T.L. (W.A.T.)
190.81 -	END OF HOLE	

MINERALOGY

114.00 - 123.00	tr Cp, tr Py
174.00 - 177.00	tr Cp, tr Py
183.00 - 189.00	<1% Cp, <1% Py

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-384

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
0.0	OVERBURDEN							
57.91	DACITE TUFF LAPILLI	Dark grey	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains poorly-sorted f.g.-c.g. (0.1-4.0cm), rounded		Hard	Contains a weakly developed internal fabric. Unit is heavily fractured in places.	Highly siliceous matrix. Matrix is moderately to highly chloritized.	
						81.80 - 90.22 Highly fractured zone. Most fractures occur at 35°-55°/C.A. Some areas have predominantly low angle faults.	This zone is moderately leached. Fracture-filling types include limonite, marcasite, and manganese stain.	Low R.Q.D.
							117.00 - 118.15 Matrix contains fine veinlets consisting of hematite.	116.10 - 116.30 Contains irregular-shaped blebs of Cp (1-2%) and minor chalcosite (tr.).
						123.10 - 124.60 Highly fractured, leached zone. Fractures generally (30°-45°/C.A.).	Strong limonite stain along fractures.	Contains isolated blebs of Cp (<1%).
			125.80 - 135.10 This zone contains large acidic fragments (2-4cm) that vary from angular to rounded in shape.					
	DACITE TUFF (W.A.T.)		135.10 - 146.30 Matrix contains diss. (4-8%)			Poorly-developed internal	Matrix is weakly chloritized.	

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-384

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			f.g.-c.g. (0.1-3.0cm), irregular-shaped chloritic entities.			fabric.		
						142.95 - 142.56 Lost core. Adjacent areas highly fractured. (fault).	Limonite along fractures.	
						157.75 - 157.94 Fractured zone. Strong assoc. fabric. (52°/C.A.).	Minor limonite stain.	
						158.10 - 159.15 Series of low angle fractures (5°-15°/C.A.).	Limonite stain.	
								172.00 - 175.00 Contains diss. Cp blebs within the matrix.
						171.42 - 171.91 Highly fractured zone. Generally low angle fractures (0°-5°/C.A.).	Assoc. limonite stain.	
								184.08 - 188.20 Contains diss. (1%) aggregates of Cp within the matrix.
190.80	End of Hole							

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GOV'T

BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: B-385

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carotte*
B385	09/10/85	16/10/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*

DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse*	Northing / *Ordonnée*	Elevation / *Elévation*	Azimuth	Inclination / *Inclinaison*	Total Length / *Longueur Totale*
Metres	Metres	Metres	Degrees / *Degrés*	Degrees / *Degrés*	Metres
	-22+06	-1+06	22.67	-65.0	327.96

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
74.68	26.67	-58.0
91.44	---	-58.0
150.88	21.67	-47.0
182.44	---	-48.0
230.12	14.67	-43.0
274.32	---	-37.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-385

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
0.0	OVERBURDEN							
43.59	DACITE TUFF (Qe) (W)	Light - dark green	DACITE TUFF (QUARTZ EYES) Aphanitic, homogeneous matrix contains diss. (1-2%) f.g., (≤0.1cm), rounded, poorly-defined Qe. The matrix also contains diss. (2-3%), irregular-shaped chloritic "entities".		Hard	Contains a strong internal fabric.	Matrix is weakly chloritized and highly carbonatized.	Matrix is cut by irregular-shaped Qv containing Cp and Py.
						53.40 - Strong internal fabric (27°/C.A.)	43.59 - 78.03 Highly leached zone. Limonite forms along fractures.	
						54.90 - 56.60 Narrow Qv are oriented at (28°/C.A.)		
						55.0 - Intense fabric. Some gouge (Fault?).	Assoc. kaolin.	
						71.20 - Strong internal fabric (49°/C.A.).	Limonite forms within voids.	
						72.56 (3cm) Narrow gouge zone. Fairly strong assoc. fabric. (53°/C.A.).	Limonite infills fractures and forms a large proportion of the gouge.	
						76.40 - Stong internal fabric (41°/C.A.).		
						84.50 - 89.90 Highly fractured zone. (Fault?). No particular orientation for fractures.	The fractures are infilled with limonite.	Low R.Q.D.

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SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-385

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
	DYKE	Light green-grey	88.00 - 90.90 FELSIC DYKE F.g., homogeneous matrix contains evenly distributed carbonate specks. Highly porous in leached zones.		Soft	Upper contact is obscured by heavy fracturing. Lower contact is sharply-defined (30°/C.A.)	Dyke is intensely carbonatized.	Contains no distinct mineralization.
	DACITE TUFF (W)		90.90 - 123.05 Proportion of Qe diminish to less than 1%.			97.84 Internal fabric oriented at 45°/C.A.		
							Some Qv are highly porous and may contain a chalcocite film.	99.50 - 101.20 Irregular-shaped, disrupted Qv contain diss. aggregates of Cp and Py.
						107.80 - Strong internal fabric (41°/C.A.)		Minor Py conc. (2-3%) elongate parallel to the main fabric.
								119.40 - 129.84 Diss. euhedral Py are weakly diss. (2-3%) within the matrix. Much of the Py & carb. is leached, creating a pitted appearance.
123.05	DACITE TUFF LAPILLI	Light - dark green	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains diss. (2-6%) f.g.-c.g. (0.3-2.0cm) irregular-shaped acid fragments. The		Hard	Forms gradational contact. Develops a strong internal fabric. In places, the fragments are elongate parallel	Matrix is moderately to highly chloritized.	F.g. Py is diss. within the matrix or forms irregular-shaped aggregates.

SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-385

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
			fragments are poorly-sorted and matrix-supported.			to the main fabric.		
						126.60 – Strong internal fabric. (44°/C.A.).	Fabric defined by chlorite.	130.68 – 135.94 Contains a number of irregular-shaped Qv containing Cp-Py aggregates. The Qv are highly disrupted and form vague contacts.
135.45	DACITE TUFF (Qe)	Dark green-grey	DACITE TUFF Aphanitic, homogeneous matrix contains erratically diss. (2-6%) carbonate aggregates. Occasionally cut by irregular-shaped Qv. Locally, the matrix contains weakly diss. (1-2%), f.g. rounded Qe.		Hard	Generally a weakly defined fabric is present internally.	The matrix is weakly to moderately chloritized. Locally, the matrix is highly carbonatized. Where leaching occurs, the matrix is highly pitted.	Infrequently cut by irregular-shaped Qv which contain Cp-Py aggregates.
								156.24 Narrow (2cm) Qv contains Sp, Py (34°/C.A.)
						161.80 – Strong internal fabric oriented at 40°/C.A.	Fabric defined by chlorite.	
						177.85 – Narrow (1cm) gouge zone. Fault. Associated fabric (65°/C.A.).		

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU / Hole No B-385

Profondeur - Depth	Genre de Roche - Rock Type	Couleur - Colour	Texture - Composition - Granulometrie - grain size	Fracture/ Metre	Dureté - Hardness	Structure	Altération - Alteration	Remarques - (minéralisation, eau, effondrement, etc) - Remarks - (mineralization, water, caving, etc)
	DACITE TUFF (W)	Dark green-grey	179.10 - 191.73 DACITE TUFF (WELDED) Aphanitic, homogeneous matrix contains diss. (4-8%) f.g. - c.g. (<0.2-4.0cm), irregular-shaped chloritic "entities". Locally, the matrix contains diss. (1-2%) f.g. (<2mm) Qe. Infrequently cut by Qv. Patches of diss. (2-3%) carb. are also present.		Hard	Locally a strong fabric. 187.0 - Strong internal fabric (55°/C.A.) 189.80 (2cm) Narrow gouge zone. Strong assoc. fabric (41°/C.A.). 191.73 Zone of gouge with associated intense fabric (37°/C.A.).	Low - moderate levels of chlorite. Chlorite is generally concentrated in "fiamme". Minor kaolin, hematite within gouge zone.	Locally, f.g. Py is weakly diss. (1-2%) within the matrix.
	DYKE	Light - dark green-grey	191.73 - 195.25 F.g., slightly granular, homogeneous matrix. The matrix appears to consists of a chlorite, quartz and carbonate mossaic. Infrequently and randomly the matrix is cut by quartz-carbonate veins Some fractures and Qv are outlined by hematite concentrations.		Hard	Upper contact defined by a fault (37°/C.A.). Lower contact obscured by heavy fracturing.	The matrix is highly carbonatized and moderatley chloritized. Hematite is localized along fractures and rims of Qv.	Py aggregates are diss. within the matrix (1%).
195.25	DACITE TUFF LAPILLI	Light - dark green-	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains diss (4-8%), f.g.-		Hard	Forms gradational contacts wit	The matrix is weakly to	No distinct mineralization.

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DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

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Hole No B-385

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
		grey	c.g. (0.2-4.0cm), irregular-shaped acid fragments. These fragments are poorly-sorted and matrix-supported.			with adjacent units.	moderately chloritized.	
						203.30 - 204.00 Highly fractured zone. Fabric oriented at 40°/C.A.		
	DYKE	Light green-grey	210.23 - 211.28 Aphanitic, homogeneous matrix contains weakly diss. (2-3%) green micaceous aggregates. Cut by randomly oriented, narrow (<1cm) qtz.-carb. veins.		Hard	Forms sharp contacts with adjacent units. Upper contact - 25°/C.A. Lower contact - 26°/C.A. No penetrative fabric is developed internally.	The matrix is intensely carbonatized. Limonite is weakly concentrated along margins of the dyke.	No distinct mineralization.
	DACITE TUFF (L) (W)		211.28 - 241.26 The matrix is aphanitic and relatively homogeneous. In places, the matrix is slightly welded and contains erratically diss. 3-6%, irregular-shaped, f.g.-c.g. (0.2-1.0cm) chloritic "entities". The proportion of acid fragments is less than in the unit above the dyke (2-4%). The fragments are matrix-supported and poorly-sorted.		Hard	Internally, the matrix is hetergeneously deformed. Locally, a strong fabric is present.	The matrix is weakly to moderately chloritized. Most of the chlorite is concentrated within these irregular-shaped "entities" or framme.	No distinct mineralization.
						221.64 Strong internal fabric (58°/C.A.)	Fabric is defined by chlorite concentrations.	
						226.85 Strong internal fabric (57°/C.A.)	Fabric is defined by chlorite concentrations.	

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LES MINES SELBAIE

No du TROU
Hole No B-385

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
	DYKE(S)	Light green-grey	FELSIC DYKE(S) 241.26 - 243.11 The dykes in this zone are all very similar. The matrix is aphanitic, homogeneous and contains diss. light green micaceous aggregates. Locally, f.g., light brown aggregates are spotted within the matrix.		Fairly hard	Forms sharply-defined contacts. The contacts are generally low angle (20°-30°/C.A.). An internal fabric is present in some of the dykes (30°-35°/C.A.) 262.40 Intense internal fabric (55°/C.A.).	The matrix in intensely carbonatized. Carbonate veinlets appear to rim the dykes. 248.05 - 261.20 The matrix contains porous zones. These porous zones are the result of the leaching out of carbonate. Fabric defined by chlorite.	No mineralization is present.

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SELCO DIVISION

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SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº
Nº du TROU B-391

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PROJECT
PROJET Les Mines Selbaie

Hole Nº Nº du Trou	Date Started Date Commencée	Date Completed Date Terminée	Core Size Grosseur de Carotte
B391	11/12/85	17/12/85	BQ

Logged by: Dean McDonald

Remarks - Remarques

DOMINIK

COLLAR INFORMATION - INFORMATION DU COLLET

Easting Abscisse Metres	Northing Ordonnée Metres	Elevation Elévation Metres	Azimuth Degrees Degrés	Inclination Inclinaison Degrees Degrés	Total Length Longueur Totale Metres
	-20+00	-2+85	226.7	-55.0	1176.5

Depth - Metres Profondeur	Azimuth	Inclination Inclinaison
911.44	—	-56.0
911.44	16.67	-56.0

Comments - Remarques

B-391 - RESUME

GEOLOGY

0.0 - 30.48	OVERBURDEN	
30.48 - 56.50	Q.P.	
56.50 - 117.65	Q.F.P.	
	103.80 - 116.80	FELSIC DYKE
117.65	END OF HOLE	

MINERALOGY

30.48 - 32.00	10% Py
32.00 - 44.00	5-6 % Py
56.00 - 62.00	6-7 % Py
62.00 - 80.00	10-12 % Py
80.00 - 86.00	6-7 % Py
89.00 - 92.00	9-11 % Py
95.00 - 101.00	8 % Py
101.00 - 104.00	4-5 % Py; 2-3 % ARSENO.

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-391

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
0.0	OVERBURDEN							
30.48	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains diss. (8-12%), euhedral to rounded Qe of varying size (<1mm). The matrix is infrequently cut by quartz veins. Where Qe are present, a sericitic halo is also present.		Hard	The internal fabric is fairly strongly developed in places. Contains significant porous zones.	Matrix is highly siliceous. Locally the matrix can be highly sericitized and/or chloritized. 30.48 - 50.55 Highly leached zone. Limonite frequently infills the fractures. (41.50-51.95 - This zone is highly sericitized.)	F.g. Py aggregates form irregular-shaped conc. or bands.
56.50	QUARTZ FELDSPAR PROPHYRY	Dark grey	QUARTZ FELDSPAR PORPHYRY Matrix is more granular (c.g.) The matrix contains a slightly smaller proportion (6-8%) of rounded to euhedral feldspar (3-5%).		Hard	Forms gradational contact with Q.P. unit. In places, a distinct banding forms within the matrix. 72.50 Banding is oriented at 40°/ C.A. 73.78 - 74.98 Highly brecciated zone. Fractures are often infilled with Py.	The matrix is highly siliceous. Banding is often defined by chlorite concentrations.	

SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-391

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
						91.57 Fairly well developed banding (37°/C.A.).		
	DYKE	Light green-grey	103.80 - 116.80 FELSIC DYKE Aphanitic, homogeneous matrix contains diss. dendritic growths of pyrite and chlorite. The matrix is also cut by narrow Py veinlets. In places, the matrix contains diss. (1-2%) light green (Ba-rich?) mica aggregates.		Soft	Form sharp, but irregular-shaped contacts (15°-20°/C.A.). No distinct internal banding is present.	The matrix is highly carbonatized.	Py aggregates form narrow veinlets within the matrix (20°-25°/C.A.)
117.65	End of Hole.							

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DIAMOND DRILL RECORD

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SUMMARY SHEET and SURVEY DATA
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HOLE Nº / Nº du TROU: Lic. 343337-3 B-382

PAGE Nº / Nº de Feuille: 1

PROJECT / PROJET: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
B382	26/09/85	10/10/85	BQ

Logged by: Bojan Zabev

Remarks - Remarques: DOMMIK

COLLAR INFORMATION - INFORMATION DU COLLET

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
+4010.00	-9+00.00		022.67	-65.00	510.80

Ministère de l'Énergie et des Ressources
Service de la Géoinformation
Date: 8 OCT. 1986
No G.M.: 32274

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
91.44	Test Reads	-57.0
132.89	28.67	-50.0
182.88	Test Reads	-48.0
224.33	28.67	-46.0
274.32	Test Reads	-45.0
315.77	27.67	-44.0
365.76	Test Reads	-45.0
407.21	25.67	-44.0
457.20	Test Reads	-45.0
498.65	27.67	-45.0

Comments - Remarques

SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-382

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
0.0			CASING					
48.8	DACITIC BRECCIA TO LAPILLI TUFF	Grey to pale grey	Unsorted acid and chloritic fragments 20% in pale grey sericitic/chloritic fine tuff matrix. Acid fragments usually bigger. Lapilli and breccia size sub-angular to subrounded. Some sericitic. Some with qtz. eyes Chloritic fragments mainly lapilli many flattened. (pseudo fiamme) 3-6%.	gen.3 gen.3	Mod. hard to soft	Mod. foliation at 50° TCA. Top 3cm strongly broken. Fractures at 45-65° TCA. 57.60 - 1cm qtz. vein at 36° TCA & some fracturing para-llel to TCA.	Chlorite 15% Sericite 10% Carbonate - weak	Rare coarse Py
61.10	DACITE TUFF	Greenish grey to pale grey	Above unit grades into finer tuff with fragment size 1mm-10mm. Occasional acid frag-ments to 3cm. Frag. 30% composition varies from andesitic to dacitic. Locally interbedded sections of v. fine chloritic tuffs. Qtz. eyes locally to 2%. Poss. graded bedding at 86.6 Top - uphole.	2-4	Mod. hard to soft	Mod. foliation - alignment of fragments at 40-45°TCA. 62.10 - 62.30 - Fractured core with some leaching. 79.10 - Poss. fault at 56° qtz. veining with minor gouge. 81.0 - Qtz. chlorite-sericite veining at 68° TCA. Occ. qtz. veining generally at 40-45° TCA.	67.5 - 73.00 - Chlorite strong. After that sericite predominates 10% as fine creamy bands.	Rare coarse Py mainly in the chloritic section. R.Q.D. - good

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
93.65	FELSITE DIKE	Light green	V. fine grained, uniform with minor dark green spots. Contacts sharp: Upper chilled at 40° TCA. Lower at 65 along qtz. vein.			Frequent qtz. veining at 55-70° TCA.		
96.35	DACITE TUFF	Pale grey to beige	Essentially as for 61.1-93.65 more sericitic. Occ. grey non altered acid subrounded fragments generally of lapilli size. Mainly fragments are chloritic and sericitic. The bottom 1.5m - fine grained tuff. At 108.8 - Poss. primary bedding at 67° TCA. Qtz. eyes 1%.	1-2	Mod. soft	Pronounced foliation at 60° TCA. 110.1 - 2cm qtz. vein at 55° TCA.	Sericite strong in matrix and fragments.	R.Q.D. - good C.R. - good
112.70	FAULT ZONE	Grey to black	Crushed and mylomitized rock sheared at 60° TCA with 1cm of fault gouge at 112.72m. chlorite and black argillitic material.		soft	Qtz. veining at 60° TCA.	Chlcrite, argillite, minor carbonate.	
113.10	FELSIC TUFF (Qe) silicified	Grey to pale grey	Fine grained, siliceous with local alternating ,bands of darker and lighter grey at 47° TCA. Also bands of		hard to mod. hard		Silica moderate. Sericite moderate.	113.1 - 117 R.Q.D. - poor

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			sericite common in upper part at 50° TCA. Qtz. eyes 3% - 1-3mm. 117.5 - 117.6 Section of v. fine chloritic tuff with several coarse Py cubes. At 119.20 - 2cm seam of black argillite at 46° TCA. 119.75 - 119.92 Graphitic argillite horizon with disrupted qtz. veining at 70° TCA and fine Py bands at 70° TCA. Minor hematite staining along foliation planes. Contacts seem to be gradational or irregular.					113.6 - 114.6 - Extensively broken core. Py as diss. Locally.
121.60	DACITE TUFF CHLORITIC	Green	Fine to lapilli tuff strongly chloritic and sericitic. Qtz. eyes 1-2%. Upper contact sharp at 60° TCA.			Moderate foliation at 50° TCA. 122.5 - Fracture at 5° TCA.	Strong chlorite in the upper part. Sericite strong in the lower part.	Occ. coarse Py mainly with chlorite.
123.75	FELSIC TUFF SILICIFIED		The same as from 113.10-121.6m Appears coarser grained with some interfragmental chlorite.			Foliation - 50° TCA.	Siliceous Sericite along foliation.	R.Q.D. - fair

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Hole No B-382

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			126.35 - 126.43 Black weakly graphitic argillitic tuff at 55° TCA. Sharp contacts.					
129.70	BRECCIATED ZONE (Altered)	Greenish grey to black	Brecciated texture consists of siliceous but strongly chloritized fragments in greenish sericitized matrix. Also sericitized fragments cemented by black argillaceous material weakly graphitic. Locally Qtz. eyes 1-3mm - 2-3%. Upper contact sharp at 44° TCA.		mod. soft	Locally foliation 55° TCA. 132.9 - 40cm of broken core. 136.6 - Narrow section of leached vuggy rock.	Sericite strong. Chlorite stong. Qtz. - occ. veining or locally as cement.	V. similar to brecciated zone in B-383 at 195.95-204.42 Minor Py as coarse cubes. R.Q.D. - fair
144.75	QUARTZ PORPHYRY/ TUFF Sericitized	Greenish grey	Contact with upper unit gradational. Fine grained, v. siliceous rock, appears tuffaceous. Qtz. eyes 1mm to 4mm 1-3%, round to euhedral zone broken unevenly distributed. Strongly sericitized. A bottom part more massive and yellowish - cream coloured.	2-4	Mod. hard	145.9 - 147.50 1cm grey qtz. vein parallel to TCA with sericite and minor chlorite. The same (probably) vein continues at 148.1-148.60. 150.6 - 150.9 Similar qtz. vein as above at 05° TCA (the same?) with traces of hematite. 157.3 - 20cm broken core with qtz. veining at v. low TCA.	Sericite strong - 30%. Chlorite 5% as streaks and in fractures. Carbonate - minor as beige patches and in veins.	Minor Py R.Q.D. - good to fair (This unit part of QP)

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-382

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
169.55	QUARTZ PORPHYRY tuff or flow	grey, reddish to yellowish grey	Similar to the above unit but more massive, qtz. eyes smaller in size generally. Variably sericitized, chloritized and hematite stained. Very good flow banding and fold structures locally. 178. - 180. Chlorite as streaks or along foliation. Minor shearing at 40° TCA. Also sericite as bands. From about 184 colour becomes light reddish (brick red) due to hematite. It goes down to about 220m in variable intensity. 205.5 - 208.5 Intense hematite staining. 200 - 205 Sericitic with banding at 55° TCA. 196.47 - 196.74 Felsite dike contacts at 60° TCA.		hard	178.6 - Qtz. chlorite fracture at 15° TCA. Occ. qtz. veining as irregular veinlets. 199.7 - 8cm qtz. vein at 50° TCA - cut by chloritic veinlets with minor Py. 202.70 - Irregular - contorted qtz. vein with minor Py and traces of Cp.	Chlorite 5% Sericite 10% Carbonate minor	R.Q.D. - generally good Minor Py diss. at top of interval. 202.4 - Py - Irregular patches over 10cm with chlorite.

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
			From about 212 to 225 well pronounced flow(?) banding or fine <1mm-3mm laminae at various angles TCA due to folding. Small scale folding can be observed in this interval.			Flow(?) banding 30-90° TCA due to folding.	Sericite - weak Carbonate - locally weak as fine beige spots. Chlorite - weak locally in massive not banded sections as 227.5 - 229.	
			239.67 - 240.0 Felsite dike. Contacts sharp at 55° TCA.		soft		Chlorite on fracture surface often.	
			248.8 - 253.9 Chloritic zone. Occ. bands of chlorite with minor Py generally at 60° TCA. Also chlorite along banding of Q.P.			At 250m qtz. chlorite open vein with minor brecciation. Minor Py.		
		waxy-yellow green	From 253m colour becomes lighter to pale grey progressively and the bottom 40cm heavily sericitized zone. Qtz. eyes 1%. 257.8 - 258.32 Felsite dike. Contact sharp: Upper - 68° TCA Lower - 65° TCA.		hard to mod. hard	258.70 - 261 Fracture zone with fracture at 45° to 57° TCA vuggy leached with some qtz. chlorite. Minor Py.	Chlorite on fractures.	Minor Py.
						264.6 - Fractures at 15° TCA with dark chlorite. 267.10 - Fracture at 15° TCA with minor qtz. chlor.	Sericite - moderate to strong. Chlorite or streaks - fractures carbonate - beige pervasive fiamme ~270.	From 271-272.58 Py as diss. and as Tr. veinlets and bands at 50° TCA. 1-8%.

Description Par Minor Py.

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						268-2-270 - Banding at 70° TCA.		
272.58	SILICIFIED TUFF MINERALIZED (Rhyolitic)	Grey	Contact with above unit faulted at 60° TCA. Consists of sections of fine grained massive tuffs and fragmental sections, some are brecciated. Qtz. eyes rare. Top 2m - contorted, deformed cherty bands strongly mineralized with Py - 60-90° TCA. Generally fragmented sections have Py matrix. Toward bottom tuffaceous texture more evident also occ. breccia (4-7cm) size fragments present.		V.hard	Fault with .5cm of gouge 60° TCA. Foliation generally 60° TCA defined by bands of ser. Py and alignment of fragments. 288 - fracture zone 3cm breccia at 30° TCA poss. fault. 297 - .5cm qtz. veinlet at 25° TCA with Sp cutting Py bands 60° TCA.	272 - 284.20 Silica + weak to moderate sericite. 284.20 - 299.8 Silicification intense.	Similar to B-383. Py - fine grained in bands, streak and diss. 272.58 - 274.5 - 20% Py as thin or 5-7cm bands with silica. 281.7 - 282.3 - 30% Py as matrix of breccia fragment. Py minor, throughout the interval. Sp in veinlet at 297m 25° TCA and as fine spots, occ. Cp. 295.4 - Py, Sp with traces of Ga and Sp at 65° TCA and one speck of Cp.
299.80	SILICIFIED LAPILLI TUFF	Grey to pale grey	Fragments 10-40% in f.grained siliceous matrix. Fragments mainly siliceous grey, dark grey to white also often Py fragments. Some are replacement. Size varies of 1mm to 4cm. In the top 6m breccia		v.hard to soft at bottom part	Generally massive only locally weak foliation at 70° TCA discernible. Fracturing common locally at various angles TCA. Often with Py.		Mainly fine Py mineralization as impregnation of fragments, veins, diss. fine bands or replacing fragments.

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			blocks common. Some 7cm banded QP fragments. Generally subangular to subrounded. Unsorted. Py around fragments, as fragments and replacing some fragments. Also minor amounts of Sp and Ga. Qtz. eyes rare at the top becoming more abundant in the lower part. Occ. white feldspar (?) present. The bottom 2m contains big blocks (20cm) of the unit below. Py on rims.			311.2 - Fault at 25° TCA with at least 3cm of fault breccia. 334.1 - 5cm qtz. vein at 58° TCA with some Py on rims.	299.8 - 309 Strong silicification. 309 - 348.97 Sericitization weak to moderate + strong to moderate silcification. Minor carbonate as patches in the lower part.	Sp-minor as specks or fine veinlets with qtz. Traces of Ga. Py is distributed throughout the interval (see sampling logs).
348.97	RHYOLITE TUFF OR FLOW (part of QP?)	Grey-greenish to red.	F. grained, aphanitic, very siliceous rock generally massive only. Locally (top of interval) exibiting sericite banding at 50° TCA. Qtz. eyes 1% or rare. 348.97 - 372.50 Variably sericitic and silicified giving locally mottled text. Spherulitic at 352-355m. Qtz. eyes 1-3%. Locally 1-2% Py diss. throughout the interval.		V.hard	Occ. late qtz. veining at 40-50° TCA. 353.5 - 5cm Qtz. vein at 60° with Py, Sp, Ga.	Sericite at the top as bands than more pervasive 20%.	As the bottom part of B-383 and top part of B-388 but lacking good banding. R.Q.D. - very good

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
		brick red	372.5 – 386 Weak to intense hematite staining with occ. chloritic narrow section. Also dark chlorite on fractures. At 376 – Spherulitic texture.		v.hard	No foliation. Fractures generally 30-50°	Hematite – pervasive Sericite locally moderate. Chlorite 5% mainly as fractures and occ. bands. 380.5 – 382 – Chlorite – 7% with fine Py.	Py – diss. as fine spots .5-2% or as hairline streaks with qtz. or chloritic sections.
			386 – 396 – Variably altered with sericite, silica and locally green chlorite usually with fine Py. Qtz. eyes rare.				Chlorite 7% Sericite 1-5% Silicified – moderate	Py – 2-5% as fine grained diss. or as streaks with qtz. and chlorite.
			396 – 426 – Sericite is increasing as bands (30-45° TCA) and as patches. Also small .5-2mm feldspar anhedral remnants present 1-3%.			Occ. late qtz. veins at 35° TCA.	Minor carbonate as beige spots Sericite – 3-8%	Py – fine diss. 1-3%.
		grey	426 – 467.8 – Mainly silicified – grey with locally (437.6-438) spherulitic.			At 436 – banding at 45° TCA. 440.9 – Flow(?) banding at 60° TCA.	Occ. sericite banding or in fractures.	
			467.8 – 510.8 – Variably sericitic and silicified interval of the same unit.			490.8 – Fualt zone at 35° TCA. 12 cm of fault breccia and gouge with chlorite, qtz. minor carbonate. 490.3 – 490.8 – Qtz. chlorite veining at very low angle to parallel to TCA.	Sericite 1-5% Minor chlorite. 495.20 – 15cm of strong sericite (Yellow-green).	Py 1-3% as fine diss. throughout the interval.
510.8	End of Hole.							

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / Nº du TROU: Lic. 319399-2 B-383

PAGE Nº / Nº de Feuille: 1

PROJECT / PROJET: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
B383	14/10/85	23/10/85	BQ

Logged by: Bojan Zabey

Remarks - Remarques

B383 FORE PAR DOMINIK #2 SURFACE

COLLAR INFORMATION - INFORMATION DU COLLET

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
-4400.00	-900.00	527.50	22.67	-65.00	504.75

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
457.2	027.67	-64.0
457.2	---	-64.0
911.44	---	-66.0
1371.16	026.67	-59.0
1828.68	---	-54.0
2286.60	025.67	-54.0
2744.32	---	-55.0
3202.04	023.67	-50.0
3659.76	---	-50.0
4111.48	021.67	-49.0
4572.20	---	-48.0
4724.44	016.0	-49.0

Comments - Remarques

Foré sans problème

Collet établit approximativement, l'arpentage se fera postérieurement.

SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU / Hole No B-383

Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté / Hardness	Structure	Altération / Alteration	Remarques – (minéralisation, eau, effondrement, etc) / Remarks – (mineralization, water, caving, etc)
0			CASING					
28.7								
	Andesite sequence		Represented by andesitic debris flows and agglomerates.			29.5 - 30.9. Fractured zone with vuggy leached sections with some limonite	Chlorite strong	
		grey-greenish	- Unsorted mainly felsic fragments from tuff to breccia size. - Matrix chloritic, fine grained - Fragments 30% - Elongation 40° TCA			Poss. fault at 30.4m - 52°TCA	Carbonate 2%	
						33.3 - 35 - Fracture zone with limonite, minor hematite, carbonate.		
35.0			Fine grained massive sericitic				Sericite	
	Felsite dike	grey	On contacts altered to clay. Upper faulted at poss. 35° TCA					
36.40	Andesite sequence		The same as 28.7 - 35. Occ. fine grained andesitic tuff sections, banded with thin weakly graphitic black bands at 40 - 45°TCA			42.3 - Qtz. vein at 40°TCA 5cm.	Chlorite 10% Qtz. as veins 8%	Po and minor Cp in weakly graphitic bands.
			At 47m with Po and traces of Cp. 58.85 - 60.11 - Siliceous zone with diss Po and minor Py as coarser cubes			55.5 - 57.0 - Qtz. veining parallel TCA 59.5 - Qtz. vein at 38°TCA 3cm	Carb. 15% Biotite 3%	
						Qtz. carb. veining - common	Ser. 5%	Po - fine grained - 7% with minor Py along foliation

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
60.11	Dacitic tuff (dike)	light grey	Fine grained, uniform of intermediate composition. At top part oval to round qtz. calcite filled "vesicles" 1-10 mm in diam. upper contact sharp at 90°TCA.			Occ. qtz. veinlets at various angles TCA (irr. or 20-60° TCA).	Carb. 20% Ser. 3%	
65.45	Mineralized tuff		Fine grained to lapilli tuff well bedded sections of siliceous cherty bands and chloritic bands at 48°TCA Also brecciated section with Py and Po - Broken cherty bands as fragments - Vaggy section with chlorite and Py Po, Py as semimassive bands				Chlorite 20% Carb. 7%	65.8 - 67 - Py 25% Po 8%
68.20	Dacitic tuff (dike)		The same as from 60.11-65.45 Strongly carbonated Upper contact sharp at 60°TCA Lower contact sharp at 70°TCA			Frequent qtz. carb. veinlets	Carb. 20% Ser. 4% Chlorite 5%	
74.88	Argillaceous sediments	grey to black	Consists of finely badded tuffs, eight siliceous and chloritic tuffs in the upper 1m, going into graphitic argillite section.			Minor deformation of laminae some tectonic		Py 5% - fine with bands or recrystalized as coarse cubes, or as streaks with qtz.

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
86.78	Acid lapilli tuff (may be called WE)		Unit consists of grey siliceous lapilli size fragments 5%, some beige and sericitic fragments. Chloritic fragments 5%. Matrix is fine, sericitic, siliceous 5% qtz. eyes .5-2mm. more abundant in the upper portion of interval. Two narrow (91.44-91.74) 91.93-92.20 sections of rhyolite (may be blocks), contacts sharp. 97.64 - 97.96 - Str. sericitized fine tuff-cream-coloured. Upper contact sharp at 35° TCA Occ. sericite as bands and fragments. Toward bottom of interval qtz. eyes diminish. Rare oreccia size fragments present.			87.1 Fracture at 15° TCA	Chlorite 7% Sericite 10% Carb 2% Chlorite - 10%	Minor specks of Py RQD - good CR - very good
101.00	Acid Tuff	grey	Finer grained than the above unit with siliceous massive sections, some fragments carbonated. Upper contact sharp.			Bending of sericite 45° TCA	Sericite - moderate	Rare specks of Py
102.16	Felsite Dyke		Fine grained, uniform, massive					

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		grey-greenish	calcareous rock. Very weak foliation at 45° TCA. Upper contact sharp at 45° TCA with occ. spots of Py			Often qtz. carb. veinlets.	Car. 15% Sericite - moderate	
104.88	Acid lapilli tuff (WE?)		Essentially the same as 86.18-101.0 with less (<1%) qtz. eyes. Elongated chlorite fragments 2mm-15mm 8%. Occ. sericitic fragments. Upper contact sharp at 46° TCA.			Occ. qtz. carb. veinlets at 40-70° TCA.	Sericite - 5% Chlorite - 6%	
			105.5 - 106.0 - Fine grained tuff with chloritic banding at 47° TCA.					
109.22	Intermediate to mafic dike	grey	Fine grained, uniform, massive, strongly calcareous rock. Contacts sharp upper 43° TCA lower 56° TCA					
110.50	Acid lapilli (qe) (WE)	grey	Polylithic lapilli tuff. Consists of subrounded 3mm-4cm unsorted fragments: - grey siliceous - generally bigger in size. - creamy sericitic fragments 5% (some pumaceous) - chloritic fragments - unevenly distributed			Fracturing 40-60 TCA common	Chlorite - weak Sericite along fractures	

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			Qtz. eyes 2-5% in both matrix and fragments.					
116.10	Felsite Dike		V. fine grained, massive, uniform, str. calcareous. Upper contact sharp 25° TCA. Lower contact sharp 70° TCA.			Qtz. veining common at 55-75° TCA.		Rare specks of Py
119.27	Acid tuff to lapilli (g.e.) (WE) -bedded-	grey to pale grey	Essentially the same as 110.5-116.10 but the sericitic fragments more abundant giving the unit lighter grey colour. Section (124.3-125.18) of good graded bedding sequence; from lapilli size clasts at bottom to a v. fine sediment at the top coarsening downhole. 123.46 - 124.30 - Fine grained interval 123.75 - 124.30 - Strongly calcareous. Qtz. eyes 2-8%. More abundant at top of the interval. Toward bottom decreasing of fragment size also decreasing of qtz. eyes. A bit stronger foliation at 47° TCA.			Weak to moderate foliation at 46° TCA. 137.5 - Fault with 3cm of gauge at 46° TCA.	Chlorite and sericite moderate. 130.4 - 20cm of sericite Chlorite - 10% Sericite - 10%	RQD - good Rare specks of Py

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			Graded bedding at 139.50m top up.					
149.30	Andesite or Dacite dike	grey	Fine grained, uniform, calcareous Contacts sharp - upper broken - lower 45° TCA.			Qtz. carb. veining common - irregular or at high angle TCA.		
153.60	Acid to Dacite tuff (qe) -bedded-	grey	Finer grained than above units. Consists of closely spaced fragments generally of tuff size but lapilli present at bottom of graded sequences. Numerous graded bedding sequences observed with coarsening at fragments downhole. Only few chloritic fragments ("fiamme") present toward bottom of interval the % of them increases slightly.			Occ. qtz. carb. veining 30-70° TCA. 160.5-162 - qtz. carb. veining 11 TCA.	Chlorite 7% From 165.4 - moderate sericite	Rare specks of Py and Po
			153.85 - 154.07 - V. fine acid tuff-sericitic with banding at 52° TCA.			Foliation moderate, toward bottom becoming stronger at 55° TCA.		
			From 165.4 - lighter in colour due to more sericitic alteration.			165.6 - Poss. fault at 73° TCA. - qtz. veining, broken core.	Chlorite - 20% Sericite - 8%	Py with qtz. chlorite at bottom of interval or diss and few bands.
			Qtz. eyes 5%, decreasing toward bottom.					

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
182.5	Argillitic Zone (Poss. Fault Zone)		Argillitic, locally weakly graphitic, fine laminated rock with occ. Py as thin bands along foliation. 182.8 - 183.70 - section of brecciated chloritic and sericitic QP. Strong qtz. veining Upper contact looks gradational.			Banding at 50° TCA. Tectonic deformation of Laminae Str. qtz.-veining 1cm gauge and minor talc at 183.95 at 60° TCA + qtz. 183.8-184.30	Strong chlorite Talc	Py as fine interbedded Laminae. Poss. fault zone.
184.95	Quartz-Porphyry-Tuff - Mineralized	light greenish to yellow	- Fine grained sericitic rock probably tuff - Hard to mod. hard where altered - Abundant Py locally as bands 45-50° TCA. Rare qtz. eyes at the top to up to 25% at lower part. - Sericite is pervasive or as wispy bands at 45-50° TCA. - Chloritic bands with Py.			Weak foliation at 40° TCA	Sericite - strong 25% Chlorite - 8%	Py - as streaks and bands with siliceous - chloritic bands 186.4 - 20cm of semi-massive Py with qtz. chlorite.
196.55	Brecciated Zone	grey to black	Gradational contact. Unit consists of brecciated sections of above QP cemented with black argillitic material Some tectonic brecciation present. - More massive sections of QP with strong sericite around			Strong foliation accentuated by sericite-qtz. at 40° TCA at 198.70m.		Occ. py and tr. of Cp in sericite qtz. sections.

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Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondrement, etc) / Remarks - (mineralization, water, caving, etc)
204.42	Quartz-Porphyry-Tuff - flow		The same as unit 184.95-196.55. Strongly sericitic with dark spots of Py. Occ. chloritic bands at 45° TCA. Rare bigger (2cm) fragments. Upper contact sharp at 35° TCA.			Qtz. veining at 20° TCA at the contact with the unit below.	Strong sericite 10% chlorite	203.3 - Fine veinlet of coarse Py and fine Asp(?) Py also as fine spots.
208.45	Felsite Dike		V. fine grained, uniform. Upper contact at 25° TCA along qtz. vein.					
214.25	Quartz-Porphyry-Tuff(?) (flow)	yellow-green	Essentially the same as previous QP unit Locally (220.8-223) brecciated with yellow-green sericite around fragmented rock. Toward bottom fine grained uniform with sericite-silica bands at 50° TCA. Qtz. eyes .5-2mm 2-4% unevenly distributed. 232.7 - 234 - Py bearing siliceous bands at 34-45° TCA but at 232.5 sericite silica banding at 75-80° TCA.				Strong sericite	Py - as bands with qtz. chlorite-sericite, diss. or as fine streaks. Usually fine grained. Locally coarse Py cubes.
233.9	Felsite Dike		Fine grained, very uniform unit. Central and lower			Qtz. veining common at 35-70° TCA.		

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-383

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			part coarser grained with dioritic texture. At the bottom v. fine grained again. Could be chilled margins(?) Lower contact at 30° TCA. Some diss. Py at top part.			257.9 - Fault gouge ,qtz. veining at 40° TCA over 20cm.		
264.70	Lapilli tuff - altered	light green to beige	Fragmental texture masked by alteration - Strong sericite and silica alteration as prevasive or as bands at 50° TCA. 264.70 - 267 - Strongly mineralized with Py. At the top, 40cm of semi-massive Py. 267.0 - 278.8 - The same with less Py, strong sericite and silica; locally brecciated texture. Often dark chlorite on fracture surfaces.			Foliation at 50° TCA 265-265.5 - Fracture 11 TCA. 265.4 - qtz. vein at 40° TCA 275.9 - qtz. vien at 50° TCA Part of brecciation could be tectonic. At 276.1 - Poss. fault-smashed up chloritic rock.	Strong sericite, silica Chlorite moderate.	Py as bands and diss. throughout. Sp - traces at 270.8 as small irregular veinlet with silica. Ga - at 273.8 with Py, qtz. minor Sp.
278.80	Silicified tuff	grey	Massive, f. grained with sections of tuffaceous texture obliterated by silicificiation. All intensely silicified. Locally brecciated. Upper contact - gradational.			279-283.4 - Broken core. 278.9 - Fault - Broken and smashed up core. Vuggy sections with Py + 1cm gauge at poss. 70° TCA.	Silicification strong	Py, minor Sp and Ga as veinlets, streaks at very irregular angles.
292.15	Silicified lapilli tuf	grey	Fragmental texture. Matrix supported; 25-30% siliceous			No foliation developed.	Strong silicification.	Py, minor Sp, Ga as streaks,

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Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture - Composition / Granulometrie - grain size	Fracture/ Metre	Dureté / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondrement, etc) / Remarks - (mineralization, water, caving, etc)
			fragments; subrounded to sub-angular (the bigger ones) in grey siliceous matrix. Fragments unsorted. In the top part several massive sections that may be blocks. Cross-cut by numerous veinlets mineralized with Py, Sp and tr. of Ga. Occ. small feldspar phenocrysts (remnants).					veinlets or impregnation around fragments Also Py v.f., disseminated.
304.85	Sericitic Tuff	yellowish green	The same as the previous unit with strong sericite alteration. Some brecciation observed.			305.10 - Late qtz. veinlet 25° TCA.	Strong sericite	Mainly Py, Sp traces as impregnation around fragments, diss. or as streaks.
307.30	Silicified lapilli tuff		Siliceous fragments 2mm-5cm Lapilli size predominant. - Mainly grey subangular to subrounded. - White cherty fragments present 1% Some fragments sericitic Also siliceous blotches occasionally - Matrix aphanitic, v. siliceous.			Fracturing common at various angles TCA, generally coated with qtz., Py and sericite. RQD - good Generally massive. Toward bottom foliation developing from 341m at 56° TCA.	Strong silica with sericite developing toward bottom of the interval.	Py, minor Sp, Ga - around fragments, as streaks or veinlets usually with qtz. Toward bottom mineralization along foliation planes mainly.

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
			Qtz. eyes generally destroyed and broken but present 1%			314.4 – qtz. vein at 30° TCA -1cm		309.6-310.20 – 10% Py
						323.2 – qtz. vein at 60° TCA -1cm		317.0 – 2cm of Py band at 35° TCA.
			Locally small 1mm white feldspar.			334.2 – qtz. vein at 40° TCA -3cm		
						347.20 – 20cm qtz. vein at 60° TCA.		
351.60								
	Sericite-silicified lapilli tuff	grey to yellow-ish green	The same unit as above continue – variably altered in sericite and silica.			Some broken up and fractured sections with qtz. veining.		
			351.6 – 356.67 – Moderately sericite-silica alteration. Moderately sheared with foliation at 50° TCA.			Shear zone at 353m -55° TCA Qtz. veining 60-90° TCA also as irreg. veinlets or patches Poss. fault.	Mod. sericite + chlorite	Py strong min. as dissem. and along foliation f. grained.
			356.67 – 357.6 – Intensely sericitized section – massive sericite – contacts sharp. Py as fine veinlets at 60° TCA + diss. cubes. Also minor Sp on rims of qtz.					356.1 – massive Py vein with qtz. at 20° TCA. Minor Sp and Ga.
			357.6 – 376 – mainly silicification.			Foliation at 55° TCA 372.5 qtz. vein 30cm		357.9 – Qtz. vein at 70° TCA 5cm with Py, Sp.
			376 – 390.8 – more sericite Toward bottom breccia size fragment present, some are sericitic or with sericite rims occasionally.				sericite, silica	Py along foliation + minor Sp and Ga. Py up to 10-15%.

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Profondeur / *Depth*	Genre de Roche / *Rock Type*	Couleur / *Colour*	Texture - Composition / Granulometrie - *grain size*	Fracture/ Metre	Duretée / *Hardness*	Structure	Altération / *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) / *Remarks - (mineralization, water, caving, etc)*
			Also fragmented texture and foliation more evident. Locally qtz. eyes observed.					
390.8	Silicified Tuff (Quartz Porphyry?)		Contact with the above unit sharp-irregular. Top 3m tuffaceous texture evident. Also brecciated. Further down becomes massive v.f. grained to aphanitic. Qtz. eyes 1% Locally while 1mm feldspar phenocrysts present.			Occ. qtz, carb-Py veining at 40-50° TCA. Weak foliation at 40° TCA Locally	Strong silicification. 389.7 - 50cm of sericite alteration. Sericite on some fractures.	Could be part of QP unit. V. fine Py dissemination throughout + as fine band in the upper part.
401.80	Felsite dike	greyish green	Fine grained, uniform. Locally qtz. veinlets or blebs with fuchsite around. Upper contact sharp at 17° TCA. Lower contact sharp at 30° TCA. along 4cm of qtz. vein.					
406.10	Silicified Rhyolite tuff or flow	pale grey to yellowish green	Generally massive, v. hard, str. silicified rock. Indeterminate texture due to silicification. Fine grained. Qtz. eyes present .5-2% unevenly distributed.			Generally massive but in the sericitic sections weak foliation developed at 45-50° TCA.		Py-v. fine diss. throughout Sp as veinlets or specks with qtz.

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			Locally white 1mm feldspar remnants.					This unit may be part of the QP unit.
			406.10 - 409.75 - Sericite Zone. Qtz. eyes in the upper part 2-3%. 411.7 - 412.8 - Sericite Zone 414.25 - 414.80 - Sericite Zone.					
			414.80 - 432.10 - Strongly silicified - fine flow(?) banding at 45° TCA.			Numerous qtz. Py veinlets at various angles TCA. 412.5 - qtz. vein 1cm at 65° TCA cutting and displacing qtz. vein 11 TCA and at 45° TCA. 417 - flow(?) banding at 45° TCA.		422.2-422.64 - Fine grained Py 20% with qtz. From 422.5-422.64 - Cp as blebs 2%. From 422.64-423: massive Sp with several Cp blebs at the top.
			422.64 - 423.04 - Massive Sp as coarse grained - vein. Upper contact roughly 40° TCA. Lower irr. 30° TCA. Minor Ga and Cp.					
			423.3 - 2cm vein of Sp at 46° TCA.					
			432.1 - 440.7 - Sericite Zone as bands at 45° TCA. Generally qtz. eyes more pronounced in sericitic sections.					Py diss. throughout the unit with minor and occ. specks or veinlets of Py and Sp.
			441.9 - 449.5 - Autobrecciation (at least part of it) or fragmental.			Foliation 50° TCA. At 486 sericitic bands at 65° TCA.		RQD - v. good

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SELCO MINING CORPORATION LIMITED

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			450 - 475.6 - Variably sericitized.					
			From 498 - tuffaceous texture more evident. At bottom part cherty fragments recognizable not as much silicified. Minor chlorite present.			503.50 - 20cm qtz. veining Qtz. chlorite banding at 85° TCA at 504.3m.	Minor carbonate with qtz. veining.	
504.7			E.O.H.					

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: Lic. 343337-2 B-386

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B386	22/10/85	01/11/85	BQ

Logged by: Bojan Zabev

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
-35+00	-8+00		022.67	-65.0	481.00

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
91.44	23.67	-52.0
182.44	19.67	-32.0
274.32	15.67	-27.0
365.76	13.67	-31.0
426.72	09.67	-35.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

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Hole No B-386

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
0			CASING					
38.4	DTL (W) or WATE	grey-greenish	Felsic grey fragments 5-20% 2mm-3cm generally subrounded. Chloritic fragments 2-7% 2mm-5cm irreg. shaped, some fiamme like. Generally not oriented or flattened.		Mod. hard	At 46m - 4cm qtz. carb. vein at 40° TCA. Fracturing generally at 40-50° at 47.3 with limonite.	Chlorite 10-15% Carb. minor with qtz. veining. Sericite 2-3%	May be called WATE
54.20	DACITE TUFF	grey-greenish	Unit above grading into fine grained dacitic tuff, fairly uniform. Rare chloritic fragments present.		Mod. hard			
57.25	DTL (W) or WATE	greenish	The same as from 38.4 - 54.2 Contact gradational. Appears to be more chloritic.		Mod. hard	Weak foliation at the top at 50° TCA.		
59.15	FELSITE DIKE	Green	V. fine grained, interm. composition. Includes blocks of DTL. Locally sheared at 25-35° TCA Contacts sharp: upper 48° TCA lower 37° TCA		Mod. soft	Frequent qtz. veining at 50-70° TCA.	Sericite at sheared sections. Carbonate - pervasive 10%	

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
62.40	DTL (W)		The upper part - coarser tuff includes felsic and chloritic fragment up to 6cm but majority are lapilli size. Occ. cream col oured fragments. Toward bottom becoming finer grained, also the chloritic "fiamme" are smaller (2-10mm)		Mod. hard to mod. soft	At 65.3 - qtz. carb. vein at 50° TCA. 69m fracture at 25° TCA.	Chlorite 10-15 Sericite 2-5% on fractures. Carbonate 1-2%	
72.55	FELSITE DIKE (?) AND D.TUFFS	greenish to pale green	Mixed interval dacite tuffs (bloc) and v.f. grained aphanitic felsite dike material often str. sericitic. Lower contact sharp irregular but roughly at 50° TCA.			Fractures common at 30-50° TCA with sericite.	Sericite strong locally and and on fractures.	
78.80	WATE or DTL (W)	grey greenish	WATEtexture Grey siliceous fragments 10-20% subrounded to subangular. About 7% chloritic fragments some flattened "fiamme" some subangular or starshaped that may be interstitial chloritic matrix. ~2% light grey to cream fragments, some have sericitic rims.		Mod. hard	Locally weak foliation at 50° TCA. Fracturing common ususally with sericite.	Chlorite 10-15% Sericite 2-5% Carbonate 1-3%	

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
88.97	FELSITE DIKE(?)	Grey greenish	V.f. grained, aphanitic includes blocks of it's wallrock Strongly sheared sericitic on fractures. Upper contact ~55° TCA Lower contact faulted at 45° TCA.		Mod. soft to soft	Fault at 92.0 at 50° TCA. 1 cm fault gouge. Rock strongly sheared on both sides 50-55° TCA.	Sericite strong on fractures and contorted veinlets.	
92.0	WATE or DTL (W)	Grey-green	WATE texture. Very similar to 78.8 - 88.97 but coarser grained. Chloritic fragments range 2mm-4cm over 1cm. They stand out better due to more felsic matrix. 96.06 - 4cm felsite dikelet at 65° TCA. Rare cream col oured fragments. At 93.7 - 6cm white felsic fragment (poss. QP) with Py diss. Rare qtz. eyes present. 111.27 - 111.36 - Felsite dike - at 85-90° TCA and qtz. veining along contacts.			Occ. qtz. carb veining and fracturing with sericite. 106.4 - Qtz. carb. vein at 52° TCA.	Chlorite 10-15% Sericite 3-5% Carb. - 3-4%	

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
111.36	DTL (W)	Darker green-grey	Similar to the unit above but appears to be more mafic in composition. 6-7% chloritic fragments and occ. grey siliceous lapilli clasts. Locally fine grained tuff section.			Toward lower contact foliation developed at 62° TCA. Occ. qtz. carb. veins 60-90° TCA.	Chlorite 15-20 Sericite 2-3% on fractures. Carb. on	Rare Py on fractures.
125.32	FELSITE DIKE (intermediate)	Greyish green	V.f. grained, uniform str. calcareous Contacts sharp: upper 62° TCA lower 75° TCA along qtz. vein.		Mod. soft	X-cut by numerous qtz. carb. veinlets generally 50-90° TCA.		Py as coarse cubes locally.
127.80	DTL (W) to DT Bx (Qe)	Greenish grey	127.8 - 135 - Similar to 111.36 - 125.32 but chloritic fragments 3-5% and smaller in size on average. Includes several white siliceous fragments. 135 - 141.75 - Finer grained DTL with several inclusions of breccia size clasts. Locally minor feldspar phenocrysts present. Occ. quartz eyes.		Mod. hard	129.10 - Qtz. vein 3cm at 85° TCA with minor Py.	131.10 - 10cm of sericitic zone.	

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
			141.75 - 142.90 - Majority of fragments breccia size strongly sheared at the fault			142.4 - Fault Zone 6 cm qtz. veining, fault gouge at 80-90° TCA. Foliation on both sides 65-75° TCA.	Sericite on fractures common. Chlorite 15-20%.	
			142.9 - 158 - DTL with % of light grey and white siliceous clasts increasing. (3%) chlorite-fragments aver. < 1mm in size. Increasing of qtz. eyes up to 3% locally.			152.30 - Fault Zone 3cm of gauge. Strong foliation 85-90° TCA.	Qtz. as irreg. patches and veinlets.	
			158 - 162.8 - Abundant breccia size fragments (up to 7cm) subangular to subrounded Contacts gradational. Fragments include - grey siliceous with and without qtz. eyes, green andesitic and cherty looking clasts.					
		grey to greenish	162.8 - 166.8 - Finer grained lapilli, lighter in colour. Occ. sericitic fragments and bands. Also locally Py sized fragments or Py clasts. Qtz. eyes 1-2%			Foliation weak at 65-70° TCA.	Sericite mod. Chlorite 8-10%	
166.80	DT	green	Contact with the above unit gradational. F. grained to aphanitic fairly uniform chloritic tuff.		Mod. soft			(part of it may be dike)

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			169.77 - 170.0 - Qtz. chlorite sericite, carb. veining at 55° TCA may represent faulted contact with the units below.					Minor Py with Qtz.
170.00	QUARTZ PORPHYRY	grey to greenish grey	Fine grained, massive siliceous but not as the real QP unit. Chlorite up to 5%. Qtz. eyes ubiguitous. 2-5%, .5mm-3mm		hard to mod. hard.			Py fine diss. with sil. at the top 2m.
			170.0 - 196.30 Variably altered with light beige silica - sericite bands or irreg. patches. Poss. banding at 40° TCA - 186.2 - chloritic and light siliceous 1cm bands.			Frequent qtz. carb. irr.	Chlorite 3-5% Silica 5-8% Sericite 5% Carb. 1-3%	
			196.30 - 215.40 - Mainly chloritic with faint chloritic banding at 209m and 214.8m at 50° TCA. Qtz. eyes 3-5%. Many angular look like grains 1m-3m.			205.8 - 206.40 - Fracture zone - poss. fault at 40° TCA. →	Strongly altered zone. Ser. Silica Chlorite 5-10%	
			215.40 - 227.2 - Variably altered - sericite - chlorite - silica.					
		pale grey to beige	227.2 - 249.25 - Strong silica sericite alteration. Occ. chloritic bands.		hard to mod. hard	Qtz. veining usually at 40-80° TCA or irr.	Sericite - strong Silica - strong Chlorite - locally moderate.	

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
			Occ. chloritic bands. White cherty veins commonly irr. have Py on rims. Also grey qtz. veins or bands often with minor Py.			242.3 - Late qtz. carb veinlet at 50° TCA cutting grey qtz. irr. (at low TCA) vein with Py.		
249.25	DACITE TUFF and bedded DTs.	Greenish grey	Contact with above unit sharp at 50° TCA.		Mod. soft.			
			249.25-251.12 - Bedded tuffs at 60° TCA. Several graded bedding sequences with fragment size < 3mm. Occ. lapilli present. Qtz. eyes 1-3%					Py a fine grained in streaks or specks 1%.
			251.12-251.65 - Interval of coarser tuffs with 4% of green chloritic fragments.					Py 1%.
		grey	251.65-257.30 - Interval of fine grained and occ. coarser grained tuffs, mod. silicified with occ. Py bands. Qtz. eyes ~1%.		Hard	253.90 - Qtz. vein 1cm at 65° TCA.	Silicification - moderate locally. Chlorite as spots with qtz. and Py.	254.3 - 10mm band of Py-qtz. 10% Py. Occ. thinner bands of Py generally at 50-60° TCA. Also diss. of fine specks Overall Py - 5%.
257.30	DACITE TUFF LAPILLI - DT(L) (qe)	grey to dark grey	Fragmental texture. Mixed interval of lapilli tuffs, tuffs and breccias. Commonly pyritic sections mod. to strongly silicified.		Mod. hard			

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			257.30-268.10 - Mainly siliceous grey fragments. 5-7% 2mm - 4cm. Unsorted. Matrix siliceous tuff locally strongly pyritized. Also locally (ie. 266m) Py clasts common. Qtz. eyes - 1-2%			Fractures common at 40-60° TCA. Locally weak foliation at 45° TCA. 264.30 - .5cm qtz. veinlet 85° TCA.	Silicification - locally 10% Sericite - 2% Chlorite 2-3%	Py - 3-7% as f. grained diss. around fragment in the matrix as clasts or streaks.
			268.10-271.20 - Breccia size sil. frag. predominate.				Silicified.	Py - around fragment fine grained 7-8%
			283.7-289.0 - Variably silicified and sericitized zone. Py - clasts - occasionally. Qtz. eyes up to 3% in the lower part of interval.				Sericite as bands on around fragments. Chlorite - grain - 2-3%	
			289.0-291.75 - Fine grained massive, highly siliceous and str. sericitic rock (QP?) Has 1% round 1-6mm qtz. forms (grains?). Contacts sharp: upper at 10° TCA - irr., lower at 60° TCA.		Mod. soft		Sericite strong Silica Chlorite locally and at lower contact.	Rare
		greenish	291.75-293.30 - DT more chloritic - finer grain over 1.5mm closely packed. Occ. py clasts.				Chlorite 6%	Py - 1% diss.
			293.3-302.5 - Mainly lapilli tuff with mod. silicified			Occ. clean fractures 40-70° TCA.	Chlorite ~5% Silica 5-20%	Py - 2-5% locally as fine grained.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU / Hole No B-386

Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture – Composition / Granulometrie - grain size	Fracture/ Metre	Dureté / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondrement, etc) / Remarks - (mineralization, water, caving, etc)
			sections with Py. Py clasts(?) also present (1%). Qtz. eyes 1-2%.					
302.50	DACITE TUFF (LAPILLI) (qe)	green grey	Tuffaceous texture evident. Mainly tuff size clasts 3mm Also minor lapilli fragments present. Chloritic - mod. Qtz. eyes ~1%		Mod. soft	304.70 - Qtz. veinlets at 40° TCA. Occ. cherty looking veins irr. 40 to 90° TCA.	Chlorite 10-20%	Py - minor diss. through out. At 312.7 - 20 cm with coarse Py agregates - 5%
331.0	DACITE TUFF -DT(L)	green grey	Very similar to the above unit, only chloritic "fragments" more abundant - 4% as irreg. shaped often elongated 2-10mm. Qtz. eyes becoming rare.		mod. soft to hard		Chlorite 10-20%	Py as diss. - 1%
357.25	DACITE TUFF - DTL	green grey	Fine to coarser, chloritic tuff with small interval (344.4-346.4) with abundant chloritic entities. 343.23-343.32 and 344.20-344.40 felsite dikes.		mod. soft	clean fracturing occ. at 40-80° TCA. At 344.5 - Fault with 2cm of gouge 85-90° TCA.	Chlorite 10-20% Silica - locally	Py-v.f. grained as bands, diss, or streaks. Locally replacing fragments 348.3-349.2 - 8-10% Py 350-351.5 - Often Py aggregates into round forms 2mm-2cm in diam. (fragment replaceous?) Note: qtz. veining v. rare.

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-386

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
357.25	DACITE TUFF - DT(L) (W)	green grey	More siliceous than the above unit with 3-7% chloritic "entities". Occ. white siliceous clasts 5mm-2cm present. Massive. Rare Py clasts or spots more abundant toward bottom of interval which is mod. to strongly silicified.		Mod. hard to hard	359.8 - Qtz. vein 3cm at 75° TCA with chl, minor Py. Mod. foliation at 377m at 52° TCA.	Chlorite 5-15% Silica - becoming more intense at bottom of the interval.	372-377.45 - 3% Py.
377.45	DACITE TUFF	grey to pale	Contact with the above unit relatively sharp at 54° TCA (masked by silicification). Top 2m mod. silicified then grading into fine grained tuff, massive, uniform, monotonous and featureless sequence of fine chloritic D. tuffs.		Mod. soft to to hard	Occ. fracture at high angles TCA usually with chlorite.	Chlorite mainly down to 430m. Silica and sericite increased mod. to strongly from 430 to E.O.H.	411.0 - Irr. Py-qtz. vein with speck of cp.
			386-395 - up to 1% white 1mm-4mm rounded to euhedral phenocrysts of feldspar. Some are recrystalized qtz.			400.50 - Qtz. chlorite vein 2cm at 40° TCA, minor Py.	Carbonate appears as pale beige spots.	
			From 430 - colour progressively becoming lighter grey to pale grey due to increasing silica and sericite.			410.8 - Qtz. chl.vein at 45° TCA with some py.		416.8 - qtz. chlorite veinlets at 45° and 55° TCA with Py, minor Sp and Cp. Sp at 417.50 - with chl/qtz.
			435-438 - Abundant Sp. Cp minor Ga as irreg. fracture filling with qtz. and occ. chlorite.		Mod. hard	419.8 - 1cm qtz. vein at 70° TCA.		421.6 - Several small patches of Sp. 434.95-438.3 - Average 3% Sp, 1% Cp as irr. veinlets and patches or blebs.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

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Hole No B-386

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
								At 436.10- minor Ga.
			443.20 - Sp vein irr. to parallel TCA over 30cm.					443.10-443.8 - 5% Sp.
			Occ. Cp veinlets and irr. blebs 461-471.					From 461-471 - Mainly Cp mineralization in occ veins with Qtz. chl. as
			Also Sp veinlets 479.			464.3 - Qtz. with minor Cp parallel TCA.		at 461.10 - 2cm qtz.-Cp vein at 60° TCA.
						Occ. barren qtz. veins - 30° TCA.		463.0 - Qtz. Cp, at 08° TCA.
								Minor Sp veinlets at 479m at 35° TCA.
481.0 E.O.H.			End of hole at 481.0m.					

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

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HOLE Nº / *Nº du TROU*: Lic. 343337-3 B-387

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B387	04/11/85	05/12/85	BQ

Logged by: Bojan Zabev

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
	-37+00	-8+00		-65	474.27

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
48.77	29.11	-65.0
140.21	27.67	-61.0
231.65	28.27	-58.0
323.09	27.67	-58.0
414.53	25.67	-59.0
429.77	25.67	-60.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU / *Hole No* B-387

Profondeur / *Depth*	Genre de Roche / *Rock Type*	Couleur / *Colour*	Texture – Composition / Granulometrie – *grain size*	Fracture/ Metre	Duretée / *Hardness*	Structure	Altération / *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) / *Remarks – (mineralization, water, caving, etc)*
0			CASING					
21.0	QUARTZ PORPHYRY	Grey-greenish to purple	Fine grained, massive, siliceous rock. Locally stained by hematite. To about 46.0m bluish vesicles? round siliceous forms developed that give the rock fragmental texture (may be devitrification effect). Also qtz.-calcite white spots up to 1% irr. shape. Qtz. eyes 1-3% with average size 1mm. 123.8 - 125.20 - Intermed. dike. V.f. grained uniform weakly calcareous, mod. soft.		very hard to hard	Occasional qtz. carb. veinlets. At 40.3 - Qtz. vein 2cm at 10°TCA. At 41.10 and 42.10 - fracturing at 10°TCA with dark chlorite. At 46.5m - 30cm of limonite fractured zone, with minor leaching. Fracture at 50 and 65°TCA. At 52.10m 1cm qtz. vein with specularite (massive hem.) on rims and minor Mt. 63m - fracture at 05°TCA. 66.4m - 6cm of qtz. veining at 40°TCA with specularite, Mt, limonite, minor Py - brecciated. Occ. weak foliation at 40°TCA (114.6m). 125.8 - 126.6 - Fracture parallel TCA with carb., dark chlorite, minor Py.	44.5 - 46.5 - Intense hematite staining. Hematite staining - throughout the interval in different intensity. 57.5 - 74 - Intense hem. stain From 79 - minor sericite appears as fine bands at 40-45°TCA or along fractures. 105 - 108 - more chloritic, also green chlorite on fractures.	Occ. specks of Py.

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SELCO MINING CORPORATION LIMITED

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
			Upper contact at 45°TCA sharp. Lower irr. along qtz. vein.				135 - 137 - Strong chlorite.	
							142.5 - 145.5 - Mod. to intense hematite staining.	
						157.3 - Fracturing parallel TCA with green chlorite.		
						162.30 - 162.60 Narrow (1-3mm) differentiated bands oriented 45°/C.A.		
						171.3 - 171.5 Highly fractured zone. Main fabric 65°/C.A.	Fairly intense leaching. Some sericite, chlorite.	
						187.00 - 190.40 Alternating siliceous - chloritic bands (1-7mm) (30°/C.A.)		
								191.70 - 192.50 Diss. Py (1%) within highly contorted, irregular-shaped qtz.-carb. veins.
							Trace sericite in alteration rims.	
		greenish grey (minor lime-green)	196.00 - 206.78 Internal differentiated banding increases in intensity. Locally, elongate pisolites are present.		very hard	Banding is generally oriented at 39°/C.A. Some siliceous banding appears contorted.	Banding is moderately chloritic.	

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
			206.78 - 210.20 Strong banding persists, however, numerous elongate pumaceous fragments are present within the matrix.			Banding (fabric) changes orientation from 44°-50°/C.A.	Sericite alteration increases down the unit to moderate levels.	
210.20	DACITE TUFF (L)	Dark greenish grey	DACITE TUFF (LAPILLI) F.g. tuffaceous matrix fades into a more welded texture in places. These welded zones contain elongate f.g. (2-6mm) chloritic entities. Matrix contains poorly sorted f.g.-c.g. (2mm-5cm) siliceous fragments. These fragments are irregular in shape and internally featureless.		very hard	Forms gradational contact with upper Q.P. unit. Proportion of fragments increase from the contact. Internal fabric is heterogeneously developed. Fabric is generally (64°/C.A.)	Very minor sericite alteration along the fabric.	
213.80	DACITE TUFF (SIL)	Light - dark greenish grey	SILICEOUS DACITE TUFF Relatively homogeneous, f.g. matrix. Internal features are obliterated due to intense silicification. At irregular intervals, unit contains narrow zones (4-10cm) of D.T.(L). Fragments in the D.T.(L) are siliceous and relatively f.g. (0.2-1.5cm).		very hard	Weak internal fabric (60°/C.A.). Gradational contact with adjacent units. D.T.(L) subunits are sharply defined (50°/C.A.)	Unit is intensely silicified. Locally, zones contain minor sericite.	

SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
220.95	DACITE TUFF (L)	Dark greenish grey	DACITE TUFF (LAPILLI) Similar texture to interval 210.20 - 213.80.		hard	Gradational contact. Strong internal fabric (40°/C.A.).	Moderate sericite has developed along the fabric.	
223.92	DACITE TUFF (SIL)	Light lime to greenish grey	SILICEOUS DACITE TUFF Similar texture to interval 213.80 - 220.95. Minor relic pumaceous fragments.		very hard	Moderately developed fabric (70°/C.A.).	Matrix weakly sericitized.	Minor (<1%) diss. c.g. (0.4-0.8cm) euhedral pyrite.
229.00	DACITE TUFF (L)	Light - dark greenish grey	DACITE TUFF (LAPILLI) Intense fragmentation (breccia?). Fragments are poorly sorted and vary from f.g. to blocks size (0.5 - 15.0cm). Some massive sections may also be blocks. Proportion of fragments varies from 50-70%. Fragments are clast-supported in places. There are equal proportion of siliceous and chloritic fragments.		very hard	Defined by a sharp contact (80°-85°/C.A.). Weak internal fabric (60°/C.A.). Minor elongation of fragments parallel to fabric.	Matrix is weakly sericitized, chloritized. Intensely carbonatized in places.	Trace (<<1%), f.g. diss. Py in the matrix.
234.39	DACITE TUFF (L)		DACITE TUFF (LAPILLI) Similar texture to interval 210.20 - 213.80. Siliceous and chloritic fragments make up 10-15% of the rock. Grades into zones of more concentrated fragments (20-35%).		hard	Fairly strong internal fabric (47°/C.A.). 46.91 - 147.22 Series of quartz veins (48°/C.A.).	Highly siliceous matrix. Weakly sericitized in places.	240.0 - 249.0 F.g., diss. Py (<1%) within fragments and the matrix.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
	DACITE TUFF (L) (Py)		255.34 - 259.20 PYRITIC MATRIX F.g. Py aggregates intergrown with quartz forms the matrix. Matrix contains poorly-sorted f.g.-c.g. (0.5-4.0cm) siliceous fragments. Fragments (10-15%).		very hard	Contact is gradational. Py weakly diss. on either side of unit. Weak fabric (52°/C.A.)	Highly silicified. Weakly sericitized in places.	F.g. Py (25-35%)
	RHYOLITE?	Light green-white	263.37 - 268.50 Highly silicified, leached zone. Internal bands (foliation) defined by sericite concentrations. Localized conc. (5%) of siliceous fragments.		hard	Gradational zone within D.T.(L) unit. Internal fabric (52°/C.A.)	Intensely leached.	Diss. Py (2-3%) confined to narrow (1-2 cm), irregular-shaped Qv.
	DACITE TUFF (L) (Py Bx)	Light greenish grey	276.10 - 286.00 Lapilli rock contains f.g.-c.g. Py concentrations (fragments) (0.5-4cm). The pyritic fragments are rounded and/or irregular shaped. Pyritic fragments make up 3-5% of the rock.		very hard	Locally, strong fabric (65°/C.A.)	Highly leached. Weakly sericitized in places.	Py fragments vary in conc. from 3-5%.
302.13	QUARTZ PORPHYRY (SIL)	Lime green-white	SILICIFIED QUARTZ PORPHYRY Highly silicified, almost homogeneous matrix. Contains v.f.g. (≃1mm), weakly diss. (1%) quartz eyes. Localized breccia zones develop where Qv cuts the unit.		very hard	Fairly sharp, but irregular contacts. Localized fabric development (44°/C.A.) Sericite more abundant where fabric develops.	Unit is strongly sericitized. in places. Minor chlorite.	Weakly diss. Py (1%) in places. Isolated chloritic veins contain

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralisation, water, caving, etc)*
						304.58 - 305.10 Highly brecciated zone. Minor limonite along fractures.		305.50 - 305.70 Isolation chloritic veins contain some Py Cp and Sph? 316.50 - 320.10 Diss. (1-2%) Py within the matrix.
		Dark grey-black	321.87 - 338.48 Zone is cut by numerous qtz.-carb. veins, creating brecciated areas. Veins usually have carbonate halos. Only minor relic Qe are present. Pervasive carbonatization.		hard	Although veining is generally irregular, it is vaguely oriented at 30°-35°/C.A.	Zone is intensley silicified and carbonatized. Only trace sericite in places.	
		Light - dark grey	326.48 - 330.05 PISOLITIC Unit contains small (0.2-0.4cm) rounded quartz pisolites. (20-30%).			Forms gradational contacts with adjacent units.	Pisolites often consists of a carbonate halo.	
	QUARTZ PORPHYRY (SIL)	Light green-grey	338.48 - 350.48 Similar to interval 302.13 - 321.87.			Localized fabric coincident with sericite concentrations. (58°/C.A.) Carbonate conc. also define vague banding (55°-60°/C.A.)	Intensely sericitized in places. 339.25 - 342.40 Highly sericitized patches throughout this zone.	F.g. (<2mm) Py is weakly diss. (<1%) in the matrix.

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
330.43	DACITE TUFF (L)	Light - dark green-grey	DACITE TUFF (LAPILLI) F.g., siliceous matrix is weakly banded in places. Contains erratically dispersed (2-10%) rounded siliceous fragments. Localized conc. of Py are present in the matrix.		very hard	Gradational contacts. Internal bands (foliation) oriented at 46°/C.A. 353.80 Narrow qtz.-Py veinlet (30°/C.A.)	Weakly sericitized in places.	352.35 - 356.90 F.g. Py (3-5%) is diss. within the matrix and in irregular-shaped veinlets. 352.60 (2cm) narrow veinlet with Sp?
357.37	DACITE TUFF	Dark grey	DACITE TUFF F.g., homogeneous, moderately chloritized matrix. Contains irregular-shaped interstitial pyritic bands. Occasionally cut by narrow qtz.-carb. veins.		hard	Moderate fabric varies in orientation from (40°-60°/C.A.)	Matrix is weak to moderately chloritized. Areas of strong fabric contain significant chlorite. Only trace sericite in places.	Irregular bands of Py (2-5%) are erratically distributed within the matrix.
369.20	DACITE TUFF (L)	Light - dark grey	DACITE TUFF (LAPILLI) F.g. fairly homogeneous matrix. Some zones form of a "welded" texture containing f.g. chloritic (fiamme?). Contains poorly-sorted rounded to irregular-shaped siliceous fragments. (10-20%).		hard	Strong fabric near upper contact (53°/C.A.). Intensity of foliation decreases further down the unit.	Matrix is moderately chloritized. Fiamme textures consist of chlorite.	Py weakly diss. (2-3%) within the matrix. Near the top of the unit, weakly-defined Py bands are present.
	DACITE TUFF (L) (SIL)	Light grey	389.92 - 408.40		very hard		389.92 - 408.40 Matrix is intensely silicified. Internal features are Obliterated. Weakly sericitized, chloritized in places.	Py weakly diss. (1%) within the matrix.

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Hole No B-387

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			400.10 - 402.37 Matrix is slightly welded containing weakly diss. (2-4% chloritic entities (fiamme). 405.71 - 408.40 Matrix intermittantly welded. Similar to interval 400.10 - 402.37.			401.00 - Moderately developed fabric (62°/C.A.)		403.40 - 407.21 Py diss. (1-2%) erratically within the matrix.
408.40	WELDED ACID TUFF	Dark bluish-grey	WELDED ACID TUFF Very f.g., relatively homogeneous matrix. F.g.-c.g. (0.2-2.0cm) irregular-shaped chloritic fiamme are intermittantly concentrated (2-5%)		very hard	Moderately developed fabric. Some elongation of the fiamme. 417.81 - fabric 60°/C.A. 421.08 - fabric 57°/C.A.	Moderate chlorite levels are present where the foliation is developed.	F.g. Py is weakly diss. (1-2%) at intervals.
425.85	QUARTZ PORPHYRY (SIL)(RHY)	Light greenish grey	SILICIFIED QUARTZ PORPHYRY Highly silicified, homogeneous patches in the matrix. Contains very weakly diss. (1%) f.g. (<2mm) Qe. Also contains diss. (3-5%) f.g. carbonate specks (repl. feldspars).		very hard	Internal fabric is very weak 450.12 - fabric 80°/C.A. 462.78 - fabric oriented at 80°/C.A.	Intensely silicified. (Obliterates original textures). Locally matrix is slightly sericitized.	443.79 - 447.70 Sp aggregates are diss. (1%) erratically within the matrix. 451.10 - 455.50 Diss. Sp aggregates (<1%). Similar to interval 443.79 - 447.70.
474.27	End of Hole							

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

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HOLE Nº / Nº du TROU: Lic. 319399-3 B-388

PAGE Nº / Nº de Feuille: 1

PROJECT / PROJET: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
B388	24/10/85	05/11/85	BQ

Logged by: B. Zabev

Remarks - Remarques: DOMINIK

COLLAR INFORMATION - INFORMATION DU COLLET

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
	-4400.00	-500.00	226 7	-65 00	519.99

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison	Comments - Remarques
57.91	018.67	-60.0	cave + sable entre 250 et 600 pieds
91.44	——.——	-56.0	← ACIDE
149.35	022.67	-56.0	
240.79	027.67	-52.0	
274.32	——.——	-52.0	← ACIDE
332.23	028.67	-47.0	
423.67	029.67	-42.0	
457.20	——.——	-41.0	← ACIDE
515.11	034.67	-37.0	

Resumé forage B-388

dist.	nom de la roche	
0 - 27.0	tubage	
27.0 - 93.1	Porphyre de quartz ou tuf rhyolitique ou rhyolite	(QP-Rhyo)
93.1 - 116.2	tuf felsique littes, loc. chert	(DT)
116.2 - 123.55	Porphyre de quartz (zone lessinée)	(QP)
123.55 - 175.0	Andesite loc. brechiforme	(and)
175.0 - 191.25	Andesite porphyritique	(and)
191.25 - 211.8	Andesite loc. silicifiee	(and)
211.8 - 344.10	Porphyre de quartz (tuf?)	(QP)
344.1 - 350.27	Dyke felsique à intermédiaire	(FD)
350.27 - 392.46	tuf felsique à lapilli	(DTL(qe))
392.46 - 520.0	tuf a lapilli loc. a biotite	(DTL)
520.0	fin du forage	

minéralisation

localement traces de pyrite et rarement galine et magnatite.

alteration

Presence de biotite a partie de 392.46.

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-388

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
0			CASING					
27.0	Rhyolite-tuff (qe) or flow (part of QP) bluish grey to red.		Fine to v. fine grained, massive locally showing flow banding at 52° TCA. Banding marked as 1mm-3mm of grey and greenish to reddish laminae. Also variably altered with sericite as bands and hematite as staining and on fractures. Qtz. eyes 2-3% rounded and some broken. .5-2mm in size. Unevenly distributed.		hard	The top 12m extensively broken core with hematite, carbonate, chlorite. Some limonite, occ. Py. Fracturing at various angles TCA gen. 35-45° TCA. 33m-.5m of leached vuggy core. 36.4m - 4cm qtz. vein at 45° TCA. 43.5 - broken core - qtz. -ser. - hem. 49.7 - 2mm fracture at 10° TCA with qtz. carb. chlor. hem. 54.5-55 - Broken core. 56.0 - Shear zone at 50° TCA. poss. fault 4cm of brecciated rock with sericite, hematite, carbonate. 65.3-65.48 - Fault Zone at 54° TCA. Soft, kaolinitized sericite interval with some limonite.	Sericite - along fractures bands 50° TCA. moderate. Hematite staining. Chlorite - locally on fractures. Locally specks of carbonate. From ~60m - mod. to strong sericite alteration. Sericite and chlorite on fractures.	R.Q.D. Poor Rare Py on fractures.
			From 78 - Tuffaceous texture becoming more evident with fine thin laminae. banding at 70° TCA 2-5mm qtz. eyes 3%.					

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			At 92m fine banding showing fold structure.			Irr. at various angles TCA. Qtz. veining throughout the interval.		
93.10	Bedded tuffs cherts and wakes		Mixed interval of well bedded and thinly laminated tuffs, wake and cherts chloritic and sericitic.					
	pale grey greenish		93.10-95.70 - Fine grained quite siliceous, alteration of strongly sericitic and chloritic bands at 75° TCA. Qtz. eyes present but diminishing toward bottom of the interval.		Mod. soft	93.1-93.2 - Sheared at 70° all sericite core broken	Sericite strong chlorite	
			95.70-98.15 - Mainly lapilli size fragments, showing crude graded bedding. Fragments up to 4cm, mainly greenish chlorite subangular 10-30% plus grey and milky felsic fragments. Possibly (2-5%) qtz. eyes locally to 5%.			Elongation of fragments at 70° TCA.	Chlorite - moderate Sericite as bands defining the foliation.	
			98.15-104.45 - Fine grained tuffs showing good graded bedding tops uphole. 70° TCA. Several short str. bleached sections. Several cherty bands 70-85° TCA.				Sericite Chlorite Hematite staining.	R.Q.D. Good

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			104.45-108.85 - Coarser tuffs generally monolithic, white cherty siliceous fragments. from 1mm to 2cm. Occ. chlorite fragments. Flattened 75-80° TCA. Fragments 10-50%.		Mod. hard to mod. soft.	Occ. qtz. veinlet 65° TCA.	105.7-106.70 - Strongly bleached section - beige.	Rare Py - coarse cubes. 101.10m. Fine Py along bedding at 101.35.
			108.85-111.5 - Well laminated interval consists of alternation of green chloritic fine grained bands 1mm-3cm thick with cherty, siliceous milky white to greyish bands at 65-80° TCA. Often distorted some are offset with microfaults.			At 111m qtz. vein at 48° TCA cutting the cherty zone.		Rare Py.
			111.5-116.20 - More siliceous interval. Fragmental texture, composed of siliceous clasts beige, white grey (from unit below) 2mm-10mm in diam. Matrix fine siliceous. Occ. Py specks or in qtz. veining.					Py - often as diss. or on fractures.
116.20	Bleached zone (QP?)	beige pinkish	Massive unit x-cut by numerous dark grey qtz. veinlets and veins usually with Py. Very siliceous with qtz. eyes			Qtz. veining 30-70° but generally irregular. 122.10 - Brecciated over	Silica Sericite. Minor hematite.	Py in grey qtz. veins common - f. grained. Py as veins with qtz.

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			1%. Upper at 65° TCA. Lower contact sharp 46° TCA.			20cm with qtz. chl. Py		Ga or specks with qtz. Py. 119. - Irr. qtz. carb. grey vein with Py minor Ga.
123.55	Andesite	green	In the top 4m-sections of brecciated texture with green chlorite around bleached fragments. Also partly bleached zones - pale green to beige. After that - fine grained, fairly uniform textured rock of andesitic composition. Chloritic.		mod. soft	Frequent qtz. carbonate veining generally 70-90° TCA. Occ. 40-50° TCA.	Chlorite - strong 140.2-142.3 - Fine diss. of small section with fine Mt. observed down the interval. Locally narrow epidote.	Occ. Py in qtz. veining.
			Whitish qtz. carb. spots. 2-5mm round often throughout (vesicles?).				Occ. hematite in qtz. veining.	
			Strongly calcareous.					
			167.3-167.6 - Breccia zone crushed andesite angular fragments by qtz. carb. The same at 168.2m over 10cm.			165-166.3 - Broken core gener. 30° TCA with carb. chl. Tectonic breccia. From 165-175 - The hole interval strongly fractured with section gouged - Fault Zone as at 171. .5cm gouge		Occ. Py on fractures.

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Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture – Composition / Granulometrie - grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondment, etc) / Remarks - (mineralization, water, caving, etc)
						at 25° TCA. 172 - several gouge fractures 174.5 - core with gouge.		
175.0	Porphyritic Andesite	green to pale green	Porphyritic texture. 7-15% white generally euhedral feldspar phenocrysts 1-3mm in v.f. grained green chloritic matrix. Toward bottom section that appear tuffaceous and bleached.		soft	Frequent fracturing at 40-70° TCA with chlorite, qtz. carb. 177.1 - 6cm qtz. vein 25° TCA 191.10 - Qtz. vein 3cm 52° TCA.	Chlorite. Occ. section with weak biotite.	Rare Py on fractures.
191.25	Andesite - silicified Pale grey to green		Contact gradational. Unit consists of intervals of fine grained pale grey, slightly siliceous andesite and two narrow sections: 199.95-200.30 200.9-201.70 of brecciated andesite with light grey fragments in green chloritic matrix. 194.10-195 - Fragmental texture with some biotite. Becoming more siliceous toward bottom.		Mod. soft to mod. hard	Common qtz. carb. veinlets and veins at various angles but generally high.	Chlorite. Silica weak to mod. Sericite weak Biotite locally.	Locally coarse Py.

SELCO MINING CORPORATION LIMITED

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211.80	Quartz Porphyry tuff or flow pale grey to brick reddish.		Fine grained, very siliceous Locally exhibiting fine banding marked by 1mm-10mm grey and reddish bands of 62° TCA. (223m-231m). Qtz. eyes 1-3% subhedral .5-2mm. Top 3m brecciated with sericite and chlorite. Upper contact sharp at 70° TCA. 233.3-234.10 - Silica, chlorite zone minor hematite and sericite with Py at 30° TCA.		v.hard	Fracturing common at 30-70° TCA. 217.80-220 - ext. broken 228.5-230 - ext. broken 338.7 - Qtz. 2cm vein at 30-45° TCA with minor Py. 247.75-248.7 - fractured rock weakly leached fracture minor massive hematite. 255-256.5 - Fractured interval. Grey qtz. veining with minor hemat., Mt, tr. Ga 58° TCA. 263.6 - qtz. vein at 30° TCA 3cm with carbonate. 364.70-365.10 - Breccia of QP fragments cemented by silica and beige carb.	Top 2m sericite chlorite often mainly sericite - mod. to strong to about 228m Hematite staining Minor carbonate with hairline fractures and coating of fracture surfaces. Occ. black chlorite on some fractures (232.5 - parallel TCA). 228-259.50 - intense hematite staining. From 259.5 - minor sericite beige carbonate starts to appear.	At 222.90 20cm of chloritic more with Py. Minor Ga with qtz. veining + Mt. and massive hematite.

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			258 pronounced banding at 50° TCA. From 259 - colour becomes pale grey due to sericite, and carb. which comes in veins or irreg. patches with qtz. Banding at 68° TCA at 294m. Also qtz. eyes becoming smaller in size.			265.70 - Fracture at 30° TCA. with some limonite. 280 - Qtz. vein 20cm at 28° TCA. Clean fracturing at 45-55° TCA.		water
313.74	Transition Zone (QP)	Grey-pinkish grey	Unit consists mainly of brecciated QP and QP breccia. Matrix silica. Many fragments hematite stained. Mottled texture in intervals siliceous spheralitic growth, (may be lithofacies). cauliflower in shape up to 4cm in diameter. Often reddish. Qtz. eyes 2% 1-2mm. 326.6-327.5 - Massive QP. 340.61-340.80 - Felsic dikelet v.f. grained, soft. Contacts 1cm of clay on both Upper contact with QP sharp at 60° TCA.		hard		Qtz. Sericite Chlorite	

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344.10	Felsic to Intermediate Dike grey		F. grained uniform, massive, somewhat biotitic. Contacts sharp: Upper 15° Lower 50° TCA.		Mod. soft	Fractured zone with qtz. at upper contact.	V.f. biotite.	Py diss. 1%.
350.27	Acid lapilli tuff (qe) (DTL)	light - pale grey	Consists of acid fragments mainly lapilli size 30% To 367m chloritic fragments elongated some fiammelike also present up to 6%. After that - rare. Occ. darker grey sil. clasts present more often toward bottom. Matrix is siliceous, serecitic. Qtz. eyes 1-3%. 259.48-259.53 - Felsic diklet. 363-363.5 - Irr. cherty qtz, wormy forms and fractures. From 368 lighter in colour, becomes pale grey. Acid glossy fragments more pronounced, matrix more sericitic. Toward bottom grey glassy fragments more abundant.		Mod. soft	Foliation developed at top part at 67° TCA. Further down - massive. At 357 - Fault with .5cm gouge at 50° TCA.	Chlorite 10% Sericite strong in matrix. To 368 - chlorite-sericite. From 368m mainly sericitic matrix. Sericite 15%	

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392.46	Dacite tuff lapilli.	grey to brownish grey	Polylithic tuff. Unsorted fragments ~30% in siliceous chloritic and slightly sericitic matrix with minor biotite.		hard		biotite - weak to mod. Sericite weak in matrix. Minor carbonate.	
			Dark grey siliceous fragments 2mm-3cm dominate subangular to angular ~15%. White milky fragments - subrounded to subangular~10%. Some banded. Bluish grey glassy fragments occasionally.		Mod. hard	Massive unit, no foliation developed.		Rare specks of Py.
			Qtz. eyes rare.					R.Q.D.: very good
			Contact gradational.					
412.00	Dacite tuff to DTL		Essentially the same unit but becoming finer grained. Tuff size clasts predominate up to 3mm and appears to have lower ratio of fragments/matrix. Qtz. eyes present (1%) rare. 427.18-427.38 - Felsic to int. dike cont. Lost.		Mod. hard	428.9-430m - Mod. foliation 57° TCA.	biotite minor continued. sericite slightly stronger than section above ~4%. Carbonate minor.	Rare specks of Py.
						438 - Qtz. vein 4cm @ 62° TCA.	Chlorite 5%.	R.Q.D.: very good
						453.3 - Qtz. vein 4cm @ 48° TCA.		
						165.0 - Qtz. vein 5cm 58° TCA.		
			446.62-447.0 - Felsite dike Contacts at high angles.				From 456 - rock softer increased sericite, chlor. in matrix Carbonate.	

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468.80	Dacite tuff lapilli	Brownish grey	Essentially the same unit as above but biotite content increases giving the rock brownish tinge. It comes as fine diss. aggregates with qtz. Also replacing some chloritic fragments. 468 - about 496 - poss. WATE texture with chloritic fragments, various in shape. Some fragments have biotite rims. Seems that coarser lapilli fragments more abundant toward the bottom of the interval.		Mod. hard to mod. soft	No obvious foliation. Occ. qtz. veining at 50-60° TCA.	Biotite - 20%. Sericite - weak Carbonate - minor Chlorite - 7-9%.	R.Q.D.: good V. difficult to define clearly textured diff. because the surface of the core is strongly affected by the core bit ("banded").
520.00 E.O.H.			E.O.H. at 520.0m.					

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: Lic. 347607-3 B-389

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B389	06/12/85	12/12/85	BQ

Logged by: Dean McDonald

Dean McDonald

Remarks - *Remarques*

DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse*	Northing / *Ordonnée*	Elevation / *Elévation*	Azimuth	Inclination / *Inclinaison*	Total Length / *Longueur Totale*
	Metres	Metres	Degrees / *Degrés*	Degrees / *Degrés*	Metres
	11240	-4806	027.67	-65.0	501.70

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
128.01	13.62	-57.0
219.46	18.67	-57.0
310.90	28.67	-58.0
402.34	33.67	-58.0
493.78	43.67	-55.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
0.0	OVERBURDEN							
10.97	QUARTZ PORPHYRY	Light – medium bluish-grey	QUARTZ PORPHYRY F.g., siliceous, weakly-banded matrix. Contains weakly diss. (2-3%), f.g. (<2mm), angular to irregular-shaped Qe. Cut by occasional irregular-shaped Qv.		hard	Consists of weakly-defined differentiated bands. 12.0m – 18°/C.A. 25.6m – 29°/C.A.	Matrix is highly silicified. The internal fabric consists of chlorite and minor sericite Chlorite halos surround the Qv.	Trace c.g. Py assoc. with Qv.
	QUARTZ PORPHYRY (GRAPHITE)		25.12 – 29.26 INTERBANDED Q.P. AND GRAPHITIC UNITS Graphitic units vary in thickness from 2-20cm and contain numerous (15-20%) elongate Q.P. fragments.		soft	The graphitic units are sharply-defined and maintain a fairly consistent orientation (22°/C.A.) 40.20 Internal fabric oriented (50°/C.A.)	Narrow chloritic halos surround the graphitic units.	43.40 – 43.50 Narrow bands of f.g. Py with trace Cp. (50°/C.A.)
			50.60 – 93.70 Qe are coarser-grained (<3mm) and more euhedral in shape than in upper part of the unit.			50.59 – 56.59 Matrix consists of numerous narrow (≃2mm) siliceous bands (60°/C.A.)	Weakly chloritized, sericitized.	

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
						65.50 - 75.00 Matrix consists of numerous, narrow (2-4mm) siliceous bands (62°/C.A.).	Highly silicified. Minor chlorite.	
						87.50 - 93.53 Matrix contains weakly-defined siliceous bands (70°/C.A.)		86.90 - 93.27 Contains a series of irregular-shaped Qv. Qv contain diss. Py (2-3%) (Qv 50°/C.A.) Minor (1%) Py diss. in the matrix.
	DYKE	Dark grey	96.91 - 97.69 F.g., homogeneous matrix. Highly carbonatized. Contains a few irregular-shaped carbonate concentrations.		hard	Defined by knife-sharp contacts (55°/C.A.)	Both highly silicified and carbonatized.	
		black	100.32 - 102.42 INTERBANDED GRAPHITE Dark graphitic bands are interbanded with chlorite and quartz. The quartz bands are often disrupted and brecciated.		soft	Unit forms a gradational contact with adjacent units. Internal bands are oriented at 80°-85°/C.A.	Unit is highly chloritized.	Contains diss. (1%) c.g. euhedral pyrite.
					soft	102.64 - 103.05 Series of narrow (2-4cm) faulted zones (70°/C.A.) Minor associated breccia.	Highly leached. Significant sericite and kaolin.	
					soft	106.30 - 108.38 Series of narrow (2-3cm) faulted zones. Intense internal fabric (75°/C.A.).	Intensely leached. Strong sericite component. Minor kaolin.	

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						Contains numerous c.g. (1-4cm) elongate quartz fragments.		
108.38	QUARTZ PORPHYRY (SIL) - RHY	Light green-grey	SILICIFIED Q.P. - RHYOLITE Aphanitic, silicified, homogeneous matrix. Contains very minor (<1%) isolated clusters of Qe.		hard	Forms gradational contact. Locally, cut by a strong penetrative fabric (70°/C.A.)	Fabric defined by sericite.	Occasionally cut by irregular-shaped Qv which contain Py, Sp and minor Ga.
		Light green	116.00 - 127.65 Aphanitic, homogeneous matrix. Contains erratically diss. (1-2%), f.g., irregular-shaped Qe.		hard	Poorly developed fabric. 125.85 - 126.28 Highly fractured zone. (Fault?) (No distinct orientation).	Weakly sericitized.	
127.65	DIORITE	Medium - dark green-	DIORITE Matrix consists of a relatively homogeneous mixture of fiberous chlorite with carbonate. Occasionally cut by narrow qtz.-carb. veins. Matrix is somewhat crystalline.		soft	Forms sharp, but irregular upper contact. (32°/C.A.) Qtz.-carb. veins cut the matrix at 45°/C.A.	Intensely carbonatized.	Near upper contact is an irregular-shaped conc. of Py. F.g. Py weakly diss. (<<1%) within the matrix. 150.80 - 154.20 Contains diss. (2-3%) c.g., euhedral Py.

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			154.20 - 172.50 Unit contains c.g. (2mm-2cm), irregular-shaped conc. of a light green mineral "(FUSCHITE)" or probably just emerald green feldspar.				Fuchsite makes up 4-7% of the rock.	
							Mineralization most intense in zones of silicification and with Qv. Unit is intensely carbonatized.	154.20 - 161.80 Cut by a number of Qv (2-10cm) (50°/C.A.) which contains diss. Py and Cpy.
						161.50 Weakly-defined fabric (33°/C.A.)		161.50 - 162.30 Silicified interval contains diss. (1-2%) c.g. Py.
	DIORITE (SIL)	Light grey	172.50 - 178.20 SILICIFIED DIORITE Aphanitic, silicified homogeneous matrix. Occasionally cut by narrow (1mm-2cm) Qv.		hard	Contacts with adjacent units are diffuse. Locally a weak internal fabric exists.	Intensely silicified. Fabric is often outlined by sporatic chlorite distribution.	
	DIORITE (SIL)	Light grey	183.68 - 184.20 Similar to interval 172.50 - 178.20			Contacts are diffuse.	Intensely silicified.	
	DIORITE (SIL)	Light	191.20 - 198.10 Similar to interval 172.50 - 178.20.				Intensely silicified.	
	DIORITE	Light-dark green-grey	C.g., crystalline, homogeneous matrix. Consists of intermeshing aggregates of chlorite, quartz and carbonate. Cut by		hard	Weak fabric defined by chlorite concentrations.	Highly silicified and carbonatized. Weakly chloritized.	

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DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-389

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
			numerous narrow (1-2mm) qtz.-carb. veins.			Larger Qv cut at 22°/C.A. 226.0 - 232.0 Narrow qtz.-carb. vein oriented at 10°/C.A.		
232.00	GRANODIO-RITE	Light green-white	GRANODIORITE 232.0 - 337.80 Crystalline matrix has greater proportion of qtz.-carb. resulting in a distinctly lighter coloured matrix. Chlorite laths are fairly c.g.			Occasionally cut by narrow qtz.-carb. veins (20°/C.A.) 266.50 - 268.00 Qv cut at 30°/C.A. 286.0 - 288.5 Qtz.-carb. veins oriented at (21°/C.A.)		
			299.05 - 301.00 Silicified, homogeneous matrix Crystalline features obscured by silicification.			300.50 - 304.25 Narrow (<3mm) qtz.-carb. veins (40°/C.A.)		
			321.57 - 323.77 Highly chloritized zones. Chloritized patches are slightly brecciated. Minor Qv assoc. with chloritization.		hard	Gradational contact. Proportion of chloritic fragments increase as you move to centre of the unit.	Highly chloritized.	
337.80	DIORITE	Dark grey	DIORITE		hard			

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
			F.g., relatively homogeneous. Weakly crystalline texture with intergrowths of chlorite, carbonate and qtz. Cut occasionally by narrow qtz.-carb. veins.			Sharp contact (40°/C.A.). Internal fabric is weak. 346.50 - Internal fabric weakly developed (25°/C.A.)	Highly silicified. Weakly chloritized.	No associated mineralization.
356.90	GRANO-DIORITE	Medium-dark green-grey	GRANODIORITE C.g., crystalline matrix consisting of chloritic aggregates in a qtz.-carb. matrix.		hard	Contact is quite gradational. No distinguishable fabric.	Highly silicified, carbonatized matrix.	No associated mineralization.
382.53	GRANO-DIORITE	Light green-grey	GRANODIORITE C.g., chloritic aggregates diss. within a qtz.-carb. matrix. Occasionally cut by narrow (2-4mm) Qv.		hard	Fairly sharp but irregular contact with dioritic unit. No distinct internal fabric.	Highly silicified.	
395.00	GRANO-DIORITE (FUCHSITE)	White - light green	Aphanitic, homogeneous qtz.-carb. matrix containing weakly diss. (1%), very f.g. quartz eyes. Also contains weakly diss. (2-4%) light green aggregates of "fuchsite"?		hard	No distinct internal fabric. 403.00 - 410.26 Series of narrow (<2mm) qtz.-carb. veins (55°-60°/C.A.)	Intensely silicified. Assoc. "fuchsite" clusters. (2-3%).	Locally, very f.g. Py is weakly diss. (<1%) within the matrix.
501.7	End of Hole.							

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SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-389

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition *Granulometrie - grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
			F.g., relatively homogeneous. Weakly crystalline texture with intergrowths of chlorite, carbonate and qtz. Cut occasionally by narrow qtz.-carb. veins.			Sharp contact (40°/C.A.). Internal fabric is weak. 346.50 - Internal fabric weakly developed (25°/C.A.)	Highly silicified. Weakly chloritized.	No associated mineralization.
356.90	GRANO-DIORITE	Medium-dark green-grey	GRANODIORITE C.g., crystalline matrix consisting of chloritic aggregates in a qtz.-carb. matrix.		hard	Contact is quite gradational. No distinguishable fabric.	Highly silicified, carbonatized matrix.	No associated mineralization.
382.53	GRANO-DIORITE	Light green-grey	GRANODIORITE C.g., chloritic aggregates diss. within a qtz.-carb. matrix. Occasionally cut by narrow (2-4mm) Qv.		hard	Fairly sharp but irregular contact with dioritic unit. No distinct internal fabric.	Highly silicified.	
395.00	GRANO-DIORITE (FUCHSITE)	White - light green	Aphanitic, homogeneous qtz.-carb. matrix containing weakly diss. (1%), very f.g. quartz eyes. Also contains weakly diss. (2-4%) light green aggregates of "fuchsite?"		hard	No distinct internal fabric. 403.00 - 410.26 Series of narrow (<2mm) qtz.-carb. veins (55°-60°/C.A.)	Intensely silicified. Assoc. "fuchsite" clusters. (2-3%).	Locally, very f.g. Py is weakly diss. (<1%) within the matrix.
501.7	End of Hole.							

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / Nº du TROU: Lic. 347607-4 B-390

PAGE Nº / Nº de Feuille: 1

PROJECT / PROJET: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carrotte
B390	25/1/1/85	05/12/85	BQ

Logged by: Dean McDonald

Remarks - Remarques: DOM/WIK

COLLAR INFORMATION - INFORMATION DU COLLET

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
	1004+00	-57+00	276 7	-65.00	501.71

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
129.84	34.67	-63.0
221.28	34.67	-61.0
312.72	36.67	-57.0
404.16	37.67	-55.0
495.60	40.67	-52.0

Comments - Remarques

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-390

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
0.0	OVERBURDEN							
24.38	Q.P.	Lt.green grey	QUARTZ PORPHYRY F.g., aphanitic, weakly banded matrix. Contains f.g. (<2mm) rounded to irregular-shaped Qe. C.g. (2-6mm), rounded pisolites are found near the top of the unit. (4-7%).		hard	Locally, very intense fabric creating differentiated banding. 25.70 (4cm) Fault (40°/C.A.) Infilled with sericitic gauge. Minor associated brecciation.	Matrix is highly silicified with sericitized bands or patches. 24.38-26.21 Zone of intense leaching. Fractures are infilled with limonite and kaolin.	
	GRAPHITIC	Black	28.80 - 38.60 Contains interbands of graphitic material. Graphite forms irregular-shaped bands or fracture-filling networks.		soft-hard	37.20-38.10 Highly brecciated zone (fault?). Assoc. intense fabric (40°/C.A.). 55.3 - Weak internal fabric (54°/C.A.) 62.80-75.00 Consists of fairly sharply defined sericitized bands. (66.5m - 50°/C.A.) (71.8m - 40°/C.A.)	Fracture infilled with limonite. Fabric defined by sericite concentration.	

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LES MINES SELBAIE

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
	D.T. PISOLITIC (GRAPHITIC) (LAPILLI)		75.00 - 78.05 Contains numerous (20-25%), rounded, c.g. (2-6mm) pisolites. Also contains a few narrow (2-4cm) irregular bands of graphite. Some qtz. fragments are quite large (1-3cm)			Forms fairly sharp, but irregular contacts. (60°/C.A.)	Matrix is moderately sericitized.	
78.05	QUARTZ PORPHYRY (SIL)	Dark grey - light green	SILICIFIED Q.P. Aphanitic, intensely silicified matrix. Contains weakly diss. (1-2%), rounded to angular Qe. Sericitized bands (zones) are irregularly distributed with varying orientations.		very hard	Locally, contains a number contorted bands. 82.54 Localized silicified bands (37°/C.A.) 90.10 Narrow Qv (60°/C.A.)	Intensely silicified. Minor carbonatization. Contains extensive zones of intensely sericitized material.	78.50 - 126.80 Localized concentrations of Sp and Ga are found in Qv and fracture fillings. Py is diss. (1%) within the matrix. Distribution of mineralization is erratic.
94.90	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Strong internal banding. (Alternating Sericite-quartz) Contains diss. (1-2%) rounded to angular Qe (2mm).		hard	Internal banding. 102.41 - 60°/C.A. 109.60 - 40°/C.A.	Strongly sericitized.	
114.95	DACITE TUFF (L) (Qe)		DACITE TUFF (LAPILLI)					

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Hole No B-390

Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté / Hardness	Structure	Altération / Alteration	Remarques – (minéralisation, eau, effondment, etc) / Remarks – (mineralization, water, caving, etc)
		Light green-grey	F.g., slightly granular in places, silicified matrix. Contains diss. (2-3%) f.g. (<2mm) Qe. Also contains sporatic clusters of f.g. (1-5cm) siliceous fragments. The fragments are poorly-sorted and often elongate parallel to the fabric.		hard	Forms a sharp, distinct contact with Q.P. (70°/C.A.) Locally, a strong internal fabric has developed.	Highly silicified. Weakly sericitized.	
			123.17 - 126.80 Qtz. fragments (1-3cm) are poorly-sorted. F.g. (<1mm) Qe make up 5-10% of the matrix.			116.20 Internal fabric (60°/C.A.) 128.30 Internal fabric (56°/C.A.) No distinct internal banding.	119.15 - 122.75 Intensely silicified zone. Obscures internal features.	
			133.10 - 135.15 Intensely silicified. Internal features obliterated.			132.40 - 133.20 Fiarly distinct banding (45°/C.A.)	Highly silicified.	Contains weakly diss. (1%) c.g. Py. Minor Sp aggregates (<1%)
			137.40 - 146.58 Concentration of f.g. (<1mm) Qe increases to 10-15% C.g. (1-3cm) siliceous fragments diminish in abundance.			Weak internal fabric.	Moderately sericitized. Minor chlorite.	
	QUARTZ PORPHYRY	Light green-grey	146.58 - 158.52 Contains numerous (5-10%) poorly-sorted quartz fragments (1-6cm)., Fragments vary in shape from		hard	Fabric poorly developed.	Minor sericite.	F.g. Py weakly diss. (<1%) in the matrix.

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LES MINES SELBAIE

No du TROU
Hole No B-390

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondment, etc) Remarks – (mineralization, water, caving, etc)
			sub-rounded to angular.					
							158.52 - 165.84 Highly silicified matrix. Contains isolated sericite patches.	Contains numerous veinlets and aggregates with f.g. Sp, Ga and Py.
						172.20 - 172.60 Zone of intense shearing (47°/C.A.)	Assoc. sericite.	
			183.45 - 185.20 A small proportion (2-5%) of the fragments contain or consist of f.g. Py aggregates.					
185.70								
	DACITE TUFF (carb.) (L)	Med. grey to greenish	DACITE TUFF (CARBONATIZED) F.g., carbonatized matrix. Contains diss. (5-10%) light brown carbonate fragments and/or concentrations. These carbonate accretions(?) often contain sericitized cores and are rimmed by quartz (some show concentric patterns).		hard	Upper contact is gradational. In places a strong internal fabric develops. 196.55 - 196.70 Internal fabric 30°/C.A. 200.10 - 202.90 Internal fabric 37°/C.A.	Matrix is intensely carbonatized. Sericite is moderate to high places. Internal fabric generally defined by sericite.	Contains isolated Py aggregates (<<1%) 208.84 - 209.41 Contains diss. (2-3%) c.g., euhedral Py in the matrix.
211.77								
	DACITE TUFF (L) (Qe)	Light green-grey	DACITE TUFF (LAPILLI) Aphanitic, homogeneous matrix. Contains sporatically		hard	Sharp upper contact (26°/C.A.)	Matrix is highly silicified. Minor sericite.	Contains f.g. diss. (2-3%) Py aggregates.

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LES MINES SELBAIE

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Hole No B-390

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralisation, water, caving, etc)
			diss. (2-3), poorly-sorted quartz fragments. Also contain weakly diss. (1%) f.g. Qe.			Moderately developed fabric. 215.50 - 215.70 Internal fabric oriented at 45°/C.A.		
219.00	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY F.g., aphanitic, homogeneous matrix. Contains minor (1-2%) f.g. (<2cm) Qe.		hard	Contact obscured by quartz veining. 222.16 - 222.53 Zone of broken core (90°/C.A.) May be machine induced. 222.10 (3cm) - Gouge zone with kaolin - oriented at 20°/C.A. 227.10 - 229.50 Moderately developed fabric (40°/C.A.)	Highly silicified matrix. Weakly sericitized. Fabric defined by sericite, chlorite.	218.00 - 221.80 Numerous Qv cut the matrix (25°/C.A.). These Qv contain diss. Py, Sp and Ga. 222.50 - 226.80 Qv contains diss. clusters of Py, Sp, Ga and Cp. (30-35°/C.A.)
	DACITE TUFF (L)	Light green-grey	232.61 - 245.20 Q.P. contains lenses of D.T. (L). Lenses consist of f.g. -c.g. (0.2-2.5cm) poorly-sorted, qtz.-carb. fragments (5-10%)		hard	Lenses produce gradational contacts. Develops strong internal fabrics (40°/C.A.) in places.	Weakly sericitized. 240.10 - 243.40 Highly carbonatized matrix.	237.80 - 246.10 Contains minor (1-2%) diss. Py aggregates in the matrix.
	DACITE TUFF (L)	Light grey-green	254.02 - 259.39 F.g. homogeneous matrix. Contains f.g. (<1mm-1cm) rounded quartz fragments (5-7%) Also contains f.g. (<1mm) Qe (2-3%).		hard	Poorly defined internal fabric.	Weakly sericitized.	

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
259.39	QUARTZ PORPHYRY (SIL) (RHY)		SILICEOUS QUARTZ PORPHYRY Aphanitic, silicified homogeneous. Locally contains concentrations (1-2%) of f.g (<1mm) Qe. Silicification has obscured most features.		hard	No distinct internal fabric in upper part of unit.	Intensely silicified. Sericitized in places. 258.30 - 262.80 Contains highly sericitized bands (20-30°/C.A.)	270.0 - 274.60 Irregular patches of Py (1-2%) diss. within the matrix. 285.56 - 288.41 Cut by irregular-shaped Qv containing diss. (2%) Py. 302.71 - 306.80 Cut by numerous irregular-shaped Qv containing diss. Py aggregates (2-3%) and trace Sp. 324.40 - 331.10 Cut by numerous irregular-shaped or brecciated Qv Assoc. diss. Py 1-2%
						302.50 - 308.50 Internal silicified banding (45°/C.A.) 316.20 - 321.57 Internal silicified banding (29°/C.A.) 331.60 (4cm) Narrow fault (52°/C.A.)	Assoc. gouge and minor kaolin.	

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	QUARTZ PORPHYRY (Bx?)		334.06 - 344.10 Silicified, f.g. relatively homogeneous matrix. Contains f.g. (<2mm), rounded to angular Qe. Also contains poorly-defined patches (fragments) of white silicified material.		hard	Forms gradational contacts with adjacent units. No distinct internal banding.	Intensely silicified.	
344.10	DACITE TUFF LAPILLI	Alt. Light green - dark grey	DACITE TUFF LAPILLI Matrix consists of silicified irregular-shaped patches. Contains poorly-sorted, f.g. -c.g. (2mm-6cm) rounded to angular quartz fragments (20-25%). In the upper part of the unit are diss. (1-2%) irregualr-shaped Py fragments.		hard	Fabric is generally poorly-developed. 349.30 - 350.42 Internal fabric is weakly developed (38°/C.A.) 371.90 - 373.40 Strong internal fabric (33°/C.A.)	Intensely, but heterogeneously silicified. (Lt. green silicified zones show patchy distribution). 372.40 - 377.40 Highly sericitized matrix. Relatively homogeneous distribution.	344.50 - 348.70 Contains diss. (1-2%) patches (fragments) of Py. (345.50 - 345.78 - Sp intergrown with Py). 351.50 - 359.10 Diss. Py aggregates (1-2%) within the matrix. 366.36 - 368.65 Contains irregular-shaped aggregates of c.g., euhadral Py (2-3%)

SELCO MINING CORPORATION LIMITED

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
			381.24 - 391.04 Matrix contains minor patches with quartz fragments. Frequently cut by narrow, irregular-shaped Qv.			391.20 - 391.40 Highly fractured zone (fault) Minor gouge. 392.27 - 392.37 Narrow fault (20°/C.A.) Minor gouge.	Trace kaolin	368.65 - 372.80 Matrix contains weakly diss. (1-2%) f.g. Py.
			397.47 - 427.20 Contains large (2-12cm), siliceous fragments (15-25%). Often the fragment outlines are obscured or poorly defined.			No distinct internal fabric.	Matrix is intensely silicified. Contains weak to moderate sericite.	451.35 - 451.65 Matrix contains f.g., diss. Py (1%).
			450.42 - 470.41 Fragments are smaller (1-3cm) than in previous section and more weakly diss. (10-15%).			No distinct internal fabric.	Contains low to moderate sericite in the matrix. Sericite content increases lower in the unit.	465.12 - 468.26 Matrix contains weakly diss. (1%) f.g. pyrite.
468.40	DACITE TUFF LAPILLI (SIL)	Light green-grey	More intensely silicified matrix. Contains predominantly quartz fragments (5-15%) that are poorly sorted.			Gradational contact. Internal fabric is poorly-defined.	Intensely silicified with moderate to high levels of f.g. sericite.	471.0 - 501.71 Contains c.g., euhedral Py weakly diss. in the

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SELCO MINING CORPORATION LIMITED

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
								matrix (2-3%).
			495.20 - 501.71 Contains coarser-grained (1-6cm), rounded to angular quartz fragments (15-20%). Locally, Qv have created brecciated materials.			Gradational contact. No distinct internal fabric.	Intensely silicified. Moderate sericite.	
501.71	End of Hole.							

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BP RESOURCES CANADA LIMITED -
SELCO DIVISION

DIAMOND DRILL RECORD

JOURNAL DE SONDAGE

SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº Lic. 344534-3
Nº du TROU B-392

PAGE Nº
Nº de Feuille 1

PROJECT
PROJET Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
B392	05/12/85	09/12/85	BQ

Logged by: Dean McDonald
Dean McDonald

Remarks - *Remarques*

DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
	-17+00	-3+00	226.7	-50.00	1697.1

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
70.10	28.67	-49.0
91.44	—	-48.0
115.82	28.67	-49.0
161.54	27.67	-50.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
0.0	OVERBURDEN							
36.88	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains diss. (4-8%) f.g. (<1mm), rounded to angular Qe		Hard	A fairly well developed cleavage is present in places. 39.95 (8cm) Strongly fractured zone. (Fault?). 51.50 - 52.89 Highly fractured zone. (Fault?).	The matrix is generally highly siliceous but contains zones that are moderately to highly sericitized. 36.88 - 95.00 Contains a number of highly leached zones. Fractures are often infilled with limonite. Minor kaolin. Assoc. chalcosite and minor limonite stain.	F.g. Py diss. within the matrix and can form irregular-shaped Py aggregates. 36.88 - 97.00 Numerous fractured zones Low R.Q.D.
46.80	DACITE TUFF LAPILLI	Light green-grey	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains rounded to angular f.g.-c.g. (0.4-4.0cm) acid fragments (4-8%). The fragments are poorly-sorted.		Hard	The contact with the Q.P. unit is obscured by heavy fracturing.	Matrix is moderately to highly sericitized.	51.00 - 58.50 Contains numerous patches and/or bands of MPy.

SELCO MINING CORPORATION LIMITED

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
		Orange-pink	69.72 - 84.13 Zone of quartz flooding. Internal features are obscured. Some rounded pisolitic textures are present.		Hard	Forms sharp, but irregular contacts.	Intensely silicified.	
						87.00 - 92.10 Highly fractured zone. (Fault?) Lost core: 90.22-91.40 The rock in this zone is highly porous.	Minor kaolin along fractures.	
92.10	QUARTZ PORPHYRY		QUARTZ PORPHYRY Aphanitic, weakly banded matrix contains weakly diss. (1-2%), f.g. (<1mm), rounded Qe. Rounded pisolites often form trails that parallel the banding.		Hard	Contact is obscured by fractures. In places, contains narrow (4-6mm) sharply-defined bands (39°/C.A.).	Matrix is highly silicified and, in places, highly carbonatized.	92.10 F.g. Py is generally weakly diss. (1-2%) within the matrix.
		Orange-pinkish	109.40 - 117.65 Zone of quartz flooding. C.g. (1-2cm) irregular-shaped pisolites are erratically diss. (2-4%) within the matrix. Internal features are obscured. F.g. specks of carbonate are weakly diss. (3-5%) within the matrix.		Hard	Forms sharp, but irregular-shaped contacts. No distinct internal fabric is present. Quartz veins have a strong preferred orientation (42°/C.A.)	Intensely silicified. Intensely carbonatized in places.	F.g. Py is weakly diss. (1%) within the matrix.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-392

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
						121.18 - 121.50 Gouge zone. Strong fabric in adjacent rock. (5°-10°/C.A.).		
			121.50 - 154.60 Matrix is cut by numerous erratically distributed quartz-carbonate veins. The Qv are generally irregular-shaped and randomly-oriented. Some associated breccia with the introduction of qtz.-carb. veins.			Contact defined by the fault The qtz.-carb. veins form irregular, erratically distributed veinlets. 149.40 - 150.80 Series of Qv (46°/C.A.).	Matrix is highly silicified. Significant carbonate is introduced with the veining.	F.g. Py aggregates are generally confined to the quartz-carbonate veins.
	DYKE	Light green-grey	154.60 - 158.30 FELSIC DYKE Aphanitic, homogeneous matrix contains diss. (4-6%) irregular-shaped (dark green) mica aggregates.		Fairly hard	Defined by sharp contacts. Upper contact - 20°/C.A. Lower contact - 60°/C.A. No distinct internal fabric is present.	Matrix is highly carbonatized.	Contains diss. (1-2%) f.g. Py aggregates.
			158.30 - 169.41 Weakly banded. F.g. (2mm), rounded Qe are weakly diss. (3-4%)			162.00 - 166.00 Fairly stongly-defined bands (25°/C.A.).	The matrix is moderately to highly sericitized and strongly carbonatized.	F.g. Py is weakly diss. (1-2%) within the matrix.
169.71	End of Hole							

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

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HOLE Nº / *Nº du TROU*: Lic. 344534-4 B-393

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B393	19/12/85	12/01/86	BQ

Logged by: Dean McDonald

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
-18+00	-5+50	Pas d'Arpentage	22.67	-65.00	409.35

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
0.00	22.67	-65.0
152.40	34.67	-65.0
274.32	31.67	-58.0
365.76	27.67	-52.0
396.24	23.67	-51.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-393

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
0.0								
	OVERBURDEN							
42.67								
	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains diss. (4-6%), c.g. (2-4mm), rounded to angular Qe. Infrequently cut by irregular-shaped Qv.		Hard	Fiarly weak internal fabric. 42.67 - 73.00 Highly fractured zone.	Matrix is highly siliceous and contains low - moderate levels of sericite. Fractures are often infilled with limonite (zone is highly leached).	Contains erratically distributed f.g. Py (1-2%) Low R.Q.D.
			67.80 - 72.43 Q.P. (BRECCIA) (D.T.(L))? Aphanitic, relatively homogeneous matrix contains c.g. (2mm), rounded Qe. The matrix also contains diss. (5-10%) poorly-sorted, f.g.-c.g. (0.2-2.0cm) Q.P. fragments.		Fairly hard	Forms a fairly sharp contact with the adjacent Q.P. The internal fabric is strongly developed in places. Some fragments show coincident elongation. (37°/C.A.).	Hematite is sporatically distributed within the unit. This unit is not strongly leached.	No distinct mineralization.
72.34								
	DYKE	Light grey	FELSIC DYKE Aphanitic, f.g., homogeneous matrix contains irregular-shaped carbonate patches.		Hard	Forms sharp contacts with the adjacent units. Upper contact (31°/C.A.) Lower contact (10°/C.A.) Internally, no penetrative fabric is present.	Intensely carbonatized.	No distinct mineral-

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-393

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
78.16								
	DACITE TUFF (L) (Qe)	Light - dark grey	DACITE TUFF (LAPILLI) (Qe) F.g. aphanitic, homogeneous matrix contains diss. (3-6%) f.g. (2mm), rounded Qe. Also contains diss. f.g. (3mm) chloritic fragments (3-4%) and f.g.-c.g. (0.2-2.0cm) Q.P. fragments (6-10%). The fragments are poorly-sorted and matrix-supported.		Hard	In places, the internal fabric is strongly developed. 94.10 Internal fabric oriented at 25°/C.A.	The matrix is highly carbonatized and moderately chloritized. Minor sericite is present. Fabric defined by chlorite.	F.g. Py is weakly diss. (1%) in patches.
		Light - Dark green-	81.65 - 84.13 FELSIC DYKES Zone is cut by a number of narrow (30-80cm) sharply-defined dykes. The dykes are aphanitic, homogeneous bodies containing diss. (2-3%) chloritic aggregates.		Hard	These dykes are sharply-defined. The orientation of the contacts vary from (35°-45°/C.A.) 104.70 Strong internal fabric. (40°/C.A.) 126.80 - 130.95 Series of low angle fractures (10°-20°/C.A.)	The dykes are highly carbonatized and chloritized. Chlorite often rims the dyke. Fabric defined by chlorite. Fractures are infilled with hematite.	No mineralization is apparent.
132.75								
	DYKE	Dark grey	FELSIC DYKES F.g. (slightly granular in places), homogeneous matrix contains erratically dis-		Hard	Forms sharply-defined contacts with adjacent units.	Matrix is moderately carbonatized and chloritized.	Contains diss. (1-2%) c.g. euhedral Py.

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-393

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
			tributed chloritic aggregates. Locally, the dyke is cut by narrow veinlets.			Upper contact - 32°/C.A. Lower contact - 26°/C.A. No internal fabric is present.		
	QUARTZ PORPHYRY		155.25 - 157.73 Zone or fragment of Q.P. Q.P. consists of an aphanitic, homogeneous matrix containing c.g. (0.2-0.4cm) euhedral Qe.			Forms sharp but irregular contacts with the dyke rock. No distinct internal fabric is present.	Matrix is weakly to moderately chloritized.	
160.05								
	QUARTZ PORPHYRY	Light green-pink (orange)	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains c.g. (2-6mm), rounded to euhedral Qe. (Some of the larger Qe appear to be a coalescense of a number of smaller Qe).		Hard	The matrix has little or no internal fabric.	Matrix is intensely siliceous. Pinkish-orange colour may represent feldspar within the matrix. Fractures are in-filled with the hematite.	
	DYKE	Light green-pink	176.76 - 179.51 FELSIC DYKE Aphanitic, homogeneous matrix contains diss. (2-3%) chlorite aggregates. Unit is also cut by chloritic veinlets. (209.80 - 221.39).		Hard	Form sharp contacts. Upper contact - 19°/C.A. Lower contact - 23°/C.A.	Weakly carbonatized.	Contains f.g., diss. (1-2%) Py.
	DYKE	Light green-	FELSIC DYKE Aphanitic, homogeneous matrix		Fairly Hard	Forms fairly sharp contacts	Highly carbonatized. Low -	Irregular-shaped Py

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-393

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
		grey	contains diss. (3-4%) rounded patches of carbonate. Chlorite veinlets cut the dyke in erratic patterns. Contains diss. (1-2%) chlorite aggregates.			with the adjacent Q.P. unit. Upper contact - 45°/C.A. Lower contact - 39°/C.A. A strong internal fabric is locally developed (37°/C.A.)	moderate chlorite in places.	aggregates are erratically distributed within the matrix. 221.39 - 225.10 Contains diss. (2-3%) irregular-shaped Py aggregates.
	DYKE		226.80 - 231.60 FELSIC DYKE Aphanitic, relatively homogeneous matrix contains diss. (2-3%) chlorite aggregates.		Fairly Hard	Forms sharply-defined contacts (30°-40°/C.A.).	Moderately to highly chloritized. Weakly - moderately carbonatized.	Contains diss. (2-3%) irregular-shaped Py aggregates.
	QUARTZ PORPHYRY		232.10 - 271.55 Aphanitic, relatively homogeneous matrix contains diss. (4-6%) c.g. (2-6mm) rounded to angular Qe.		Hard	Internal fabric is quite weak. There is little penetrative fabric and no elongation of Qe. 269.62 Weak internal fabric. (49°/C.A.)	Martix is highly siliceous. Moderate to high levels of sericite.	Matrix contains irregular-shaped Py aggregates diss. within the matrix.
			271.55 - 279.40 Q.P. is erratically fractured Main fractures oriented at (52°/C.A.).				The fractures are infilled with chlorite.	

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

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Hole No B-393

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
	DYKE		285.34 - 288.70 FELSIC DYKE F.g., homogeneous matrix contains diss. (3-5%) chlorite aggregates.		Hard	Forms sharp but irregular contacts with the Q.P. Weak internal fabric.	Matrix is weakly to moderately chloritized. The matrix is weakly carbonatized.	Contains diss. (4%) f.g. Py.
	DYKE		295.82 - 299.32 FELSIC DYKE Aphanitic, homogeneous matrix contains diss. chlorite aggregates (3-6%).			Form sharp contacts with adjacent Q.P. Upper contact - 33°/C.A. Lower contact - 29°/C.A. Fairly strong internal fabric (37°/C.A.).	Weakly chloritized and carbonatized.	Py aggregates (2%) form narrow, irregular-shaped veinlets.
	DYKE		312.21 - 313.87 FELSIC DYKE Aphanitic, homogeneous matrix contains weakly diss. (1-2%) light green mica (Ba-rich?) micas.			Form sharp contacts with the Q.P. (80°-90°/C.A.). Internally, has a weak fabric (45°/C.A.).	The matrix is weakly to moderately carbonatized. 313.87 - 334.18 The matrix is generally weak-moderately sericitized. In the zone adjacent to the dykes, chlorite content increases to the moderate.	F.g. Py aggregates form irregular-shaped veinlets and bands. (6°-10°/C.A.).

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-393

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
	DYKE	Dark green-grey	FELSIC(?) DYKES(S) 334.18 - 353.85 Aphanitic, homogeneous matrix contains diss. (3-4%) chlorite aggregates. Within this unit are narrow (5-15cm) patches of Q.P.		Hard	Form sharp but irregular contacts with the Q.P. No penetrative fabric develope internally.	Matrix is weakly chloritized and moderately carbonatized.	334.18 - 346.25 Contains irregular-shaped f.g. aggregates of Py within the matrix (3-6%). 347.05 - 356.30 F.g. Py is diss. within the matrix and forms irregular-shaped aggregates in places (2-4%).
						356.30 - 356.50 Highly brecciated zone. Fractures oriented at (20°-35°/C.A.)		Low R.Q.D.
			356.85 - 361.05 Zone of mixing. Matrix evolves from a light green siliceous to a dark green grey slightly more chloritized member. The matrix contains poorly-sorted rounded to angular fragments of Q.P. and dyke rock.		Hard	This zone forms gradational contacts with adjacent units	In places (particularly near the felsic dyke) the matrix becomes slightly more chloritic.	Contains weakly diss. (1%) f.g. Py in the matrix.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-393

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
	DYKE	Light - dark green-grey	FELSIC DYKE 361.05 - 392.50 Aphanitic, homogeneous matrix contains f.g. (2mm) rounded carbonate specks (3-4%). Proportion of carbonate appears to increase on the margins.		Hard	Forms sharp upper contact (45°/C.A.) No penetrative fabric is present internal.	The matrix is weakly to moderately chloritized and carbonatized.	385.00 - 392.50 F.g. Py forms irregular shaped aggregates, which are diss. throughout the unit.
						392.50 - 394.00 Zone of intense shearing and fragmentation. (46°/C.A.)	Zone is intensely sericitized. Minor assoc. kaolin.	
		Light green-grey	394.00 - 409.35 Contains weakly diss. (2-4%) f.g. Qe.		Hard	Matrix shows no distinct internal banding or fabric.	Matrix is moderately to highly sericitized. Some patches are weakly chloritized.	Matrix contains irregular-shaped conc. of f.g. Py. (2-5%).
409.35	End of Hole							

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BP RESOURCES CANADA LIMITED -
SELCO DIVISION

DIAMOND DRILL RECORD

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HOLE Nº / *Nº du TROU*: Lic. 344534-4 B-393A

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carotte*
B393A			BQ

Logged by: Dean McDonald

Dean McDonald

Remarks - *Remarques*

DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse*	Northing / *Ordonnée*	Elevation / *Elévation*	Azimuth	Inclination / *Inclinaison*	Total Length / *Longueur Totale*
Metres	Metres	Metres	Degrees / *Degrés*	Degrees / *Degrés*	Metres
	-1800	-550	022.67	-65.00	62.79

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU / Hole No: B-393A

Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture – Composition / Granulometrie – grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques – (minéralisation, eau, effondrement, etc) / Remarks – (mineralization, water, caving, etc)
0.0	OVERBURDEN							
32.30	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains diss. (3-5%) e.g. (1-2mm), rounded to irregular-shaped Qe. Infrequently cut by Qv.		hard	There is no strong penetrative fabric. This unit is strongly fractured. In general, fracture patterns are quite random. 45.0 - 49.30 Predominant orientation of fractures (45°/C.A.).	Highly leached. Some limonite staining along fractures. 54.70 - 54.85 Minor hematite staining.	Low R.Q.D. No mineralization present.
62.79	End of Hole							

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SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: Lic. 319399-3 B-394

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carotte*
B394	-12-85	-12-85	BQ

Logged by: D. McDONALD
Dean McDonald

Remarks - *Remarques*

DOMIIIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
	-4440+00	-700	226	-650	3508.82

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
63.40	15.6	-57.0
154.84	21.6	-55.0
246.29	19.6	-45.0
337.72	21.6	-43.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU / *Hole No* B-394

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
0.0	Overburden							
34.50	Q.P.	Lt. Green grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix. Contains weakly diss (1-2%), f.g (<1mm) rounded to irregular-shaped Qe.		Hard	No distinct internal banding Foliation weakly developed. 44.91 - 47.30 Highly fractured zone. (Fault) (?/C.A.) 53.00 Intense fabric. Slightly porous.	34.50 - 50.90 Highly leached zone. Minor limonite stain. Core is porous in places. In general highly siliceous matrix with moderate sericite. Highly leached.	Contains patches of diss. f.g. euhedral pyrite. 34.50 - 50.90 low R.Q.D. 50.50 - 59.30 Contains diss. (2-8%) f.g., euhedral Py.
	GRAPHITE	Black	65.52 - 79.40 INTERBANDED GRAPHITE WITH Q.P. Bands consist of f.g. chlorite and graphite. Internally the bands may contain elongate Q.P. fragments (breccia).		Hard-soft	Bands are sharply defined (45°/C.A.) Most fragments are elongate parallel to the main fabric.	Matrix is moderately sericitized.	No pyrite assoc. with graphite.
	GRAPHITE		85.12 - 88.56 Bands similar to interval 65.52 - 79.40. More intensely brecciated.		Hard-soft	Bands are very irregular with assoc. brecciation.	Sericite halo associated with graphitic horizons.	No pyrite assoc. with graphite. 97.06 - 103.00 Irregular-shaped Qv contains diss. aggregates of Py and Sp.
	GRAPHITE		107.04 - 109.20 Interbanded graphite and Q.P. Similar to interval 65.52 - 79.40.		Hard to soft	Graphitic bands are sharply defined (83°/C.A.)	Matrix is moderately sericitized. In places, sericite forms	

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU / Hole No B-394

Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture - Composition / Granulometrie - grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondment, etc) / Remarks - (mineralization, water, caving, etc)
			107.04 - 152.70 Q.P. zones consist of internal siliceous banding. Qe are coarser-grained (<3mm) and more abundant (4-6%) than higher in the unit. Proportion of angular quartz eyes also increases.			Internal banding oriented at 31°/C.A. 121.10 - 121.80 Interval fabric 47°/C.A. Often defined by sericite. 127.10 - 127.60 Weakly-defined interval banding. 131.30 - 131.40 Intense fabric (Fault Zone?) 148.40 - 151.20 Strong internal fabric (65°/C.A.)	distinct bands. Moderate to high sericite. Banding is usually defined by quartz. Significant limonite staining Fabric defined by sericite.	
152.70	Q.P. (SIL)	Lt.green grey	SILICIFIED QUARTZ PORPHYRY Intensely silicified. Internal features are obscured. Contains diss. (2-4%) f.g. (<2mm) angular to irregular-shaped Qe. 164.60 - 174.10 Strong fabric has created well defined sericite bands. Qe dist. is consistent throughout the unit.		Hard	Locally contains weakly defined banding. 152.82 - 153.17 - (36°/C.A.) Sericite bands oriented at 42°/C.A. 186.42 - 186.66 Highly fractured zone (?/C.A.)	Intensely silicified. Weak - moderate sericite. 152.00 - 158.00 Intensely silicified internal features obliterated. Highly silicified matrix. Strong sericitic banding.	

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LES MINES SELBAIE

No du TROU
Hole No B-394

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
							204.5 - 216.60 Highly sericitized zone. Distinct sericite bands (45°/C.A.)	
216.60	Dacite Tuff Lapilli	Lt.-Dk. green	F.g., relatively homogeneous matrix contains crudely-graded lapilli fragments (coarser down-hole). Chlorite and siliceous fragments are elongate parallel to main fabric and vary in size from (1mm - 1cm). Contains some bands devoid of fragments.			Internal fabric is quite intense. (45°/C.A.) Coarser-grained material forms distinct bands or zones.	Matrix is moderately to highly chloritized. Also, minor sericite.	
						232.04 - 232.24 Fault zone (75°/C.A.) Assoc. chlorite fabric.	Assoc. kaolin	
						234.76 - 234.96 Fault zone (68°/C.A.) Assoc. sericite fabric.	Assoc. kaolin	
			234.96 - 235.05 Contains numerous contorted Qv.					234.96 - 235.05 Qv contain blebs of Cp.
	DYKE?	Lt.-med. green grey	238.71 - 240.61 F.g., homogeneous matrix. Cut by numerous narrow qtz-carb. veins.		soft	Defined by sharp, irregular contacts (80°/C.A.)	Highly carbonatized.	
	DYKE?		247.10 - 248.76 (similar to interval 238.71 - 240.61)			Contacts at 80°/C.A.		

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SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU B-394
Hole No _____

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
						263.85 - 263.96 Highly fractured zone. Fault (?/C.A.)	Assoc. kaolin	
			264.90 - 267.10 Internal banding shows crude grading (fining down hole)			Orientations of banding (75°/C.A.)		
						268.90 (2cm.) Intense fabric. Minor brecciation. Fault? (50°/C.A.)	Trace kaolin	
						272.07 - 272.71 Highly fractured zone.	Trace kaolin	275.40 - 281.50 F.g. Py forms isolated aggregates (3-6%) V.f.g. Sp? Assoc. with Py conc.
	TRANSITION ZONE, AND-ESITIC BX?	Dk.green - grey	278.40 - 288.34 F.g, relatively homogeneous matrix contains lighter green-grey irregular-shaped fragments. Cut by narrow qtz-carb. veins.		soft	Forms gradational contact. Strongly developed fabric in places.	Zone is highly chloritized Fragments contain some sericitite.	
288.34	MAFIC INTR. (AND)	dark green-grey	MAFIC PHASE OF INTRUSIVE F.g., homogeneous matrix contains patches of f.g. (1mm) diss. (1-2%) chlorite and Qe. Matrix cut by numerous narrow Qv.		soft	Gradational contact. Narrow Qv oriented at 75°/C.A.	Moderate to highly chloritized.	

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
						287.34 - 288.34 Cut by long, low angle (0°-5^{0}/C.A.) fracture (fault)	Minor kaolin	
						295.85 - 297.14 Zones of highly brecciated rock. (Fault?)		
	MAFIC POR	Dark green-grey	301.20 - 306.32 PORPHYRITIC MAFIC F.g., homogeneous matrix contains diss. (3-5%) grounded Qe and more angular feld (?). Cut by numerous qtz-carb. veins.		soft-hard	Gradational contact Weak internal fabric.	Strongly chloritized.	
						305.71 - 306.32 Highly brecciated interval (Fault)	Carb. along fractures.	
						307.54 - 308.15 Highly brecciated zone (?/C.A.)	Minor kaolin and hematite stainings.	
						317.04 - 317.83 Highly brecciated zone (Fault?)	Minor kaolin	
						321.20 - 321.80 Highly fractured zone (Fault?)		

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
321.20	DIORITE	Dark green-grey	DIORITE C.g. mosaic consisting of chlorite and angular feldspar crystals. Generally, homogeneous distributed.		Hard	Faulted contact. No distinct internal fabric.	Matrix is highly carbonatized.	Locally weakly diss. (<1%) e.g. Py
334.07	MAFIC AND LAPILLI TUFF	Dark green-grey	MAFIC PHASE OF INTRUSIVE Banded unit consists of f.g. chloritic layers interbanded with lapilli tuff layers. Unit is highly broken up. Lapilli unit show crude grading (fining up-hole)		Soft	Intense internal fabric parallel to banding (20°/C.A.)	Highly to intensely chloritized.	Minor diss (<1%) c.g. Py in the matrix. Low R.Q.D.
						339.04 - 339.20 Fault (75°/C.A.) Assoc. intense fabric.	Moderately sericitized, chloritized.	
						341.10 - 342.70 Highly brecciated zone.	Minor kaolin along fractures.	
343.35	Q.P.	Lt.green grey	QUARTZ PORPHYRY Aphanitic homogeneous matrix contains f.g. (2mm) rounded diss. (2-3%) Qe. Contains a lense of D.T.L.		Hard	Defined by sharp contact (53°/C.A.) Weak internal fabric.	Weakly to moderately sericitized.	Contains weakly diss. (1%) e.g. euhedral Py.
	DACITE TUFF LAPILLI	Lt.grey	345.68 - 347.11 Matrix contains f.g.-m.g. (2mm - 2cm) rounded acid fragments (10-15%)		Hard	Fairly sharply-defined contact (80°/C.A.)	Weakly sericitized.	
350.82	END OF HOLE							

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HOLE Nº / *Nº du TROU*: Lic. 319399-2 B-395

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PROJECT
PROJET: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B395	06/01/86	12/01/86	BQ

Logged by: Dean McDonald

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
	-4300	-900	022.67	-65	4011.2

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
91.44	Incl	-67.0
121.94	35.67	-61.0
182.88	Incl	-63.0
243.84	37.67	-54.0
274.32	Incl	-59.0
335.28	41.67	-52.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-395

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
0.0								
24.38	QUARTZ PORPHYRY (D.T.L.)	Dark green-grey	QUARTZ PORPHYRY (minor DACITE TUFF LAPILLI) Aphanitic, homogeneous matrix contains diss. (2-3%), f.g., rounded Qe. Within the Q.P. are distinct bands of D.T.L. Some fragmental zones show crude grading.		Hard	Weak internal fabric (60°/C.A.).	Moderately to highly chloritic.	Contains patches of diss. (1-2%) c.g., euhedral Py.
		Dark green-grey	24.38 - 34.44 Contains zones of D.T.L. Fragments vary from highly siliceous to chloritic and appear in various shapes. In some instances, a crude grading exists (coarsening downhole).			Some lapilli bands show sharp contacts (43°/C.A.). Internally, a weak fabric exists (70°/C.A.).	Moderately chloritic matrix.	
								51.00 - 53.64 F.g. aggregates of Py (1-2%) and Po (1-2%) (trace Cp) are diss within the matrix.
						56.00 - 56.69 Highly brecciated zone (Fault?)	No distinct alteration.	
57.10	QUARTZ PORPHYRY? (carb.)	Dark green-grey	Aphanitic, homogeneous matrix contains fairly equigranular (≈1mm), rounded quartz and		Hard	Forms gradational contact.	Weak-moderate chlorite. Intensely carbonatized.	

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
			feldspar crystals. The outlines of most of the crystals are blurred suggesting at least partial replacement by carbonate.					
	FELSITE DYKE	Light green-grey	75.50 - 77.48 Aphanitic, homogeneous matrix Contains weakly diss. (2-3%) aggregates of light green mica. (Fuchsite or barite-rich).		Fairly soft	Sharp, but irregular contact (5°-10°/C.A.). Internally, a weak fabric is present (55°/C.A.). Low contact obliterated by a fault (45°/C.A.).	Highly carbonatized.	Localized patches of very f.g. diss. Py (<1%).
85.90	GRAPHITE (minor Q.P.	Black-dark green	GRAPHITIC HORIZON Platey, aphanitic aggregates of graphite-chlorite form massive bands. Minor siliceous and pyritic bands are intergrown. Cut by numerous narrow carb. veins.		Soft	Banding is subparallel to a strong penetrative fabric (31°/C.A.). A second fabric (85°/C.A.) cranulates the dominant fabric. 100.0 - 102.3 Internal banding oriented at 50°/C.A.	Significant chlorite. Carbonatization assoc. with veining.	Graphite interbanded with zones of c.g., euhedral Py. 102.41 - 109.20 Contains diss. (3-5%) c.g. Pyrite in graphitic matrix

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
						109.20 Contact between graphite and Q.P. lense is 53°/C.A.		
			113.00 - 117.40 Interbanded Q.P. with graphite.					
124.44	DYKE? (D.T.)	Light grey	Aphanitic, homogeneous matrix cut by narrow qtz.-carb. veins.		Fairly soft	Defined by sharp contacts 45°/C.A. Well developed fabric in places. (45°/C.A.) (Associated banding).	Minor chlorite.	
135.02	DACITE TUFF LAPILLI	Light grey	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains f.g. (<1mm) diss. Qe (4-6%). Matrix also contains f.g.-c.g. (1mm-2cm) siliceous fragments. Most fragments are elongate parallel to the main fabric.			Forms fairly sharp upper contact (48°/C.A.). Strong internal fabric (48°/C.A.). 140.60 - 142.03 Intensely fractured zone. FAULT - (?/C.A.).	Matrix moderately chloritized. Chlorite is conc. in zones of strong fabric development.	
151.30	QUARTZ PROPHYRY		QUARTZ PORPHYRY Aphanitic, fairly homogeneous matrix contains diss. (4-6%), rounded to angular Qe. Cut by numerous, irregular-shaped chloritic masses.		Hard	Gradational contact. Strong internal fabric in places. (47°/C.A.). (Minor secondary fabric 79°/C.A.) - at 154.22	Strong sericite alteration. Strongly silicified in places.	151.30 - 175.10 In silicified zones are irregular shaped conc. of f.g. Py. (3-5%).

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
								172.00 - 172.50 Contains bands of f.g. Py (8-10%).
						174.00 Strong internal fabric. (50°/C.A.).	177.50 - 196.00 Highly sericitized. Forms distinct banding.	
						193.85 Strong internal fabric. (30°/C.A.).	196.20 - 209.09 Intensely silicified. Mod.-high sericite.	
							This zone is slightly more sericitized than in the previous section.	209.09 - 223.60 Cut by numerous irregular-shaped Qv containing f.g. Py aggregates (3-5%) C.g., euhedral Py is diss. within the matrix, in places.
						212.46 Internal fabric. (55°/C.A.)		
223.60	DACITE TUFF LAPILLI	Light green-grey	DACITE TUFF LAPILLI Aphanitic, homogeneous matrix contains poorly-sorted f.g.-c.g. (2mm-2cm) acid fragments.		Hard	Upper contact is obscured by Qv. Weak internal fabric. (67°/C.A.)	Zone is highly to intensely silicified. Low - mod. sericite.	Contains diss. Py and Py aggregates withing Qv.
							Highly silicified zone. Minor sericite.	236.52 - 249.00 Contains patches of f.g. Py. Some Py is strongly banded.

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
						239.0 Internal fabric 50°/C.A.		Sp, Py aggregates are assoc. with qtz.
						249.30 Fairly strong internal fabric. (53°/C.A.).		
							249.0 - 260.25 Highly silicified zone. Minor chlorite in patches.	
							Matrix highly silicified. Minor sericite, chlorite.	260.91 - 297.48 Ragged, irregular-shaped veinlets contain Sp and Ga.
						271.45 Internal fabric oriented at 50°/C.A.		
							297.48 - 308.60 Strongly silicified. Moderate sericitization, chloritization.	Py aggregates form bands and irregular-shaped masses within the matrix.
						Weak internal fabric (48°/C.A.).	309.50 - 321.30 Highly silicified matrix. Moderate - high levels of sericite.	Minor diss., f.g. Py in the matrix.
						Weak internal fabric.	332.56 - 340.56 Low - moderate levels of sericite.	Cut by veinlets containing Py, Sp. Some MPy patches assoc. with qtz.
340.0	DACITE TUFF (Qe)		DACITE TUFF (QUARTZ EYES)					

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Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture - Composition / Granulometrie - grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondrement, etc) / Remarks - (mineralization, water, caving, etc)
			Aphanitic, highly silicified homogeneous matrix locally contains weakly-defined bands The matrix contains weakly diss. (1-2%), poorly-defined Qe. Cut by qtz. veins containing Sp-Ga aggregates.		Hard	Forms gradational contact with D.T.L. Weak internal fabric. Localized, weakly-defined banding. 346.75 - 352.43 Banding at 70°/C.A.	Intensely silicified. Internal features often obscured. Weakly to moderately sericitized. 390.2 - 401.12 Moderately to highly sericitized patches in the matrix.	Matrix cut by large (2-20cm) Qv containing Sp-Ga aggregates.
401.12	End of Hole.							

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SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
B396	06/01/86	12/01/86	BQ

Logged by: Dean McDonald

Remarks - *Remarques*: DOM/WIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
1287+00	-597+00	pas d'arpentage	276 7	-65 00	398.07

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
93.27	Tout droit	-65.0
190.80	Tout droit	-58.0
274.32	Tout droit	-51.0
396.24	Tout droit	-44.0

Comments - *Remarques*: Pas de trépan - "core"

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No du TROU
Hole No B-396

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
0.0	OVERBURDEN							
12.19	DACITE TUFF LAPILLI	Dark green-grey	DACITE TUFF LAPILLI F.g., relatively homogeneous matrix contains poorly-sorted acid and sericitized fragments. Occasionally cut by qtz. veins.		Hard	Intense internal fabric. Elongation of fragments parallel to main fabric. 16.0m - 57°/C.A. 32.0m - 58°/C.A.	Moderately to highly sericitized. Moderate chlorite. 12.19 - 26.21 More intensely seritized. Minor chlorite.	Diss. cubic to irregular shaped Py aggregates. (1-2%). 26.21 - 29.26 Diss., irregular-shaped bands of Py (2-3%).
33.50	DACITE TUFF (Qe)	Dark grey	DACITE TUFF (QUARTZ EYES) Aphanitic, homogeneous, tuffaceous matrix contains diss. (1-2%), f.g. (1mm), rounded Qe. Localized pisolitic sections. (pisolites 2-3%).		Hard	Strong internal fabric. (More weakly developed than in previous section). 34.57 - 35°/C.A. 38.05 - 38.66 Low angle fracture (5°/C.A.)	Moderate sericite and chlorite in the matrix. Assoc. limonite.	No distinct mineralization
52.52	INTRUSIVE?	Dark grey	F.g., homogeneous matrix cut by narrow qtz.-carb. veins.		Hard	Forms sharp, but irregular contacts. No distinct internal fabric.	Weakly chloritized matrix.	No distinct mineralization Minor Py on fringes of intrusive.
63.15	DACITE TUFF (Qe)	Light grey	DACITE TUFF QUARTZ EYES Aphanitic, homogeneous		Hard	Fairly strong internal	Generally, weak to moderate	

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Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques – (minéralisation, eau, effondrement, etc) / Remarks – (mineralization, water, caving, etc)
			matrix contains diss. (4-6%) f.g. (2mm), rounded to angular quartz eyes.			fabric. 74.62 - 60°/C.A.	levels of chlorite in matrix	
	DACITE TUFF (Bx)		79.70 - 81.70 Brecciated zone. C.g. (0.5 - 5.0cm) elongate siliceous and D.T.(Qe) fragments.		Soft	Intense internal fabric. (35°/C.A.) Seems to form a transition zone into the graphitic unit.	Highly chloritized matrix.	Contain c.g. euhedral Py, f.g. Py aggregates, concentrations of Po. Locally, minor (4-8cm) zones of MPy.
81.70	GRAPHITE	Black	GRAPHATIC ZONE Aphanitic, banded matrix. Narrow (1-4cm) dark grey bands are slightly coarser-grained than graphitic units. Cut by numerous, narrow contorted qtz.-carb. veins.		Soft	Internal banding is sharply-defined but can be contorted or crenulated. Banding 62°/C.A. 87.17 - 87.40 Highly fractured zone. (Fault?)	Consists of f.g. graphite and chlorite.	C.g., euhedral Py are weakly diss. within the matrix (3-4%). F.g. Py forms narrow bands.
88.80	DACITE TUFF LAPILLI (Qe)	Light-dark green-grey	DACITE TUFF LAPILLI (QUARTZ EYES) F.g., homogeneous matrix contains poorly-sorted sericitic chloritic andD.T. (Qe) fragments. Matrix also contains diss. (3-4%) rounded Qe. Proportion Qe increase down-hole.		Hard	Intense internal fabric. Elongations of fragments parallel to main fabric. 93.07 - 47°/C.A. 105.00 - 26°/C.A.	Weakly to moderately sericitized. Moderately chloritized 91.00 - 97.30 Moderately sericitized.	88.80 - 90.60 Matrix contains diss. (3-4%) c.g. euhedral Py. 111.00 - 114.60 Diss. c.g. cubic Py (1-2%)

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
						123.75 Intense internal fabric. (40°/C.A.)		
	MAFIC DYKE	Dark grey	131.82 - 135.00 Aphanitic, homogeneous matrix contains diss. (5-10%) c.g. (2-4mm), euhedral carbonate (feldspar) specks. Cut by narrow qtz.-carb. veins.		Fairly soft	Defined by sharp contact. (45°/C.A.)	Highly chloritized.	No distinct mineralization
						138.10 Intense internal fabric. (30°/C.A.)	135.00 - 142.20 Matrix is intensely sericitized.	
	MAFIC DYKE	Dark green	142.20 - 144.06 Aphanitic, homogeneous matrix contains diss. (2-3%) dark green specks. Cut by numerous narrow qtz.-carb. veins.		Hard	Defined by sharp contacts (30°/C.A.). No internal penetrative fabric.	Moderately chloritized. Highly carbonatized.	No distinct mineralization
						151.18 Strong internal fabric (59°/C.A.). Elongation of fragments parallel to main fabric.	144.06 - 156.30 Matrix contains patches that are highly sericitized and chloritized.	
	FELSITE DYKE	Light-medium grey	156.30 - 162.67 F.g., slightly crystalline, homogeneous matrix. Contains irregular-shaped pieces of D.T.L. Cut by narrow qtz.-carb. veins.		Hard	Defined by sharp contacts (42°/C.A.) No internal penetrative fabric.	Highly carbonatized. Weakly chloritized.	No distinct mineralization

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			Contains diss. (3-5%), c.g. round Qe.			166.80 Strong penetrative fabric. (58°/C.A.)	162.67 - 166.80 In places, both highly sericitized and chloritized.	
	MAFIC DYKE	Dark green-grey	166.80 - 172.27 Aphanitic, siliceous, homogeneous matrix containing diss., (3-4%) c.g. (2-3mm) dark green specks. Cut by occasional, narrow quartz veins. Encloses a few D.T.L. bands (fragments).		Hard	Defined by sharp contacts (59°/C.A.). No internal penetrative fabric.	Intensely silicified. Moderately carbonatized.	No distinct mineralization
			172.27 - 180.13 Proportion of fragments decreases to 3-5%. Matrix also contains diss. (2-4%) rounded to angular Qe.		Fairly hard	Strongly-defined internal fabric. 175.56 (62.0°/C.A.)	Weak to moderate sericite. Minor chlorite.	Diss. (1-2%), irregular shaped Py aggregates.
180.13	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic, banded matrix contains diss. (3-4%) f.g. (1mm), rounded Qe.		Hard	Forms gradational contact with D.T.L. Contains fairly sharply-defined sericitized bands. 182.40 - Sericitized banding (parallel to foliation). (45°/C.A.)	Matrix is moderately to highly sericitized. 182.0 - 198.2 Highly sericitized patches defined by bands	Contains irregular-shaped bands of Py and Po. Contains diss. (1-2%) c.g., euhedral Py.

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Profondeur / Depth	Genre de Roche / Rock Type	Couleur / Colour	Texture - Composition / Granulometrie - grain size	Fracture/ Metre	Duretée / Hardness	Structure	Altération / Alteration	Remarques - (minéralisation, eau, effondment, etc) / Remarks - (mineralization, water, caving, etc)
						189.10 Sulphide bands oriented at 38°/C.A.		
						196.60 Sericitized banding (parallel to foliation) (52°/C.A.)		
						Banding is less distinct.	198.2 - 219.63 Highly silicified zone. Low to moderate sericite levels.	
						206.0 Fairly strong internal fabric (41°/C.A.).		
						213.50 Internal fabric (25°/C.A.)		
							219.63 Moderate to high sericite.	
	FELSIC DYKE	Light grey	219.93 - 221.73 Consists of an aphanitic, homogeneous matrix. Locally, encloses Q.P. fragments.		Hard	Contact sharply-defined at 45°/C.A. Weak internal fabric. 225.85 Strong internal fabric. (28°/C.A.)	Weakly chloritized.	Contains weakly diss. (1%) aggregates of Py.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-396

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			221.73 - 249.60 Proportion of Qe increases (4-7%). The Qe are coarser (1-2mm) and a greater proportion are angular in shape.			Weakly to moderately-defined sericite levels in the matrix. Weakly-defined sericite bands in places. 242.10 Fabric oriented at 30°/C.A. 255.56 Narrow sheared zone. (Fault?) (40°/C.A.).	221.73 - 249.60 The matrix is highly silicified. Also contains moderate to high sericite.	
							256.34 - 289.70 Highly to intensely silicified zone. Weak to moderate sericite.	Contains erratically distributed veinlets with Py and Po.
						277.40 Strong internal fabric (50°/C.A.). Sericitized bands are parallel to main foliation. 283.20 Strong internal fabric (37°/C.A.). Associated sericitized bands.		278.50 - 283.74 Py, Po aggregates associated with Qe.
							289.70 - 300.53 Intensely sericitized.	
						290.80 Strong internal fabric (38°/C.A.)		

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
								300.53 - 304.93 Zone of quartz injection. Contains diss., irregular-shaped conc. of Py, Sp, and and Ga.
						304.50 - 306.20 Cut by intensive fabric (54°/C.A.)	303.90 - 309.30 Matrix is highly silicified and moderately sericitized and chloritized.	
						310.39 - 312.72 Highly brecciated, sheared zone. (Fault?) Low angle shears (3°-8°/C.A.)	318.82 - 323.85 Matrix is highly silicified. Contains moderate levels of sericite.	
						322.22 - 324.50 Strong internal fabric (59°/C.A.)		
	MAFIC DYKE?	Dark grey	326.67 - 331.14 F.g. homogeneous matrix consisting of weakly-defined bands.		Soft	Defined by sharp contacts 50°/C.A. Cut by a fairly intense fabric.	Highly chloritized. 331.14 Matrix is intensely silicified. Contains moderate levels of sericite.	No distinct internal fabric.

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No du TROU
Hole No B-396

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
	FELSIC DYKE	Light green-grey	345.91 - 348.61 Aphanitic, homogeneous matrix with occasional weakly-defined internal banding.		Soft	Defined by sharp, but irregular contacts. (43°/C.A.) Weak internal fabric.	Highly chloritized and carbonatized.	No distinct mineralization
						Strong internal fabric (63°/C.A.)	348.61 - 360.80 Highly to intensely silicified. Low to moderate levels of sericite.	
	CHLORITIZED ZONE	Dark green	360.80 - 365.20 Zone is highly chloritized. Proportion of Qe decrease substantially (2%).		Hard	Intense internal fabric (59°/C.A.)	Chloritized.	Contains minor (2-3%) diss. Py aggregates.
						365.00 - 365.20 Highly brecciated zone (35°/C.A.)	Assoc. kaolin alteration.	
365.20	DACITE TUFF LAPILLI	Light green-grey	DACITE TUFF LAPILLI F.g. homogeneous matrix contains diss (10-15%) rounded to angular acid fragments.		Hard	Contains strong internal fabric. Elongation of fragments parallel to the fabric. (48°/C.A.)	Matrix is moderately siliceous. Contains localized zones of intense chloritization and sericitization.	Contains patches of diss. Py.
							365.20 - 369.95 Intensely silicified. Strongly seritized.	Minor diss. (1-2%) f.g. Py.
						Strong internal fabric. (47°/C.A.)	369.95 - 376.00 Moderately to highly chloritized. Minor sericite.	Contains diss. (5-10%) f.g. Py within the matrix.

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LES MINES SELBAIE

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture – Composition Granulometrie – grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques – (minéralisation, eau, effondrement, etc) Remarks – (mineralization, water, caving, etc)
						378.37 - 378.41 Localized fracture zone. (Fault?) (78°/C.A.)	385.37 - 378.41 Moderate chloritization and sericitization. Highly siliceous.	384.13 - 394.50 Contains diss. (7-10%) f.g. Py within the matrix.
398.07	End of Hole							

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DIAMOND DRILL RECORD

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SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

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PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
B397	18/1/2/85	22/1/2/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
	1164+00	-454+00	276.7	-65.00	203.00

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
91.44	Test d'Azimuth	-62.0
99.36	23.67	-59.0
182.88	Test d'Azimuth	-60.0
190.80	24.61	-60.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-397

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
0.0	OVERBURDEN							
6.10	QUARTZ PROPHYRY	Dark - light grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains weakly diss. (1-2%) f.g. (<1mm) rounded Qe. Lower in unit, internal banding becomes discernable. Unit cut occasionally by quartz vein.		Hard	Weak internal fabric. 18.00 internal fabric (34°/C.A.).	Highly siliceous matrix. Weakly chloritized.	Patches contain diss. (1-2%), f.g. Py.
		Black	11.50 - 13.00 Contains narrow (1-4cm thick) graphitic zone. (3°-6°/C.A.).			Shear zone? (3°-6°/C.A.).		
			31.20 - 77.10 Matrix consists of distinct narrow (1mm) siliceous bands. Some bands are contorted.			32.85 Orientation of internal bands (45°/C.A.) 40.00 Orientation of internal bands (76°/C.A.) 57.91 - 61.84 Highly fractured zone (Fault?) (?/C.A.) 66.10 Orientation of banding (58°/C.A.) Banding becomes more diffuse down-hole	Highly siliceous. Low to moderate sericite, chlorite. Proportion of sericite increases down-hole.	Low R.Q.D.

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SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

No du TROU
Hole No B-397

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
	Bx	Dark green-grey	77.10 - 87.17 Contains erratically distributed c.g. (2-6cm), irregular to angular-shaped siliceous fragments (5-10%). Also contains chloritic (graphitic) patches.		Hard	Within this zone banding is poorly-defined or disrupted.	Highly siliceous matrix. Weakly chloritized, sericitized.	No distinct mineralization.
						88.25 - 102.41 Distinctly defined siliceous banding. (65°/C.A.)		
			102.41 - 135.10 Internal banding is indistinct Proportion of Qe increases (4-6%). Qe are often euhedral in shape.			Weak internal fabric. (37°/C.A.)	Highly siliceous matrix. Weakly chloritized, sericitized.	
		Light green	135.10 - 151.80			Strong internal fabric. (56°/C.A.).	Highly sericitized zones. Minor chlorite.	Contains diss. Py aggregates (4-7%) within matrix. Trace sphalerite associated with Qv.
						136.80 (2cm) Narrow fault zone (85°/C.A.)	Assoc. kaolin.	
						137.17 (6cm) Narrow fault zone (80°/C.A.) Assoc. gouge.	Assoc. kaolin.	
						150.80 Strong internal fabric. (52°/C.A.).		

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondment, etc) *Remarks – (mineralization, water, caving, etc)*
	DACITE TUFF LAPILLI	Light green-grey	INTERBANDS OF DACITE TUFF LAPILLI 151.80 - 155.90 Consists of bands that contain poorly-sorted f.g.-m.g. (0.2-2.0cm) quartz fragments. Matrix is often disrupted and broken up by quartz veins.		Hard	Forms gradational contact with Q.P. Generally strong internal fabric (65°/C.A.)	Highly siliceous, intensely sericitized matrix.	Aggregates of Py, Sp, and Ga within Qv.
		MAFIC INTR. Light-dark grey	155.90 - 160.98 Aphanitic, relatively homogeneous matrix. Silicified in places. Contains zones? (fragments?) of Q.P. (Bx).		Soft	Forms sharp contacts with adjacent units. (68°/C.A.) Strong internal fabric. (46°/C.A.) 159.66 - 159.74 Brecciated (gouged) zone. (Fault) (49°/C.A.). 160.30 - 160.38 Gouged zone (Fault) (50°/C.A.)	Highly chloritized. (Minor sericite). Silicified in places. Chloritized.	Aggregates of Py, Sp, Ga within quartz-rich areas. (Fragments)
160.98	QUARTZ PORPHYRY (SIL)	Light green-grey-white	SILICIFIED QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains weakly diss. (1-2%), f.g. (<1mm), rounded Qe. Locally, the Q.P. is brecciated.		Hard	Weak internal fabric.	Intensely silicified. Locally, highly sericitized.	Sp, Py, Ga aggregates concentrate in networks of veinlets.
		Q.P. (Bx)	160.98 - 162.66 Brecciated Q.P. fragments have subsequently been		Hard	Fairly sharp, but irregular contact with adjacent units.		168.92 - 203.00 Sp, Py, Ga aggregates

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SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

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Hole No B-397

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
			healed by quartz.				174.24 - 181.66 Moderately to highly sericitized.	form irregular-shaped veinlets and concentrations. These mineralized aggregates are erratically distributed.
		Q.P.(Bx)	176.16 - 178.98 Brecciated Q.P. fragments (similar to interval 160.98 - 162.66).			Forms sharp contacts. Upper contact - 50°/C.A. Lower contact - 28°/C.A.		
						Weak internal fabric. (45°/C.A.)	187.76 - 203.00 Moderately to highly sericitized.	
203.00	End of Hole.							

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BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

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HOLE Nº / Nº du TROU: Lic. 347607-3 B-398

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SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / Nº du Trou	Date Started / Date Commencée	Date Completed / Date Terminée	Core Size / Grosseur de Carotte
B398	14/11/85	22/11/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / Abscisse (Metres)	Northing / Ordonnée (Metres)	Elevation / Elévation (Metres)	Azimuth (Degrees / Degrés)	Inclination / Inclinaison (Degrees / Degrés)	Total Length / Longueur Totale (Metres)
	100+00	-44+00	027.67	-65.00	498.65

Depth - Metres / Profondeur	Azimuth	Inclination / Inclinaison
91.44	ACID	-64.0
96.01	28.67	-62.0
182.88	ACID	-62.0
187.45	34.67	-61.0
278.89	31.67	-60.0
365.76	ACID	-58.0
472.44	28.67	-53.0

Comments - *Remarques*

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-398

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
0.0	OVERBURDEN							
16.15	DIORITE	Dark green-grey	DIORITE Fairly c.g., crystalline texture (chlorite, quartz, carbonate mossaic). Relatively homogeneous in composition. Contains narrow zones of more felsic equivalents.		Fairly soft	Generally no internal fabric.	Highly chloritized with significant carbonate.	No distinct mineralization. (Minor Py is assoc. with Qv
	FELSIC PHASE	Light green	20.88 - 21.27 F.g., crystalline texture (quartz, carb., Ba-mica (light green) mossaics). Relatively homogeneous composition.		Fairly hard	Defined by fairly sharp contacts (25°/C.A.). Strong internal fabric adjacent to fault. (37°/C.A.)	Strongly carbonatized. Patches of light green mica diss. within the matrix.	Contains diss. (3-4%), c.g., euhedral Py in the matrix.
						21.26 - 21.36 Fractured zone. (Fault).	Limonite stain.	
46.05	GRANODIORITE PHASE	Light-dark green	GRANODIORITE PHASE Fiarly c.g., crystalline texture (chlorite, qtz., carb., mosaic). Contains higher proportion of felsic component (60-75%). Relatively homogeneous. Cut by numerous narrow (1-2cm) qtz.-carb. veins.		Fairly hard	Forms gradational contact with dioritic unit. Weak internal fabric except near qtz.-carb. veins. Qtz.-carb. veins show random orientations.	Moderately chloritized. Highly carbonatized.	No distinct mineralization.
	FELSIC PHASE	Light green	52.72 - 59.83					

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
			F.g., crystalline, homogeneous texture. Similar to 20.88-21.27 except, this interval has a smaller proportion of Ba-mica (light green) (3-5%).		Hard	Unit defined by fairly sharp, but irregular contacts. (50°-70°/C.A.)	Moderately carbonatized.	No distinct mineralization.
59.83	DIORITE	Dark green-grey	DIORITE Firly c.g., crystalline texture similar to interval 16.15-20.88. Relatively homogeneous. Matrix has a slightly pinkish hue.		Fairly hard	Weak internal fabric.	Strongly chloritized and carbonatized.	No distinct mineralization.
						85.21 - 85.36 Brecciated, leached zone. Fault (45°/C.A.)	Significant limonite stain.	
	FELSIC PHASE	Light green	85.36 - 86.00 F.g., crystalline, homogeneous matrix. Contains weakly diss. (2-3%) Ba-rich mica. NOTE: On both sides of the felsite phase, chlorite in the diorite accumulates into irregular-shaped bodies (1-3cm in length) .		Hard	Defined by fairly sharp contacts (70°/C.A.)	Weakly - moderately carbonatized.	Contains diss. (2-3%) c.g., euhedral Py.
	G.D.	Light-dark green-grey	GRANODIORITE 95.40 - 104.46 Fiarly c.g., crystalline matrix. Chlorite aggreates forms distinct rounded conc. which are diss. throughout the matrix.		Fairly hard	Forms a fairly diffuse contact with diorite. No distinct internal fabric.	Matrix is carbonatized.	No discernable mineralization.

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
						103.20 - 104.10 Highly fractured zone. Cut by a number of random, irregular fractures.	Limonite and hematite staining in some fractures.	Minor diss. (1%) f.g. Py along fractures. (Low R.Q.D.)
	G.D. & FELSIC		GRANODIORITE MIXED WITH FELSIC PHASE 110.50 - 117.00 G.D. portion is similar in texture to interval (94.50 - 104.46). Contain zones of felsic material. Felsic phase is devised of micaceous aggregates.		Hard	Contact between G.D. and diorite is diffuse. Contact between G.D. and Felsite unit is sharply-defined (39°/C.A.)	Unit is weakly carbonatized.	Py aggregates are weakly diss. (1%) within the matrix.
			FELSIC PHASE 123.30 - 129.69 F.g., weakly crystalline homogeneous matrix. Contains weakly-defined Ba-mica concentrations. (2-3%).		Fairly hard	Form fairly diffuse contacts. No internal penetrative fabric.	Slightly carbonatized.	135.00 - 135.94 Cut by Qv which contain Cp-blebs. (1%).
						146.58 - 146.65 Strong internal fabric. (25°/C.A.)	Weak to moderate sericite.	142.03 - 152.60 Contains diss. (1-2%) c.g., euhedral Py. Minor Cp assoc. with Qv.
							Slightly silicified. Weak to moderate sericite.	
						155.15 - 155.26 Shear zone (5°-10°/C.A.)	Highly sericitized.	153.92 - 155.80 C.g., euhedral Py

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
								diss. (3-5%) within the matrix.
159.60	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic, homogeneous matrix contains f.g. (2mm) irregular-shaped quartz eyes. (2-4%) Cut by a number of irregular-shaped Qv.		Hard	Forms gradational contact with the dioritic sequence.	Weakly sericitized. Highly siliceous.	Matrix contains weakly diss. (1%) f.g. Py.
			164.25 - 178.80 Q.P. unit cut by numerous chloritized veinlets. These veinlets are random in distribution and produce brecciation in places. (171.44-175.80 - This zone is strongly hematized).		Hard	Gradational contact. The chloritized veinlets have no distinct patterns or orientation. Internal fabric is weakly developed.	Qv produce a strongly chloritized halo. Interval 171.44-175.80 is highly hematized. Also strong carbonatization in places.	Chloritized zones contain diss. (3-5%), f.g. - c.g. (1mm-0.5cm), euhedral Py.
185.85	QUARTZ PORPHYRY (L) (CHL)?	Light green patches	Aphanitic, homogeneous matrix contains very f.g. (1mm) diss. (1-2%) Qe. The matrix contains (15-25%) irregular-shaped chloritic concentrations (entities). (Entities vary in size from (0.2 - 4.0cm). Contains diss. (3-5%) f.g.-c.g. (0.2-3.0mm) irregular-shaped siliceous fragments In a few places, fragments can reach a size of 10-15cm.		Fairly hard	Forms a fairly sharp, irregular contact with the Q.P. unit. Internal fabric is quite weak in the upper portion of the unit. The fabric increases in intensity as you go down the unit.	Matrix is highly siliceous. Localized patches are extremely chloritized.	Diss., f.g. Py form irregular-shaped patches in both the siliceous and chloritized zone.

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
			236.50 - 358.44 Proportion of chlorite increases downhole. Shape of chloritic entities is dependent on intensity of the internal fabric.			237.10 Weak fabric (21°/C.A.) 252.25 Fairly strong fabric (46°/C.A.) 256.34 Strong internal fabric. (33°/C.A.) 267.50 Intense internal fabric. (32°/C.A.) 290.20 Weak internal fabric. (35°/C.A.) 306.40 Strong internal fabric. (38°/C.A.) 317.72 (12cm) Fractured zone. Assoc. strong	Fabric defined by chlorite. Defined by chlorite. Chloritic "entities" elongate parallel to main fabric. Chlorite "entities" are elongate parallel to main fabric. Fabric defined by chlorite. Chloritic bands form parallel to the fabric. Chloritic entities are irregular in shape. 312.72 - 358.44 Matrix consists of moderate levels of sericite. Proportion of chlorite is moderate - high.	301.05 - 303.58 C.g., euhedral Py diss (1%) within chloritic patches. Low R.Q.D.

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Textu - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
						fabric (46°/C.A.)		
						326.80 - 327.37 Fractured zone. Assoc. strong fabric (3°-6°/C.A.)	Assoc. kaolin.	Low R.Q.D.
						328.05 (3cm) Narrow fault zone. (37°/C.A.)	Assoc. kaolin.	
						332.95 Strong internal fabric. (41°/C.A.)	Fabric defined by chlorite.	
358.44	QUARTZ PORPHYRY (CHL. FRAG.)	Light green - Dark grey	QUARTZ PORPHYRY (CHLORITE FRAGMENTS) The matrix is highly disrupted. It consists of aphanitic quartz, sericite and carbonate and contains diss. (2-5%), f.g. irregular-shaped quartz eyes. Contains c.g. (1.5-4.0cm) irregular-shaped chloritic entities. Distribution of these chloritic "entities" is uneven and vary in proportion from 5-15%		Hard	Gradational contacts with adjacent units. Development of internal fabric is heterogeneous. Locally, the fabric is moderately to highly developed.	Highly siliceous (silicified?) matrix. Moderately to highly sericitized. Matrix contains only trace chlorite.	No visible mineralization.
						363.50 Internal fabric oriented at 32°/C.A.	Fabric is defined by sericite concentrations.	
364.54	DACITE TUFF (L)		DACITE TUFF (LAPILLI) Aphanitic, relatively homogeneous matrix contains weakly diss. (2-3%), f.g., rounded		Mod.-hard	Generally, well developed internal fabric.	Contains moderate levels of both chlorite and sericite.	Isolated patches of diss. Py (1%).

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No du TROU
Hole No _____

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No B-398

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			quartz eyes. Also contains poorly-sorted, f.g. - c.g. (0.4-3.0 cm), rounded to irregular-shaped acid fragments. Proportion of lapilli fragments decreases downhole.			388.05 Strong internal fabric. (38°/C.A.)	Defined by chlorite, sericite.	
						399.10 Strong internal fabric. (44°/C.A.)	Defined by chlorite, sericite.	
						406.20 Strong internal fabric. (38°/C.A.)	Defined by chlorite, sericite.	
							413.30 - 437.69 Matrix is highly carbonatized. Also contains low - moderate levels of sericite, chlorite.	
						427.00 Fairly strong internal fabric. (40°/C.A.)		
						441.10 Intense localized fabric. (37°/C.A.)	Minor assoc. kaolin.	
						449.55 Strong localized fabric. (14°/C.A.)	Assoc. sericite.	
						457.00 - 465.60 Brecciated zone. Series of low angle fractures. Faults. (2°- 5°/C.A.)	Assoc. manganese staining.	Low R.Q.D.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No B-398

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture – Composition Granulometrie – *grain size*	Fracture/ Metre	Dureté *Hardness*	Structure	Altération *Alteration*	Remarques – (minéralisation, eau, effondrement, etc) *Remarks – (mineralization, water, caving, etc)*
482.20	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY Aphanitic homogeneous matrix contains diss. (2-4%) f.g. rounded quartz eyes. Infrequently cut by narrow, sharply-defined quartz veins.		Hard	Forms gradational contact with D.T.(L). Fairly strong internal fabric	Highly siliceous matrix. Contains low - moderate sericite.	Isolated patches of f.g. diss. Py.
498.65	End of Hole.							

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Hole No _____

BP RESOURCES CANADA LIMITED - SELCO DIVISION

DIAMOND DRILL RECORD

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SUMMARY SHEET and SURVEY DATA
SOMMAIRE et RÉSULTATS D'ARPENTAGE

HOLE Nº / *Nº du TROU*: DB-12

PAGE Nº / *Nº de Feuille*: 1

PROJECT / *PROJET*: Les Mines Selbaie

Hole Nº / *Nº du Trou*	Date Started / *Date Commencée*	Date Completed / *Date Terminée*	Core Size / *Grosseur de Carrotte*
DB12	06/12/85	09/12/85	BQ

Logged by: Dean McDonald

Remarks - *Remarques*: DOMINIK

COLLAR INFORMATION - *INFORMATION DU COLLET*

Easting / *Abscisse* (Metres)	Northing / *Ordonnée* (Metres)	Elevation / *Elévation* (Metres)	Azimuth (Degrees / *Degrés*)	Inclination / *Inclinaison* (Degrees / *Degrés*)	Total Length / *Longueur Totale* (Metres)
112+00	-61+00		030.0	-61.0	500.79

Depth - Metres / *Profondeur*	Azimuth	Inclination / *Inclinaison*
310.29	20.	-32.0
401.73	25.	-36.0
493.17	26.	-39.0

Comments - *Remarques*

DEEPEN FROM 232.87 to 500.79 m.

GEOLOGY

232.87 - 307.57	Q.P.	
	246.42 - 250.30	INTER Q.P. & ARG.
	260.78 - 264.30	INTER Q.P. & ARG.
307.57 - 341.66	D.T.(L)	
341.66 - 388.83	AND	
	350.10 - 361.70	AND (Qe)
	367.79 - 381.90	AND (SIL)
388.83 - 396.60	RHY	
396.60 - 414.34	D.T.(L)	
	398.50 - 414.34	D.T.(L) - Py (412 - 421) 29.4/9.0m 9pt Ag
414.34 - 475.30	RHY	
475.30 - 500.79	Q.P. (SIL) - RHY	

MINERALIZATION

261.00 - 265.00	1% Py
308.00 - 319.00	1-2% Py
334.00 - 339.00	1% Py
396.00 - 412.00	2% Py
412.00 - 421.00	3% Py, <1% Sp
431.00 - 436.00	1-2% Py
447.00 - 458.00	2% Py
483.00 - 488.00	1-2%

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU 3A7415-13

Hole No DB-12

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
232.87	QUARTZ PORPHYRY	Light green-grey	QUARTZ PORPHYRY F.g., homogeneous, aphanitic matrix. Contains heterogeneously diss. (2-5%), f.g. (<3mm) equant quartz eyes. Locally, weak banding is present.		very hard	Moderately developed fabric (70°/C.A.).	Highly silicified, with intermittant sericite concentrations. Carbonatized in places	
					soft	236.62 - 236.72 Series of narrow (1-2.5cm) chlorite-graphite bands (30°/C.A.)		
						242.65 - Internal banding (50°/C.A.).	Banding defined by sericite concentrations.	
	QUARTZ PORPHYRY - Arg.		246.42 - 250.30 INTERBANDED QUARTZ PORPHYRY - ARGILLACEOUS SEDM. Argillaceous bands are black, internally banded and weakly graphitic. Bands vary in thickness from (3.0cm-0.9m). Thick bands contain elongate Q.P. fragments (15-25%).		Arg. - soft Q.P. - hard	Orientation of argillaceous bands are fairly consistent (50°-55°/C.A.). Sericitized bands (fabric) coincident with graphitic bands (50°/C.A.)	Q.P. matrix highly silicified with minor sericitized zones. Sericitic halo is present around graphitic bands.	
						250.75 - 251.00 Narrow fractured zone.		Poor R.Q.D.
	QUARTZ PORPHYRY Arg. Sedm.		260.78 - 264.30 INTER. Q.P. - ARG. SEDM. Most arg. bands are sharply defined. A few are contorted or disrupted. Bands are black, homogeneous and slightly graphitic.		Arg.-soft Q.P.-hard	Graphitic bands are sharply defined (45°-55°/C.A.).	Q.P. is silicified. Narrow sericitic halos surround the graphic bands.	Trace c.g. Py (4%) in places.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No DB-12

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Dureté Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
						265.00 - 266.50 Highly fractured zone. Most fractures $\simeq 60^{o}$/C.A.	Trace limonite along fractures.	Poor R.Q.D.
						273.80 - 274.55 Contains narrow contorted bands of graphite with qtz.-carb.	267.00 - 280.00 Interval with moderate levels of sericite.	
						283.80 - 291.50 Contains narrow (0.2-1.0cm) siliceous bands (57°/C.A.)		
						284.65 - 285.10 Highly brecciated zone. Fractures at 38°/C.A.	No alteration along fractures	
						286.10 - 287.70 Highly brecciated zone.		290.80 - 291.00 Py diss. (1-2%) within Qv.
						288.30 - 297.50 Alternating siliceous - sericitite rich bands. (55°/C.A.)		
						297.50 - 303.40 Alternating sil - sericitic bands (65°/C.A.)	Highly siliceous with localized sericitized zones.	
307.57	DACITE TUFF (L)	Light grey	DACITE TUFF (LAPILLI) Aphanitic, heterogeneous matrix containing poorly-defined bands.		Soft - hard	Forms sharp contact with Q.P. (85°/C.A.) Strong internal fabric with	Contains moderate - high chlorite levels. Also contains minor sericite.	

SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

JOURNAL DE SONDAGE

LES MINES SELBAIE

No du TROU
Hole No DB-12

Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondrement, etc) Remarks - (mineralization, water, caving, etc)
			Contains equal proportions of elongate siliceous and chloritic fragments (20-30% of unit). The fragments are poorly-sorted and vary in size from (<0.2 - 1.0cm).			associated elongation of siliceous and chloritic fragments. Fabric oriented from 55°-65°/C.A.	Silicified in places.	
			308.30 - 311.18 Matrix contains diss. (3-5%) irregular-shaped Py aggregates. These aggregates are generally f.g. (1-4mm).					Py (3-5%) in places. 316.80 - 318.50 F.g. Py is diss (1-2%) within the matrix.
	DACITE TUFF (L)	Light - dark grey	326.40 - 331.20 Siliceous, aphanitic, homogeneous matrix contains poorly-sorted f.g.-c.g. fragments (0.2-3.0cm). Fragments are generally siliceous. The more chloritic fragments contains diss. quartz specks.		hard	Fabric is well-developed in places (oriented 50°-55°/C.A.	Matrix is more siliceous than adjacent subunits. Moderate to high chlorite levels (in places). Trace sericite.	335.00 - 336.00 Py aggregates diss. (1-2%) within the matrix.
341.66	ANDESITE	Dark green	ANDESITE Highly siliceous, aphanitic and homogeneous matrix. A weak banding is present in a few places. Some zones contain diss. (2-3%), f.g. (<0.2mm) quartz eyes. Cut by numerous narrow (2-3mm) qtz.-carb. veins.		hard	Forms gradational contact with D.T.(L). Weakly developed cleavage in places. (Heterogeneous deformation). 340.50 - 45°/C.A.	Highly silicified. Narrow chloritic rims around quartz veins. Matrix is highly carbonatized in places.	No associated mineralization.

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SELCO MINING CORPORATION LIMITED

DIAMOND DRILL CORE RECORD

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LES MINES SELBAIE

No du TROU
Hole No DB-12

Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
						348.00 - 350.00 Most qtz.-carb. veins oriented 45°/C.A. 355.40 - 60°/C.A.		
			350.10 - 361.70 Matrix contains weakly diss. (2-4%), f.g. (<0.2mm) quartz eyes with carbonate halos.					
	ANDESITE (SIL)	Pinkish-green	367.79 - 381.90 SILICIFIED ANDESITE Aphanitic, homogeneous matrix. Locally, contains weakly diss. (1-2%), f.g. (<0.2cm) quartz eyes. Cut by numerous, narrow (1-3mm) qtz.-carb. veins.		hard	Weak internal fabric (35-40°/C.A.) Qtz.-carb. veins oriented at 80°/C.A.	Intensely silicified. Significant carbonatization. Chloritic halos around qtz.-carb. veins.	
						382.60 Fabric oriented at 60°/C.A.	Fabric defined by chlorite.	
								387.89 - 388.33 Series of qtz.-carb. veins contains irregular shaped Py aggregates.
388.83	RHYOLITE	Light green-grey	RHYOLITE Aphanitic, homogeneous matrix. F.g. (<1.0mm) quartz eyes are erratically distributed. The matrix is cut by numerous narrow qtz.-carb. veins.			Contact obscurred by qtz. vein.	Intensely silicified. Trace chlorite in places.	

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SELCO MINING CORPORATION LIMITED

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition Granulometrie - *grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondment, etc) *Remarks - (mineralization, water, caving, etc)*
396.60	DACITE TUFF (L)	Light greenish-grey	DACITE TUFF (LAPILLI) F.g., heterogeneous, highly schistose matrix. Contains poorly-sorted, f.g.-c.g. (<0.2 - 2.0cm) chloritic fragments. Near upper contact, bedding shows crude grading (fining uphole).		soft - hard	Upper contact fairly sharply-defined (60°/C.A.). Strong internal fabric (74°/C.A.)	Matrix moderately chloritized. Slightly sericitized in places.	
								398.0 - 398.50 Contains diss. (1-2%) c.g. Py.
	DACITE TUFF (L) Py	Light greenish-grey	398.50 - 414.34 Fairly homogeneous, highly schistose matrix contains irregular-shaped pyritic fragments. Minor chloritic fragments are also present.		soft	Contacts are generally diffuse. Internal fabric is heterogeneously developed. 403.50 - 404.00 Intense fabric (79°/C.A.).	Matrix is weakly chloritized, while sericite content varies from weak to moderate.	F.g. Py (1%) erratically distributed within the matrix. Py fragments make up 2-3% of the unit.
414.34	RHYOLITE	Light green	RHYOLITE Intensely silicified, homogeneous matrix with isolated patches of diss. (<1%) f.g. Qe.		very hard	Sharp contact with D.T.(L) (74°/C.A.). Narrow, irregular-shaped bands of sericite in upper part of unit (65°-70°/C.A.).	Intensely silicified. Matrix is generally moderately sericitized. 414.34 - 417.10 Cut by sericitized bands.	414.34 - 419.60 Contains numerous irregular-shaped Py

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LES MINES SELBAIE

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Profondeur *Depth*	Genre de Roche *Rock Type*	Couleur *Colour*	Texture - Composition *Granulometrie - grain size*	Fracture/ Metre	Duretée *Hardness*	Structure	Altération *Alteration*	Remarques - (minéralisation, eau, effondrement, etc) *Remarks - (mineralization, water, caving, etc)*
								aggregates (3-5%). Minor f.g. Py diss. within the matrix. Minor veinlets with Sp are also present.
						417.10 - 452.70 Sericite concentrations are erratic in distribution. In most cases, appear as micro-fabric infilling.		
								433.40 - 435.00 Irregular-shaped conc. of Py, minor Sp and Cp Py - 2-3%
			442.00 - 443.10 Internal banding within Rhyolite (22°/C.A.)					
								440.40 - 447.00 Unit frequently cut by veinlets and ir-regular-shaped aggre-gates of Py (2%), Cpy (tr) and Sph (1%).
						459.05 Internal banding is at 44°/C.A.		
						462.80 - 464.10 Highly fractured. Fractures sub-parallel to weak banding. (39°/C.A.)	No alteration along fracture surfaces.	
						466.70 - 468.05 Weakly defined siliceous bands (45%).	Minor sericite within bands.	

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Profondeur Depth	Genre de Roche Rock Type	Couleur Colour	Texture - Composition Granulometrie - grain size	Fracture/ Metre	Duretée Hardness	Structure	Altération Alteration	Remarques - (minéralisation, eau, effondment, etc) Remarks - (mineralization, water, caving, etc)
						468.00 - 469.70 Highly fractured zone. Main fracture parallel to C.A (Fault?).	Minor limonite along fracture surfaces.	
						471.74 - 475.30 Highly fractured zone. Main fracture parallel to the C.A.	Limonite along fracture surfaces.	471.20 - 474.60 F.g. Py diss. (≤1%) within the matrix.
475.30	QUARTZ PORPHYRY (SIL) (RHY)	Light green-grey	SILICIFIED QUARTZ PORPHYRY Aphanitic, relatively homogeneous matrix. Contains weakly diss. (1-2%), f.g. (≤2mm), irregular-shaped Qe. Occasionally cut by narrow Qv at various orientations.			Arbitrary contact defined by the presence of well-defined Qe. Contains distinct internal banding (0.2-2.0cm). 485.0 - Internal banding oriented at 25°/C.A. 492.10 - Internal banding (30°/C.A.) 500.30 - Internal banding (15°/C.A.)	Intensely silicified, obscuring original features. Matrix moderately sericitized Often sericitization is confined to distinct bands.	Contains patches of diss., f.g. pyrite. 483.80 - 488.20 Contains erratically diss. (2-3%), c.g. euhedral pyrite.
500.79	End of Hole							

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