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CAMPAGNE DE SONDAGES, PROJET WILCO

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CAMPAGNE DE SONDAGES

PROJET WILCO

11-424

[redacted]

avril 1980 Serge Bureau

SOQUEM 2406, Quatre-Bourgeois, Sainte-Foy, Québec G1V 1W5 / Tél.: (418) 658-5400 / Télex: 011-3421

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I- INTRODUCTION

Ce rapport fait suite à la campagne de sondages exécutée entre le 28 janvier et le 13 mars 1980, dans le quart nord-est du canton de Rouyn dans le cadre d'une évaluation d'une partie de la propriété Wilco.

Vous trouverez dans ce rapport les principaux objectifs poursuivis par les sondages ainsi que les résultats obtenus. Des recommandations pour les travaux ultérieurs y sont formulées.

II- DESCRIPTION DE LA PROPRIETE

La propriété Wilco comprend les concessions minières 265 et 266 constituées des blocs suivants:

C.M. 265 Blocs # 30, 31, 32, 33, 84, 149, 150, 151, 155, 156, 190.

266 Blocs # 160, 161, 162, 163, 194, 195.

La propriété comprend aussi les claims miniers T4741 à T4744, C-120104 - 1 à 4 et C 120105 - 1 à 5.

III- LOCALISATION ET ACCES

La propriété est située entre le lac Tremoy (Osisko) et le lac Rouyn, à environ 1 km à l'est des villes de Rouyn - Noranda dans le rang VIII du canton Rouyn (figure 1). Le chemin qui contourne le lac Tremoy (Osisko) et qui mène au dépotoir municipal, traverse la propriété.

L'aire de sondage touchée par cette campagne occupe le coin N-O de la propriété (Bloc 32, C.M. 265) et n'est accessible que par un chemin d'hiver sur le lac Osisko.

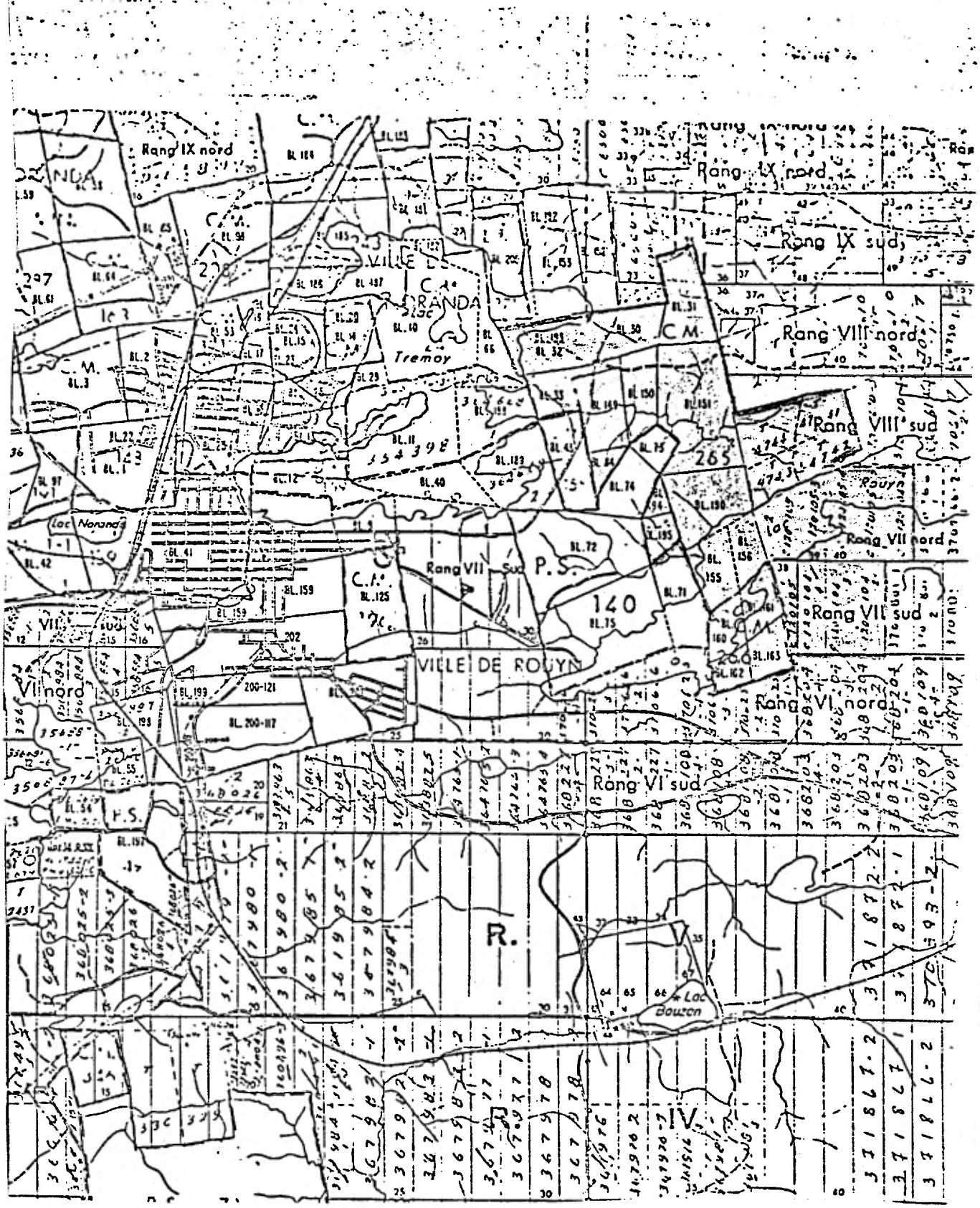

Figure 1 Carte de localisation, propriété Wilco 1:50 000

IV- TRAVAUX ANTERIEURS

Depuis 1927, il y a eu plusieurs campagnes d'exploration sur la propriété Wilco. Les travaux effectués ont mis à jour deux (2) zones minéralisées: une zone cuprifère (180 000T à 0.7% Cu) entre les lignes 8W et 12 E à 100' au sud de la ligne de base et une zone aurifère en-dessous de la baie du lac Osisko dans le coin N-O de la propriété. La figure 2 montre la localisation de ces deux zones.

La zone aurifère, qui fait l'objet de ce rapport, fut mise en valeur par la compagnie Wilco Mining. Cette compagnie qui a effectué une série de sondages (12) sur la zone (1958-1963) rapporte une veine de quartz aurifère qui prend naissance sur la limite nord de la propriété. Celle-ci plonge (60^{o}) vers le sud.

Le plan #140 montre la localisation de ces sondages et les sections de sondages (plans #141 à 159)donnent les principaux résultats obtenus. Vous trouverez en annexe les journaux de sondages de ces trous.

V- TRAVAUX EFFECTUES

Six (6) sondages, totalisant 1 278 mètres furent effectués. Les principales données techniques sont fournies dans le tableau 1.

VI- CIBLES DE SONDAGES

Les sondages effectués lors de cette campagne avaient comme objectif de recouper la zone aurifère décrite dans les travaux antérieurs afin d'en vérifier l'importance économique, de mieux connaître son attitude spaciale et d'en explorer les extensions vers l'est et le sud.
Les sondages furent localisés de façon à recouper la veine à son niveau le moins profond (500'-700') et de façon à compléter les sections déjà existantes.

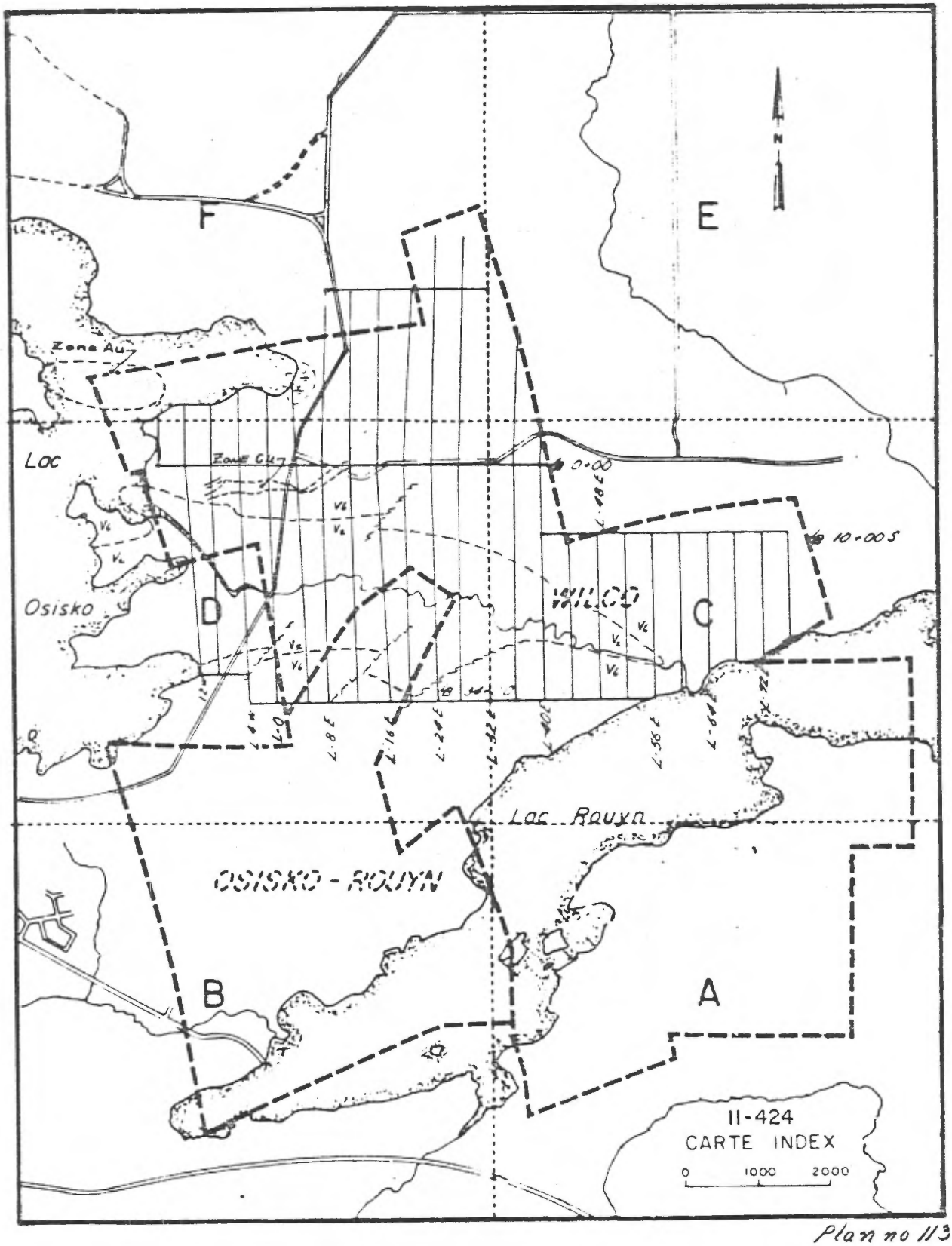

Figure 2. Localisation de la zone d'or et de la zone de cuivre.

TABLEAU 1

DONNEES TECHNIQUES DES SONDAGES

# SONDAGE	PROFONDEUR (METRES)	PLONGEE (DEGRES)	AZUMUT (DEGRES)	MORT-TERRAIN (METRES)	LIGNE	STATION	# BLOC	COMMENCE LE	TERMINE LE
11-424-11	265,85	0:90 872:88 300:89 500:88	360	21,34	1+60E	5+50N	32	04/02/1980	13/02/1980
11-424-12	192,37	0:90 200:90 400:90	360	38,41	6+00E	6+60N	32	15/02/1980	22/02/1980
11-424-13	183,23	0:90 600:86 200:89 400:88	360	40,24	14+00E	7+50N	32	06/02/1980	10/02/1980
11-424-14	239,02	0:90 600:89 200:89 400:89	360	18,90	4+00E	5+50N	32	11/02/1980	20/02/1980
11-424-15	185,06	0:90 600:88 200:89 400:88	360	26,92	4+00E	6+45N	32	22/02/1980	29/02/1980
11-424-16	212,50	0:90 600:86 200:90 400:89	360	43,90	8+00E	6+90N	32	25/02/1980	05/03/1980

TOTAL: 4,192 pieds

VII- DONNEES GEOLOGIQUES ET LITHOGEOCHIMIQUES

- Géologie

Les roches interceptées par les six sondages de la SOQUEM sont très uniformes d'un endroit à l'autre et les principales unités géologiques recoupées sont de composition andésitique. Associées à ces andésites, nous retrouvons quelques unités de tuf basique, de tuf à lapilli; de plus, un sondage recoupe un horizon de rhyolite bréchique. Toutes ces roches sont recoupées par de nombreux dykes de diorite et quelques dykes quartzo-feldspathiques. Les roches sont recoupées par de nombreuses veinules de quartz et montrent une légère schistosité. Les structures mesurées font un angle de 20-45^{o} par rapport à l'axe de la carotte mais les sondages étant verticaux, il nous est impossible de déterminer le sens du pendage. Toutefois, les formations régionales nous indiquent pour ce secteur des directions de coulées orientées est-ouest avec un pendage abrupt (80^{o}) vers le nord. Ce pendage abrupt des formations et le fait que les sondages soient verticaux, rendent toute interprétation géologique difficile.

L'andésite est une roche vert foncé à vert clair, équigranulaire et de granulométrie fine (.1 à 1 mm). Nous la retrouvons sous deux faciès distincts: un faciès massif et un faciès bréchiforme. La lave massive se présente en une suite de coulées de 10-100 pieds d'épaisseur. Les différentes coulées se distinguent les unes des autres par des contacts épidotisés ou par la présence de brèches de coulée à leur sommet. La lave montre, par endroits, quelques coulées amygdalaires à quartz et nous avons pu noter la présence de quelques horizons de laves à sphérolites. Nous pouvons signaler la présence de quelques horizons de laves à coussins mais ce phénomène est très restreint dans le secteur.

L'andésite bréchique pour sa part est composée de deux fractions granulométriques. La première (70% de la roche) est constituée de fragments d'andésite sub-arrondis à arrondis de 1 - 3 cm. Ces fragments altérés et souvent de couleur différente de celle de la matrice, sont distribués inégalement à travers les sections bréchiformes. La matrice (30% de la roche) est vert foncé, aphanitique

et souvent altérée en chlorite et en épidote.

Les autres formations rocheuses, étudiées dans ces sondages, ne représentent que 6% du total des pieds sondés. Le tuf basique est une roche verdâtre, équigranulaire, de granulométrie fine et caractérisé par un litage fin. Le litage est causé par de fines variations de couleurs. Le tuf à lapilli, intercepté dans deux sondages, est caractérisé par une matrice montrant 10% de grains de quartz (1 mm) et 80% de fragments de quartz et feldspath (.5 - 1 cm). Cette roche est dure et très siliceuse. L'unité rhyolitique, interceptée dans le sondage 11-424-16, est une roche vert pâle, épidotisée et siliceuse, composée d'une pâte aphanitique et de 15% de petits fragments de quartz (1 - 5 mm). La roche montre 10% de fragments de rhyolite anguleux (1 - 2 cm).

Toutes ces roches d'origine volcanique furent recoupées par de nombreux dykes de diorite et quelques dykes feldspathiques. La diorite est une roche vert foncé, généralement massive, constituée de 70% de bâtonnets de feldspath (1 - 2 mm) épidotisés et d'une pâte (30%) aphanitique et plus chloriteuse. Les dykes feldspathiques, pour leur part, sont essentiellement composés de feldspath et d'un peu de quartz. La roche est blanchâtre, siliceuse, très dure, aphanitique et homogène. Quelques dykes prennent une teinte rose, ce phénomène étant causé par l'hématite qui altère les feldspaths.

Les seules phases métalliques identifiées dans ces sondages sont la pyrite, l'hématite et des traces de chalcopyrite. La pyrite, la phase la plus importante, se présente sous forme disséminée dans les roches volcaniques et associée aux veinules de quartz. Nous notons une plus grande concentration de pyrite dans la matrice de brèches andésitiques. La chalcopyrite, toujours sous forme de traces, est associée aux veinules de quartz. L'hématite se présente sous deux formes soit: en veinules dans les roches basiques et associée aux feldspaths de certains dykes felsiques.

Suite à la compilation des travaux antérieurs effectués sur la zone d'or située dans le coin N-O de la propriété Wilco, nous avons effectué six sondages totalisant 1 278 mètres. Les sondages avaient comme objectif de recouper une veine de quartz aurifère décelée dans les travaux antérieurs afin d'en vérifier l'importance économique, son attitude spéciale et d'en explorer les extensions vers l'est et le sud.

Les sondages nous révèlent un environnement géologique excellent composé de laves acides recoupées par plusieurs dykes de composition dioritique.

La veine de quartz aurifère prend naissance sous la limite nord de la propriété Wilco, possède une direction est-ouest et plonge (CO^{O}) vers le sud.

- Zone aurifère

Les sondages antérieurs effectués par la compagnie Wilco Mining ont intersecté une veine de quartz aurifère qui occupe la plus grande partie du coin N-O de la propriété.

La veine, qui prend naissance sous la limite nord de la propriété (Apex, 150 m) possède une direction est-ouest et plonge à 60^{O} vers le sud. Le tableau 2 présente les principales intersections obtenues avant les travaux de la SOQUEM.

Les sondages effectués par la SOQUEM, au cours de cette campagne, nous ont permis de réaliser nos objectifs, soit: confirmer la présence de la zone aurifère, mieux définir sa position et compléter les sections de sondages commencées par la compagnie Wilco Mining. Les sondages 11-12-14-15 ont recoupé une veine de quartz aurifère qui peut être corrélée à celle définie par les travaux antérieurs. Les sondages 13 et 16 ne recoupent pas de veine de quartz majeure mais nous obtenons, aux mêmes niveaux, des valeurs en or dans des zones de cisaillement. Le tableau 3 présente les principales intersections obtenues sur les sondages de la SOQUEM.

TABLEAU 2

SONDAGES WILCO (INTERSECTIONS EN OR)

# SONDAGE	LIGNE	STATION	PROFONDEUR (METRES)	EPAISSEUR APPARENTE (METRES)	EPAISSEUR VRAIE (METRES)	AU TENEUR PONDEREE (G/T)
58-1	2+50E	5+60N	243,53 - 244,72	1,40	0,70	16.93
58-2	5+50E	5+35N	213,20 - 215,24	1,92	0,96	5.31
58-4	2+50E	3+10N	327,28 - 328,75	1,46	0.73	8.57
58-5	8+00E	5+35N	214,45 - 215,06 224,32 - 226,03	0,60 1,70	0,30 0,85	7.71 2.91
58-6	10+00E	6+35N	152,74 - 153,14	0,39	0,19	3.94
58-7	12+00E	6+50N	133,23 - 134,14	0,91	0,45	0.61
58-8	5+00E	6+40N	184,87 - 185,79	0,88	0,44	7.71
58-9	7+00E	6+20N	191,30 - 192,25	0,94	0,47	10.93
57-1	3+30E	0+00		0,91	0,45	28.28
63-16	9+00E	4+70N		0,45	0,22	11.31
63-18	8+00E	7+00N	204,42 - 206,52	2,10	1,05	12.51
63-17				1,03	0,51	8.05

TABLEAU 3

SONDAGES SOQUEM (INTERSECTIONS EN OR)

# SONDAGE	LIGNE	STATIONS	PROFONDEUR	GEOLOGIE	EPAISSEUR APPARENTE (METRES)	EPAISSEUR VRAIE (METRES)	AU TENEUR PONDEREE (G/T)
11-424-11	1+60E	5+50N	229,57 - 231,20	V. de quartz	1,58	0,79	3.29
11-424-12	6+00E	6+60N	180,99 - 182,22	V. de quartz	1,64	0,82	7.40
11-424-13	14+00E	7+50N	130,79 - 132,31	Andésite cisaillée	1,52	0,76	2.40
			143,29 - 143,90	+ v. de quartz (2")	0,60	0,30	0.85
11-424-14	4+00E	5+50N	229,02 - 231,09	V. de quartz	2,07	1,03	23.41
11-424-15	4+00E	6+45N	172,01 - 174,78	V. de quartz	2,77	1,38	1.98
11-424-16	8+00E	6+90N	158,90 - 159,54	Andésite cisaillée	0,64	0,32	3.06
			189,48 - 189,78	+ v. de quartz (1")	0,30	0,15	2.57

La zone aurifère est constituée d'une veine de quartz laiteux qui recoupe les roches volcaniques. Le quartz est fracturé, recoupé par des veinules de chlorite et minéralisé en pyrite. Nous notons une nette corrélation entre le pourcentage de pyrite et les teneurs en or.

L'andésite, aux abords immédiats de la veine, est fortement cisaillée, chloriteuse et fracturée. Cette fracturation caractéristique peut s'étendre jusqu'à 15 mètres au-dessus de la veine. L'andésite contient un peu de pyrite (1%) et quelques valeurs en or mais celles-ci sont nettement inférieures à celles obtenues dans la veine de quartz elle-même.

Les figures 3, 4, 5, 6 présentent les principales caractéristiques de la zone aurifère. Nous devons noter que la veine forme un plan orienté est-ouest qui plonge vers le sud. Nous remarquons également que les teneurs maximums sont associées aux zones de plus grande épaisseur que celles-ci diminuent rapidement vers l'est. Toutefois, la zone est ouverte vers le nord et le sud et les teneurs, bien que moins élevées, semblent indiquer que la zone se poursuit dans ces directions.

- Lithogéochimie

Le résultat des analyses lithogéochimiques provenant de ce secteur confirme le caractère andésitique (50-55% SiO_2) des différentes formations rocheuses. Les oxydes majeurs (Na_2O - MgO - K_2O - CaO) sont conformes à la moyenne générale des roches de l'Abitibi. Les roches situées directement au-dessus de la veine de quartz aurifère montrent un léger enrichissement en cuivre (200^+ ppm) et nous devons noter une nette corrélation entre le Pb et l'or pour les roches de ce secteur. Les andésites situées à proximité de la veine de quartz montrent un léger enrichissement en or.

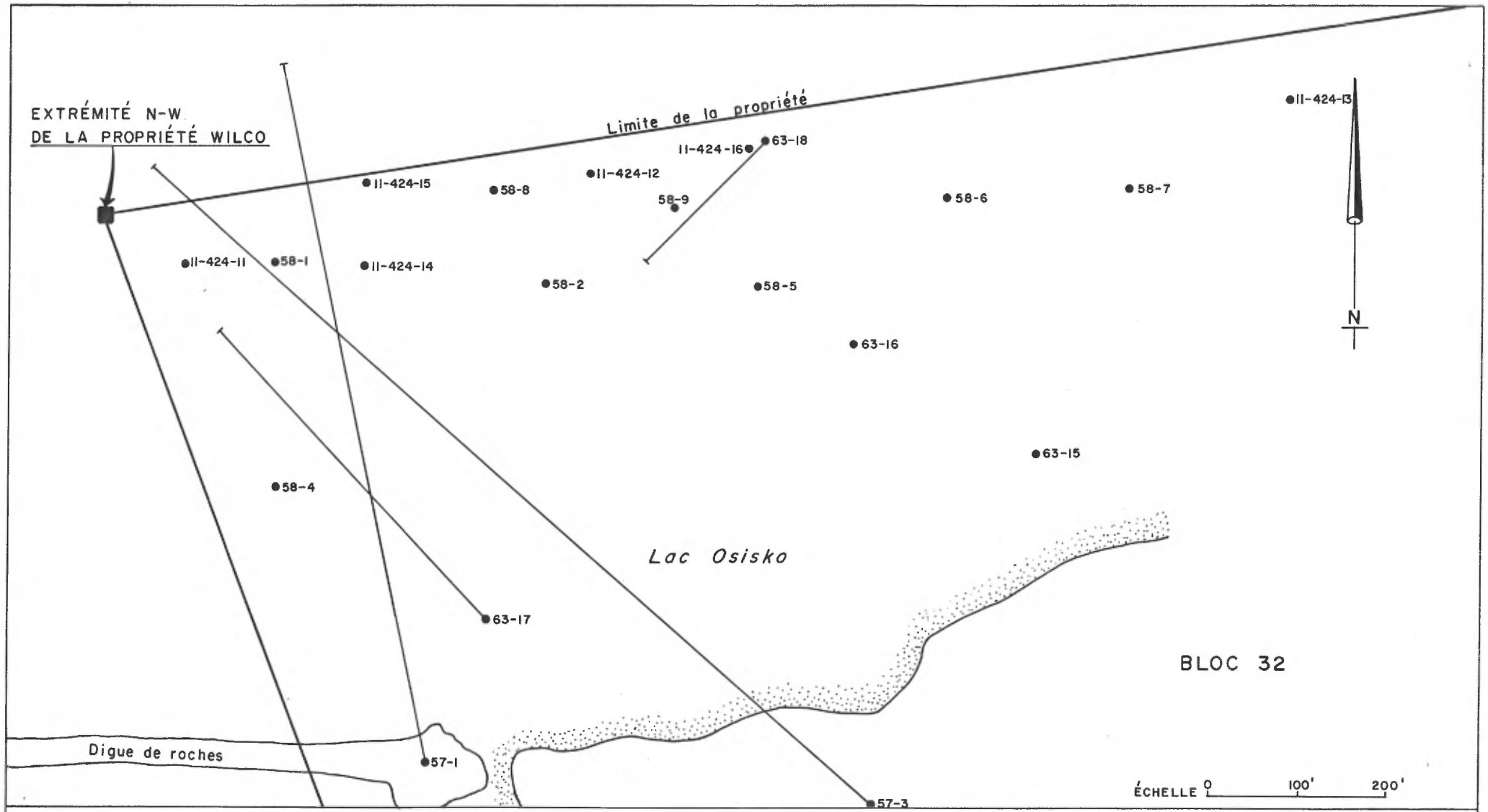

FIGURE 3 – LOCALISATION ET NUMÉROS DES SONDAGES.

Projet 11-424
Plan N° 135

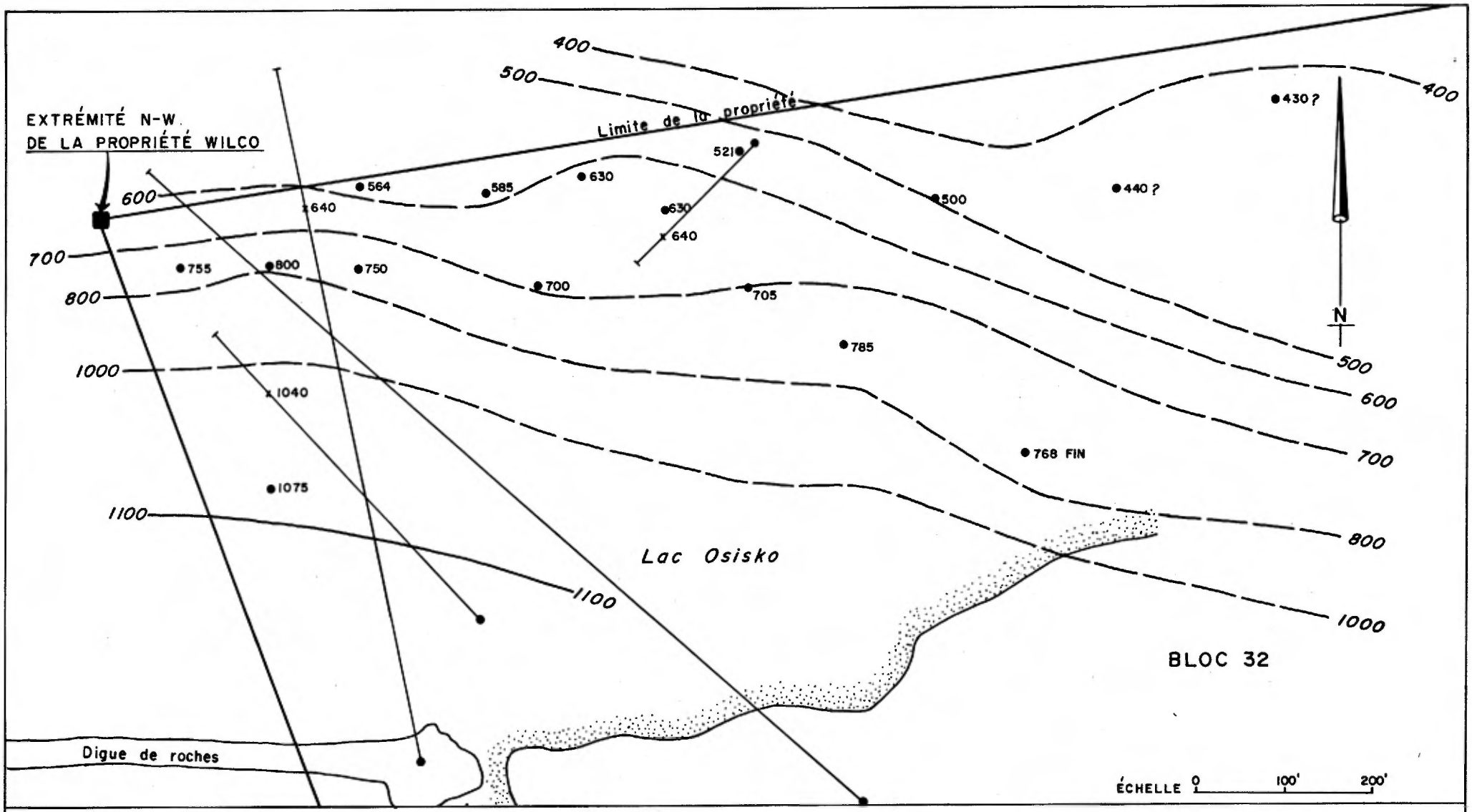

FIGURE 4 – COURBES D'ISO-PROFONDEUR DE LA VEINE DE QUARTZ.

Projet II-424
Plan N° 136

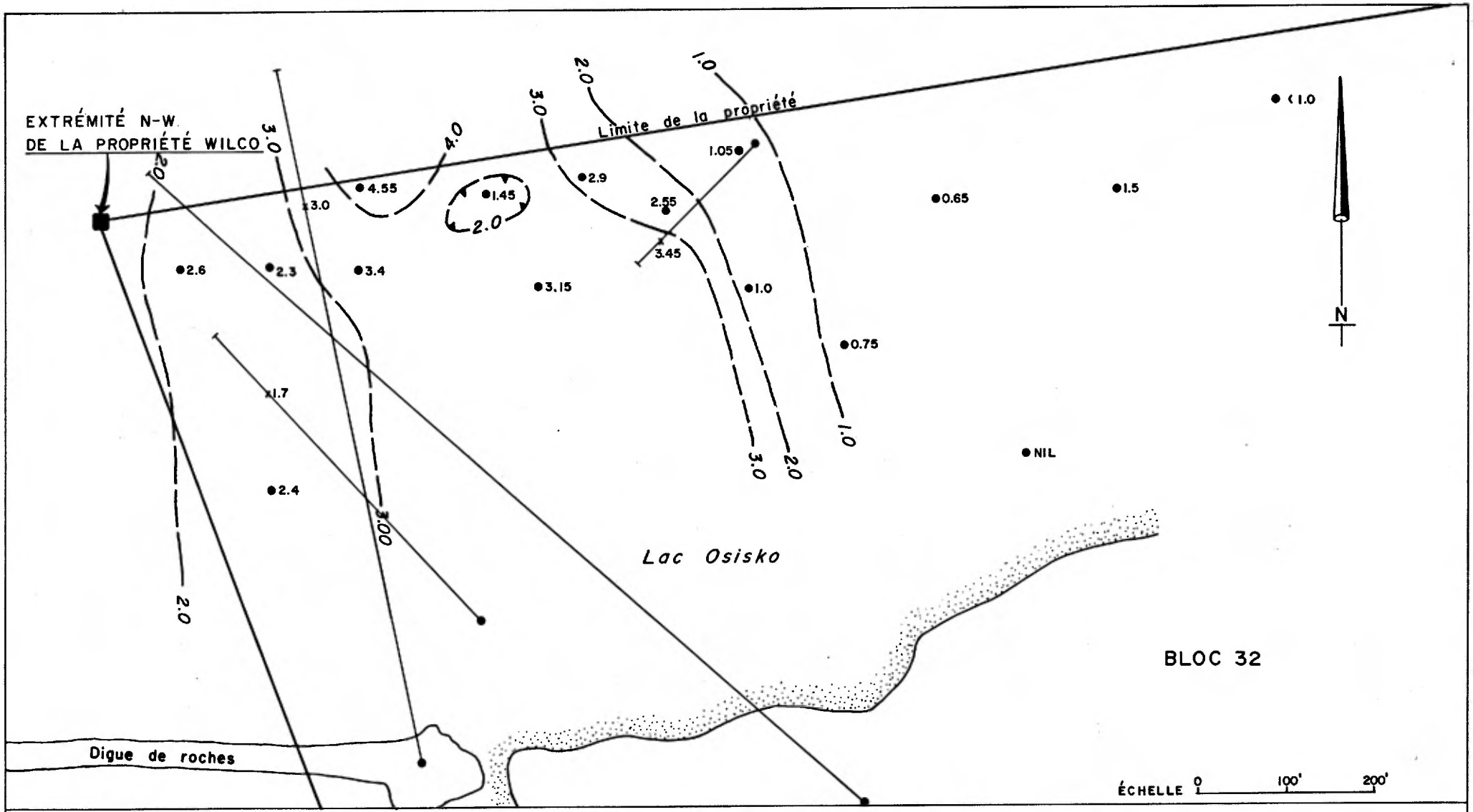

FIGURE 5 — ÉPAISSEUR DE LA ZONE AURIFÈRE (pied).

Projet 11-424
Plan N° 137

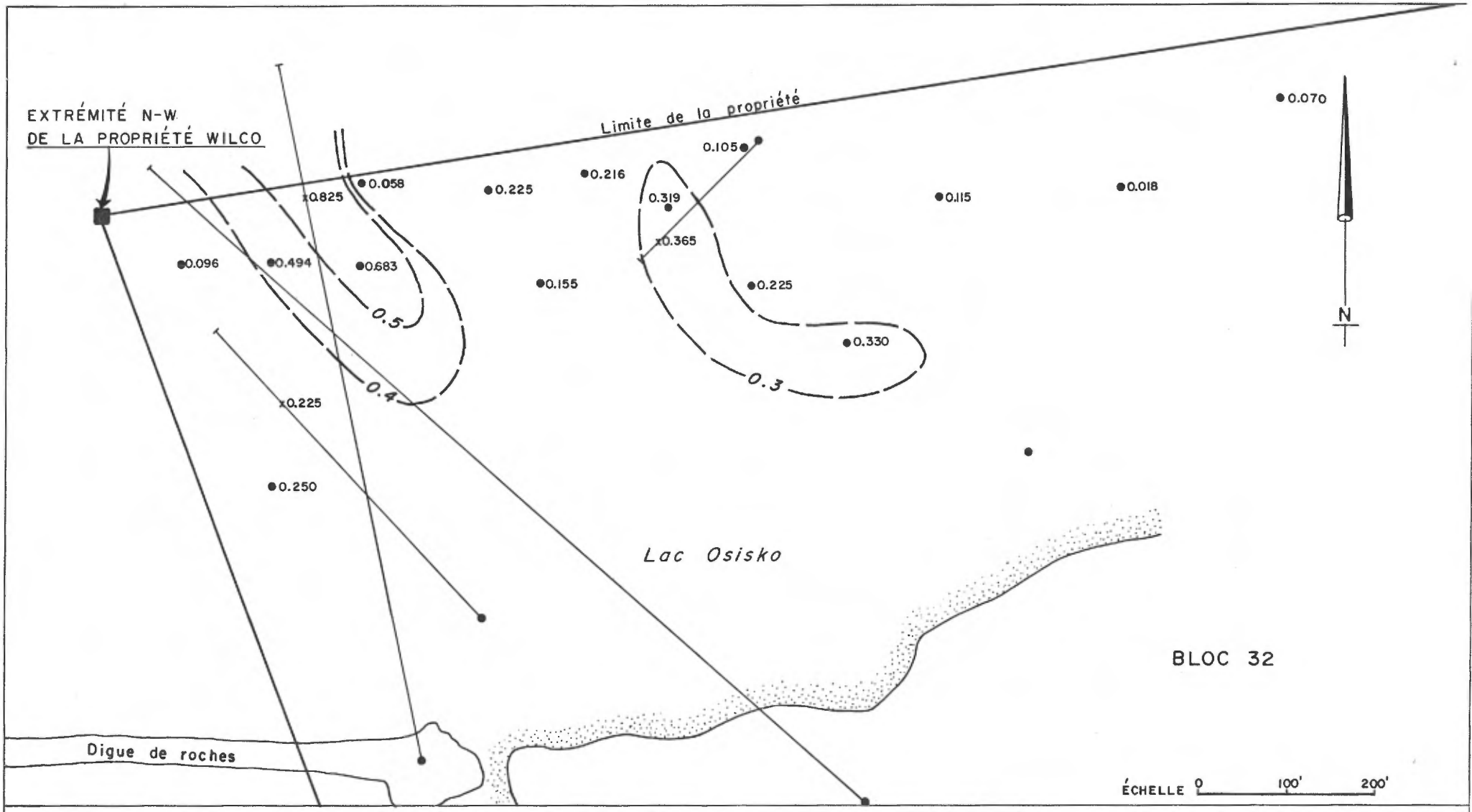

FIGURE 6 —TENEUR PONDÉRÉE DE LA ZONE AURIFÈRE (oz/T).

Projet 11-424
Plan N° 138

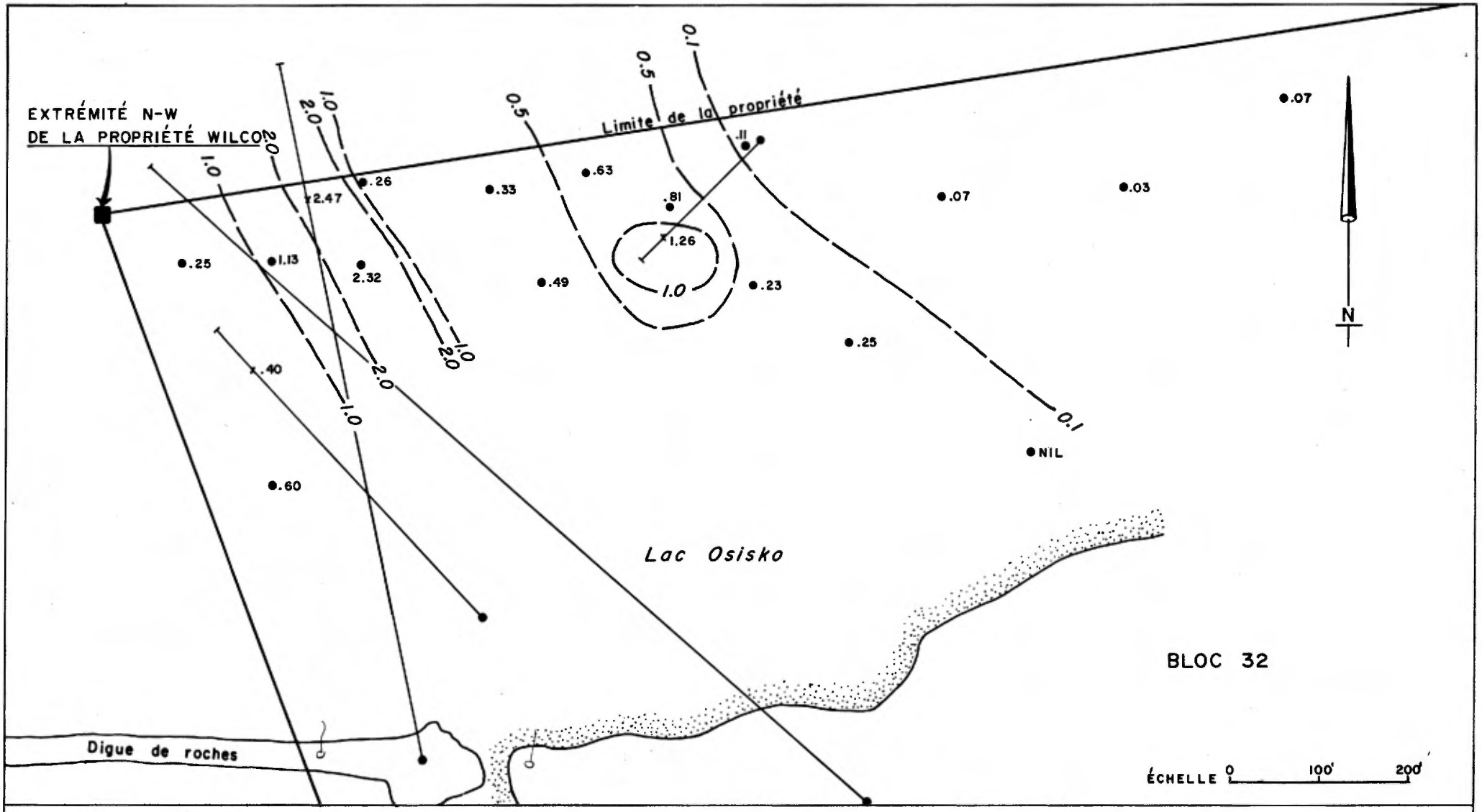

FIGURE 7 — VALEUR D'OR (oz-pied).

Projet II-424
Plan N° 139

VIII- CONCLUSION ET RECOMMANDATIONS

Les résultats obtenus, lors de cette campagne de sondages, nous ont permis de vérifier nos objectifs de départ et de mettre en valeur un secteur aurifère intéressant.

Les sondages 11-424-11, -12, -14, -15 ont recoupé une veine de quartz dont l'épaisseur vraie varie entre ,79 et 1,38 mètres, dont les teneurs varient entre 2.4 et 23.41 g/t. Les sondages 11-424-13, -16 ne recoupent pas la veine de quartz aurifère mais de faibles valeurs en or obtenues dans de petites zones de cisaillement nous laissent croire que ces sondages ont intercepté les extrémités N-E et E de la zone.

L'intégration des données recueillies lors de cette campagne, par rapport à celles obtenues lors des travaux antérieurs, nous ont permis d'améliorer l'image de ce secteur de la propriété Wilco et nous permet d'envisager la poursuite des travaux d'exploration.

Nous recommandons d'étudier à l'aide de sondages:

1° L'extension vers l'ouest de la veine de quartz (propriété Horne).

2° L'extension en profondeur de la zone aurifère. Cette partie des travaux pourrait être effectuée au cours des mois d'été en installant les sondeuses sur les jetées de pierres qui passent au sud de la zone aurifère. Nous recommandons pour cette partie des travaux trois sondages de 1 500 pieds qui nous permettraient de recouper la partie sud de la zone à un niveau de 1 300 pieds.

Serge Bureau

SB/ld
Le 27 mai 1980

A N N E X E 1

JOURNAUX DE SONDAGES

SOQUEM

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Feuille N° 1 de 10

De 0 à 36.58

Profondeur totale : 265.79

Journal : S. Bugeaud

Date : 14/2/1980.

Projet : 11-424 | Claim : Bloc 32 | Canton : Rouyn | Rang : 8 | Lot : | N.T.S. : 32D7

Section : L.0+48.77E | Lat. : St 1+67.64N | Élévation Orifice : 271.32 | Azimut : 360°

Ord. : | Ord. : | Long. : | U.T.M. : 5646280N ; 6495005E

Profondeur : 0 | 30.48 | 91.44 | 152.4 | 213.36 | 265.79

Plongée : 90 | 90 | 89 | 88 | 88 | 88

Azimut : 360 | - | - | - | - | -

Commencé le : 4/2/1980

Terminé le : 13/2/1980

Contracteur : Hos King

Forage	De	à	GÉOLOGIE (Échelle : 1" = 20')	ÉCHANTILLON N°	de	à	Long.	g/Tm. Au	Ag	ANALYSES Cu (PPM)	Pb (PPM)	Zn (PPM)
	0	21.34	Mort Terrain									
	21.34	37.19	Andésite coussinée									
			Roche grise, aphanitique, équigranulaire caractérisée par de nombreuses vésicules ellipsoïdales (0.64-2.56 c.m.) (Bordures de Pillow.)									
			La section est fortement minéralisée par pyrite : - En vésicules 0.32-0.64 cm - Disséminée dans la roche (2%)	9716016	25.9	27.4	1.5	0.17	1.37	192	24	47
				9716017	29.6	31.1	1.5	0.17	1.37	306	14	40
	37.19	38.71	Dyke felsique									
			Roche blanchâtre, siliceuse très dure, aphanitique et homogène 1-2% de pyrite disséminée	9716018	37.2	38.7	1.5	0.17	5.14	190	20	64
	38.71	55.05	Andésite massive									
			Roche verdâtre, granulométrie fine Texture grenue (1mm)									

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Projet : 11-424	& :	Ord. :	Profondeur :	Feuille N° 2 de 10	
Claim :	Section :	Ord. :	Plongée :	De 36.58 à 67.30	
Canton :	Lat. :	Long. :	Azimut :	Profondeur totale : 265.79	
Rang :	Élévation Orifice :		Commencé le :		
Lot :	Azimut :		Terminé le :	Journal : S. Bureau	
N.T.S. :	U.T.M. :		Contracteur :	Date : 14/2/1980	

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'
			Pyrite en veinule moins abondante que la section précédente.	Vb / Dyke; Faible 1-2% Py diss.
			Py diss ≤1% sur toute la section. Elle forme des agrégat cubique	Vb
			Contact inférieur 25° /C.A.	Vb; Py diss ≤1%
	55.05	63.70	Andésite amygdulaire	Vb
			Roche noire très foncée, aphanitique, équigranulaire	Vb
			Caractérisée --> 3-4% d'amygdule (.5->1cm) de quartz et Pyrite	Vb; 3-4% amygd. quartz + Py.
			-> Petit dessin d'épidote ici et là.	Vb
	63.70	67.30	Andésite massive	Vb
			idem 38.71 - 55.05	67.30

ÉCHANTILLON N°	de	à	Long.	Au (g/Tm)	Ag (g/Tm)		Cu (ppm)	Pb (ppm)	Zn (ppm)		
9316019	12.1	13.6	1.5	Tr	N.D.		96	12	41		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Projet : 11-424	& :	Ord. :	Profondeur :		Feuille N° 3 de 10
Claim :	Section :	Ord. :	Plongée :		De 67.30 à 90.13
Canton :	Lat. :	Long. :	Azimut :		Profondeur totale : 265.79
Rang :	Élévation Orifice :		Commencé le :		Journal : S. Bureau
Lot :	Azimut :		Terminé le :		Date : 14/2/1980.
N.T.S. :	U.T.M. :		Contracteur :		

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'
	67.30	70.77	Tuf Basique	Vq, B, Vq?
			Roche verdâtre, de granulométrie fine équigranulaire.	Vb
			Caractérisée : par des lignes + ourlées ou par un litage très fin	Vb
			Roche fracturée.	Vb
			Litage : 35°/c.A.	Vb
			Contact fissures 25°/c.A.	Vb
	70.77	90.13	Andésite massive	90.13 Vb
			Roche grise verdâtre hétérogène inéquigranulaire (aphanitique → fine (1mm))	
			Section caractérisée par andésite massive aphanitique qui devient parfois grenue sur quelques pieds. Cette roche qui représente sans doute le centre et les bordures de coulée	

ÉCHANTILLON N°	de	à	Long.	ANALYSES

SOQUEM — JOURNAL des SONDAGES —

N° 11-424-11

Projet : 11-424
Claim :
Canton :
Rang :
Lot :
N.T.S. :

Section :
Lat. :
Élévation Orifice :
Azimut :
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :
Commencé le :
Terminé le :
Contracteur :

Feuille N° 4 de 10
De 90.19 à 125.88
Profondeur totale : 265.79

Journal : S. Bureau
Date : 14/2/1980.

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
			Minéralisation :	Vb					
			- Pyrite en agrégats cubiques sur	Vb	97615	70.7	89.0	18.3	(Éléments Majeurs + Mineurs).
			toute la section (2%)	Vb					
			- Veinules de 0.32cm ça et là.	Vb Vb 2% Py diss					
				Vb					
	90.19	94.18	Andésite massive	Vb					
				Δ Vb					
			Roche grise, équigranulaire, de granulométrie	Vb					
			très fine (1mm) et homogène.						
				Vb					
			Caractérisé : absence totale de pyrite en	Vb					
			cube						
				Vb Py ≤ 1%					
	94.18	97.75	Andésite massive						
				Vb					
			idem 70.71-89.92	Vb					
			Caractérisée par 2% de pyrite en	Vb					
			agrégat cubique et veinules						
				Vb					
				Vb					
				Vb					
				125.88					

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-11

Projet : 11-424	Ƚ :	Ord. :	Profondeur :		
Claim :	Section :	Ord. :	Plongée :		
Canton :	Lat. :	Long. :	Azimut :		
Rang :	Élévation Orifice :		Commencé le :		
Lot :	Azimut :		Terminé le :		
N.T.S. :	U.T.M. :		Contracteur :		

Feuille Nº 5 de 10

De 125.88 à 145.08

Profondeur totale : 265.79

Journal : S. Buseau

Date : 14/2/1980.

Forage	De	à	GÉOLOGIE	Échelle: 1" = 20'	ÉCHANTILLON Nº	de	à	Long.	ANALYSES							
	97.75	100.77	Andésite Bréchique	20												
			Roche verte foncé, composée d'une matrice chloriteuse (70%) et de fragments (30%) bigarés pâles de .5-1cm et arrondis	20												
			La matrice est composée par endroit de matériel hyaloclastique.	20 / 20 / 20 — Tr Py diss. +Hc.												
	100.77	126.10	Andésite massive	20 — 145.78												
			Grise verdâtre, équigranulaire, de granulométrie fine (<1mm) homogène et peu fracturé.													
			Py <1% diss.													
			quelque veinules pyriteuse													
	126.10	142.34	Diorite													
			Roche verdâtre de granulométrie moyenne (1-3MM), grains de FP épidotisé visible dans une matrice chloriteuse et par endroit hématitisée.													
			Tr Py diss.													

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Projet : 11-424	Feuille N° 6 de 10
Claim :	De 142.34 à 162.41
Canton :	Profondeur totale : 265.79
Rang :	Journal : S. Buseau
Lot :	Date : 14/2/1980.
N.T.S. :	
Section :	
Lat. :	
Élévation Orifice :	
Azimut :	
U.T.M. :	
Ord. :	
Ord. :	
Long. :	
Profondeur :	
Plongée :	
Azimut :	
Commencé le :	
Terminé le :	
Contracteur :	

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'
	142.34	161.70	Andésite Grenue	VG
			Roche verte pâte équigranulaire, homogène de granulométrie fine (<1MM) - Grains bien visible	VG; TrPY
			Section débute par une faille (142.34-143.87) où la roche est broyé et complètement fracturée. Tr de pyrite	VG; ≠; Tr CPY.
			153.95-155.08 zone de cisaillement schisteuse 30° p/C.A.	VG
			La Roche est introduite par de petites veinules de quartz. Tr de CPY.	162.41
	161.70	162.41	Andésite Bréchique	
			Roche composée de petit fragments de .5-1cm blanchâtre/brignant dans une matrice (10%) d'andésite grise verdâtre aphanitique	

ÉCHANTILLON N°	de	à	Long.	g/Tm. Au	Ag		ANALYSES Cu (ppm)	Pb (ppm)	Zn (ppm)		
976123	142.3	143.8	1.5	Tr	1.37		48	24	96		
976124	154.0	155.1	1.1	Tr	0.69		210	14	43		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Feuille N° 7 de 10

De 162.41 à 189.83

Profondeur totale : 265.79

Journal : S. Bureau

Date : 14/2/1980

Projet : 11-424 | L : | Ord. :

Claim : | Section : | Ord. :

Canton : | Lat. : | Long. :

Rang : | Élévation Orifice :

Lot : | Azimut :

N.T.S. : | U.T.M. :

Profondeur : | Plongée : | Azimut :

Commencé le :

Terminé le :

Contracteur :

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	g/T.m. Au	Ag		ANALYSES Cu (PPM)	Pb (PPM)	Zn (PPM)
	162.41	182.12	Andésite Coarse										
			Idem 182.34 - 161.70										
			Caractéristique										
			163.37-163.98 zone de fracturation intensive et Tr à épurite.	9716215	163.4	164.0	0.6	Tr.	0.68		96	13	48
			168.10-168.55 zone schisteuse + de quartz filonien	9716216	168.1	168.6	0.5	Tr.	0.69		83	17	40
			171.19-178.92 zone de fracturation intensive et chloriteuse. Cette zone se termine par une zone de faille (177.09-178.92) avec forte à 15% de la roche	9716218	151.5	182.0	30.5	(éléments majeurs + mineurs)					
	182.12	189.83	Andésite Massive										
			Grise, homogène, aphanitique à légèrement foliée.										
			Roche très homogène, non fracturé et non altérée.										
			Non minéralisé										
			Contact Unité de Quartz-Carbonate										

189.83

SOQUEM

JOURNAL des SONDAGES

N° 11-424-11

Projet : 11-424
Claim :
Canton :
Rang :
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Section :
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Élévation Orifice :
Azimut :
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :
Commencé le :
Terminé le :
Contracteur :

Feuille N° 8 de 10
De 189.83 à 225.55
Profondeur totale : 265.79

Journal : S. Bureau
Date : 14/2/1980.

Forage	De	à	GÉOLOGIE	Échelle: 1" = 20'		ÉCHANTILLON N°	de	à	Long.	ANALYSES g/T.m. Au	Ag		Cu (ppm)	Pb (ppm)	Zn (ppm)		
	189.83	202.08	Andésite grenue	V6G													
			idem 142.34 - 161.54	V6G													
			Roche fracturée et altérée, non minéralisée	V6G													
			Fin de la section (170.38-171.60) <1% Py diss.	V6G	<1% Py diss	97627	170.4	171.6	1.2	0.51	1.03		47	11	36		
	202.08	225.55	Andésite massive	V6													
			Roche verdâtre équigranulaire, homogène aphanitique	V6													
			granuleuse à 1mm sur les 30 derniers pieds	V6													
			216.10 - 216.26 Zone épidote + QTZ + 5% de Py	V6		97637	215.8	216.4	0.6	Tr.	1.37		20	20	50		
				V6	→ EPI + QTZ + 5% Py												
				V6													
				V6													
				V6													
				225.55 V6													

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Feuille N° 9 de 10

De 225.55 à 242.13

Profondeur totale : 245.70

Journal : S. Bureau

Date : 14/2/1980.

Projet : 11-424 — Claim : — Canton : — Rang : — Lot : — N.T.S. :

Ł : — Section : — Lat. : — Élévation Orifice : — Azimut : — U.T.M. :

Ord. : — Ord. : — Long. :

Profondeur : — Plongée : — Azimut : — Commencé le : — Terminé le : — Contracteur :

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE
	225.55	229.51	Andésite Bréchique Roche verdâtre, très hétérogène composée d'une matrice siliceuse andésitique épidotisée et chloriteuse et de fragments d'andésite 1-3cm anguleux.
	229.51	231.10	V. de quartz. 229.51-230.40 V. de quartz +1-2 % Pyrite 230.40-231.10 V. de quartz + chlorite en filonnet + Py 3-4% Contact irrégulier 15° p/c.A.
	231.10	233.48	Andésite Roche chloritisée et intrudée par plusieurs veinules de quartz et carbonates schistosité 30° p/c.A.

ÉCHANTILLON					g/t.m.			ANALYSES				
N°	de	à	Long.	Au	Ag		Cu (ppm)	Pb (ppm)	Zn (ppm)		
97161 38	225.6	227.1	1.5	Tr	2.06		55	16	90		
97161 39	227.1	228.7	1.5	0.17	1.03		77	20	92		
97161 40	228.7	229.5	0.85	0.34	1.71		43	24	76		
97161 41	229.5	230.4	0.9	1.54	0.34		28	6	3		
97161 42	230.4	231.1	0.7	5.40	7.54		74	15	17		
97161 43	231.1	232.3	1.2	0.34	1.03		34	19	52		
97161 44	232.3	233.7	1.4	0.17	1.03		86	19	56		
97161 45	233.7	235.2	1.5	Tr	0.69		16	16	60		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-11

Feuille N° 10 de 10

De 242.13 à 265.79

Profondeur totale : 265.79

Journal : S. Bureau

Date : 14/2/1980

Projet : 11-424 | Ø : | Ord. : | Profondeur :

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

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

Rang : | Élévation Orifice : | Commencé le :

Lot : | Azimut : | Terminé le :

N.T.S. : | U.T.M. : | Contracteur :

Forage	De	à	GÉOLOGIE	Échelle: 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	233.69	265.79	Andésite massive	V_f / V_c / FIN					
			Roche grise verdâtre, grenue, très homogène granulométrie 1 à 4 mm, équigranulaire						
			Caractérisé par une carbonatation et des microveinules						
			Minéralisation : Très faible, Tr à 1% de roche affectée fracturée						
			Fin du Trou						

SOQUEM — JOURNAL des SONDAGES

N° 11-424-12

Feuille N° 1 de 5

De 0 à 58.58

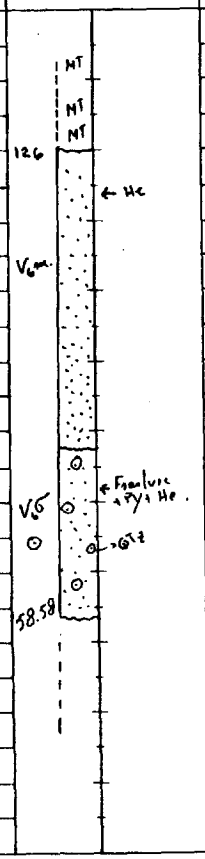
Profondeur totale : 192.33

Journal : S. Bureau

Date : 22/2/1980

Projet : 11-424	Ł :	Ord. :	Profondeur : 0	60.96	121.92		
Claim : Bloc 32	Section : L 182-88 E	Ord. :	Plongée : 90°	90°	90°		
Canton : Rouyn	Lat. : St. 201.17 N	Long. :	Azimut :				
Rang : 8	Élévation Orifice : 274.32		Commencé le : 15/2/80				
Lot :	Azimut : 360°		Terminé le : 22/2/1980				
N.T.S. : 32D7	U.T.M. : 5346380E 6497500N		Contracteur : Hos King				

Échelle : 1" = 20'



Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	Au (oz/t)	Ag		Cu (ppm)	Pb (ppm)	Zn (ppm)		
	10'	38.41	Mort Terrain 10' d'eau + argile et quelques Bolders.												
	38.41	50.66	Andésite massive Roche grise verdâtre, aphanitique equigranulaire et bien homogène. Peu altérée et peu fracturé 39.93 - 40.54 40% d hématite dans une zone de fracture												
	50.66	58.58	Andésite silicifié, amygdaloïde Roche grise pale, aphanitique, silicifié et montrant 1-2% d'amygdale de quartz de 1 cm. Section caractérisée par de nombreuses veinules épidotisées et de géodes hématitisées. 2 aléatoire 51.97 → 53.04 Nombreuses géodes et fractures avec pyrite + hématite.	9716171	51.9	53.00	1.1	0.34	0.34		145	13	50		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-12

Projet : 11-424	ℓ :	Ord. :	Profondeur :
Claim :	Section :	Ord. :	Plongée :
Canton :	Lat. :	Long. :	Azimut :
Rang :	Élévation Orifice :		Commencé le :
Lot :	Azimut :		Terminé le :
N.T.S. :	U.T.M. :		Contracteur :

Feuille N° 2 de 5

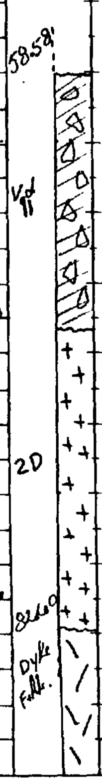
De 58.58 à 82.60

Profondeur totale : 192.33

Journal : S. Buseau

Date : 22/XII/1980

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	58.58	69.49	tuF rhyolitique à lappillis et à Blocs.						
			Roche verdâtre composée essentiellement de fragments quartzofeldspatiques et d'une matrice très siliceuse montrant 10% de phénocristaux de quartz. (1-2MM).						
			Les fragments (80% de la roche) sont arrondis de granulométrie étalée (1-4cm) et légèrement altéré. (rosé-hematite?)						
			Matrice : composé de petits fragments arrondis (1mm)						
			Non Minéralisé						
	69.49	82.60	*Diorite*						
			Roche verdâtre homogène granulométrie moyenne (1-2MM) composée de 60% de feldspaths en petits bâtonnets dans une matrice plus foncé et plus fine.						
			Texture ophitique bien conservée.						



SOQUEM — JOURNAL des SONDAGES

N° 11-424-12

Feuille N° 3 de 5

De 82.60 à 119.18

Profondeur totale : 192.33

Journal : S. Bureau

Date : 22/2/1980.

Projet : 11-424 — Ø : — Ord. : — Profondeur : —

Claim : — Section : — Ord. : — Plongée : —

Canton : — Lat. : — Long. : — Azimut : —

Rang : — Élévation Orifice : — Commencé le : —

Lot : — Azimut : — Terminé le : —

N.T.S. : — U.T.M. : — Contracteur : —

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE	ÉCHANTILLON Nº	de	à	Long.	ANALYSES
	82.60	93.67	Dyke Feldspatique					
			Roche rose saumon, composée de feldspathe et quartz bien cristallisés					
			Roche fracturée, schisteuse et montre des enclaves de diorite à son contact supérieur.					
	93.67	104.15	Andésite massive					
			Roche verdâtre inequigranulaire très homogène et de granulométrie fine (<1mm)					
			T. à Py disséminé et quelques veines épidotisées.					
	104.15	106.89	Andésite Bréchique					
			Andésite fracturée et montrant des fragments arrondis d'andésite (30%)					
			Roche fracturée chloriteuse et montrant des lignes de coulée à 30° p/r C.A.					

SOQUEM — JOURNAL des SONDAGES — **N° 11-424-12**

Projet : 11-424
Claim :
Canton :
Rang :
Lot :
N.T.S. :

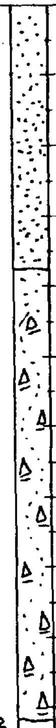
E :
Section :
Lat. :
Élévation Orifice :
Azimut :
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :
Commencé le :
Terminé le :
Contracteur :

Feuille N° 4 de 5
De 119.18 à 156.06
Profondeur totale : 192.33
Journal : S. Bureau
Date : 22/2/1980

Échelle : 1" = 20'



Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	104.89	136.74	Andésite massive. (391)					
			idem : 93.67 -> 104.15					
			Trace Py diss. + rimes épidotisées (← py + ép)	976719	106.7	136.6	29.9	(Elements Majeurs + Mineurs)
	134.76	156.06	Andésite Bréchique					
			Roche composée de deux fractions granulométriques bien distinctes.					
			1) Fragments (70%) de la roche, 1-3 cm angulaux, blanchâtre et vert foncé Andésite altérée.					
			2) Matrice : chloriteuse et épidotisé. mésostase équigranulaire, aphanitique.	976810	136.6	156.1	19.5	(Au + Ag)
			Py diss. (<1%) ds la matrice (512)					

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-12

Projet : 11-424. | Ord. : | Profondeur :
Claim : | Section : | Ord. : | Plongée :
Canton : | Lat. : | Long. : | Azimut :
Rang : | Élévation Orifice : | Commencé le :
Lot : | Azimut : | Terminé le :
N.T.S. : | U.T.M. : | Contracteur :

Feuille Nº 5 de 5
De 156.06 à 192.33
Profondeur totale : 192.33
Journal : S. Bureau
Date : 22/2/1980

Forage	De	à	GÉOLOGIE
	156.06	180.93	Andésite massive
			Roche verte claire, aphanitique équigranulaire et homogène. Peu minéralisée.
			La fin de la section est plus schisteuse et minéralisée en pyrite. (3-5%)
			Z 25° Pl. C.A.
	180.93	182.58	V. de Quartz
			Quartz laiteux avec 1-2% de pyrite disséminée
			181.66 – 181.90 0.24 de V6 qui sépare la veine en deux.
	182.58	192.33	Andésite massive
			Idem 156.06 – 180.93
			187.91 – 188.52 QTZ + 10% pyrite cubique
			Fin du Trou.

Échelle : 1" = 20'

ÉCHANTILLON Nº	de	à	Long.	Au	Ag		Cu (ppm)	Pb (ppm)	Zn (ppm)		
97681	177.7	179.4	1.7	0.34	0.34		96	20	68		
97682	179.4	180.9	1.6	0.17	0.34		42	18	54		
97683	180.9	181.8	0.9	3.00	1.71		18	27	16		
97684	181.8	182.6	0.8	11.49	9.60		36	38	48		
97685	182.6	184.1	1.5	0.86	0.69		64	20	70		
97686	187.9	188.5	0.6	0.51	0.34						
			2.0								

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-13

Projet : 11-424	E : 417.38 E / L426.72E	Ord. :	Profondeur :	0 | 60.96 | 121.92 | 182.88	Feuille Nº 1 de 4
Claim : Bloc.38	Section :	Ord. :	Plongée :	90° | 89° | 88° | 86°	De 0 à 73.15
Canton : Rouyn	Lat. : S.228.6 N	Long. :	Azimut :		Profondeur totale : 183.18
Rang : 8	Élévation Orifice : 274.32		Commencé le :	6/2/1980	
Lot :	Azimut : 360°		Terminé le :	10/2/1980	Journal : S. Buseau
N.T.S. : 32 D7	U.T.M. : 5346380 N , 649,880 E		Contracteur :	Kos King	Date : 10/2/1980

Échelle : 1" = 40'

De	à	GÉOLOGIE	Échelle	ÉCHANTILLON Nº	de	à	Long.	ANALYSES
101	40.23	Cassing	0					
		2.7 Eau, le reste argile plus quelques Bolders	MT					
40.23	52.43	Andésite bréchique	MT					
		Roche verdâtre pale avec taches nébuleuses blanchâtres. Section très hétérogène La Matrice (vert-pale) (70%) fragment : granulométrie 1-3cm (30%) contact flou avec la matrice	MT					
		Roche Non minéralisé	V6					
52.43	121.31	Andésite Mixte						
		Mélange d'andésite massive, équigranulaire, homogène et aphanitique avec des zones de brèches tel que 40.23-52.43	← 5+Tr.Py; V6; V6					
		Nous pouvons observer à quelques endroits une brèche constituée de fragments foncés chloriteux (1cm) (20% de la roche)	73.15					

SOQUEM — JOURNAL des SONDAGES

N° 11-424-13

Projet : 11-424 | ℄ : | Ord. : | Profondeur :
Claim : | Section : | Ord. : | Plongée :
Canton : | Lat. : | Long. : | Azimut :
Rang : | Élévation Orifice : | Commencé le :
Lot : | Azimut : | Terminé le :
N.T.S. : | U.T.M. : | Contracteur :

Feuille N° 2 de 4
De 73.15 à 146.30
Profondeur totale : 183.18

Journal : S. Bureau
Date : 10/2/80

Forage	De	à	GÉOLOGIE	Échelle : 1" = 40'
			et d'une matrice andésitique équigranulaire aphanitique	140
			La roche est coupée par des veinules d'épidote et quelques zones siliceuses	← S+Tr. Py
			58.22 - 58.77 Zone siliceuse + Tr Py	
			84.72 - 87.26 " " " " " "	
			110.64 - 111.86 Zone de fracturation et de broyage intense	
	121.31	136.25	Andésite Massive	← Fracture
			Roche grisâtre, équigranulaire, aphanitique hétérogène, très fracturée et recoupée par de nombreuses veinules de quartz et carbonate + quelques traces de pyrite	← Fracturation ← Fracturation V6 ← V6+V.QTZ
			123.75 - 125.27 Fracturation	
			125.27 - 126.49 Perte de carotte	
			126.49 - 128.02 Fracturation	
			130.76 - 132.28 Andésite fracturée + Veine de quartz de 20.5 cm (Peut-être la zone?)	V1 Veine 480

ÉCHANTILLON N°	de	à	Long.	Au (oz/T)	Ag (oz/T)		Cu (PPM)	Pb (PPM)	Zn (PPM)		
97616	58.2	58.8	0.6	Tr	N.D.		38	13	46		
97617	86.7	87.3	0.6	Tr	0.34						
97618	60.96	91.44	30.5	(Majeurs + Mineurs voir Section)							
97629	110.6	111.9	1.3 / 40	Tr	1.37		36	16	54		
97630	123.8	125.3	1.5	Tr	N.D.		36	13	44		
97631	126.5	128.0	1.5	0.17	0.34		44	13	48		
97632	130.8	132.3	1.5	2.40	1.37		23	14	40		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-13

Projet : 11-424 | Claim : | Canton : | Rang : | Lot : | N.T.S. :

Section : | Lat. : | Élévation Orifice : | Azimut : | U.T.M. :

Ord. : | Ord. : | Long. :

Profondeur : | Plongée : | Azimut : | Commencé le : | Terminé le : | Contracteur :

Feuille N° 3 de 4

De 140.30 à 183.18

Profondeur totale : 183.18

Journal : S. Bureau

Date : 10/12/80

Forage	De	à	GÉOLOGIE	Échelle : 1" =	ÉCHANTILLON N°	de	à	Long.	oz/T Au	Ag		ANALYSES Cu (ppm)	Pb (ppm)	Zn (ppm)		
	136.25	139.00	Andésite verdâtre													
			idem 52.43 – 121.31	V6 → Frac. Grise → Frac.												
	139.00	148.13	Andésite grisatre	V6Δ Dyke Felsique												
			idem 121.31 – 136.25													
			Caractéristique : 140.67 - 141.12 Zone de fractures + v. de quartz (7.62 cm)	V6	971633	140.6	141.1	0.5	0.34	0.57						
			143.26 - 143.87 Andésite plus 5.08 cm quartz de fracturation		971634	143.3	143.9	0.6	0.86	0.34						
				601 Fin												
	148.13	154.38	Andésite Bréchique													
			Roche très hétérogène composée d'une matrice vert épidote (70%) et 30% de fragments blanchâtres nébuleux de 1 cm													
			Roche très similaire : 40.23 - 52.43		971635	150.3	151.8	1.5	Tr	2.74		57	16	40		
			150.27 - 151.79 Dyke Felsique plus tr. de Py disséminé.													

SOQUEM — JOURNAL des SONDAGES

N° 11-424-13

Feuille N° 4 de 4

De _____ à _____

Profondeur totale : 183.18.

Journal : S. Bureau

Date : 10/2/80

Projet : 11-424 | L : | Ord. : | Profondeur :

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

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

Rang : | Élévation Orifice : | Commencé le :

Lot : | Azimut : | Terminé le :

N.T.S. : | U.T.M. : | Contracteur :

Échelle : 1" = 40'

Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	154.38	183.18	Andésite Massive					
			Roche verdâtre aphanitique, équigranulaire très homogène. La Section est coupée par quelques veinules de quartz et d'épidote	9763.6	154.2	183.2	29.0	(Majeurs + Mineurs Voir Section de Sondage)
			Minéralisation: Py disséminé en trace					
			Remarque: Tout ce sondage montre très peu de pyrite comparativement aux autres sondages de ce projet.					
			Fin du sondage					

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-14

Projet : 11-424		: 108.20	Ord. :	Profondeur :	0 / 60.96 / 121.92 / 182.88
Claim : Bloc 32	Section :	121.92 E	Ord. :	Plongée :	90° / 89 / 89 / 89
Canton : Rouyn	Lat. :	57.107.64 N	Long. :	Azimut :	
Rang : 8	Élévation Orifice :	274.32		Commencé le :	11/2/1980
Lot :	Azimut :	360°.		Terminé le :	20/2/1980
N.T.S. : 32 D7	U.T.M. :	5346280N 649600E		Contracteur :	Hosking.

Feuille Nº 1 de ~~8~~ 9

De 0 à 36.58

Profondeur totale : 238.96

Journal : S. Bureau

Date : 20/2/1980

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON Nº	de	à	Long.	oz/T Au	Ag		ANALYSES Cu (ppm)	Pb (ppm)	Zn (ppm)		
	1.01	18.90	Mort Terrain	MT												
			eau + argile et quelques Bolders.	MT												
	18.90	25.60	Diorite	MT												
			Roche grise verdâtre à texture équigranulaire et de granulométrie moyenne (1-2 mm)	MT												
			1% Py diss.	MT												
			Contact inférieur 15° P/C.A.	MT												
	25.60	29.26	Andésite massive	20 — 1% Py diss												
			Roche grise, équigranulaire, aphanitique et très homogène	20												
			Caractérisée par fractures épidotisées et veinules de pyrite	20 — v. Py 1%												
			Contact inférieur 30° P/ C.A.	Vb												
	29.26	44.50	Andésite Bréchique	Vb	97644	44.0	44.7	0.7	Tr	0.69		64	20	76		
				58 Δ												
			Roche verdâtre complètement	36. Vb												

SOQUEM — JOURNAL des SONDAGES

Projet : II-424 | ℄ : | Ord. : | Profondeur :
Claim : | Section : | Ord. : | Plongée :
Canton : | Lat. : | Long. : | Azimut :
Rang : | Élévation Orifice : | Commencé le :
Lot : | Azimut : | Terminé le :
N.T.S. : | U.T.M. : | Contracteur :

N° II-424-14

Feuille N° 2 de 9

De 36.58 à 62.70
Profondeur totale : 238'10

Journal : S. Bureau
Date : 20/2/1980

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	ANALYSES
			Brèchifiée					
			1) Matrice verdâtre épidotisée					
			2) Fragments verts foncés à blanchâtres arrondis à anguleux .5cm → 2.5cm					
			3) épidote forme linéation // et minéralisation tout le long de la carotte.					
			4) Traces + QTZ + Carbonate					
			5) 1% Py cubique diss.					
			6) Par endroit la matrice est composée d'hyalodastite.					
			7) On peut observer ici et là quelques zones non brèchifiées.					
	44.50	44.71	V. Quartz laiteux, non minéralisée					
	44.71	62.70	Andésite Massive (vert).					
			Roche verdâtre équigranulaire, de granulométrie fine à 1mm. La section					

SOQUEM — JOURNAL des SONDAGES

Projet : 11-424
Claim :
Canton :
Rang :
Lot :
N.T.S. :

Section :
Lat. :
Élévation Orifice :
Azimut :
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :
Commencé le :
Terminé le :
Contracteur :

N° 11-424-14

Feuille N° 3 de 49

De 62.70 à 92.90
Profondeur totale : 238.96

Journal : S. Bureau
Date : 20/2/1980

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'
			est recoupée par quelques veinules	
			de quartz et carbonate (1/8").	
	62.70	69.19	Andésite massive. (Gris)	Vb GRIS
			Roche grisâtre, aphanitique, équigranulaire	
			Massif et homogène	
	69.19	91.62	Andésite massive (vert)	Vb VERT
			idem 44.71 → 62.70	
			Dernier 7.62 m de la section caractérisé	
			par une épidotisation intensive et	
			la roche est recoupée par de nombreuses	
			veinules de quartz et pyrite (1-2%).	
	91.62	92.90	Dyke feldspathique	
			Roche blanchâtre, feldspathique, très	
			cisaillée. Granulométrie moyenne 1-2 MM	1% PY Tr. CPY — DYKE — Feldspathique
			1% Py diss. Tr. de CPY le long V. de QTZ.	

ÉCHANTILLON N°	de	à	Long.	Au (g/t)	Ag (g/t)		Cu (ppm)	Pb (ppm)	Zn (ppm)		
97665	86.0	86.9	0.9	Tr	2.04		140	23	56		
97666	87.6	88.4	0.8	0.34	1.37		103	22	56		
97667	91.6	92.9	1.3	0.17	0.69		224	22	56		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-14

Feuille N° 4 de 9

Projet : 11-424 | E : | Ord. : | Profondeur :

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

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

Rang : | Élévation Orifice : | Commencé le :

Lot : | Azimut : | Terminé le :

N.T.S. : | U.T.M. : | Contracteur :

De 92.90 à 111.19

Profondeur totale : 238.96

Journal : S. Bureau

Date : 20/2/80

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	92.90	111.19	Andésite très hétérogène.						
			Cette section fortement fracturée est composée de 3 types de roches qui alternent aléatoirement.						
			1) Andésite massive tel que décrit précédemment						
			2) Andésite Bréchique : Matrice aphanitique avec fragments andésitiques clastiques.						
			3) Andésite sphérulitique. Quelques pouces d'une roche contenant de 30-40% de petites sphérulites blanchâtres (1mm).						
			Peu de Pyrite						
			Contact inférieur 15° P/L C.A.						

SOQUEM — JOURNAL des SONDAGES

N° 11-424-14

Projet : 11-424	R :	Ord. :	Profondeur :		
Claim :	Section :	Ord. :	Plongée :		
Canton :	Lat. :	Long. :	Azimut :		
Rang :	Élévation Orifice :		Commencé le :		
Lot :	Azimut :		Terminé le :		
N.T.S. :	U.T.M. :		Contracteur :		

Feuille N° 5 de 9

De 111.19 à 133.75

Profondeur totale : 238.96

Journal : S. Buseau

Date : 20/12/80

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	111.19	121.01	Andésite massive						
			Roche grise verdâtre, équigranulaire	V6					
			Très homogène de granulométrie fine (1mm)						
			peu fracturée et peu minéralisée.	V6					
				V6					
	121.01	123.20	Andésite Bréchique	V6					
			Section très hétérogène composée	V6Δ					
			de fragments d'andésite anguleux (1-2 cm)						
			ds une matrice andésite chloriteuse.	V6					
			La matrice est aphanitique et équigra-nulaire	V6 V.quartz + Py					
				V6					
	123.20	133.75	Andésite massive	V6					
				V6					
			Grise, aphanitique, équigranulaire						
			et homogène.						
			Caractérisé par quelques veines						
			de quartz + Py Po (diss.).						

SOQUEM — JOURNAL des SONDAGES

N° 11-424-14

Feuille N° 6 de 69

De 133.75 à 169.53

Profondeur totale : 238.96

Journal : S. Bureau

Date : 20/2/80

Projet : 11-A24 | Claim : | Canton : | Rang : | Lot : | N.T.S. :

& : | Section : | Lat. : | Élévation Orifice : | Azimut : | U.T.M. :

Ord. : | Ord. : | Long. : |

Profondeur : | Plongée : | Azimut : | Commencé le : | Terminé le : | Contracteur :

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	Au gr 02/t	Ag		Cu (ppm)	Pb (ppm)	Zn (ppm)		
	133.75	142.74	Andésite coussinée												
			Roche grise verdâtre equigranulaire aphanitique, caractérisée par la présence répétitive de veinules d'épidote représentant probablement des bordures de coussins.												
			On remarque associé à ces veinules de la pyrite < 1% et des géodes.												
			On peut voir par endroit les fractures de refroidissement jumelées												
			Structure 15°/c.a.	917668	138.4	139.9	1.5	0.17	1.37		224	121	139		
			138.38 – 141.43 5-8% de Py disséminé ds la roche	916169	139.9	141.4	1.5	0.69	1.37		352	131	416		
	142.74	169.53	Andésite massive												
			Roche grise verdâtre foncée équigranulaire de granulométrie fine (< 1mm).												
			Caractéristique : Fracture en croix très fréquente												
			Peu de Py < 1%												

SOQUEM — JOURNAL des SONDAGES —

N° 11-424-14

Projet : 11-424.
Claim :
Canton :
Rang :
Lot :
N.T.S. :

Section :
Lat. :
Élévation Orifice :
Azimut :
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :
Commencé le :
Terminé le :
Contracteur :

Feuille N° 7 de 89

De 169.53 à 195.22
Profondeur totale : 238.96

Journal : S. Burcau
Date : 20/2/80

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES g/T Au	Ag		Cu (ppm)	Pb (ppm)	Zn (ppm)		
	169.53	186.08	Diorite													
			Roche verdâtre, équigranulaire, homogène de granulométrie moyenne et à texture ophitique caractéristique													
	186.08	190.99	Andésite (schisteuse).													
					9716770	186.1	187.2	1.1	Tr	0.69		23	20	72		
			Andésite recoupée par une multitude de veinules de quartz et carbonate et intensément fracturée.													
			Texture primaire de la roche détruite par une forte schistosité qui crée du fluage entre le quartz et l'andésite													
			∠ 30° Pl/C.A.													
	190.99	195.22	Diorite													
			idem 169.47 - 185.93													
			couleur un peu plus pâle et granulométrie plus fine													

SOQUEM — JOURNAL des SONDAGES

N° 11-424-14

Feuille N° 8 de 9

De 195.22 à 228.94

Profondeur totale : 238.96

Journal : S. Bureau

Date : 20/2/80

Projet : 11-424 — E : — Ord. : — Profondeur : —

Claim : — Section : — Ord. : — Plongée : —

Canton : — Lat. : — Long. : — Azimut : —

Rang : — Élévation Orifice : — Commencé le : —

Lot : — Azimut : — Terminé le : —

N.T.S. : — U.T.M. : — Contracteur : —

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	195.22	200.10	Andésite Bréchique.	V_b Δ V_L Δ V_b V_L V_L V_L V_L V_L M V_b Δ V_L M V_b Δ V_b M V_b Δ					
			Roche vendâtre emballée d'une multitude de fragments chloriteux ds une matrice chloriteuse. La roche est fracturé et recoupée par une multitude de v. de QTz.						
	200.10	209.70	Andésite massive						
			Roche vendâtre équigranulaire, aphanitique homogène et très fracturée.						
	209.70	228.94	Andésite massive et bréchique						
			Toute cette ensemble de roches est caractérisée par une multitude de fractures et de broyage.						
			La roche originale est equigranulaire et aphanitique. On peu voir ici et là quelques pieds d'andésite bréchique tel que décrit précédemment.						
			La roche est chloriteuse et légèrement (≤1%)						

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-14

Feuille Nº 9 de 9

De 228.94 à 238.96

Profondeur totale : 238.96

Journal : S. Bureau

Date : 2012/80

Projet : 11-424 | E : | Ord. : | Profondeur :

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

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

Rang : | Élévation Orifice : | Commencé le :

Lot : | Azimut : | Terminé le :

N.T.S. : | U.T.M. : | Contracteur :

Échelle : 1" = 20'

Forage De	à	GÉOLOGIE
		minéralisée en pyrite
228.94	231.04	V. de quartz.
		Veine de quartz laiteux + 2-5 % de pyrite inégalement distribuée.
		228.94 - 229.73 V. QTZ + fragments d'Andésite
		229.73 - 231.04 V. QTZ.
231.04	238.96	Andésite massive
		Idem 209.70 - 228.94
		Fin du Trou.

ÉCHANTILLON Nº	de	à	Long.	Au g/T	Ag	ANALYSES	Cu (PPM)	Pb (PPM)	Zn (PPM)
9716772	225.1	226.6	1.5	0.51	1.03				
9716773	226.6	228.1	1.5	0.17	0.69		248	21	108
9716774	228.1	228.9	0.8	Tr.	Nil.		87	16	72
9716775	228.9	229.7	0.8	9.43	13.71		200	39	64
9716776	229.7	231.0	1.3	31.55	27.43		264	55	25
9716777	231.0	232.0	1.0	2.57	2.74		114	22	84
9716778	232.0	233.5	1.5	0.34	1.37		100	22	110

SOQUEM — JOURNAL des SONDAGES

N° 11-424-15

Projet : 11-424
Claim : Bloc 32
Canton : Rouyn
Rang : 8
Lot :
N.T.S. : 32D7

Section : 121.92 E (708.20E)
Lat. : 196.60 N
Élévation Orifice : 274.32
Azimut : 360°
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur	0	60.96	121.92	182.88
Plongée	90	89	88	88
Azimut	360°			

Commencé le : 22/2/1980
Terminé le : 29/2/1980
Contracteur : ~~29/2/1980~~ Heslins Diamond Drilling

Feuille N° 1 de ~~7~~ 6
De 0 à 36.58
Profondeur totale : 185.01
Journal : S. Bureau
Date : 2/3/1980

Forage	De	à	GÉOLOGIE	Échelle: 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	0	26.82	Mort Terrain	MT					
	26.82	29.26	Diorite	MT					
			Roche verte foncée, équigranulaire, de granulométrie moyenne (1-2 MM). FF en bâtonnets épidotisés	MT					
	29.26	40.90	Andésite fracturée.	MT					
			Roche homogène, équigranulaire, de granulométrie fine ≤1MM.	MT					
			Caractéristique : multitude de fractures épidotisées.	MT					
			30.48 - 30.91 Dyke felsique hématitisé.	MT					
			31.09 - 31.18 Andésite sphérulitique sphérulite blanchâtre de 2-5mm.	20					
	40.90	62.79	Andésite massive	20 / Vv — Non fracturé					
			Roche homogranulaire, grise verdâtre de granulométrie fine (≤1MM). Caractérisée par sa grande homogénéité et peu de fractures	Vv / 120					

SOQUEM — JOURNAL des SONDAGES

N° 11-424-15

Feuille N° 2 de 7

De 36.58 à 73.15

Profondeur totale : 185.01

Journal : S. Bureau

Date : 1/31/1980

Projet : 11-424 — Claim : — Canton : — Rang : — Lot : — N.T.S. :

Section : — Ord. : — Lat. : — Long. : — Élévation Orifice : — Azimut : — U.T.M. :

Profondeur : — Plongée : — Azimut : — Commencé le : — Terminé le : — Contracteur :

Échelle : 1" = 20'

Forage De	à	GÉOLOGIE
		44.20-44.50 V. de quartz + chlorite et Tr de Py et cpy.
62.79	78.33	Andésite Amygdulaire
		Roche verdâtre, équigranulaire, homogène de granulométrie fine, caractérisée par 1-2% d'amygdules de quartz (.5-1cm) Quelques veines montrant de la pyrite
		68.58-70.10 Quartz de une zone de cisaillement + Tr de pyrite
78.33	81.87	Andésite Bréchique
		Roche composée de fragments d'andésite chloriteuse (1-3cm), anguleux et d'une matrice andésitique, fine (<1mm) homogène et épidotisée

ÉCHANTILLON N°	de	à	Long.	Au gr 07/t	Ag		ANALYSES Cu (PPM)	Pb (PPM)	Zn (PPM)		
9761817	44.2	44.5	0.3								
9761818	68.6	70.1	1.5	Tr	1.37		118	21	70		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-15

Feuille N° 3 de 7

De 73.15 à 109.73

Profondeur totale : 185.01

Journal : S. Bureau

Date : 1/3/1980

Projet : 11-424 — E : — Ord. : — Profondeur : —

Claim : — Section : — Ord. : — Plongée : —

Canton : — Lat. : — Long. : — Azimut : —

Rang : — Élévation Orifice : — Commencé le : —

Lot : — Azimut : — Terminé le : —

N.T.S. : — U.T.M. : — Contracteur : —

Échelle : 1" = 20'

Forage De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	ANALYSES Au (ppm)	Pb (ppm)	Zn (ppm)
81.87	138.47	Andésite massive, grenue (Diorite ?).							
		Roche verdâtre, équigranulaire, homogène de granulométrie fine. (qtMM)							
		Section recoupée par plusieurs veines de quartz à bordure épidotisé sur 2.54cm - 5.08cm. (0.32 cm)							
		Minéralisation : Absente de la roche Tx à Py de veinules de quartz							
		L'homogénéité de la structure et de la texture me fait croire que c'est une diorite à grenue.							
		86.41 - 87.02 ≠ + V. de Quartz	97689	91.4	121.9	30.5	(Éléments Majeurs + Mineurs)		
		91.44 - 92.14 ≠ + V. de Quartz	97690	86.4	87.0	0.6	0.17	0.69	124	120	147
		132.28 2.54cm de quartz + Py	97691	91.6	92.1	0.5	Tr	1.03			
			97692	132.1	132.4	0.30	Tr	0.69			
138.47	139.14	Andésite Bréchique.							
		Roche verte foncée, composée de fragments d'andésite (1-2cm) baignant dans une matrice chloriteuse et épidotisée							

SOQUEM — JOURNAL des SONDAGES —

N° 11-424-15

Projet : 11-424
Claim :
Canton :
Rang :
Lot :
N.T.S. :

Section :
Lat. :
Élévation Orifice :
Azimut :
U.T.M. :

Ord. :
Ord. :
Long. :

Profondeur :
Plongée :
Azimut :
Commencé le :
Terminé le :
Contracteur :

Feuille N° 4 de 6
De 109.73 à 145.39
Profondeur totale : 185.01

Journal : S. Bureau
Date : 1/3/1980

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	139.14	139.29	Andésite sphérulitique.						
			Matrice grise foncée montrant 60% de sphérulite blanchâtre de 1-2 MM.						
	139.29	141.06	Andésite amygdulaire						
			Roche grise foncée montrant 5% d'amygdule de quartz de 1cm. La roche est aphanitique, équigranulaire et légèrement silicifiée.						
	141.06	142.89	Andésite sphérulitique						
			idem 139.14 - 139.29						
	142.89	145.39	Andésite massive						
			Roche grise, de granulométrie fine homogranulaire. Roche homogène non minéralisée						
			Contact inférieur 30°/C.A.	145.39					

SOQUEM — JOURNAL des SONDAGES

N° 11-424-15

Feuille N° 5 de 6

De 145.39 à 169.47

Profondeur totale : 185.01

Journal : S. Bureau

Date : 1/3/1980

Projet : 11-424 — E : — Ord. : — Profondeur : —

Claim : — Section : — Ord. : — Plongée : —

Canton : — Lat. : — Long. : — Azimut : —

Rang : — Élévation Orifice : — Commencé le : —

Lot : — Azimut : — Terminé le : —

N.T.S. : — U.T.M. : — Contracteur : —

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE	ÉCHANTILLON N°	de	à	Long.	oz/t Av	oz/t Ag	ANALYSES Cu (ppm)	Pb (ppm)	Zn (ppm)
	145.39	149.66	Andésite Bréchique									
			Roche verte, foncée, chloriteuse constituée d'une matrice aphanitique foncée et de 20% de fragments gris clair, anguleux (1cm)									
			Quelques fragments plus gros de 3cm sont visibles									
			Caractéristique : 5-10% de pyrite dans la matrice.	976913	147.7	149.2	1.5	Tr	2.06	240	15	34
	149.66	169.47	Andésite massive									
			Roche grise, homogranulaire, de granulométrie fine (2mm) et homogène.	976914	149.7	163.1	13.4	(Élément majeur + mineur)				
			159.72-160.32 Silicifiée +5% ○ Quartz	976915	163.1	169.5	6.4	(Élément majeur + mineur)				
			163.07-169.47 Roche broyée et fracturée									
			Pas un morceau de roche plus long que 2.54 cm.									

Vb Δ Vb 5% py dans la matrice

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-15

Projet : 11-424 | ℓ : | Ord. : | Profondeur :
Claim : | Section : | Ord. : | Plongée :
Canton : | Lat. : | Long. : | Azimut :
Rang : | Élévation Orifice : | Commencé le :
Lot : | Azimut : | Terminé le :
N.T.S. : | U.T.M. : | Contracteur :

Feuille Nº 6 de 6

De 169.47 à 185.01
Profondeur totale : 185.01

Journal : S. Bureau
Date : 13 11 1980

Échelle : 1" = 20'

Forage	De	à	GÉOLOGIE
	169.47	171.97	Andésite chloritisée, épidotisée.
			Roche verte finée, complètement altérée et fracturée.
			Schistosité 30° P/C.A.
			2% pyrite disséminé
	171.97	173.19	V. de quartz.
			Laiteux + fragments d'andésite altéré + 1-2% pyrite disséminée
			Tr cpy.
	173.2	185.01	Andésite massive
			Idem 169.47-171.97
			Tr Py dissém.

ÉCHANTILLON Nº	de	à	Long.	oz/t Au	Ag	ANALYSES		Cu (ppm)	Pb (ppm)	Zn (ppm)	
97696	169.5	170.8	1.3	0.17	2.06			320	22	58	
6997	170.8	172.0	1.2	1.54	1.37			142	22	59	
97698	172.0	173.2	1.2	2.91	2.74			100	30	18	
97699	173.2	174.7	1.5	1.20	2.06			236	23	41	
97700	174.7	176.2	1.5	0.86	1.37			78	18	58	
97701	173.1	185.0	11.9	(Eléments majeurs + Mineurs)							

SOQUEM — JOURNAL des SONDAGES

Projet	11-424	E	237.74	Ord.		Profondeur	0	121.92 / 182.88 / 60.96
Claim	B1.32	Section	243.84E	Ord.		Plongée	360°90°	89° / 86° / 90
Canton	Rouyn	Lat.	210.31 N	Long.		Azimut	360°	– / – / –
Rang	8	Élévation Orifice	274.32			Commencé le	25/2/1980	
Lot		Azimut	360°			Terminé le	5/3/1980	
N.T.S.	32D7	U.T.M.	5346390 N	499780E		Contracteur	Hoskins Diamon Drilling	

200

N° 11-424-16

Feuille N° 1 de 8

De 0 à 36.58

Profondeur totale : 212.42'

Journal : S. Bureau

Date : 6/3/1980.

Forage	De	à	GÉOLOGIE	Échelle 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	101	43.89	MORT TERRAIN	MT					
	43.89	71.93	Andésite Amygdulaire	MT					
			Roche verdâtre, équigranulaire, aphanitique très homogène.	MT					
			La section montre des bouts de 3.05 à 4.58 sans amygdule mais sans contact visible avec les coulées amygdulaires	MT					
			Caractéristique : 5% d'amygdule de quartz de 1cm.	MT					
			53.65 - 53.80 Passée felsopathique	MT					
			217 2.54cm Brèche V_2O ls une matrice épidotisé	MT					
			La section montre quelques veinules de quartz et < 1% de pyrite.	MT					
			Σ at ≠ 20° 1% C.A.	MT					

SOQUEM — JOURNAL des SONDAGES

Projet : 11-424 | Claim : | Canton : | Rang : | Lot : | N.T.S. :
Section : | Lat. : | Élévation Orifice : | Azimut : | U.T.M. :
Ord. : | Ord. : | Long. : |
Profondeur : | Plongée : | Azimut : | Commencé le : | Terminé le : | Contracteur :

N° 11-424-16

Feuille N° 2 de 8

De 36.58 à 73.15

Profondeur totale : 212.45

Journal : S. Bureau

Date : 6/3/1980.

Forage	De	à	GÉOLOGIE
	71.93	75.74	Tuf à lapillis.
			Roche grise homogène, constitué de 70% de petits fragments de roche et de Felds jaths (.5-1cm) et d'une matrice grenue homogranulaire (1-2mm). La matrice est lithique avec 10% de grains de quartz (1mm).
			Les fragments sont arrondis à sub-anguleux et légèrement disturbués sur toute la section.
	75.74	88.48	Andésite amygdalaire
			idem 43.89 - 71.93
			caractéristique ≤10% d'amygdales de quartz et chlorite (.5cm).

Échelle : 1" = 20'

ÉCHANTILLON N°	de	à	Long.	Au gm 02/T	Ag	Cu (PPM)	Pb (PPM)	Zn (PPM)
9770102	71.41	75.61	1.5	Tr	N.D.	5	9	23

SOQUEM — JOURNAL des SONDAGES

Projet : 11-424 | E : | Ord. : | Profondeur :
Claim : | Section : | Ord. : | Plongée :
Canton : | Lat. : | Long. : | Azimut :
Rang : | Élévation Orifice : | Commencé le :
Lot : | Azimut : | Terminé le :
N.T.S. : | U.T.M. : | Contracteur :

N° 11-424-16

Feuille N° 3 de 8

De 73.15 à 109.73
Profondeur totale : 212.45

Journal : S. Bousquet
Date : 6/3/1980

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	Au	Ag	ANALYSES
	88.48	110.87	Dacite (Andésite grenue ?).	VII VII V6 ⊙ V6 ⊙ V6 ⊙ V6 ⊙ V6 ⊙							
			Roche homogène, equigranulaire, de granulométrie moyenne (1-2 MM)								
			Feldspaths en bâtonnets visibles								
			91.75' - 92.05' V. de quartz	10% ⊙ de quartz	9717013	91.8	92.1	0.3	0.34	0.69	
	110.87	116.74	Rhyolite Bréchique	20							
			Roche verte pale épidotisée, siliceuse et très dure.	→ V. quartz 20							
			Composée d'une pate aphanitique et de 15 % de phénocristaux et/ou fragments de quartz (1-5 MM).	20 20 20 20 20 20 20 20							
			La Roche contient 10% de fragments de Rhyolite anguleux de 1-2 cm.								

SOQUEM — JOURNAL des SONDAGES

N° 11-424-16

Projet : 11-424

Feuille N° 4 de 8

De 109.73 à 138.99

Profondeur totale : 212.45

Journal : S. Bureau

Date : 6/3/1980.

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	61°			109.73					
	110.74	125.12	Diorite						
			idem 88.48 - 110.89						
	125.12	134.11	Rhyolite Bréchique						
			idem 110.89 - 116.74						
			De plus : quelques fragments feldspathiques		97704	125.0	134.1	9.1	(Éléments Majeurs + Mineurs).
			schistosité 20°P1/C.A.						
	134.11	138.99	Andésite silicifiée.						
			Roche verte foncée équigranulaire, très hétérogène (représente la zone de contact avec la rhyolite).	✓	97705	134.11	139.0	4.9	(Éléments mineurs).
			La roche est caractérisée par la présence de fragments de rhyolite, une fracturation remplie par du quartz et 3% de pyrite en agrégats cubiques	3% PY. 456					

SOQUEM — JOURNAL des SONDAGES

N° 11-424-16

Feuille N° 5 de 8

De 138.99 à 155.75

Profondeur totale : 212.45

Projet : 11-424	Ord. :	Ord. :	Profondeur :
Claim :	Section :	Ord. :	Plongée :
Canton :	Lat. :	Long. :	Azimut :
Rang :	Élévation Orifice :		Commencé le :
Lot :	Azimut :		Terminé le :
N.T.S. :	U.T.M. :		Contracteur :

Journal : S. Bureau

Date : 6/3/1980.

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON N°	de	à	Long.	ANALYSES
	138.99	152.86	Andésite Grenue.						
			Roche verte foncée, équigranulaire, de granulométrie fine (variable) et différente de la section précédente.	456	97016	139.0	152.9	13.9 / 45.5	(Éléments Mineurs).
			- Fracturation moins intense.	V6 / G / V6 / G / V6 / G / V6 / G / V6					
			- 1-2 % de pyrite en agrégats aciculaires (?)	1-2 % py diss.					
	152.86	153.25	Andésite Bréchique.						
			Roche composée de fragments (70%) (1cm) épidotisé et d'une matrice (30%) fine et chloriteuse (Probablement un sommet de coulée).	V6 ≙ / V6 / G / 511					
	153.35	155.75	Andésite Grenue						
			Idem 138.99-152.86						

SOQUEM — JOURNAL des SONDAGES —

N° 11-424-16

Projet : 11-424 | Ord. : | Profondeur :
Claim : | Section : | Ord. : | Plongée :
Canton : | Lat. : | Long. : | Azimut :
Rang : | Élévation Orifice : | Commencé le :
Lot : | Azimut : | Terminé le :
N.T.S. : | U.T.M. : | Contracteur :

Feuille N° 6 de 8

De 155.75 à

Profondeur totale : 212.45

Journal : S. Bureau

Date : 6/3/1980

Forage	De	à	GÉOLOGIE	Échelle: 1" = 20'
	155.75	175.57	Andésite massive	V_6
				→ V. QTZ
			Roche grise verdâtre, aphanitique, équigranulaire et homogène	V_6
				→ V. QTZ
			Caractérisée : 1) Quelques amygdales	V_6 → V. QTZ
			2) Peu de fracture par rapport à la section précédente	V_6 → V. QTZ
			3) Plusieurs [illegible] de veines de quartz	V_6
				→ V. QTZ
			V. de quartz 158.86 - 159.50	V_6
			168.55 - 169.47	
			173.03 - 172.43	V_6
			173.37 - 174.59	
			162.67 - 163.56	V_6 → V_6
	175.57	200.05	Andésite massive	V_6 → V_6
			Roche grise verdâtre équigranulaire	
			homogène de granulométrie fine (≤ 1 mm)	V_6 → V_6
				→ V_6
			La section représente plusieurs coulées	V_6
			massive intercalées avec de petits	

ÉCHANTILLON N°	de	à	Long.	Au (gr/T)	Ag (gr/T)		Cu (ppm)	Pb (ppm)	Zn (ppm)		
977107	158.9	159.5	0.6	3.60	3.43						
977108	168.6	169.5	0.9	0.69	0.69		99	18	63		
977109	171.8	172.0	0.6	0.17	3.09		144	22	174		
977110	173.4	170.6	1.2	Tr	2.06		81	15	88		
977111	162.7	163.6	1.1	Tr	0.69		111	13	38		

SOQUEM — JOURNAL des SONDAGES

N° 11-424-16

Projet : 11-424
Feuille N° 7 de 8
Profondeur totale : 212.45
Journal : S. Bureau
Date : 6/3/1980

Forage	De	à	GÉOLOGIE
			horizons bréchiques représentant des interfaces de coulée.
			Les brèches sont composées de petits fragments d'andésite baignant dans une matrice plus chloriteuse et siliceuse (quartz libre).
			149.20 - 150.33 ; 183.12 → 183.31
			187.96 → 188.27 ; 189.22 → 189.77
			Ces intersections représentent les unités bréchiques
			189.77 - 206.04 Section montre par endroit section plus jaune
			La section montre peu de minéralisation
			189.59 5.08cm de quartz
			198.12 2.54cm de quartz
			↳ 25° P/c.A.

Échelle : 1" = 20'

630
V6
G
V6
G → 2" QTZ
V6
G
V6
G
V6
676

ÉCHANTILLON N°	de	à	Long.	g/T Au	g/T As	ANALYSES
97713	175.6	206.1	30.5	(Éléments majeurs + mineurs)		
97714	189.4	189.7	0.3	2.57	2.06	
97715	198.0	198.6	0.6	0.69	1.37	

SOQUEM — JOURNAL des SONDAGES

Nº 11-424-16

Projet : 11-424	℄ :	Ord. :	Profondeur :		Feuille Nº 8 de 8
Claim :	Section :	Ord. :	Plongée :		De 206.05 à 212.45
Canton :	Lat. :	Long. :	Azimut :		Profondeur totale : 212.45
Rang :	Élévation Orifice :		Commencé le :		Journal : S. Bureau
Lot :	Azimut :		Terminé le :		Date : 6/3/1980.
N.T.S. :	U.T.M. :		Contracteur :		

Forage	De	à	GÉOLOGIE	Échelle : 1" = 20'	ÉCHANTILLON Nº	de	à	Long.	ANALYSES
	206.05	210.31	Andésite Bréchique.						
			Roche grise verdâtre foncée, composée d'une matrice aphanitique équigranulaire d'andésite chloriteuse (70%) et de 30% de fragments légèrement plus pâle anguleux et de granulométrie variée (.5-2 cm)	676 V6 Δ V6Δ					
			Les textures observées dans la matrice indique une bréchification par slumping.	V6 697					
	210.31	212.45	Andésite massive	FIN					
			Idem 175.57 - 204.52						
			Fin du Trou.						

A N N E X E 2

JOURNAUX DE SONDAGES

TRAVAUX ANTERIEURS

3 fur of .825 oz Au.

LOG OF DIAMOND DRILLING

Property WILTSEY-COCHLAN MINES LIMITED Hole Completed August 3, 1937

Location On small island in Lake Tremoy near western boundary of Block 32 Level Surface Angle 45° Bearing N (mag.)

Latitude Departure Total Depth 1054'

Approved by Quebec Dpt. of Mines Logged by F. Koulomzine & R. W. Dagenais Hole No. 37-1

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/Ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			
0	10'3"	Casing			
10'3"	11'2"	Rhyolite--aphanitic light grey, siliceous			
11'2"	28'3"	Andesite, fine grained, slightly mineralized with pyrite in blebs and disseminated and in veinlets of epidote with carbonate, pyrite and hematite.			
28'3"	29'0"	Siliceous with 6" quartz vein mineralized with pyrite and chlorite.			
		Sample 28'3"-29'0"	57-1-1	9"	
				Au	tr.
				Ag	0.02
29'5"	54'	Andesite (as above), fine grained 36'2" to 38'0"--siliceous mostly quartz with 2% pyrite. 1" barren quartz at 49'5"			
		Sample 36'0"-39'0"	57-1-2	3'0"	
				Au	0.002
				Ag	tr.
				Cu	0.07%
				Zn	nil
				Ni	nil
54'	90'5"	Rhyolite--siliceous intermixed with andesite and brecciated, carbonate, epidote stringers throughout 1" quartz at 77'6", barren trace of chalcopyrite at 78'10" in rhyolite ½" trace at 87'9"			
90'5"	204'	Andesite, fine to medium grained, occasionally looks like "older gabbro" but remnants of amygdules rule out intrusive, veined throughout with carbonate--epidote stringers 1" apart, mineralized with pyrite 2% especially at veinlets, occasional chalcopyrite ½" quartz at 107'6" 6" siliceous zone at 118'--trace chalcopyrite 1" quartz--carbonate stringer at 122'5" 6" aphanitic zone at 132' hematite cracks at 127'			
		Sample 152'0"-153'0"	57-1-3	1'	
				Au	tr.
				Ag	0.02
				Cu	0.12%
		traces of chalcopyrite at 156', 172'6" mainly in tiny carbonate veinlets and associated with pyrite 1" quartz carbonate veinlet at 177'5" 18" rhyolitic facies at 188' 1" quartz carbonate at 189'5"			
204'	391'	Rhyolite, originally spherulitic, considerable brecciation and chloritization, cracks and stringers of epidote, irregular often strong pyrite mineralization mostly originating in cracks. average 1-2% pyrite in places up to 5% strong pyrite at 233' and 238' strong pyrite and some chalcopyrite in cracks at 250'-251' 3" quartz with some pyrite at 251'3"-251'6"			

LOG OF DIAMOND DRILLING

Property WILTSEY-COGHLAN MINES LIMITED Hole Completed August 3, 1957

Location On small inland in Lake Tremor near western boundary of Block 32 Level Surface Angle 45° Bearing N (mag.)

Collar Departure Total Depth 1054'

Assayed by Bourlamaque Assay Office & Quebec Dpt. of Mines Logged by T. Koulomzine & R. W. Dagenais Hole No. 57-1

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz./ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			
		Sample 250'-251'	57-1-4	1'	
				Au	tr.
				Ag	0.01
				Cu	0.17%
		Sample 251'-251'7"	57-1-5	7"	
				Au	0.18
				Ag	0.17
		hematization at 282'-283'			
		285'-289'			
		⅛" quartz at 306'6"			
		silicified and pink zone with good pyrite at 337'6"-338'3" 341'5"-343'7"			
		¼" quartz at 350'6"			
		⅛" quartz stringer with considerable chalcopyrite at 352'6"			
		½" leached quartz at 375'5"			
		1½" leached quartz at 378'6"			
		½" leached quartz at 380'3"			
		⅛" quartz carbonate at 382'10" followed by a silicified zone to 383'10"			
		½" leached 385'8"			
		⅛" quartz with pyrite at 386'9"			
	396'	Bleached andesite			
29'11"		Andesite fine to medium grained			
		criscrossed by carbonate--epidote stringers with some pyrite			
		epidotized at 405'2"-405'8"			
		1" blob pyrite at 409'2"			
	466'7"	Rhyolite all brecciated and veined, blebs of pyrite			
		siliceous zone 450'-453'6"			
		pyrite in cracks and brecciated			
		trace of chalcopyrite 456'4"			
		½" quartz with well finely brecciated			
	503'6"	Brecciated rhyolite coarse and fine siliceous zone 466'7"-467'6"			
		up to 4% pyrite			
		same 469'-472'3"			
		trace chalcopyrite at 473'9"			
		trace chalcopyrite at 486'6"			
		507'4"-508'4" 5% pyrite with specks of chalcopyrite			
		Sample 507'4"-508'4"	57-1-6	1'	
				Au	C.002
				Ag	C.01
				Cu	C.07%
	518'6"	Rhyolite chloritized and epidotized			
	524'	Brecciated rhyolite			
		1½" quartz veinlet with 10% pyrite and 3-4% chalcopyrite in vein			
		Sample 523'-523'6"	57-1-7	6"	
				Au	C.005
				Ag	0.90
				Cu	0.60%

LOG OF DIAMOND DRILLING

Property WILTSEY - COGHLAN MINES LIMITED Hole Completed August 3, 1957

Location On small inland in Lake Tremoy near western boundary of Block 32 Level Surface Angle 45° Bearing N (mag.)

Grid de Departure Total Depth 1054'

Assayed by Bourlamaque Assay Office & Quebec Dpt. of Mines Logged by T. Koulomzine and R. W. Dagenais Hole No. 57-1

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			
4'	588'	Dacite criss-crossed by tiny quartz carbonate veinlets about 2 per inch. ½" quartz veinlet at 529'--some pyrite 1" quartz carbonate vein at 538'2" barren 2" quartz veinlet at 549'8" - some pyrite and chalcopyrite. Highly brecciated zone from 548'6" to 55'1" and v well sheared. bleached rhyolite from 557'4" to 562'8" 564'8" - 2" mineralized zone with chalcopyrite bleached zone 570' - 571' and again 571'8" to 572') 1" quartz at 580'7" with trace of pyrite			
8'	594'	Rhyolite, well brecciated crossed by many tiny veinlets 2" mineralized zone - at 595'7" pyrite Sample 593'7"-593'11"	57-1-6		Au ? Ag Cu
4'	621'	Dacite fine grained, slightly brecciated in spots 617'8" calcite stringer 619'10", 2" - 30% pyrite, trace chalcopyrite Sample 619'10"-620'	57-1-9		Au ?? Ag Cu Ni
		½" mud seam at 620'			
'	645'	Brecciated rhyolite cross-cut by tiny quartz carbonate veinlets approximately 1 per inch of core. 2" zone with 25% quartz in rhyolite mineralized with 8% pyrite and trace of chalcopyrite 629'2" - 644'5" Major fault zone 10° to core axis 629'2" to 636'6" -Highly brecciated zone, with tiny shearing 636'6" to 641'6" - extremely blocky ground - brecciated and sheared. 641'6" to 644'5" - brecciated zone with 60% quartz and carbonate, almost barren, blob of chalcopyrite			
'	695'	Andesite, epidotized in cracks, slightly brecciated in spots; much less alteration than in the beginning of hole. Vein blocky from 650' to 662' ½" quartz-carbonate veinlet at 670'7" with 2% pyrite ½" quartz vein - barren at 671'7" ½" quartz carbonate vein at 680'8" barren 1" quartz- carbonate at 688'6" - 1% pyrite			

LOG OF DIAMOND DRILLING

Property WILTSEY - COGHLAN MINES LIMITED Hole Completed August 3, 1957
Location On small island in Lake Tremoy near Western boundary of Block 32 Level Surface Angle 45° Bearing N (mag.)
Latitude Departure Total Depth 1054'
Assayed by Bourlamaque Assay Office & Quebec Dpt. of Mines Logged by T. Koulomzine and R. W. Dagenais Hole No. 57-1
Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			
5'	712'	Andesite, medium grained (as above), but with coarse sections - 695' - 712'			
2	726'	Andesite fine grained. Crossed by tiny cracks mostly filled with epidote and some pyrite. ½" irregular quartz at 718'6" - pyrite ½" quartz carbonate at 720'5" - with pyrite and trace of chalcopyrite 721'10" -722'7" - 20% irregular quartz and carbonate with some pyrite and epidote alterations			
6'	771'	Andesite coarse grained, almost an older gabbro. fair numerous epidotized alteration sections. shear zone with ½" quartz - carbonate veinlet at 759'0" with pyrite 2" of mineralization at 770'8" Sample 770'6"-771'0"	57-110	Au Ag	
'	778'	Dacite, fine grained two ½" quartz veinlets at 773'1" and 773'2" with pyrite.			
3'	821'	Andesite, coarse grained again almost an older gabbro crossed by frequent epidotized sections. ½" quartz - carbonate veinlet at 805'8" 1" quartz - carbonate vein at 813'7" - barren several hematite seams from 818' to 821' (5 per foot)			
'	868'	Andesite fine to medium grained crossed by several epidotized sections - 5" at 834' 10" at 835' 4" at 837' 2" at 839' 2" at 847' All with splashes of pyrite 2" quartz - carbonate vein at 843' with specks of pyrite. 3" of 2% pyrite and chalcopyrite at 866'5" Sample 866'2"-866'8" 6"	57-111	Au Ag Cu	1.25%
8'	920'	Dacite, fine grained brecciated and bleached from 868' to 875'6" 2" quartz and carbonate at 869' - barren brecciated from 889' to 893' - 2" quartz - carbonate at 890'6" 893' - 897' -- slightly porphyritic phenocrysts much less than 1/16" 897' - 898' --brecciated dacite major quartz vein from 898'2" to 901' with splashes of pyrite and chalcopyrite.			

LOG OF DIAMOND DRILLING

Property WILTSEY - COSSELAN MINES LIMITED Hole Completed August 3, 1957

Location On small island in Lake Tremoy near western boundary of Block 32 Level Surface Angle -45° Bearing N (mag.)

Grade ____ Departure ____ Total Depth 1054'

Surveyed by Quebec Dpt. of Mines Logged by T. Koulomzine & R. W. Dagenais Hole No. 57-1

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/ton
		Overburden, thickness of clays, sands, gravel, water, boulders, etc.			
		Note whether hole makes enough water to be used in further drilling as water course.			
		Sample 898'-901'	57-1-12		Au Ag Cu
		901' -915' strong brecciated with fair pyrite mineralization and some shearing at 914'-915'			
		2" quartz barren at 917'8"			
		strong brecciated and 10% pyrite at 919' - 920'			
920'	1007'	Andesite medium to fine grained with very numerous epidotized and mineralized cracks--mineralization only pyrite fairly heavy			
		1" - 50% pyrite at 939'4"			
		1" quartz carbonate + 20% pyrite 973'6"			
		pyrite at 997'8"			
		evidence of pillows at 989'			
		1001'8" - 2" quartz with some chalcopyrite			
1007'	1054'	Dacite medium to fine grained, as above, but more acid.			
		½" quartz at 1009'0", 1009'7"			
		2" quartz with pyrite at 1015'1"			
		End of Hole			
		Acid test at 400' - True Dip --41°			
		" " " 800' - " " --39°			

LOG OF DIAMOND DRILLING

Started August 23/57

Property WILTSEY-COGHLAN MINES LIMITED Hole Completed

Location Block 32 Level Surface Angle 50° Bearing N 40° W true

Latitude 27 - 33 N Departure 17 - 42 W Total Depth 1400'

Assayed by Quebec Dpt. of Mines Logged by T. Koulomzino and R. W. Dagenais Hole No. 57-3

Core Housed at Core shack on property

Laurentaque Assay Office &

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz./ton
		Describe overburden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			Q.D.?
0	5'	Casing			
5	41'	Andesite, fine grained, containing occassional specks of pyrite and criss-crossed by tiny quartz-carbonate veinlets at the rate of six per foot.			
41	92'	Andesite, medium grained, green, more massive, less quartz, mostly carbonate in cracks. Slightly brecciated tuffaceous zone, from 41'5 to 47'0" with 2" carbonate stringer at 41'8". Scattered pyrite mineralisation from 44' to 45' ½" quartz stringer at 87'8" with few specks of pyrite.			
2'	284'	½" quartz feldspar veinlet at 97'10" 1" irregular quartz feldspar at 106'0" Altered zone with 2% pyrite from 121' to 121'3" and another from 123' to 124'6" Andesite, fine grained, criss-crossed by numerous irregular quartz, carbonate stringer less than 1/10" of an inch thick. Any feldspar common. Brecciated zone from 128'6" to 134'0" Occassional disseminated pyrite in cubes and massive blebs at 158'6" --5" zone at 174'8" --4" zone 185'0"-186'0" brecciated with 5% quartz and feldspar, trace of pyrite. Sample 186'0"-186'0"	57-3-1	1'0" Au nil Ag nil	nil
		184'10" to 194'6", rhyolite partly spherulitic at 10" to 20" to core axis. 1" irregular quartz feldspar at 201'0"--barren Shear zone from 208'6" to 210'9" Sample 208'6"-210'9"	57-3-2	2'3" Au nil Ag nil	nil
		Flow brecciated zones common with pyrite 3" at 227' 8" at 230'5" 2' at 242' 8" at 247' irregular 20% feldspar and quartz--5" at 228' 0" at 237'6" 10" at 260'6" --50% quartz feldspar Sample 260'6"-261'5"	57-3-3	0'11" Au nil Ag	nil
		291'6"-292'4", 8" quartz with some pyrite Sample 291'6"-292'4" B.A.O. Au nil Ag 0.01	57-3-4	0'10" Au Ag	nil nil
284'	304'	Fine grained acid volcanics 1" irregular quartz at 300'4"			
304'	419'	Dacite, medium grained, criss-crossed by numerous quartz-carbonate stringers. Siliceous zone with 40% quartz and 4% pyrite.			

03422

LOG OF DIAMOND DRILLING

WILTSEY-COGHLAN MINES LIMITED

Started August 7/57
August 2?/57

Property: Block 32 — Hole Completed: Surface — Angle: 50° — Bearing: N 43° tru
Location: 27 + 33 N — Level: 17 + 42 W — Total Depth: 1400'
Latitude / Departure: Bourlamaque Assay Office, Quebec Dept. of Mines — Logged by: T. Koulomzine and R. W. Dagenais — Hole No. 57-3
Assayed by: Core shack on property
Core Housed at:

FROM	TO	DESCRIPTION	SAMPLE No.	Length	VALUE Oz./ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			
		Sample 366'4"-369'0"	57-3-5	2'8"	
				Au	nil
				Ag	nil
		4" irregular quartz-feldspar at 388'3"--barren			
		½" irregular quartz at 402'0"			
		½" " " at 403'4"			
?9'	512'6"	Dacite, fine grained			
		Acidic facies from 415' to 417'			
		Strong brecciated zone from 430'5" to 433'0" with minutes amounts of pyrite.			
		A second brecciated zone from 439'10" to 443'2" with carbonate filling breaks.			
		Again--brecciated zone from 444'9" to 445'7"			
		" " " " 450'0" to 451'3"			
		Brecciated zone with 20% irregular quartz-carbonate from 452'6" to 454'3"			
		2" irregular vein--quartz and feldspar at 461'4"			
		Brecciated zone with several ⅛" quartz veins carrying pyrite and silicification, 510'4"-511'7"			
		Sample 510'4"-511'7" B.A.O.	57-3-6	1'3"	
		Au 0.005		Au	nil
		Ag 0.02		Ag	nil
? 6"	613'	Rhyolite, very fine grained, slightly brecciated throughout with some disseminated pyrite in cubes and blebs, less than 1%.			
		½" irregular quartz at 525'8" with disseminated pyrite.			
		Quartz vein from 529'7" to 531'2" with 80% - scattered pyrite.			
		Sample 529'7"-531'2" B.A.O.	57-3-7	1'7"	
		Au Tr		Au	nil
		Ag Tr		Ag	nil
		Brecciated between 559'-567' and between 577'-582'			
		Highly brecciated between 595'3"-598'0" with minute amounts of pyrite and chalcopyrite. Calcite fills the breaks.			
		Sample 590'4"-592'11" B.A.O.	57-3-?	2'7"	
		Au Trace		Au	nil
		Ag Trace		Ag	nil
		Cu 0.15%		Cu	0.03%
1?	635'	Dacite, fine to medium grained			
?5'	816'	Rhyolite, fine grained.			
		Well brecciated and sheared from 641'10" to 642'5"			
		Well brecciated between 699' and 704' with 10% quartz carbonate--barren.			
		3" of 50% quartz-feldspar at 703' with pyrite.			
		Sample 707'11"-708'5" B.A.O.	57-3-?	0'6"	
		Au Trace		Au	nil
		Ag Trace		Ag	nil
		spherulites and amygdules common throughout			
		Core mixed up in places in box 723'-750'			
		Blebs of pyrite at 753'; 763'0"-762'9"; 767'0"-767'8" 772'6" to 773'0"			
		Strong brecciation, with pyrite, magnetic			

LOG OF DIAMOND DRILLING

Started August 7/57

Property WILSEY-COMPLAN MINES LIMITED Hole Completed August 28/57

Location Block 32 Level Surface Angle -50° Bearing N 40° W Grid

Latitude 27 + 33 N Departure 17 + 43 E Total Depth 1200'

Assayed by Quebec Dpt. of Mines, Bourlamaque Assay Office & Logged by T. Koulomzine and R. U. Dagenais Hole No. 57-3

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/to
		Describe overburden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			Q.D.H.
		Sample 777'0"-778'8" B.A.O.	573-10	1'8"	
		Au nil		Au	nil
				Ag	nil
		Fault 778'8"-780'7", strong shearing			
		Sample 778'8"-780'7" B.A.O.	573-11	1'11"	
		Au nil		Au	nil
				Ag	nil
21	871'	Dacite, medium grained. Altered pyrite, considerable epidote well cracked; considerable fine grained hematite and pyrite in cracks.			
		3/4" quartz at 838'2"--barren			
		numerous pyrite seams at 841'6"; 843'4"; 845'5"; 851'0"; 852'3"			
		Sample 850'7"-852'3" B.A.O.	573-12	1'8"	
		Au nil		Au	nil
				Ag	nil
		other pyrite seams at 860'5"; 866'0"; 869'8"; numerous blobs of pyrite at 870'0"--872'5"			
871	897'4"	Rhyolite, very fine grained; well broken up--scattered blebs of pyrite, numerous.			
		3/4" quartz-carbonate with considerable pyrite at 875'6"			
		3/4" quartz-carbonate (as above) at 894'10"			
897'4"	905'6"	Andesite, fine grained.			
905'6"	933'	Rhyolite, fine grained, some brecciated sections from 920'-960' and irregularly but well mineralized with pyrite magnetite and specks of chalcopyrite.			
		1" porous magnetic veinlet with specks of chalcopyrite at 931'9"-942'0"			
		Fault 970'5"-973' --Strong brecciation-fault zone.			
		976'0"-993' --Fault zone continued with considerable pyrite mineralization.			
		Sample 931'1"-931'10" B.A.O.	573-13	0'9"	
		Au nil		Au	nil
		Cu 0.03%		Ag	nil
				Cu	0.02%
				Ni	0.00
		941'8"-943'0", well mineralized in tiny seams by magnetite pyrite and chalcopyrite.			
		Sample 941'8"-943'0" B.A.O.	573-14	1'4"	
		Au nil		Au	nil
		Cu 0.07%		Ag	nil
				Cu	0.04%
		Sample 959'5"-959'10" B.A.O.	573-15	1'5"	
		Au trace		Au	nil
		Cu 0.03%		Ag	nil
				Cu	0.01%
		963'-967', brecciated zone.			
		Sample 963'0"-967'0" B.A.O.	573-16	3'0"	
		Au nil		Au	nil
				Ag	nil

LOG OF DIAMOND DRILLING

Started August 7/57

Property WILTSIE-COBALAN MINES LIMITED Hole Completed

Location Block 32 Level Surface Angle 50° Bearing N 49° W true

Latitude 27 - 33 N Departure 17 - 42 W Total Depth

Assayed by Bourlamaque Assay Office & Quebec Dpt. of Mines Logged by T. Koulomzine and R. W. Dagenais Hole No. 57-3

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			Q.D.
		Sample 967'0"-969'2" B.A.O. Au nil	57-3-172	2'2" Au Ag	Nil Nil
		Sample 971'0"-972'0" B.A.O. Au nil	573-18	1'0" Au Ag	Nil Nil
		3" brecciated zone with good pyrite mineralisation at 983'5"			
		Sample 985'0"-987'2" B.A.O. Au nil	57-319	2'2" Au Ag	Nil Nil
		Sample 992'0"-993'0" B.A.O. Au nil	57-3-201	1'0" Au Ag	Nil Nil
35'	1030'	Dacite, massive but all criss-crossed by quartz carbonate cracks; considerable pyrite in every crack and in occasional amygdules.			
30'	1148'	Rhyolite brecciated, mostly tectonic; very numerous cracks with quartz and calcite and considerable mineralization in cracks and throughout.			
		1041'-1051'--core all broken up			
		1" quartz with pyrite at 1046'0"			
		lost core --1047'8"-1048'2"			
		1048'3"-1050'0"			
		Fault 1058'0"-1068'0" --Major fault zone			
		Particularly broken up core all through, fair irregularly distributed pyrite,			
		Mud seam at 1063'3"			
		Sample 1058'0"-1060' B.A.O. Au	57-3-21	2'0" Au Ag	Nil TN
		1" quartz at 1078'4"			
		1½" quartz carbonate and magnetite - crack with gauge at 1083'3"			
		4" quartz calcite, brecciated at 1084'1"-1084'6"			
		1090'-1091'2"--brecciated slightly mineralized quartz.			
		1091'2"-1093'5", strong brecciated			
		1093'5"-1096'8", 50% quartz carbonate in brecciation.			
		1097'7"-1099'6", quartz carbonate in brecciation			
		Samples 1090'-1098' B.A.O. Au	57-3-22	2'0" Au Ag	Nil TN
		1092'-1093'5" B.A.O. Au	57-3-23	1'5" Au Ag	Nil TN
		1093'5"-1096'8" B.A.O. Au	57-3-24	3'3" Au Ag	Nil TN
		1096'8"-1099'6" B.A.O. Au	57-3-25	3'2" Au Ag	Nil TN

LOG OF DIAMOND DRILLING

Started August 7/57

Property WILLSEY-COCHLAN MINES LIMITED Hole Completed August 20/57

Location Block 32 Level Surface Angle 50° Bearing N. 45° W. true

Latitude 27 + 33 N Departure 17 + 42 W Total Depth 1400'

Assayed by Bourlamaque Assay Office & Quebec Dept. of Mines Logged by T. Koulomzine and R. W. Dagenais Hole No. 57-3

Core Housed at Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/ton
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			Q.D.L.
		3/4" quartz well mineralized with pyrite at 1118'6"			
		3/4" quartz at 1128'7"			
	1176'6"	Andesite, fine grained with numerous quartz-carbonate cracks and some pyrite in cracks.			
		1163'8"-½" quartz and pyrite and some magnetite			
		3" quartz with pyrite and magnetite at 1166'			
		1" quartz " " " at 1167'6"			
		1" heavy pyrite + magnetite at 1169'1".			
		Sample 1165'4"-1168'2" B. A.O. Au	57-326	2'10"	
				Au	Nil
				Ag	Nil
	1208'1"	Silicified zone, fine to medium grained; grey-blue in color.			
		Strong brecciation between 1176'6"-1185' and again between 1192'3"-1208'1" with considerable pyrite mineralization at 1200'5"-1200'0" and between.			
		Major feature is a fine grained andesite dyke from 1187'8" and 1193'4".			
		Sample 1200'5"-1205'0" B.A.O. Au	57327	4'7"	
				Au	Nil
				Ag	Nil
		SAmple 1205'0"-1208'1" B.A.O. Au	57-328	3'0"	
				Au	Nil
				Ag	Nil
	1227'0"	Metadiabase, medium grained--chilled borders			
		1" irregular quartz with good pyrite at 1227'0"			
1227'0"	1235'	Siliciceous, fine grained andesite			
1235'	1400'	Metadiabase, grained basic rock with diabasic texture with a ½" fine grained section at 1260'			
		3" quartz feldspar zone at 1246'2"			
		Sample 1245'10"-1248'10" B.A.O. Au	573-29	1'0"	
				Au	0.064
				Ag	0.134
		½" quartz at 1260'6"			
		1" carbonate vein at 1294'			
		8" of weak pyrite mineralization at 1298'10"			
		Fair pyrite at 1306'1"-1308'8"			
		Sample 1306'1"-1308'3" B.A.O. Au	57-330	2'2"	
				Au	Nil
				Ag	Tr.
				Cu	.01
		1" alteration with pyrite at 1309'4"			
		½" quartz calcite at 1311'5"			
		8" alteration + speck of chalcopyrite at 1316'5"			
		Carbonate cracks at 1320'5"; 1321'3"			
		2" quartz carbonate with pyrite and hematite at 1330'5"			
		Sample 1330'0"-1332'8" B.A.O. Au	573-31	2'8"	
				Au	Nil
				Ag	Tr.
		1" quartz carbonate with pyrite and hematite at 1340'3"		Cu	Nil

Bourlamaque assay office

LOG OF DIAMOND DRILLING

Started August 7 /57

Property: WILTSEY-COGHLAN MINES LIMITED — Hole Completed: August [illegible]/57

Location: Block 32 — Level: Surface — Angle: 50° — Bearing: N [illegible] W True

Latitude: 27 + 33 N — Departure: 17 + 42 W — Total Depth: 1402

Assayed by: Bourlamaque Assay Office & Quebec Department of Mines — Logged by: T. [illegible] and R. N. Dagenais — Hole No.: [illegible]-5

Core Housed at: Core shack on property

FROM	TO	DESCRIPTION	SAMPLE No.	SAMPLE Length	VALUE Oz/[illegible]
		Describe over-burden, thickness of clays, sands, gravel, water, boulders, etc. Note whether hole makes enough water to be used in further drilling as water source.			
		¼" quartz carbonate and pyrite at 1348'3" and 1348'6"			
		3/4" quartz-carbonate-epidote-pyrite veinlet with some chalcopyrite follows hole from 1350'1" to 1351'2"			
		Sample 1350'0"-1351'2" B.A.O.	57-3-32	1'2"	
		Au		Au	Nil
		Cu		Ag	Tr
				Cu	
		3" quartz-carbonate epidote & pyrite at 1357'5"			
		SAmple 1357'4"-1357'10" B.A.O.	57-3-33	0'6"	
		Au		Au	Nil
				Ag	0.01
		4" irregular quartz-carbonate, epidote at 1359'			
		1" quartz at 1388'			
		numerous cracks of quartz-carbonate at one and two foot intervals in the rock.			
		- End of Hole -			

Acid Test : True dip at 400' --44°45'
600' --38°00'
1200' --36°00'

63133

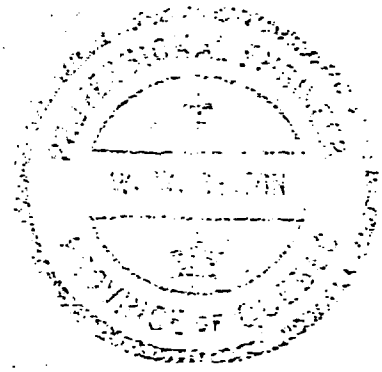
Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-15, Rouyn Twp.

LATITUDE	3100 N
DEPARTURE	1570 ' W
ANGLE	90°
INCLINED LENGTH	768'

INCLINATION

Depth	Collar
Collar	90°
100'	90°
200	90°
300	89°
400	87° 30'
500	84° 30'
600	83° 30'
700	82° 30' N 32° W

DATE STARTED	February 20, 1963
DATE COMPLETED	February 26, 1963
LOGGED BY	J. D. Curry
DRILLED BY	Boyles Bros. Ltd.



Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-15, Rouyn Twp.

FROM	TO	DESCRIPTION
0	58.0	Casing.
58.0	158.0	Massive Andesite Fine grained, massive, grey-green andesite - random quartz-carbonate, pods, stringers throughout - coarse pyrite blebs and cubes to $\frac{1}{2}$" scattered throughout.
158.0	227.0	Brecciated Fragmental Rock (Mixed Composition) Fragmental rock with siliceous pale green fragments up to 3" or 4" across in chloritic groundmass - some tuffaceous banding - highly brecciated throughout - fragments show extreme brecciation and crushing - some highly chloritized basic fragments show similar crushing - some narrow sections, up to 2' are massive in appearance - about 1 to 2% pyrite cubes, up to $\frac{1}{2}$".
227.0	261.5	Massive Andesite Similar.
261.5	262.2	Brecciated Fragmental Rock Similar to 158.0 to 227.0.
262.2	284.5	Massive Andesite Similar - shows brecciation in places especially from 264.0 to 227.0 - random carbonate seams fill fractures - chlorite patches near 272.0 - at 276.2 4" band of chloritic breccia at 45° to core -flow top(?) or tuffaceous-fragmental band.
284.5	286.8	Quartz-Carbonate Vein (50% Andesite Breccia) Brecciated andesite - 50% filled with quartz-carbonate containing 3 to 5% fine pyrite as cubes and some chalcopyrite - one vug contains some specularite flakes - angular fragments are fractured and rimmed with chlorite.
286.8	313.3	Massive Andesite Similar - flow contact (?) at 399.2.
313.3	317.3	Rhyolite Massive, fine grained, black rhyolite - upper contact sheared and filled with quartz-carbonate, some pyrite cubes.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-15, Rouyn Twp.

FROM	TO	DESCRIPTION
317.3	321.7	Massive Andesite Similar - very fine grained - harder than average andesite, perhaps silicified - very chloritic from 321.3 to 321.7 - flow contact.
321.7	410.8	Rhyolite Fine grained, massive rhyolite, mottled with spots of chlorite, up to ¼" - distinctive colour changes, grey-green from 321.7 to 327.0, turning dark grey to 333.0, turning olive green to 342.5, dark grey to 348.0, olive green to 356.0, generally dark grey to 411.0 - irregular pods of carbonate throughout - quartz-carbonate stringers at 80° - sparse pyrite.
410.8	411.1	Aplite Dyke Light grey, fine grained aplite.
411.1	411.3	Massive Rhyolite
411.3	412.4	Aplite Similar - contacts at 45° to core.
412.4	419.7	Massive Rhyolite Massive, fine grained, grey rhyolite - irregular fine chloritic fractures.
419.7	423.0	Fragmental-Tuffaceous Rock Highly chloritized, tuffaceous, fragmental rock - basic composition in general - shows tuffaceous banding.
28.0	442.8	Massive Andesite Similar.
42.8	443.7	Quartz-Carbonate Vein Quartz-carbonate vein with 20% inclusions of angular brecciated andesite - sparse sulphides.
43.7	456.0	Massive Andesite Similar.
456.0	458.3	Fragmental Andesite Highly chloritized fragments to ½" in grey, less chloritic, fragmental matrix - quartz-carbonate stringers, pods, some pyrite from 457.4 to 457.8.
458.3	768.0	Massive Andesite Similar - banding, brecciation at 561.0 to 563.0 - flow top breccia(?) at 563.0 - 20 to 25% quartz-carb[illegible] sparse [illegible]

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-15, Rouyn Twp.

FROM	TO	DESCRIPTION
		epidotization - abundant quartz-carbonate stringers, irregular pods throughout - mottled chloritic speckles from 670.0 to 725.0, coarser grained in appearance - quartz-carbonate zone, 35% from 703.7 to 704.7, with sparse pyrite - core badly ground from 715.0 to 725.0, 40 to 50% recovery.
768.0		End of Hole.
		Hole cemented from 58.0 to 148.0.

Wiltsey-Coghlan Mines Ltd.,
Assay Report for 63-15,
Rouyn Twp.

Assay Report for Hole No. 63-15.

Sample No.	From	To	Width	Oz. Gold
83	284.5	286.8	2.3	Nil
84	442.8	443.7	0.9	Trace
85	457.4	457.8	0.4	Trace
88	561.0	563.0	2.0	Trace
90	703.7	704.7	1.0	Trace

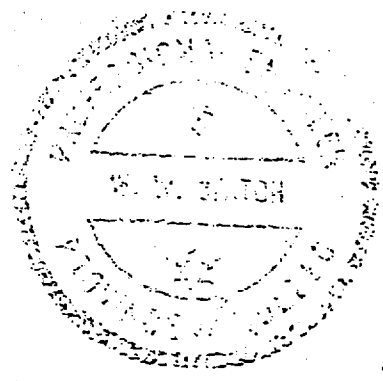
Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-16, Rouyn Twp.

LATITUDE	3230 N
DEPARTURE	1770 W
ANGLE	90° /
INCLINED LENGTH	811'

INCLINATION

Depth	Angle
Collar	90°
200'	90°
300	90°
400	90°
500	89° 30'
600	Poor Test
700	89°

DATE STARTED	February 20, 1963
DATE COMPLETED	February 27, 1963
LOGGED BY	J. D. Curry
DRILLED BY	Boyles Bros. Ltd.



Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-16, Rouyn Twp.

FROM	TO	DESCRIPTION
0	119.0	Casing.
119.0	138.3	Massive Rhyolite Grey-brown, massive rhyolite with mottled darker pods throughout - highly fractured with 70% recovery to 132.0 - sparse pyrite.
138.3	140.7	Fragmental Rhyolite Chloritized angular fragments to 2" in finer rhyolite fragmental matrix - some random orange carbonate stringers - pyrite cubes throughout - strongly magnetic.
140.7	148.6	Massive Andesite Massive, fine grained, chloritic andesite.
148.6	151.2	Rhyolite Massive, fine grained, black rhyolite.
151.2	167.0	Massive Andesite Similar to 140.7 to 148.6 - silicified(?) in part.
167.0	168.8	Massive Rhyolite Fine grained, light grey, massive rhyolite - some brecciation - sparse pyrite.
168.8	170.8	Fragmental Rock (Mixed Composition) Fragmental rock with mixed composition - large chloritic patches (fragments) to 3" - irregular quartz-carbonate pods - cube pyrite - strongly magnetic.
170.8	175.3	Massive Rhyolite Similar to 168.8 to 170.8.
175.3	182.3	Massive Andesite Similar.
182.3	187.1	Fragmental Rhyolite Rhyolite fragments to 4" in finer, chloritized, fragmental groundmass.
187.1	291.9	Massive Andesite Fine grained, massive andesite - some sections uniformly and heavily epidotized - some brecciation-fractures filled with carbonate stringers - some sections spotted and speckled with carbonate generally $\frac{1}{8}$ to $\frac{1}{4}$" - flow top breccia(?) at 245.5.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-16, Rouyn Twp.

FROM	TO	DESCRIPTION
		Mud seams from 256.7 to 257.2 and 281.7 to 282.2 - FAI sparse pyrite - magnetic at 275.0 to 277.0 and 282.0.
291.9	311.8	Fragmental Rock (Mixed Composition) Siliceous and chloritic fragments to 3" in finer chloritic fragmental groundmass of mixed composition yellow carbonate filled fractures in fragments and rim chloritic fragments in places.
311.8	313.5	Massive Andesite Massive, fine grained andesite.
313.5	319.4	Fragmental Rock (Mixed Composition) Similar to 291.9 to 311.8.
319.4	453.4	Massive Andesite Massive, fine grained andesite - some epidotized sections - hard in places - silicified(?) - flow top breccia(?) at 380.7, 404.0 and 435.8 - variable colour from dark-green to grey-white - section from 435.8 (flow to breccia to 445.0) is very light in colour, becomes light-green to 453.4 - one flow?!
453.4	548.3	Massive Amygdaloidal Rhyolite Massive, grey-green rhyolite with amygdules of carbonate - amygdules are generally rounded and one-sixteenth to ⅜" in size - some larger angular carbonate patches to ½" - some chloritic spots - amygdules? - Amygdules less abundant from 512.0 - 4" quartz-carbonate stringers zones with pyrite and some chalcopyrite at 513.0 and 531.0 - sparse pyrite throughout.
548.3	553.9	Andesite Fine grained, grey andesite - very chloritic from 548.3 to 549.2.
553.9	563.3	Fragmental-Tuffaceous Mafic Rock Highly chloritized fragmental, tuffaceous rock, fragments to ¾" - basic composition - highly magnetic disseminated magnetite - irregular orange-yellow carbonate pods and irregular seams - scattered pyrite cubes.
563.3	609.4	Massive Andesite Fine grained, massive andesite - carbonate stringers at 30° to core and at random.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-16, Rouyn Twp.

FROM	TO	DESCRIPTION
609.4	612.1	Fragmental Mafic Rock Chloritic fragments to 1" in chloritized groundmass - irregular carbonate pods, seams.
612.1	623.4	Massive Andesite Similar - brecciated from 621.0 to 623.4, fractures are very chloritic - irregular carbonate stringers, pods, with some quartz.
623.4	623.9	Quartz-Carbonate Vein Quartz-carbonate vein with 15% chloritic inclusions aligned 60° to core - 3 to 5% pyrite.
623.9	645.0	Massive Andesite Similar sparse pyrite.
645.0	661.0	Tuff-Fragmental Rock Basic rock with tuffaceous banding and some fragments irregular carbonate stringers, pods - sparse pyrite - fragments generally ¼" to ½" - strongly magnetic - disseminated magnetite.
661.0	791.5	Massive Andesite Massive, fine grained andesite - spotted with calcite to ¼" from 670.0 to 675.0 - some similar chloritic spots in places - irregular quartz-carbonate stringers sparse pyrite.
791.5	793.0	Rhyolite Breccia Rhyolite breccia, chloritic speckles - 15% quartz and minor carbonate with 5 to 10% fine pyrite - mainly in rhyolite.
793.0	811.0	Massive Andesite Similar to 661.0 to 791.5.
811.0		End of Hole.

Wiltsey-Coghlan Mines Ltd.,
Assay Report for Hole No. 63-16,
Rouyn Twp.

Assay Report for Hole No. 63-16.

Sample No.	From	To	Width	Oz. Gold
86	512.8	513.2	0.4	.005
87	530.8	531.2	0.4	.005
89	623.4	623.9	0.5	.03
91	791.5	793.0	1.5	.33

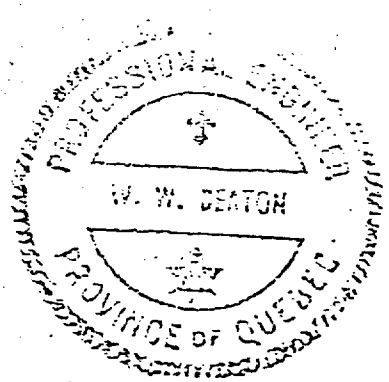
Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

LATITUDE	2920 N
DEPARTURE	2160 W
ANGLE	80°
INCLINED LENGTH	1120.5'

INCLINATION

Depth	Angle	
Collar	80°	N 15° W
100'	77°	
150	77°	
200	77°	
300	77°	
400	77°	N 14° E (?)
500	77°	
600	79°	
700	79°	
800	76° 30'	
900	76° 30'	
1000	77°	

DATE STARTED	February 28, 1963
DATE COMPLETED	March 14, 1963
LOGGED BY	J. D. Curry
DRILLED BY	Boyles Bros. Ltd.



Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

FROM	TO	DESCRIPTION
0	22.0	Casing.
22.0	43.5	Massive Andesite Massive, fine to medium grained andesite - chloritized with epidotized seams in places - abundant pyrite, 3%, as coarse blebs and cubes to ½" and as seams - narrow carbonate stringers at random.
43.5	43.9	Epidotized Quartz Vein Epidotized, glassy white quartz vein with 5 to 7% pyrite as blebs, cubes.
43.9	121.0	Massive Andesite Similar to 22.0 to 43.5, becoming fine grained from 115.0 to 121.0 - sheared chloritic contact at 121.0 with 2" quartz veinlet with fair pyrite - flow contact! - sparse to good pyrite.
121.0	132.0	Massive Andesite Grey, massive andesite, not as chloritic as previous - different flow - brecciated to 125.0 - flow breccia - 10% coarse pyrite from 122.5 to 123.5 - highly brecciated andesite - magnetic.
132.0	159.0	Fragmental Rock (Mixed Composition) Mainly rhyolite fragments in chloritic, fragmental groundmass - rhyolite fragments (bombs) to 3', highly brecciated - variable pyrite from 2 to 15%, average is 3 to 5 - some blebs of chalcopyrite in places, usually associated with chloritic groundmass or with chloritic fractures in rhyolite fragments - heavily epidotized, carbonatized and chloritized throughout - very magnetic throughout.
159.0	132.3	Massive Andesite Similar - highly epidotized, brecciated, carbonated - some orange, siliceous patches- feldspar(?) - some heavy pyrite at 165.0 to 167.0.
132.3	190.7	Massive Rhyolite Massive, fine grained, grey rhyolite - highly epidotized, stringers, patches - some irregular epidotized, chloritized patches with pyrite in central area, rimmed with orange siliceous mineral (feldspar?).
190.7	200.3	Massive Andesite(?) Similar to 132.3 to 190.7, more mafic minerals, softer.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

FROM	TO	DESCRIPTION
200.3	213.3	Massive Rhyolite Similar to 182.3 to 190.7 - 2 to 3% pyrite associated with siliceous, epidotized, rounded, carbonatized patches to ½", rimmed with chlorite.
213.3	215.3	Massive Andesite(?) Similar to 190.7 to 200.3, soft.
215.3	244.2	Massive Rhyolite Similar to previous section - speckled with carbonate throughout.
244.2	246.0	Fragmental Andesite Fragmental, chloritic andesite, fragments to ½" - very magnetic - carbonatized - some pyrite.
246.0	246.9	Massive Rhyolite Similar - 3 to 5% pyrite.
246.9	248.0	Fragmental Andesite Similar to 244.2 to 246.0.
248.0	248.4	Massive Rhyolite Similar.
248.4	248.8	Fragmental Andesite Similar.
248.8	271.4	Massive Rhyolite Similar - highly epidotized, carbonatized - some orange feldspar(?) patches - 2 to 3% pyrite.
271.4	287.3	Massive Andesite Similar - epidotized, some silicification.
287.3	289.7	Rhyolite Light grey, massive rhyolite.
289.7	294.7	Massive Andesite Similar - partly silicified.
294.7	306.5	Fragmental Rock (Mixed Composition) Rhyolite fragments to 12" in a chloritized fragmental groundmass, some basic fragments to 1" - siliceous fragments are highly brecciated - variable pyrite from 2 to 20%, average 5% - very magnetic.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

FROM	TO	DESCRIPTION
306.5	399.0 X	Massive Andesite Similar - quite hard, silicified(?) - much epidote usually associated with milky white quartz stringer 3 to 5% pyrite, locally to 20%, minor chalcopyrite some siliceous, carbonatized spots, amygdules to ⅛" from 267.0 - from 361.7 to 362.4, 20% milky quartz with epidote and 10% pyrite - a few chalcopyrite blebs in places, especially at 391.5.
399.0	405.0	Massive Andesite - Flow Top Graditional from preceding - light grey in colour - quartz-carbonate stringers and 3 to 5% pyrite from 400.0 to 401.5 - from 401.5 to 405.0 becomes schistose at 45° to core - stretched amygdules(?) at 45° to core - some chloritic spots - probably flow top from 399.0 to 405.0.
405.0	465.6 X	Massive Andesite Massive, fine to medium grained andesite - epidote quartz-carbonate stringers at random throughout - variable pyrite 2 to 3%, up to 20% locally - a few chalcopyrite blebs - strongly to weakly magnetic
465.6	469.6	Quartz-Carbonate Seam (70% andesite) Vuggy, quartz-carbonate seam with pyrite, fills fracture paralleling core.
469.6	630.7 X	Massive Andesite Similar - strongly magnetic to 505.0, becomes very weak - 40% quartz with 10% coarse pyrite from 504.3 to 504.7 - strongly magnetic from 550.0 to 630.7 - from 606.7 to 607.7, 20% quartz stringers, 5% pyrite, some chalcopyrite and pyrite blebs.
630.7	631.1	40% quartz-epidote stringers, 15% pyrite, some chalcopyrite.
631.1	651.0 X	Fragmental (Mixed Composition - Mainly fragmental Rhyolite) Angular, black rhyolitic fragments to 12" in chloritic groundmass of mixed composition - average 5 to 7% pyrite with scattered chalcopyrite blebs - very magnetic - at 642.5, 12" quartz vein with epidote and 15% pyrite.
651.0	657.2	Massive Rhyolite Dark black, fine grained, similar in appearance to rhyolite fragments in preceding section - sulphides are sparse, some concentrations of pyrite in places - very magnetic.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

FROM	TO		DESCRIPTION
557.2	691.9	X	Massive Andesite Similar - highly epidotized - sparse pyrite - weakly to strongly magnetic - a few quartz stringer with some pyrite.
691.9	692.1		Quartz Vein Milky white quartz vein, 20% epidotized, chloritize andesite inclusions - 2 to 4% scattered pyrite.
692.1	779.5	X	Massive Andesite Similar - quartz stringers to 2" with epidote and pyrite at 685.8, 686.3 and 693.8 - fills fractures from 719.0 to 720.5 - 20% quartz stringers - 5% pyrite from 755.0 to 756.0 - some amygdules(?) in places, rounded, elongated, carbonatized, siliceous nodules to ¼" - strongly magnetic - 2 to 3% pyrite.
779.5	797.3		Rhyolite (Massive and Fragmental) Massive, dark grey to black rhyolite with fragmental sections - angular fragments to 2" in epidotized, light green, siliceous groundmass - fragments and massive rhyolite are well fractured and brecciated - extremely magnetic - very fine magnetite - not visible crystals - carbonate seams at random, often associated with hematite - some coarse pyrite patches and crystals - generally 2 to 3% pyrite.
797.3	865.2	X	Massive Andesite Similar - from 797.3 to 798.3, somewhat sheared (perhaps tuffaceous banding?) at 45° to core - pyrite generally sparse with a few coarse patches - strongly to weakly magnetic.
865.2	870.5		Fragmental (Mixed Composition) Epidotized, chloritized, carbonatized, angular fragments up to 1" in siliceous fragmental groundmass - strongly magnetic - 5% pyrite cubes and blebs with scattered, finely disseminated chalcopyrite throughout.
870.5	873.3		Massive Andesite Similar - 2 to 3% pyrite as scattered blebs - some amygdules to ⅛" - siliceous, carbonatized, epidotize a few milky quartz pods with pyrite, and rimmed with epidote.
873.5	878.5		Fragmental (Mixed Composition) Quartz Vein Similar to 865.2 to 870.5 - from 874.5 to 878.3 fracture parallels core and is filled with milky quartz and abundant pyrite with minor chalcopyrite - a few slips at 70° to 85° to core shows offsets

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

FROM	TO	DESCRIPTION
		UP to 1" - from 874.5 to 876.0, 20% quartz-carbonat and 7% pyrite, minor chalcopyrite - from 876.0 to 878.3, 40% milky quartz and 10% pyrite, minor chalcipyrite.
878.5	881.1 X	Massive Andesite Similar - silicified from 880.9 to 881.2 with some quartz stringers and pyrite.
881.1	882.9	Fragmental (Mixed Composition) Similar to 865.2 to 870.5 - 10 to 15% pyrite - minor chalcopyrite.
882.9	929.0 X	Massive Andesite Fine grained, epidotized, massive andesite - silicified zone with 20% quartz, some epidote, minor pyrite from 915.8 to 916.2 - weakly magnetic, sparse sulphides.
929.0	930.3	Shear Zone (Andesite) Sheared andesite - schistosity varies from 0° to 45° to core - 15% quartz - 2 to 3% pyrite.
930.3	1043.0 ✓	Massive Andesite Similar - 15% quartz stringers from 935.0 to 936.4, and 5 to 7% pyrite - irregular orange carbonate pods stringers in places - some narrow, milky quartz stringers - 3% pyrite as cubes and blebs to 1" - weakly magnetic - from 1036.7 to 1037.9, 15% milky quartz, epidote and 5 to 7% pyrite - variable grain size, fine to coarse grained - pseudo intrusive.
1043.0	1043.3	Basic Dyke Fine grained, chloritic andesite - chill contacts at 70° to 80° to core.
1043.3	1069.8	Massive Andesite Similar - coarse to fine grained - brecciation from 1046.1 to 1048.0 - orange carbonate seams at random - 20% quartz from 1046.1 to 1046.7 with some carbonate and 2 to 3% pyrite - from 1055.0 to 1056.0, sheared silicified andesite - 40% quartz carbonate - 2 to 3% pyrite - similar quartz-carbonate zones from 1052.7 to 1053.2, 1061.0 to 1061.5, 1066.8 to 1067.2, and 1068.1 to 1069.3 - generally strongly magnetic.
1069.8	1071.5	Quartz Vein Milky quartz vein with some chloritic inclusions from 1069.3 to 1070.0 - sparse pyrite - pyrite is

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-17, Rouyn Twp.

FROM	TO	DESCRIPTION
		abundant along fractures at 70° to core and in inclusions from 1069.8 to 1070.0.
1071.5	1120.5	Massive Andesite Similar - zones with 15 to 20% quartz-carbonate and some pyrite from 1071.5 to 1072.3, 1073.4 to 1073.7, 1082.5 to 1084.2 and 1098.1 to 1098.4 with some chalcopyrite.
120.5		End of Hole.

Wiltsey-Coghlan Mines Ltd.,
Assay Report for Hole 63-17,
Rouyn Township.

Assay Report for Hole No. 63-17

Sample No.	From	To	Width	Oz. Au	Copper
92	43.5	43.9	0.4	0.01	
93	132.0	133.0	1.0	Trace	
94	133.0	138.0	5.0	Trace	0.06
95	138.0	143.0	5.0	Trace	0.03
96	143.0	148.0	5.0	0.01	0.06
97	148.0	154.5	6.5	0.01	0.08
98	154.5	159.0	4.5	Trace	0.06
99	196.5	197.0	0.5	0.01	
1	361.7	362.4	0.7	0.01	
3	400.0	401.5	1.5	Trace	
4	465.6	469.6	4.0	Nil	
5	504.3	504.7	0.4	Trace	
8	606.7	607.7	1.0	0.005	0.17
9	630.7	631.1	0.4	Trace	
10	691.9	692.1	0.2	Trace	
12	755.0	756.0	1.0	Trace	
16	865.2	870.5	5.3	Trace	0.11
17	874.5	876.0	1.5	Trace	
18	876.0	877.2	1.2	Trace	0.08
19	877.2	878.3	1.1	Trace	0.09
20	880.9	881.1	0.3	Trace	
21	881.1	882.9	1.8	Trace	0.09
22	915.8	916.2	0.4	Trace	
23	929.0	930.3	1.3	Trace	
24	935.0	936.4	1.4	Trace	
38	1036.7	1037.9	1.2	0.005	
39	1046.1	1046.7	0.6	0.02	
40	1055.0	1056.0	1.0	Trace	
41	1061.0	1061.5	0.5	0.02	
42	1066.8	1067.2	0.4	0.01	
43	1068.1	1069.8	1.7	0.11	
44	1069.8	1071.5	1.7	0.36	
45	1071.5	1072.3	0.8	0.01	
46	1073.4	1073.7	0.3	0.01	
47	1082.5	1084.2	1.7	Trace	
48	1098.1	1098.4	0.3	Trace	
49	1052.7	1053.2	0.5	Trace	
AVERAGE	1068.1	1071.5	3.4'	.235	

Wiltsey-Coghlan Mines Ltd.,
Assay Report for Hole 63-17,
Rouyn Township.

Assay Report for Hole No. 63-17

Sample No.	From	To	Width	Oz. Au	Copper
92	43.5	43.9	0.4	0.01	
93	132.0	133.0	1.0	Trace	
94	133.0	138.0	5.0	Trace	0.06
95	138.0	143.0	5.0	Trace	0.03
96	143.0	148.0	5.0	0.01	0.06
97	148.0	154.5	6.5	0.01	0.08
98	154.5	159.0	4.5	Trace	0.06
99	196.5	197.0	0.5	0.01	
1	361.7	362.4	0.7	0.01	
3	400.0	401.5	1.5	Trace	
4	465.6	469.6	4.0	Nil	
5	504.3	504.7	0.4	Trace	
8	606.7	607.7	1.0	0.005	0.17
9	630.7	631.1	0.4	Trace	
10	691.9	692.1	0.2	Trace	
12	755.0	756.0	1.0	Trace	
16	865.2	870.5	5.3	Trace	0.11
17	874.5	876.0	1.5	Trace	
18	876.0	877.2	1.2	Trace	0.08
19	877.2	878.3	1.1	Trace	0.09
20	880.9	881.1	0.3	Trace	
21	881.1	882.9	1.8	Trace	0.09
22	915.8	916.2	0.4	Trace	
23	929.0	930.3	1.3	Trace	
24	935.0	936.4	1.4	Trace	
38	1036.7	1037.9	1.2	0.005	
39	1046.1	1046.7	0.6	0.02	
40	1055.0	1056.0	1.0	Trace	
41	1061.0	1061.5	0.5	0.02	
42	1066.3	1067.2	0.4	0.01	
43	1068.1	1069.8	1.7	0.11	
44	1069.3	1071.5	1.7	0.36	
45	1071.5	1072.3	0.8	0.01	
46	1073.4	1073.7	0.3	0.01	
47	1082.5	1084.2	1.7	Trace	
48	1098.1	1098.4	0.3	Trace	
49	1052.7	1053.2	0.5	Trace	
AVERAGE	1068.1	1071.5	3.4'	.235	

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Rouyn Twp.

LATITUDE	3460 N
DEPARTURE	1900 W
ANGLE	80°
INCLINED LENGTH	799'

INCLINATION

Depth Collar	Angle
100'	80°
200	78°
300	78°
350	77°
400	77° S 49° W
500	76° 30'
600	76°
700	74°
	72°

DATE STARTED	February 28, 1963
DATE COMPLETED	March 15, 1963
LOGGED BY	J. D. Curry
DRILLED BY	Boyles Bros. Ltd.

PROFESSIONAL ENGINEER
W. W. BERTON
PROVINCE OF QUEBEC

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Rouyn Twp.

FROM	TO	DESCRIPTION
0	133.0	Casing.
133.0	146.5	Massive Andesite Massive, fine grained andesite - irregular threadlike epidote carbonate seams - some heavy concentrations of pyrite.
146.5	151.3	Fragmental Andesite Fragmental andesite - some siliceous fragments - epidotized, some orange feldspar(?).
151.3	217.3	Massive Andesite Dark gray-green, fine to medium grained andesite rounded chloritic spots to ¼" are abundant from 155.0 to 176.0 - epidote seams throughout - some carbonate seams and speckles.
217.3	224.0	Massive Rhyolite Massive, fine grained, dark green to black rhyolit epidotized - some rounded siliceous, carbonatized nodules to ½", rimmed with epidote - some coarse abundant pyrite in places.
224.0	229.6	Massive Andesite Massive andesite, similar to 227.0 - from 227.0 to 229.6, light gray, soft andesite with some elongated, siliceous carbonatized nodules, rimmed by chlorite, epidote - some pyrite in nodules -flo contact at 227.0!
229.6	230.2	Quartz Vein Quartz vein, milky white with 15% chloritic inclusions - some carbonate - 3 to 5% fine pyrite.
230.2	241.3	Massive Andesite Similar - highly epidotized - glossy quartz nodules with pyrite, generally ⅛" to ½" in places - at 236.6, a rounded quartz pod to 2½" with very coarse pyrite.
241.3	243.2	Similar to 230.2 but highly silicified and epidotiz sharp contacts - rhyolite?
243.2	243.7	Massive Andesite Similar.
243.7	244.0	Similar to 241.3 to 243.2

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Rouyn Twp.

FROM	TO	DESCRIPTION
264.0	265.7	Massive Andesite Similar - some hard sections - silicified - from 264.2 to 265.7, highly silicified, resembles rhyolit
265.7	294.8	Quartz-Feldspar Porphyry Dyke Feldspar and quartz phenocrysts in fine grained groundmass of variable composition - mafic minerals vary from 0 to 20%, mostly quartz and feldspar - chill contact at 265.7 - 2 to 3% pyrite - some chalcopyrite associated with milky quartz stringers.
294.8	334.0	Massive Andesite Similar - 2 to 3% pyrite.
334.0	358.0	(Mixed Composition) Fragmental Rock Siliceous fragments to 6" in chloritized, carbonatize hybridized, fragmental groundmass - highly magnetic - orange carbonate seams in places - highly sheared and brecciated - mud seams from 347.0 to 447.5 and 350.4 to 352.0 - Faults! - highly epidotized from 356.0 to 358.0.
358.0	439.0	Massive Andesite Dark green-black, massive andesite with abundant, irregular epidote-quartz seams and stringers - some orange carbonate - 1 to 2% pyrite - silicified section from 360.2 to 360.7 - rock is very fractured and blocky - slickensided slips with carbonate mud throughout at random angles - main slip zone from 410.5 to 414.0 - Fault! - irregular, quartz-carbonate stringers, seams throughout - pyrite is generally sparse but 2 to 5% in quartz-carbonate - variable weak to very strongly magnetic.
439.0	440.2	Fragmental (Mixed Composition) Angular, chloritic and siliceous fragments to 1" in fragmental, chloritic, carbonatized groundmass - some hematite in groundmass and in random slips - 2% pyrite - very magnetic, disseminated magnetite.
440.2	443.0	Massive Andesite Similar, magnetic - some random slips with hematite - some amygdular carbonate pods at 440.6.
443.0	444.5	Andesite Fault!! Schistose, chloritic andesite at 15° to core - very heavy pyrite, hematite, combined 25%, associated with some vuggy quartz-carbonate.

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Rouyn Twp.

FROM	TO		DESCRIPTION
444.5	451.7		Massive Andesite - Fault! (?) Massive, epidotized andesite - from 450.7 to 451.3 brecciated with much hematite impregnated throughout and 10% coatse pyrite - Fault!? - generally strongly magnetic, weak in fault(?) zone.
451.7	468.3	✓	Fragmental (Mixed Composition) Angular, chloritic fragments to 4",some siliceous fragments in chloritic, carbonatized, fragmental groundmass - very magnetic - some rounded carbonate spots, rimmed with hematite at 452.0 to 453.0 - some heavy epidotization - heavy hematite from 466.6 to 466.8, associated with coarse pyrite and carbonate
468.3	520.1	✓	Massive Andesite Similar, strongly to weakly magnetic - heavy epoditization in places, some heavily chloritized sections - in places much hematite impregnation - hematite is associated with random slips - pyrite is generally sparse - from 475.4 to 475.9, 40% quartz, with epidote, hematite and 7% pyrite.
520.1	523.0		Brecciated Andesite - Fault! Brecciated, chloritic andesite - 30% filled with vuggy quartz-carbonate, coarse, abundant pyrite and some hematite - andesite breccia fragments, heavily impregnated with magnetite.
523.0	538.0	✓	Massive Andesite
538.0	539.2		Quartz Vein Milky quartz vein with 40% altered andesite inclusion 2 to 3% pyrite.
539.2	549.0		Massive Andesite (Some fragmental) Generally massive, chloritic andesite with some fragmental sections - highly epidotized in places - 2 to 3% pyrite.
549.0	565.9	✓	Massive Rhyolite Massive, grey to black rhyolite - some amygdular sections, siliceous, carbonatized amygdules to 2" - random carbonate stringers - epidote is usually associated with quartz-carbonate stringers and heavy pyrite - generally 3 to 5% pyrite, up to 15% locally - foliation at 30° to core at 565.2 - magnetic - 20% quartz-carbonate with epidote and 10% pyrite from 635.5 to 636.1, similar from 560.2 to 561.0.
565.9	566.1		Mud Seam - Fault!

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Rouyn Twp.

FROM	TO	DESCRIPTION
566.1	570.3	Massive Rhyolite Similar to 549.0 to 565.9 - magnetic.
570.3	570.9	Fault Zone! (Quartz-Carbonate) Vuggy quartz-carbonate with some hematite - vugs contain 10 to 15% pyrite - chloritized - foliation in vicinity is 55° to core.
570.9	591.7	Massive Rhyolite Similar to 549.0 to 565.9.
591.7	598.0	Fragmental Rhyolite Grey-blue, fragmental rhyolite - fragments to ½" - some sections resemble porphyry, some rimmed feldspar very magnetic - very fine magnetite crystals visible in places - crystals to ⅛" - 2 to 3% pyrite, locally to 10%.
598.0	612.0	Massive Rhyolite Similar, much epidotization - generally sparse pyrite strongly magnetic.
612.0	619.7	Fragmental Rhyolite Angular, black, siliceous fragments to 4" in chloritized, epidotized, siliceous, light green, fragmental groundmass - fine pyrite, 3 to 5% with some chalcopyrite - strongly magnetic.
619.7	639.0	Massive Rhyolite Similar - very poor core recovery, 50% - blocky, fractured rock - 3 to 5% coarse pyrite blebs, cubes - some chalcopyrite blebs, minor - slips, fractures at random orientations throughout.
639.0	639.2	Mud Seam Fault!
639.2	653.3	Massive Andesite Massive, fine grained andesite - epidotized, some shearing at 10° to core at 642.0 - slips and fractures at random angles, most prominent parallel to core - 2 to 4% pyrite blebs and cubes.
653.3	654.0	Mud Seam Fault! Mud seam and ground core.
654.0	657.0	Shear Zone - Quartz-Carbonate Veining Schistose, silicified, brecciated andesite - schistosity is 30° to core - 20% milky quartz with carbonate and 15% pyrite, some patches to 2".

Wiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Rouyn Twp.

FROM	TO	DESCRIPTION
657.0	665.0	Massive Andesite Similar - some chloritic patches - mud seams, ground blocky core from 663.0 to 665.0 - Fault!
665.0	666.5	Quartz Vein Milky white quartz with 10% chloritic, sheared inclusions - upper and lower contacts show brecciate quartz, recemented by later, glossy quartz - patchy pyrite to 1" in places, probably related to later quartz.
666.5	668.0	Shear Zone - Quartz-Carbonate Shearing 25° to 30° to core - 20% milky quartz with carbonate - 10 to 15% pyrite as fine disseminate cubes and some patches.
668.0	668.7	Quartz Vein Similar to 665.0 to 666.5 - 1 to 2% pyrite associated with later quartz.
668.7	670.5	Shear Zone- Quartz-Carbonate Similar to 665.5 to 668.0 - schisosity at 0° to 20° to core - fine cubes pyrite patches and dissemination 10 to 15%.
670.5	677.4	Quartz Vein Similar to 665.0 to 666.5 - 50% sheared wall rock from 670.5 to 671.8 - schisosity is 0° to 10°, very contorted - 2 to 3% pyrite as coarse cubes and fine disseminations.
677.4	678.1	Silicified Andesite Silicified andesite with milky quartz from 677.8 to 678.1 - 3 to 5% fine pyrite mainly in andesite.
678.1	680.7	Shear Zone Sheared andesite - schistosity at 30° to core - 10% quartz-carbonate, 5% pyrite.
680.7	692.4	Massive Andesite Similar - 3 to 5% pyrite - strongly magnetic.
692.4	696.0	Fragmental (Mixed Composition) Chloritic fragments to 1" in siliceous, epidotized, fragmental groundmass - variable 1 to 10% pyrite - strongly magnetic.
696.0	711.3	Massive Andesite Epidotized, chloritized, hard, massive (andesite) - generally sparse pyrite - from 710.0 to 710.6, 15% pyrite blebs - minor chalcopyrite.

Hiltsey-Coghlan Mines Ltd.,
Diamond Drill Log,
Hole No. 63-18, Bouyn Twp.

FROM	TO	DESCRIPTION
711.3	715.2	Massive Andesite Dark green, massive andesite (or dacite) - quite hard, silicified or dacitic(?) - sparse pyrite but much fine disseminated magnetite - extremely magneti
715.2	718.2	Fragmental - Brecciated Basic, brecciated, fragmental rock - carbonate seams at random - 5 to 7% pyrite - extremely magnatic.
718.2	721.5	Massive Andesite Similar to 711.3 to 715.2 - magnetic.
721.5	799.0	Massive Dacite Similar but heavily epidotized - strongly to very strongly magnetic.
799.0		End of Hole.

LOG OF DIAMOND DRILL HOLE

No. 58-1

Property: Miltasey-Coghlan Mines Limited Hole started: Jan.13, 1958 Finished: Feb.6, 1958

Location: Township: Rouyn Twp. Range or Conc: Lot: Claim No. Block 32

Line: 24 + 00 W Station: 33 + 00 N Coordinates: Lat: Dep:

Bearing: (MARK WHETHER TRUE OR MAGNETIC) Dip at Collar: 90° Total Length: 1258'

Logged by: T. Koulomzine & R.W. Dagenais Assayed by: Bourlamaque Assay Office

Core housed at: core shack, station 20N, line 24E Contractor: Inspiration D.D. Co. Ltd.

Overburden: 10' water, 25' mud, 25' boulder clay (DESCRIBE: CLAY, SAND, BOULDERS) Days spent piping: 2

Methods used in piping: Straight piping (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) Casing: removed: making water: no; left in hole: 6' below water level times cemented: none

Dip & Compass tests: core length	reading:	Acid tests: Corrected readings:	Compass tests: Dips:	Bearings:

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES		HOIZONTAL PROJECTION		VERTICAL PROJECTION		MAGNETIC BEARINGS		N – S PROJECTIONS		E – W PROJECTIONS	
	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Cu%
0	70.	Casing						
70.	149.5	Dacite, mainly medium grained, light grey & massive but well fractured (6 per ft). Fractures filled by quartz, carbonate, epidote, pyrite and rarely hematite forming tiny veinlets throughout. Epidotization very insistent throughout. Several short vuggy epidotized quartz-carbonate feldspar veinlets of up to 1 inch thick between 73' & 82' with pyrite and trace of chalcopyrite. Best section 80 - 82.5						
		Sample	58-1-1	2.5'	80.	82.5	0.002	0.10
		1½ barren quartz at 95.2						
		Sample	58-1-7	.5	95.	95.5	0.002	
		several tuffaceous contacts between 128 & 142. 1" bleaching at 128.7 with pyrite 6" milky quartz, well fractured and containing pyrite bordered by bleached contacts						
		Sample	58-1-2	2.	135.5	137.5	0.003	
		Sample	58-1-3	3.	139.	142.	trace	✓
		trace of chalcopyrite and sphalerite.						
149.5	285.0	Rhyolite, occasionally dacitic, mainly fine grained, well fractured and criss-crossed by numerous epidote veinlets. Highly siliceous, grey with dark blue tint as color. Veinlets often carrying crystals of pyrite. Generally slightly amygdular throughout. Pyrite in places up to 5-10% . 4" epidotized at 186.0 - barren						

Property: Grey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON			
			NUMBER	LENGTH	FROM	TO	Au	Cu %	Ni	
		2" irregular quartz at 198.1, some pyrite 201- 210.5 dacite flow, medium grained 4" vuggy quartz at 213.8 with some feldspar and pyrite								
		Sample	58-1-4	2.	213.	215.	Trace			
		Generally becoming well broken up after 215: 1" irregular quartz feld at 238.5 250 - 254 Rhyolite had distinct green color 3" irregular quartz at 257.5 with pyrite and feldspar & epidote alteration and trace of chalcopyrite ½" vuggy quartz at 263.4 3" vein of 50% massive pyrite and trace of chalcopyrite at 267.2								
		Sample	58-1-5	0.7	267.	267.7	0.005	0.37	Nil	
		Sample	58-1-6	1.5	268.5	270.	Nil.			
		6" 20% irregular and vuggy quartz feldspar at 268.0								
85.	299.	Rhyolite becoming spherulitic between 285 & 299. 287 - 293 high degree of epidote or other zoisite alteration up to 50% of rock, no veining.								
299.	341.5	Rhyolite (as above). Broken up character disappears around 310. 318 - 320 well brecciated. Tiny vuggy veinlets bearing epidote, quartz and cubes of pyrite are common throughout rhyolite as a rule. 6" irregular vuggy veining at 322 and 324. 328 - 330 brecciated rhyolite 333 - 337 " " considerable pyrite in cracks between 315 and 341.5								
341.5	374.	Dacite, very siliceous, mostly medium grained with fine grained contacts, olive green in color, slightly amygdular and fairly massive, cut only by few wafer-thin carbonate veinlets (2 per foot). Almost barren except for scattered cubes of pyrite.								
74.	432.	Rhyolite, highly siliceous, mostly fine grained, generally less broken up and altered than first rhyolite. Grey-blue to greenish blue in color, well fractured and broken up. Occasionally slightly amygdular and spherulitic. Criss-crossed by numerous wafer thin carbonate-epidote stringer (5 per foot). Trace of chalcopyrite at 408.5 in 2" irregular veinlet with mostly carbonate and epidote.								
432.	492.5	Dacite, mostly medium grained, varying from grey-blue to greenish blue in color and fairly massive 2" irregular vuggy veinlet with quartz and pyrite and specks of chalcopyrite at 450.8 8" irregular brecciation and quartz-carbonate with 5% pyrite at 473.5 running about 45° to core axis. 1" quartz with epidote at 482.2								
92.5	562.5	Andesite, mostly medium grained, dark green, but quite siliceous. Epidote alteration along cracks and around quartz veinlets very common. 506 - 507 broken up, core well epidotized. Extreme epidote alteration with some quartz and feldspar and 30% pyrite between 507 and 508.5								
		Sample	58-1-8	2.	507.	509.	Trace			
		535 - 555 Andesite quite coarse grained and which resembles older gabbro in appearance i.e. texture and mineral composition.								
562.5	573.5	Rhyolite, aphanitic, siliceous, extremely brecciated and core between 561 and 595 generally well broken up. 1" irregular quartz at 566 with some pyrite.								
73.5	674.8	Dacite, fine grained, varying from olive green to blue green, well broken up. 3" irregular quartz-carbonate in breccia at 580.6 ½" quartz at 598.5 Oxidized hematite filling some cracks particularly around 600 - 610 Lost core between 618.8 to 619.8 and 621 - 622. 625 slightly less broken up.								

Page No. ...

LOG OF DIAMOND DRILL HOLE

No. 58-1

roperty: Wiltsey Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag	Cu%		
674.8	684.8	Rhyolite, broken up, fine grained, amyrdular, fractured, the fractures filled with quartz, carbonate, epidote, hematite and pyrite.									
68 8	692.3	Dacite, medium-grained, olive green									
692.3	696.3	Rhyolite (as above).									
69 S	700.0	Dacite, as above.									
70..0	700.6	Rhyolite, brecciated and vuggy mineralized with 10% pyrite									
		Sample	58-1-9	1.5	700.	701.5	0.002				
70 6	846.5	Dacite, occasionally rhyolitic, medium grained, varying from olive green to grey green in color. Extremely broken up and highly altered. Very few sections of core over 5" or 6" in length. Occasionally tuffaceous ½" vuggy barren quartz at 715.3 Lost core 726.5 - 727.1; 729 - 730 Few inches of granular rock dust, possible fault gouge at 733.5. 741 - 742 highly talcose and chloritic, soft and ~~slightly~~ well sheared. 2% pyrite and some chalcopyrite with irregular quartz and carbonate veining.									
		Sample	58-1-10	1.	741.	742	0.060	0.02	0.17%		
		Lost core 759 to 760 and 761.8 to 762.4 Tuffaceous section around 765 (bedding 35° to core axis) Quartz vein 765 - 766.8, well fractured with some carbonate and minor pyrite.									
		Sample	58-1-11	1.7	765.	766.7	0.01				
		6" quartz-carbonate veinlet at 40° to core axis at 787. and ½" quartz-carbonate at 788.5 and 789.5 with pyrite and trace of chalcopyrite.									
		Sample	58-1-12	2.	787.	789.	0.02	0.03	0.10%		
		8" quartz-carbonate at 790.3									
		Sample	58-1-13	2.	789.	791	0.025	0.02	0.15%		
		1" carbonate at 793.4 795 - 797 2' irregular quartz-carbonate veining 798.8 - 802.7 quartz vein (35° to core axis) milky quartz with 3% carbonate and about 2% pyrite Well fractured.									
		Sample	58-1-14	3.	791.	794	0.03	0.02	0.12%	0.015	
		Sample	58-1-15	2.5	794.	796.5	0.002	0.02	0.10%	Nil	
		Sample	58-1-16	2.3	796.5	798.8	0.03 0.09	0.02	0.10%	0.001	
		Sample	58-1-17	1.2	798.8	800.0	0.59 0.64 0.66	0.71	0.05%	0.656	
		Sample	58-1-18	1.0	800.	801.	0.70 0.58 0.67	0.32	0.05%	0.500	Quebec 0.412 Au 3.8'
		Sample	58-1-19	1.6	801.	802.6	0.22	0.18	0.05%	0.175	
		Sample	58-1-20	2.4	802.6	805.	0.007	0.02	0.12%	Trace	
		Average 798 to 802.6 Au 0.494 oz per ton over 3.8' (4.6')					0.398				
		20% irregular quartz with 5% pyrite between 808 & 809 surrounding rock bleached and silicified ½" irregular quartz and pyrite at 812.									

35° to core axis

LOG OF DIAMOND DRILL HOLE

No. 58-1

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au
		Sample	58-1-21	2.8	805.	807.8	0.005
		Sample	58-1-22	1.5	807.8	809.3	0.002
		Sample	58-1-23	1.7	809.3	811.0	0.002
		Sample	58-1-24	2.0	811.0	813.0	Trace
		818.8 - 820 silicified zone with 2" vuggy quartz and pyrite and epidote alteration					
		Sample	58-1-25	1.2	818.8	820.	0.02
		½" barren quartz 840.4 844 to 846: tuffaceous and agglomeratic with 3% pyrite and irregular quartz carbonate veining.					
		Sample	58-1-26	2.5	844.	846.5	0.025
8 .5	860.	Andesite, medium-grained, massive, grey-green 859 - 859.8 siliceous and tuffaceous contact zone with some pyrite					
		Sample	58-1-27	1.5	858.5	860.	0.025
8...	908.8	Andesite, mostly medium grained, dark green and massive Irregularly spotted by occasional amygdules and blebs of pyrite. Criss-crossed by few thin carbonate and epidote stringers (about 3 per foot). 3" irregular quartz carbonate at 875.4 and trace of pyrite.					
		Sample	58-1-28	1.0	875.	876.	0.002
		½" barren quartz at 902.3					
908.8	941.	Andesite, dacitic, coarse grained in center for 20' but with gradational contacts (porphyritic andesite). Irregularly speckled by tiny pyrite cubes and occasional specks of chalcopyrite at 931. Fracturing much less than normal with only about 1 per foot.					
941.0	974.	Rhyolite, aphanitic, dark blue, 50% extremely brecciated remainder well cracked (12 per foot). up to 5% pyrite in some spots but mostly barren. Gradually changing around 974 into medium-grained grey-blue dacite.					
		Sample	58-1-32	2.5	966.5	969.0	0.002
9 4.	1066.	Dacite, mostly medium grained, grey-blue and massive very siliceous, mineralized with scattered cubes of pyrite up to 1%, moderately cracked ½" open vuggy quartz at 984.2 and fractured (2 or 3 per foot). 1" quartz with 5% pyrite well fractured.					
		Sample	58-1-29	0.5	990.	990.5	0.002
		Coarse grained 998 - 1005.					
		Contacts aphanitic 1025 to 1030, brecciated and tuffaceous contact zone. Dacite, medium grained, grey blue, as above 1" quartz with ½" bordering alteration 5% pyrite at 1042 also some very fine grey-blue mineralization, possibly molybdenite.					
		Sample	58-1-30	0.7	1041.8	1042.5	0.005
		½" irregular pyrite at 1062.7 and trace of chalcopyrite 8" contact zone at 1086 with ½" quartz.					
(5.	1092.5	Rhyolite, mostly fine grained and dark blue or light grey. Highly siliceous, massive and well fractured (8 per foot by mostly hair-thin carbonate stringers. Generally slightly amygdular. Finely spherulitic between 1074 and 1080. 2" greyish silicification at 1083.5 and 1" at 1085.5 siliceous contact zone between 1091 and 1094					

Page No. ....

LOG OF DIAMOND DRILL HOLE

No. 58-1

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON			
			NUMBER	LENGTH	FROM	TO	Au	Cu		
1[illegible]2.5	1150.3	Dacite, medium grained, dark grey, massive, little fracturing barren ⅛" quartz at 1133.5 and ¼" quartz at 1134.1 with 5% pyrite								
		Sample	58-1-32a	0.8	1133.4	1134.2	0.002			
1150.3	1183.8	Rhyolite, varying pink to dark blue, aphanitic, generally very well fractured and containing up to 3% amygdules which have been silicified and generally contain patches of pyrite. 1177.2 to 1180.0 10% quartz-carbonate veining on well brecciated rhyolite with average of 3% pyrite. (bedding approx. 50° to core axis).								
		Sample	58-1-33		1177.5	1180.	0.008	0.12		
		3" 30% silicified quartz veining at 1180.5								
		Sample	58-1-34	0.7	1182.2	1182.9	0.008			
		Carbonate veinlets have a peculiar orange to reddish colour through this section of rock. Very highly brecciated and silicified between 1182 and 1183.8								
11[illegible].8	1258.	Dacite, medium grained, grey, massive, very little fracturing. ⅛" quartz with 10% pyrite at 1217.7								
1258.		End of hole.								

LOG OF DIAMOND DRILL HOLE

No. 58-2

Property: Wiltsey-Coghlan Mines Limited Hole started: Jan 17, 1958 Finished: Feb 7, 1958

Location: Township: Kouyn Range or Conc: ____ Lot: ____ Claim No. Block 32

Line: 21 + 50N Station: 33 + 00N Coordinates: Lat: ____ Dep: ____

Bearing: ____ (MARK WHETHER TRUE OR MAGNETIC) Dip at Collar: 90° Total Length: 1055'

Logged by: T. Koulomzine & R.W. Dagenais Assayed by: Bourlamaque Assay Office

Core housed at: core shack, station 20N, line 24E Contractor: Inspiration D.D. Co. Ltd.

Overburden: 10' water; 30' mud; 65' sand and clay (DESCRIBE: CLAY, SAND, BOULDERS) Days spent piping: 3

Methods used in piping: Straight piping to 95'-leage finder (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) Casing: 105' recovered; removed: ____; making water: No; left in hole: 6' below water level; times cemented: none

Dip & Compass tests: core length ____ reading: ____ Acid tests: Corrected readings: ____ Compass tests: Dips: ____ Bearings: ____

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES		HOIZONTAL PROJECTION		VERTICAL PROJECTION		MAGNETIC BEARINGS		N – S PROJECTIONS		E – W PROJECTIONS	
	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON
			NUMBER	LENGTH	FROM	TO	Au
0	105.	Casing					
105.	166.2	Dacite, fine grained to aphanitic, very siliceous, light grey, moderatly blocky and broken up. Consistent fracturing (3 per ft.) with dominant epidote alteration along cracks. (bedding 45° -to 50°to core axis) 3" quartz-carbonate-feldspar vein with some pyrite at 134' Minor fault and ½" fault gouge at 135.6; well but irregularly brecciated between 125 & 150.					
6.2	271.	Andesite, dacite, medium grained, light green, first two feet well brecciated. Criss-crossed by wafer thin carbonates and epidote stringers (6 per foot) fairly massive 6" irregular 30% pyrit at 170.1 - 170.7 9" 60% milky quartz at 222.9 and 6" milky quartz at 224.1 Surrounding rock bleached, very little pyrite mineralization					
		Sample	58-2-1	1.5	223.	224.5	Trace
		Sample	58-2-2	1.5	224.5	225.	Nil
		1" quartz with gradually more brecciated after 255.					
1.	360.	Breccia, rhyolitic occasionally dacitic in composition. Extremely well broken up and highly altered, vuggy and some irregular pyrite about 1% to 2% occasional amygdules common. 2" irregular quartz at 335.5 Generally becoming more massive after 360.					
0.	497.5	Rhyolite, dacite, fine grained, highly siliceous					

LOG OF DIAMOND DRILL HOLE

No. 58-2

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	SAMPLES LENGTH	SAMPLES FROM	SAMPLES TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au
		occasionally very vuggy and altered along cracks in rock Grey in colour with bluish tint. Moderatly broken up 3" irregular vuggy quartz at 377.5 with 2% pyrite. tiny slip with irregular quartz veining at 379.5 2" quartz-carbonate at 385. ½" vuggy quartz with pyrite and trace of chalcopyrite almost paralleling vein at 393. 417 - 422 breccia zone with slight shearing and highly altered and bleached with occasional cherty quartz and carbonate stringers. No mineralization except few scattered pyrite cubes, slickensides at 418.2					
		Sample	58-2-3	3.	417	420	0.005
		Sample	58-2-4	2.	420	422	0.005
		vuggy character of formation almost dies out around above zone for 15' on either side (@ 418.2) -Altered vuggy character reappears about 435. Rock occasionally brecciated. Composition generally varies from aphanitic rhyolite to fine grained dacite. 6" of vuggy quartz-carbonate at 467 Generally rest of rock between 435 and 475 spotted by 1 or 2 " vuggy veinlets for about 2 per foot. 1' irregular vuggy quartz veining at 475. with 10% pyrite					
		Sample	58-2-5	1.	475	476	0.005
		well brecciated between 487 and 491.5 up to 5% pyrite.					
		Sample	58-2-6	2.5	487	489.5	0.002
		Sample	58-2-7	2.3	489.5	491.8	0.005
497.5	510.5	Rhyolite, aphanitic and dark blue; gradually becoming spherulitic between 497.5 and 510.5 Irregular zoisite alteration up to 25% of rock sporadically distributed over short length (this short section compares favorably and very closely to 285 - 299 in hole 58-1).					
510.5	548.	Rhyolite as above. Well brecciated between 518 and 523 with irregular alteration and veining and up to 5% pyrite in places.					
		Sample	58-2-8	2.5	518.	520.5	0.003
		Sample	58-2-9	2.5	520.5	523	0.003
		Very strong brecciation between 526 and 535. barren of mineralization 539 - 541 flow breccia, 2% pyrite Irregular veining at 541.5 with 15% pyrite					
		Sample	58-2-10	2.	538.5	540.5	Trace
		Sample	58-2-11	2.	540.5	542.5	0.005
		(some signs of bedding indicate 30° to core axis) 547-549 irregular quartz and carbonate veining in tuffaceous contact zone with 1% pyrite.					
548.	578.8	Dacite, grey blue, mostly fine grained. Spotted by occasional pyrite cubes. 548 - 560 criss-crossed by numerous thin carbonate stringers. 553 to 557 very siliceous and aphanitic 1" 5% pyrite at 556. 576 - 577.5 Hematite in fractures.					
578.8	584.2	Dacite, coarse and medium grained, massive					
584.2	605.	Rhyolite, aphanitic to fine grained, varying from pale blue to dark blue. 1" barren quartz at 585.2 spotted by several large amygdules up to ¼" across at 599.					
605.	625	Dacite, fine grained, grey, massive. 619 - 622 aphanitic and siliceous 3" 20% quartz with 5% pyrite at 625.2 at contact					

Page No. 3

LOG OF DIAMOND DRILL HOLE

No. 58-2

Property: Wiltsey Coghlan Mines Ltd.

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag	Cu	OPT Au
25.	677.7	Rhyolite, aphanitic to fine grained, siliceous 3" irregular vuggy veining at 628. 20% epidote and quartz veining and alteration between 634 to 635 and 640 to 644 with up to 15% pyrite								
		Sample	58-2-12	1.5	633.5	635	0.002			
		Sample	58-2-13	2.	640.	642	Trace			
		Sample	58-2-14	2.	642.	644.	Trace			
		criss-crossed by numerous wafer-thin carbonate, quartz and epidote veining with occasional patchy epidote alteration. 1" irregular quartz at 655.9 1" quartz with 6" of epidote alteration and 2% pyrite at 664.2								
		Sample	58-2-15	1.	664	665	0.02			
667.7	798.	Dacite, fine to medium grained, grey-green and massive containing 1% scattered pyrite in cubes. Very massive and normally fracturing (only 4 to 5 cracks per foot) ¼" quartz-carbonate at 687. Quartz vein, 699.3 to 701. milky to blue quartz, well fractured with 2% pyrite and 5% carbonate 701 to 705 bleached and brecciated and silicified. 705 - 706.5 50% irregular quartz veining, and 50% carbonate (as above).								
		Sample	58-2-16	2.	695.	697	Trace			
		Sample	58-2-17	2.3	697.	699	Trace			
		Sample 1st Vein	58-2-18	1.7	699.3	701.	0.35 0.35 0.34	0.46	0,05	0.233
		Sample	58-2-19	2.	701.	703	0.03 0.02	0.02	0.08	0.022
		Sample	58-2-20	2.	703.	705	0.055 0.05	0.12	0.08	0.038
		Sample 2nd Vein	58-2-21	1.6	705.	706	0.245 0.25	0.12	0.08	0.158
		Sample	58-2-22	2.5	708.5	711	0.002			
		Q.D.H. average 0.112 Au over 7.3'								
		Average 699.3 to 706.6 - Au .155 oz per ton over 7.3'								
		Amount of epidotization and fracturing generally decreasing after 725. ¼" quartz-carbonate at 768.5 1" quartz at 783.2 with some pyrite and 1" barren carbonate at 783.6								
		Sample	58-2-24	.8	783.	783.8	0.005			
		1" of irregular hair-thin chalcopyrite stringers and splashes at 791.6 with 20% irregular chalcopyrite.								
		Sample	58-2-25	1.	791.	792.	0.002		0.70%	
		792 - 795 10% irregular quartz-carbonate veining-barren								
798.	918.	Andesite, coarse grained, grey-green, massive with a diabasic texture and criss-crossed by few wafer thin carbonate stringers ¼" quartz epidotization in wall rock at 806. 2" fractured quartz with 10% pyrite at 820.4 1" fractured quartz with 30% pyrite at 824.7								
		Sample	58-2-26	0.5	820.2	820.7	0.002			
		Sample	58-2-27	0.5	824.5	825.0	0.002			

LOG OF DIAMOND DRILL HOLE

No. 58-2

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Cu
		tuffaceous & agglomeratic section 893 to 898 - 20° to core axis - 70° vertical about 3% pyrite. 3" barren quartz-carbonate vein at 901.3						
		Sample	58-2-30	0.7	909.	909.7	Trace	
		generally, andesite well fractured between 900 and 918 with numerous wafer thin quartz carbonate stringers often carrying small amounts of pyrite.						
9[illegible].	1003.	Rhyolite, occasionally dacitic, most often fine grained grey to blue, well cracked and fractured, criss-crossed by numerous wafer thin quartz-carbonate stringers. Sporadically mineralized by 1% pyrite. 1" quartz at 925.3 1" quartz at 942.5 with 30% pyrite.						
		Sample	58-2-28	0.8	942.1	942.9	0.002	0.10%
		1" quartz at 953.8 slickensides at 958. 2" irregular quartz veining at 975.8 with 3% pyrite and trace of chalcopyrite						
		Sample	58-2-29	0.8	975.4	976.2	0.002	
10[illegible].	1055	Dacite, medium grained, grey, massive, moderately fractured with quartz-carbonate stringers (up to 6 per ft.) 2" quartz at 1015.5 with 5% pyrite ½" quartz at 1020. with 15% pyrite 1038 - 1039.5 15% quartz veining and 5% pyrite						
		Sample	58-2-30	2.	1047.	1049.5	0.002	
		tuffaceous contact zone with 2" quartz at 1048.8 1" quartz with 5% pyrite at 1054.						
1[illegible]5		End of hole						

LOG OF DIAMOND DRILL HOLE

No. 58-4

Property: Wiltsey Coghlan Mines Limited Hole started: Feb.12, 1958 Finished:

Location: Township: Rowyn Range or Conc: Lot: Claim No. Block 32

Line: 24 + 00 W Station: 30 + 50 N Coordinates: Lat: Dep:

Bearing: (MARK WHETHER TRUE OR MAGNETIC) Dip at Collar: Total Length:

Logged by: E.W. Dagenais & T. Koulomzine Assayed by: Assayers Limited

Core housed at: core shack station Contractor: Inspiration D. D. Co.

Overburden: (DESCRIBE: CLAY, SAND, BOULDERS) Days spent piping: Core

Methods used in piping: straight piping (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) Casing: removed: making water: left in hole: times cemented:

Dip & Compass tests:

core length	reading:	Acid tests: Corrected readings:	Compass tests: Dips:	Bearings:

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES		HOIZONTAL PROJECTION		VERTICAL PROJECTION		MAGNETIC BEARINGS		N – S PROJECTIONS		E – W PROJECTIONS	
	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL

Hole Vor Abandoned

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON		
			NUMBER	LENGTH	FROM	TO	Au	Ag	Cu
0	30.	Casing.							
30.	57.	Dacite, mostly fine grained, occasionally amygdular, well fractured (6 per ft.) Mineralized throughout with splaches of pyrite average of 3%							
57.	80.	Dacite, strongly brecciated, altered, silicified, pyrite average 5% up to 10% in places.							
0.	155.5	Dacite, few scattered amygdules, fine grained, pyrite moderately cracked (3 per ft.) 3% pyrite. 96 - 97 some bleaching 60% irregular quartz veining 147.3 - 149. with 15% pyrite							
		Sample	58-4-1	2.2	147.0	149.2	0.04	0.03	0.10%
		152.5 - 153.0 60% irregular quartz veining with 5% pyrite							
		Sample	58-4-2	1.8	152.4	153.2	0.035		
5.5	206.3	Dacite, coarse grained, 2% epidotization throughout 1-2% pyrite, fractured (4 cracks per ft.) slightly amygdular 4" 40% pyrite at 163.0 - 163.4 with some quartz							
		Sample	58-4-3	0.7	163.7	164.4	0.002		
		2' 25% pyrite at 174.4							
206.3	206.3	Fault zone with 80% carbonate, 20% quartz some gouge, well broken up							

LOG OF DIAMOND DRILL HOLE

No. 58-4

Property: Hilltop Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Cu%
		Sample	58-4-4	2.0	206.3	208.3	Nil.	
208.3	222.	Dacite, fine grained, well fractured (10 per ft)						
222.	241.5	Dacite, fine grained, irregularly brecciated. 222 - 229 extremely altered and bleached to a soft crumbly composition. 2% scattered pyrite and few quartz stringers. Well broken up from 223 - 225 possible faults.						
241.5	362.	Rhyolite, very fine grained, grey blue, very siliceous, extremely altered by epidotization and well fractured (10 per ft.) Irregular strong brecciation; mineralized with 2% throughout and in some places up to 5% in blebs and patches. Occasional medium grained dacitic sections throughout. 1/2" quartz at 298.3 bordered by 10% disseminated pyrite						
		Sample	58-4-5	1.2	297.5	298.7	0.002	
362.	435.8	Dacite, medium grained, grey-green, very massive, with below normal fracturing (2 real fractures per ft.) several hear-like cracks. Epidote alteration along tiny stringers and in patches throughout. Occasionally amygdular. Scattered pyrite in cubes and in tiny veinlets up to 2% 2" irregular quartz epidote at 375.2 (10% pyrite) 1" quartz at 468.9 barren Several tiny veinlets of chalcopyrite at 419.4 421 - 423 some silicification and irregular blebs of pyrite and traces of chalcopyrite.						
		Sample	58-4-6	1.0	419	420	Trace	0.27%
		Sample	58-4-7	2.5	421.	423	Trace	0.08%
		½" silicified quartz veinlet at 426.3 paralleling core with 5% pyrite and trace of chalcopyrite. 1" breccia with 20% quartz and 2" pyrite at 435.8						
435.8	479.5	Rhyolite, fine grained, blue grey, moderately cross-fractured (6 per foot) and well altered along cracks, pyrite irregular throughout. 1" quartz at 445.4 with several slickensides shears and 5% pyrite.						
		Sample	58-4-8	0.5	445.2	445.7	Trace	
		464.4 - 464.8 brecciated with 10% pyrite and 10% silicification 470 - 472 brecciated with 10% pyrite and 10% silicification and trace of chalcopyrite						
		Sample	58-4-9	1.8	464.	464.8	0.005	
		Sample	58-4-10	2.0	470.	472.	Nil	0.10%
		5" of 60% quartz, 20% epidote and 5% pyrite at 477.5 and trace of chalcopyrite						
		Sample	58-4-11	1.0	477.5	478.5	0.002	0.15%
479.5	550.	Dacite, mostly medium grained, grey, massive with little cross-fracturing (1 per foot) Scattered epidote alteration in patches along cracks amygdular Trace of chalcopyrite at 528. in 4" epidotisation zone with 10% quartz 1" irregular quartz at 543.6 with 5% pyrite and trace of chalcopyrite						
		Sample	58-4-12	0.6	543.4	544.0	0.005	0.17%
		1" quartz at 546.7 with trace of chalcopyrite						
550.	560.	Rhyolite, brecciated and tuffaceous with 2% pyrite.						
560.	613.	Dacite, medium grained, grey, massive, normally fractured (5 per ft.) 1% to 2% scattered pyrite throughout						

LOG OF DIAMOND DRILL HOLE

No. 58-4

Property: Wiltsey Cochlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au				
		1" quartz at 562.5 ½" quartz with 1" epidotization both sides at 577.7 ½" quartz at 582. 600 - 610 core quite blocky 608 - 613 siliceous, fine grained, contact zone									
613.	637.	Dacite, medium grained, grey and massive, with few patches of epidote throughout. Amygdular ½" quartz at 622.8									
637.	655	Rhyolite, irregularly and extremely brecciated, fine grained aphanitic with 3% scattered as cubes & tiny stringers also few scattered chalcopyrite crystals for instance as at 644. 1" irregular quartz-carbonate at 645.8 with 2% pyrite and several slickensides surfaces at 645.6									
		Sample	58-4-13	1.5	645.0	646.5	0.005				
655	737	Dacite, medium grained, grey, very massive, (below normal cross fracturing 1-2 per ft.) Amygdular ½" quartz with 1" few epidote patches scattered throughout 4" epidote alteration & 5% quartz at 713. 2" epidote alteration & 3% pyrite at 721.4									
737.	748	Dacite, brecciated, tuffaceous contact zone									
748.	901	Dacite, mostly medium grained, grey & massive, slightly amygdular throughout. Fracturation and alteration fair to strong but less than other sections of this hole, below 800' alteration almost nil. 4" alteration & 1% pyrite at 753.5 771 - 772 10% irregular quartz veining & 3% pyrite & trace of chalcopyrite									
		Sample	58-4-14	1.5	771.	772.5	0.005	Trace			
		up to 60% irregular quartz and quartz-carbonate veining with silicification & up to 5% pyrite between 776 & 784 (average 20% veining)	58-4-27	2.0	1023	1025		0.003	Trace		
		Samples	58-4-15	1.5	776.	777.5	0.005	Trace			
			58-4-16	1.0	777.5	778.5	0.005	Trace			
			58-4-17	1.5	778.5	780.	0.005	Trace			
			58-4-18	2.0	780.	782	0.005	Trace			
			58-4-19	2.0	782.	784.	0.002	Trace			
		1" quartz at 802.8									
		Sample	58-4-20	0.5	802.7	803.2	Trace				
		4" irregular quartz at 857.0									
		Sample	58-4-21				0.002				
		½" quartz at 884.7									
		Sample	58-4-22	0.5	884.5	885.	0.005				
		½" quartz at 887.6 with 5% pyrite & trace of chalcopyrite Rock gradually becoming more & more fine grained & siliceous from 880 - 900									
901	926.	Rhyolite, fine grained, very siliceous, irregularly extremely brecciated & well altered. Numerous vuggy stringers between 910 & 914 Some shearing & possible fault gouge at 917 and also 2" irregular quartz with 40% pyrite.									
		Sample	58-4-23	0.4	917.	917.4					
		Core between 920 & 930 extremely blocky, 944 - 965. 1" quartz & 5% pyrite at 927.									
926.	992.	Dacite, medium grained, grey, slightly fractured but highly									

Page No. 4

LOG OF DIAMOND DRILL HOLE

No. 58-4

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag			
		broken. Well altered with up to 5% patchy epidote alteration Mostly barren except for 1% pyrite filling cracks 2" quartz-carbonate at 989. 2" quartz-carbonate at 992.2									
992.	1015.	Rhyolite, mostly fine grained, very siliceous, grey-blue, moderately fractured and slightly broken. Barren. Up to 2% scattered patchy epidotization. Few scattered spherulites 1" quartz at 997. Quartz vein 1002 - 1004.3 made up of 40% vuggy quartz and 10% carbonate mostly as irregular stringers. 2% pyrite crystals and 1% scattered crystals of magnetite									
		Sample	58-4-23	1.0	1002.	1003		0.002	Trace		
		Sample	58-4-24	1.3	1003.	1004.3		0.01	Trace		
		Sample	58-4-25	1.0	1004.3	1005.3		0.007	Trace		
		Gradually becoming dacitic around 1015.									
1015.	1061.	Dacite, medium grained, dark grey, very massive. Barren. 1" quartz at 1018. 1" " " 1022.2 20% irregular quartz veining between 1045 & 1046.5 with 5% pyrite.									
		Sample	58-4-26	1.0	1045.9	1046.9		Trace	Trace		
1061.	1132.	Rhyolite, fine grained, very siliceous with conchoidal fractures and 10% scattered epidotization 1066 - 1078 Zone of silicification shearing and irregular quartz veining (at 35° to core axis)									
	VEIN #1	Main vein section 1074.5 - 1078. comprises 60% irregular quartz veining and up to 10% pyrite. Moderately well fractured with few traces of chalcopyrite and sphalerite and possibly galena.									
		Sample	58-4-27	2.0	1066	1068.		0.002	Trace		
		Sample	58-4-28	1.5	1068	1069.5		0.005	Trace		
		Sample	58-4-29	2.0	1069.5	1071.5		0.005	0.02		
		Sample	58-4-30	1.0	1071.5	1072.5		0.005	0.02		
		Sample	58-4-31	1.0	1072.5	1073.5	Cu% 0.03	0.005	0.28	Pb. 1.20	Zn 1.30
		Sample	58-4-32	1.5	1073.5	1075.0	0.07	0.235 {.27 .20	0.05	0.04	Nil
		Sample	58-4-33	1.5	1075	1076.5	0.05	{.22 .20	0.08	0.08	Nil
		Sample	58-4-34	1.8	1076.5	1078.3	0.10	0.245 {.24 .245	0.14	0.06	Nil
		Average 1073.5 - 1078.3 - 0.25 Au over 4.8'									
1078.	1171.	Dacite, coarse grained, gabbroic texture, with chilled contacts both sides. Well fractured (8 per foot) barren.									
1171.	1242.	Rhyolite, very fine grained, dark grey-blue, slightly amygdular. Normally fractured (5 per ft.) bearing up to 2% scattered pyrite. 1" irregular quartz at 1182 with 5% pyrite and 5% chalcopyrite									
		Sample	58-4-35	1.1	1181.7	1182.8	0.07	Trace			
		Irregularly brecciated and altered 1221 - 1226 ½" quartz at 1235.8 Irregular silicification between 1230 and 1235 (contact 15° - 25° to core axis)									
1242.	1277.	Dacite, porphyritic, crystals less than 1/32", groundmass mostly medium grained, grey, amygdular with scattered pyrite in cracks and patchy alteration. (becomes porphyritic at 1257-1272)									

LOG OF DIAMOND DRILL HOLE

No. [illegible]

Property: Wilfley-Cochlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON			
			NUMBER	LENGTH	FROM	TO	Au	Ag	Cu	
[illegible]	1336.	Andesite-dacite, coarse grained, dark grey, massive, normally fractured with fine grained contacts ½" irregular quartz at 1286.5 and 1287.8 Evidence insufficient and rock could be an older gabbro 5" quartz at 1333 with 10% pyrite (at 20° to core axis)								
		Sample	58-4-36	0.6	1332.8	1333.4	0.005			
1336.	1397	Dacite, fine grained, dark grey, normally fractured, blocky Irregularly brecciated. 3" quartz carbonate at 1336.2								
		Sample	58-4-37	1.0	1335.8	1336.8	Trace			
		1" 30% pyrite and epidote veinlet at 1340.5 1" vuggy quartz at 1342.2 2" irregular quartz and 4" alteration with 2% pyrite at 1357.2								
		Sample	58-4-38	1.0	1356.5	1357.5	0.002			
		1365 - 1369 Well brecciated with alteration around 1367								
		Sample	58-4-39	1.0	1367.1	1368.1	0.01			
		1" quartz at 1371.4 with 3" epidote alteration								
		Sample	58-4-40	1.0	1370.7	1371.7	0.002			
		1386.1 - 1386.6 60% quartz and 20% carbonate with 20% pyrite								
		Sample	58-4-41	0.7	1386.0	1386.7	0.005			
		Brecciated contact zone 1395 - 1405 with contacts at 1397 Also 2" silicification at 1396.4								
		Sample	58-4-42	0.5	1396.2	1396.7	Trace			
1397.	1438	Dacite, medium grained, 5% amygdules up to 1/8". Normally fractured and criss-crossed by wafer thin quartz-carbonate stringers. 1435 - 1438 Brecciated and siliceous contact zone								
1438	1459	Andesite, fine grained, dark green, pillowed.								
1459	1475	Dacite tuffs, fine grained, thinly bedded (bedding 30° to core axis) Containing pyrite in blebs and patches up to 2% Very siliceous 1459 - 1465 20% irregular patchy quartz and carbonate veining and highly altered								
		Samples	58-4-43	1.0	1459	1460	Trace			
		Sample	58-4-44	1.5	1460	1461.5	Nil			
		Sample	58-4-45	1.5	1461.5	1463.0	Trace			
		Sample	58-4-46	1.5	1463.	1464.5	Nil			
		2" quartz at 1467 & 1472 with trace of chalcopyrite								
		Sample	58-4-47	0.6	1466.8	1467.4	Trace		0.10	
		Sample	58-4-48	0.5	1471.8	1471.3	Nil		0.07	
1475	1544.5	Dacite, fine grained, grey-green, massive, normally fractured (6 per ft.) barren. Irregularly brecciated occasionally tuffaceous. 1479 - 1485 20% silicification, well brecciated with 10% quartz stringers. 2% pyrite								
		Sample	58-4-49	1.5	1478.5	1480.0	Trace			
		Sample	58-4-50	2.0	1480	1482	Trace			
		Sample	58-4-51	2.0	1482	1484	Nil			
		Sample	58-4-52	1.5	1484	1485.5	Trace			

LOG OF DIAMOND DRILL HOLE

No. 58-4

Property: Military-Coghlan Mines Limited

OM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag	Cu
		4" irregular quartz at 1527.9							
		Sample	58-4-53	0.5	1527.9	1528.4	0.01		
1544.5	1588.	Andesite, medium grained, dark green. 1" irregular quartz with 5% pyrite at 1564. slight shearing with trace of pyrite and ½" quartz at 1580.9							
		Sample	58-4-54	1.1	1580.9	1582.0	0.065		
		Quartz vein, 1585 - 1586.6, slightly cracked and well mineralized with 4% pyrite							
		Sample	58-4-55	1.6	1585.	1586.6	0.002	Tr	0.05
1588.	1602	Dacite, medium grained, grey, massive siliceous and normally fractured.							
1602	1734	Rhyolite, fine to medium grained, grey-blue, occasionally well brecciated and criss-crossed by irregular vuggy quartz and epidote patches and stringers carrying up to 10% pyrite throughout up to 20%. Slightly spheralitic especially around contacts. (Very remarkable characteristic is the extreme alteration of the rock). ½" quartz at 1616.3 with 20% pyrite.							
		Sample	58-4-56	2.0	1616	1618	Nil		0.07
		Trace of chalcopyrite at 1634 3" open vuggy barren quartz at 1660.4							
		Sample	58-4-64	1.0	1660	1661	0.005		
		1665 - 1668 brecciated and silicified with 1% pyrite							
		Test Sample	58-4-65	1.5	1665.	1666.5	Nil		
		Sample	58-4-66	1.5	1666.	1668.	Nil		
		3" open vuggy quartz with pyrite at 1698.5 and 1698.							
		Sample	58-4-67	2.0	1697.2	1699.2	Nil		
		3" same at 1708.5							
		Test sample of section with 20% quartz and up to 5% pyrite							
		Sample	58-4-57	1.5	1708.5	1710.	Trace		0.07
		½" barren quartz at 1712.2							
	1797	Dacite, fine to medium grained, grey, very siliceous, massive, well fractured (10 per ft.) and criss-crossed by numerous wafer thin carbonate, quartz carbonate stringers. Altered up to 20% by patches of epidotization and quartz pyrite 1745.5 - 1748 Quartz vein, slightly fractured and carrying 10% calcite and 5% pyrite (contacts 20° to core axis)							
		Sample	58-4-58	1.5	1744.	1745.5	Trace		
		Sample	58-4-59	1.0	1745.5	1746.5	0.01	0.02	
		Sample	58-4-60	1.0	1746.5	1747.5	0.005	0.01	
		Sample	58-4-61	0.6	1747.5	1748.1	0.005	Tr.	
		Sample	58-4-62	0.9	1748.1	1749.0	Nil		

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LOG OF DIAMOND DRILL HOLE

No. 58-4

Property: Wiltsey-Cochlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON				
			NUMBER	LENGTH	FROM	TO	Au				
97.	1851.	Rhyolite, fine grained, paisley texture, very siliceous and massive, below normal fracturing. Well mineralized with average of 2% scattered pyrite. 4" milky quartz at 1810.1									
		Sample	58-4-63	0.5	1810.	1810.5	0.002				
		Trace of chalcopyrite in cracks and replacing rock.									
1851.	1896.	Rhyolite, fine grained, dark blue, extremely siliceous and very massive. Weakly cross-fractured (1 per ft.) Weakly mineralized with 2% scattered pyrite.									
1896.		END OF HOLE.									

58-5

Wiltsey-Cochlan Mines Limited — Hole started:

Location: Township: Rouyn Twp. Range or Conc: ____ Lot: ____ Claim No. Block 32

Line: 19 + 00 W Station: 33 + 00 N Coordinates: Lat: ____ Dep: ____

Bearing: ____ (MARK WHETHER TRUE OR MAGNETIC) Dip at Collar: 90° Total Length: 909'

Logged by: R.W. Dagenais & T. Koulomzine Assayed by: Bourlamaque Assay Office

Core housed at: Core shack at station 20N, line 24E Contractor: Inspiration D. D. Co. Ltd.

Overburden: 10' water, 40' mud, 92' clay & boulder clay (DESCRIBE: CLAY, SAND, BOULDERS) Days spent piping: 3

Methods used in piping: Straight piping to 133, ledge finder to 142. (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) Casing: removed: ____ making water: no

left in hole: 6' below water level times cemented: none

Dip & Compass tests: core length	Acid tests: reading:	Acid tests: Corrected readings:	Compass tests: Dips:	Compass tests: Bearings: Magnetic	True
300'	89°	89°			
600'	88°30'	88°			
875'			88°	N 12° W	N 25°W
900'			88°	N 28° W	N 42°W

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES		HOIZONTAL PROJECTION		VERTICAL PROJECTION		MAGNETIC BEARINGS		N – S PROJECTIONS		E – W PROJECTIONS	
	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL	CORRECTED	MEAN Cos.	PARTIAL	TOTAL Sin	PARTIAL	TOTAL
0	90°											
00	89°40'	89°50'	0.3	0.3	100	100	N34°W	N34°W .829	.3	0.3 .559	.2	0.2
200	89 20'	89 30'	0.9	1.2	100	200	"	"	.7	1.0	.5	0.7
300	89	89 10	1.5	2.7	99.8	299.8	"	"	1.2	2.2	.9	1.6
400	88 40	88 50	2.0	4.7	99.8	399.8	"	"	1.7	3.9	1.1	2.7
00	88 20	88 30	2.6	7.3	99.9	499.7	"	"	2.2	6.1	1.5	4.2
00	88	88 10	3.2	10.5	99.9	599.6	"	"	2.6	8.7	1.8	6.0
700	88	88	3.5	14.0	99.9	699.5	"	"	2.9	11.6	2.0	8.0
800	88	88	3.5	17.5	99.9	799.4	"	"	2.9	14.5	2.0	10.0
900	88	88	3.5	21.0	99.9	899.3	"	"	2.9	17.4	2.0	12.0
			21.0		899.3				17.4		12.0	

FROM	TO	DESCRIPTION	SAMPLES NUMBER	SAMPLES LENGTH	SAMPLES FROM	SAMPLES TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON
0	142.	Casing.					
142.	172.	Dacite, mostly fine grained, grey, well cracked (6 per ft) filled with mainly quartz-carbonate stringers. ½" quartz plus 2" brecciation at 167.7 ½" quartz at 170.8					
172.	172.8	Quartz, feldspar porphyry dyke, groundmass fine grained, dark grey phenocrysts numerous (over 75% of rock) and composed of crystals of quartz and feldspar up to 1/32" to 1/16".					
172.8	192.	Dacite, coarse grained.					
192.	213.5	Dacite, mostly medium grained, grey, well cracked (10 per ft).					
213.5	222.	Rhyolite, aphanitic, very siliceous, light grey, well cracked and slightly brecciated.					
222.	241.	Andesite, dark green, fine grained and well cracked (10 per foot). Broken core between 237 and 241.					
241.	273.	Rhyolite, very fine grained, grey-blue, well cracked and occasionally brecciated and mineralized with 1% scattered pyrite cubes. Very strongly brecciated between 260-267 Somewhat tuffaceous & bedded around 262 (bedding 25° to core axis).					
273.	375.	Andesite, mainly fine grained, dark green and massive. Moderately well fractured (12 per ft.) - barren 3" 20% quartz-carbonate and 5% pyrite at 301.5					

LOG OF DIAMOND DRILL HOLE

No. 58-5

Property: Wiltsey - Coghlan Mines Ltd.

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag	Cu		
		Sample	58-5-1	.7'	301.3	302.	Nil				
75.	421.	Rhyolite, aphanitic, dark grey-blue, and irregularly extremely brecciated throughout (up to 60%) and mineralized with 2% scattered pyrite and well altered & epidotized 2" fault zone with gouge at 383. 1" quartz at 412.5 with 5% pyrite									
421.	477.	Dacite, grey, medium grained, massive, well fractured 12 per ft., and criss-crossed by wafer thin quartz carbonate stringers									
7.	513	Andesite, fine grained, dark green, massive, normally fractured (5 per ft.). Irregularly tuffaceous throughout amygdular.									
5.	528.	Rhyolite, very siliceous, light grey, aphanitic 1" quartz at 526.2									
528.	556.6	Andesite, fine grained, dark green, occasionally dacitic Normally fractured. 534 - 535.5 breccia with 10% carbonate 2" quartz at 552. with slickensides									
		Sample	58-5-2	.5'	551.5	560.	Nil				
5 .6	593	Dacite, fine grained, dark grey 1" pyrite and slickensides at 559.									
		Sample	58-5-3	1.5	558.5	560.	Nil				
5 .	603	Dacite. Agglomeratic and tuffaceous contact zone									
6 .	909	Andesite, fine grained, green, massive, amygdular throughout. Normally fractured (6 per ft.) 703.4 - 704.4 quartz vein, 60% irregular quartz and sheared silicified rock with 5% pyrite crossing core at 35° with slightly sheared contacts 704.4 - 705.4 - silicification									
		Sample	58-5-4	1.0	702.4	703.4	0.005				
		Sample	58-5-5	1.0	703.4	704.4	0.365	0.23			
		Sample	58-5-6	1.0	704.4	705.4	0.085				
		¼" irregular silicified quartz stringer at 712. Average: 702.4 - 705.4 0.152 oz/ton Au over 3 feet ($5.32) Average: 703.4 - 705.4 0.225 oz/ton Au over 2 feet ($7.88)									
		725 - 727 tuffaceous zone 736 - 736.5 quartz vein 2" thick but with 3" silicified contacts, well fractured and mineralized with 5% pyrite (crossing at 40° to core axis).									
		Sample	58-5-7	0.9	735.8	736.7	0.305	0.17	0.05%		
		2" quartz veinlet at 741. (at 35-40° to core axis)									
		Sample	58-5-8	0.6	740.8	741.4	0.310	0.12			
				0.9	735.8	736.7	0.305				
		Average 735.8 - 741.4		4.1	736.7	740.8	nil				
		Au 0.082 oz/ton over 5.6'		0.6	740.8	741.4	0.310				
		781 - 788 siliceous rhyolitic tuffaceous and slightly brecciated contact zone (bedding 25° to core axis). ¼" quartz 784.4 and up to 5% pyrite scattered between 784 - 786									
		Sample	58-5-9	2.5	783.5	786.	0.005	Trace			
		1" tuffaceous section at 798.5 831 - 832 20% irregular quartz veining & slight shearing and brecciation.									
		Sample	58-5-10				0.005	Trace			

Page No. 3

LOG OF DIAMOND DRILL HOLE

No. 58-5

Property: Wiltsey Coghlan Mines Ltd.

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON				
			NUMBER	LENGTH	FROM	TO					
		1' irregular siliceous tuffs at 840.									
		1/2" quartz-carbonate with 40% pyrite at 853.5									
		Irregular siliceous tuffs between 876 - 890.									
9		End of Hole.									

LOG OF DIAMOND DRILL HOLE

No. 58-6

Property: Wiltsey-Coghlan Mines Limited — Hole started: Feb. 25, 1958 — Finished: March 8, 1958

Location: Township: Block 32 Rouyn — Range or Conc: — Lot: — Claim No.

Line: 17 + 00 W — Station: 34 + 00 N — Coordinates: Lat: — Dep:

Bearing: (MARK WHETHER TRUE OR MAGNETIC) — Dip at Collar: 90° — Total Length: 768.5

Logged by: R. W. Dagenais & T. Koulomzine — Assayed by: Bourlamaque Assay Office

Core housed at: core shack at station 20N, line 24E — Contractor: Inspiration Diamond Drilling Co.

Overburden: 10' water, 80' mud, rest sand and gravel (DESCRIBE: CLAY, SAND, BOULDERS) — Days spent piping: 4

Methods used in piping: straight piping to 156 (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) — Casing: removed: yes — making water: No — left in hole: — times cemented:

Hole dipped [illegible]

Dip & Compass tests: core length		reading:	Acid tests: Corrected readings:	Compass tests: Dips:	Bearings:
550'				87°	S 56° E M - S 68°E true

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES CORRECTED	DIP ANGLES MEAN	HORIZONTAL PROJECTION PARTIAL	HORIZONTAL PROJECTION TOTAL	VERTICAL PROJECTION PARTIAL	VERTICAL PROJECTION TOTAL	MAGNETIC BEARINGS CORRECTED	MAGNETIC BEARINGS MEAN Sin.	N – S PROJECTIONS PARTIAL	N – S PROJECTIONS TOTAL Cos.	E – W PROJECTIONS PARTIAL	E – W PROJECTIONS TOTAL
0	90°						S 68°E	.375		.927		
100	89	89 30	.9	.9	100	100			.3	.3	.8	.8
200	89	89	1.7	2.6	100	200			.4	.7	1.4	2.2
00	88	88 30	2.1	4.7	100	300			.8	1.5	2.0	4.2
00	88	88	3.4	8.1	99.9	399.9			1.2	2.7	3.1	7.3
00	87	87 30	4.4	12.5	99.9	499.8			1.7	4.4	4.1	11.4
600	87	87	5.2	17.7	99.9	599.7			2.0	6.4	4.8	16.2
700	86	86 30	6.1	23.8	99.8	699.5			2.3	8.7	5.7	21.7
69	86	86	4.8	28.6	68.8	768.3			1.7	10.4	4.5	26.2
			28.6		768.3				10.4		26.2	

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	Au	Ag
0	156.	Casing.						
156.	169.	Rhyolite, aphanitic, highly brecciated & silicified, barren						
169.	256.9	Rhyolite, fine grained, pale grey, massive, poorly fractured (2 per ft.) with several short breccia sections. quite a few amygdules 1/4" calcite at 217.7						
256.9	259.9	Andesite, coarse grained						
259.9	262.	Andesite, fine grained						
262	265.	Gradually becoming porphyritic and coarse grained						
265	298	Andesite coarse or even sill of older gabbro						
298	355.8	Dacite, very fine grained, light grey, siliceous, massive and normally fractured (5 per ft.) Barren. Highly amygdular (up to 3%) and up to 1/2" across.						
355.8	359.8	Breccia crystal dike, composed of crystals and fragments up to 1/2" completely recrystallized and silicified with chilled contacts. Almost barren. (see hole 7 at 316)						
		Sample	58-6-1	1.	355.8	356.8	Trace	0.02
		Sample	58-6-2	1.	356.8	357.8	0.002	0.02
		Sample	58-6-3	1.	357.8	358.8	Trace	0.01

VALUES: BASE METAL %% PRECIOUS METAL OZ/TON

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag
		Sample	58-6-4	1.	358.8	359.8	Trace	0.01
359.8	405.	Dacite, fine grained, grey-green up to 20% amygdules, massive. Normally fractured as above.(contacts at 30° to core axis).						
405.	555.	Andesite, fine grained, green & massive. Normally fractured (6 per ft). Some irregular patchy alteration. 421.5 - 422. Brecciated & epidotized with 10% quartz.						
		Sample	58-6-5	0.8	421.2	422.0	0.005	
		slight wafer-thin shearing with gouge at 436.1 1/2" quartz-carbonate at 454.7 475 - Rock becoming quite blocky & broken. 501 - 502.3 VEIN NO. 1 20% irregular quartz veining with 5% pyrite.						
		Sample	58-6-6	1.3	501.0	502.3	0.115	0.02
		1" irregular quartz at 524.						
		Sample	58-6-7	0.5	523.9	524.4	0.002	Trace
5.	584	Acid tuffs, mainly medium grained with few lappilli and numerous scattered quartz crystals throughout. 560 - 575 Bleached to pale buff from normal blue color. Fault zone with 4" breccia & calcite crystals filling at 583.5 and several scattered shears (contacts at 20° 30° to core axis)						
584.	614.	Dacite tuffs mostly fine grained. Fault at 602 with gouge, very broken rock between 602 and 603, & 606 - 609						
4.	630.	Brecciated- hybrid agglomerate, acid lappilli up to 1" Extremely brecciated, pale blue, matrix chloritic - soft						
630	652.5	Dacite flow, fine grained, grey, well cracked						
2.5	685.3	Brecciated, amygdular hybrid agglomerate, both acid and basic fragments in a basic matrix, few amygdules						
685.3	768.5	Andesite, normally fractured, dark green 725 - 726 brecciated with 10% pyrite						
		Sample	58-6-8	1.5	725.	726.5		
		1" irregular quartz at 729.2 becoming 20% tuffaceous after 751.						
8.5		End of hole.						

LOG OF DIAMOND DRILL HOLE

No. 58-7

Property: Wiltsey-Coghlan Mines Limited   Hole started: Feb. 25, 1958   Finished: March 3, 1958

Location: Township: Rouyn   Range or Conc: Block 32   Lot: Claim No.

Line: 14 + 20 W   Station: 34 + 00 N   Coordinates: Lat: Dep:

Bearing: (MARK WHETHER TRUE OR MAGNETIC)   Dip at Collar: 90°   Total Length: 727'

Logged by: R. W. Dagenais & V. Kculomzine   Assayed by: Bourlamaque Assay Office

Core housed at: core shack at station 20N, Line 24E   Contractor: Inspiration Diamond D. Co.

Overburden: 10' water, 80' mud, 65 - 70' gravel and sand   (DESCRIBE: CLAY, SAND, BOULDERS)   Days spent piping: 4

Methods used in piping: straight piping 140 (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) ledge finder 173

Casing: removed: Yes   making water: No
left in hole: times cemented: once at around 200-225

Note 58-7 ...

Dip & Compass tests: core length	Acid tests: reading	Corrected readings	Compass tests: Dips	Bearings
550'			84° 30'	S 82°W M - S 70°W true

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES CORRECTED	DIP ANGLES MEAN	HORIZONTAL PROJECTION PARTIAL	HORIZONTAL PROJECTION TOTAL	VERTICAL PROJECTION PARTIAL	VERTICAL PROJECTION TOTAL	MAGNETIC BEARINGS CORRECTED	MAGNETIC BEARINGS MEAN (Sin)	N – S PROJECTIONS PARTIAL	N – S PROJECTIONS TOTAL (Cos)	E – W PROJECTIONS PARTIAL	E – W PROJECTIONS TOTAL
0	90°						S 70°W	-12° .342		.939		
100	89°	89°30'	0.9	0.9	100	100	S 82°W	S 70°W	.3	.3	.8	.8
[illegible]0	88°	88°30'	2.1	3.0	100	200			.7	1.0	1.8	2.6
[illegible]0	87°	87°30'	4.4	7.4	99.9	299.9			1.5	2.5	4.1	6.7
[illegible]0	86°	86°30'	6.1	13.5	99.8	399.7			2.1	4.6	5.7	12.4
600	85°	85°30'	7.8	21.3	99.7	499.4			2.7	7.3	7.4	19.8
600	84°	84°30'	9.9	31.2	99.5	598.9			3.4	10.7	9.8	29.6
[illegible]0	83°	83°30'	11.3	42.5	99.4	698.3			3.9	14.6	10.5	40.1
7	83°30'	83°30'	3.5	46.0	27.	725.3			1.2	15.8	3.3	43.4
			46.0		725.3				15.8		43.4	

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	Au	Ag
0	173.	Casing.						
173.	218.	Rhyolite breccia, well silicified, no mineral						
2[illegible].	273.6	Dacite, massive, pale grey, amygdular, very fine grained Barren, fractured (2 per ft.) Irregular brecciation between 235 & 242 Quartz vein 235.5 - 236.1 bearing chlorite						
		Sample	58-7-1	0.7	235.5	236.2	Trace	0.02
273.6	300	Dacite, fine to medium grained, grey, massive, becoming fine grained around 300						
3[illegible]	315.3	Dacite, light grey, fine grained. Irregular brecciation occasional patchy alteration.						
315.3	316.6	Breccia crystal dyke (see hole 6 at 356) composed of crystals & fragments recrystallized with chilled contacts and chilled 2" section at 316.						
		Sample	58-7-2	1.0	315	316	Trace	Trace
		Sample	58-7-3	0.6	316	316.6	0.002	Trace
[illegible].6	437.	Dacite, fine to medium, massive, normally fractured (8 per ft.) 1/2" quartz-carbonate at 323.5 barren 1" quartz-carbonate at 331.5 " 2" " " 339.7 " 1" " " 341.1 "						

VALUES: BASE METAL % %, PRECIOUS METAL OZ/TON

LOG OF DIAMOND DRILL HOLE

No. 58-7

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag
		Sample	58-7-4	0.5	339.5	340	Trace	
		Sample	58-7-5	0.4	340.8	341.	Trace	
		357.8 - 358.6 Breccia crystal dyke (as above)						
		Sample	58-7-6	1.0	357.7	358.7	Trace	Trace
437.	440.	Silicified breccia zone with 30% quartz veining and scattered 8% pyrite. Vein No. 1						
		Sample	58-7-7	1.5	437	438.5	0.02	
		Sample	58-7-8	1.5	438.5	440.	0.015	
		Average 437 - 440 0.018 Au over 13.						
0	471	Andesite, fine grained, dark green criss-crossed by numerous wafer-thin quartz-carbonate stringers (10 per foot) massive. Becoming bleached and pale after 450. Irregular silicification between 452 & 453, 468 & 469						
Note: Boxes 450-525 were accidentally dumped resulting reconstruction may err somewhat.		Sample	58-7-9	1.0	452.	453.		
		Sample	58-7-10	1.0	468.	469.		
1.	486.	Acid tuffs, mostly medium grained with few lapilli. Barren of mineralization. Well broken up						
486.	525.	Andesite, fine grained, dark green, well fractured (8 per ft) and slightly broken up (to 525)						
5.	536.	Acid tuffs, mostly medium grained with few lapilli Occasional patchy bleached sections throughout mineralized with 1% pyrite 1" quartz at 529.4 3" irregular quartz at 531.						
		Sample	58-7-11	2.0	529.5	531.5		
536	540.5	Dacite flow, massive fine grained and barren						
0.5	551	Acid tuffs (as above)						
551	559.	Brecciated hybrid agglomarate, composed of brecciated acid and basic fragmentals in andesite chloritic fine grained matrix.						
559.	581	Andesite, fine grained, dark green, massive, normally fractured.						
1.	590.	Hybrid agglomerate (as above).						
0.	645.	Dacite, fine grained, grey, massive, normally fractured 1" quartz at 604.7. (Contact almost paralleling core axis)						
5.	727.	Acid tuffs, fine grained, very siliceous, light grey and well brecciated and carbonitized. Amygdular, almost void of lapilli.						
727.		End of hole.						

LOG OF DIAMOND DRILL HOLE

No. 58-8

Property: Wiltsey-Coghlan Mines Limited Hole started: Mar 10, 1958 Finished: Mar 22, 1958

Location: Township: Rouyn Range or Conc: Lot: Claim No.

Line: 22 + 25 W Station: 34 + 00 N Coordinates: Lat: Dep:

Bearing: (MARK WHETHER TRUE OR MAGNETIC) Dip at Collar: 90° Total Length: 643.6

Logged by: T. Koulomzine & R.W. Dagenais Assayed by: Bourlamaque Assay Office

Core housed at: core shack at station 20N, line 24E Contractor: Inspiration D. D. Co.

Overburden: (DESCRIBE: CLAY, SAND, BOULDERS) 10' water, 50' mud, remainder sand and gravel Days spent piping: 2

Methods used in piping: (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) Straight Piping Casing: removed: yes making water: No; left in hole: times cemented: once 125 - 200'

Dip & Compass tests: core length	reading:	Acid tests: Corrected readings:	Compass tests: Dips:	Bearings:	
470'			85°	S 72°E M	(+ 12°) = S 84°E t

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

CORE LENGTH	DIP ANGLES		HOIZONTAL PROJECTION		VERTICAL PROJECTION		MAGNETIC BEARINGS		N – S PROJECTIONS		E – W PROJECTIONS	
	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL	CORRECTED	MEAN Cos	PARTIAL	TOTAL Sin	PARTIAL	TOTAL
	90						S 72°E M	.104		.994		
100	89	89 30'	.9	.9	100	100	S 84°E T		.1	.1	.9	.9
200	88	88 30	2.1	3.0	100	200	"		.2	.3	2.1	3.0
3	87	87 30	4.4	7.4	99.9	299.9			.4	.7	4.4	7.4
4	86	86 30	6.1	13.5	99.8	399.7			.6	1.3	6.	13.4
5	85	85 30	7.8	21.3	99.7	499.4			.8	2.1	7.7	21.1
600	84	84 30	9.6	30.9	99.5	598.9			1.0	3.1	9.4	29.5
			30.9		598.9				3.1		29.5	

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag
0	116.3	Casing						
116.3	129.	Crystal Breccia dyke, composed of crystallized fragmentals in crystal matrix with chilled contacts.						
2	134	Rhyolite, medium to fine grained, very siliceous, slightly spherulitic, massive. FAULT ZONE 131.5 - 135. Extremely blocky, silicified with some quartz veining at 133.5 Fault gouge at 134.4						
		Sample	58-8-1	0.3	133.5	133.8	0.02	
34.	186.5	Dacite, medium grained, grey, slightly amygdular, massive with very patchy alteration. Rock generally well broken up. 144.5 - 146.5 Fault Zone with some gouge and slickensides at 145.0						
		146.0 - 148.0 20% irregular quartz veining, 5% pyrite and 60% epidotization.						
		Sample	58-8-2	1.0	146.0	147.0	0.03	
		Sample	58-8-3	1.0	147.0	148.0	0.005	
		161. to 170.5 zone of brecciation and irregular silicification with 6" quartz at 161.6 and 6" quartz at 167.0 weakly mineralized throughout with 2% pyrite						
		Sample	58-8-4	1.5	161.6	163.1	0.01	0.02
		Sample	58-8-5	1.9	163.1	165.0	Trace	

LOG OF DIAMOND DRILL HOLE

No. 58-8

Property: Wiltsey Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag
		Sample	58-8-6	1.8	165.0	166.8	Nil	
		Sample	58-8-7	0.8	166.8	167.6	Trace	0.04
		Sample	58-8-8	1.5	167.6	169.1	Trace	
		Sample	58-8-9	1.6	169.1	170.7	0.005	0.02
86.5	192.0	Crystal Breccia, Acid tuff, coarse grained, strongly recrystallized but with only few lappilli, well broken up.						
92	220.	Andesite, medium grained, amygdular, dark green and well broken.						
20.	252	Rhyolite, fine grained, very siliceous, dark blue, well brecciated throughout. Well altered and criss-crossed by numerous (up to 20%) vuggy pyrite filled epidote and quartz cracks and stringers. slightly spherulitic near contacts. Well broken up						
52	342.5	Dacite, medium grained, grey, fairly massive but well fractured (8-10 per ft.) and criss-crossed by numerous vuggy stringers with 10% epidote alteration along cracks and in patches. Well broken up. 2" quartz-carbonate and some shearing at 294.8 almost barren						
		Sample	58-8-10	1.0	294.0	295.0	Nil	
		2" barren vuggy quartz at 326.3						
32	383	Rhyolite, fine grained, dark blue, becoming brecciated and agglomeratic between 350 and 375, with 5% patchy alteration and few blebs of pyrite. Fairly massive.						
83.	542.2	Dacite, fine to medium grained, grey-blue, very siliceous well broken up and criss-crossed by 10% vuggy epidotized quartz-carbonate stringers to about 500.' 1" vuggy quartz with 2% pyrite at 395.5 bordered by 6" solid green epidote alteration both sides. 5" irregular chloritized quartz vein with 2% pyrite at 402.						
		Sample	58-8-11a	1.0	401.5	402.5	Trace	
		1" quartz at 478.9, vuggy and with 10% pyrite 1" quartz at 479.9 with 5% pyrite						
		Sample	58-8-11b	1.5	478.5	480.	Trace	
12.2	616.0	Rhyolite, 80% fine grained and 20% tuffaceous with few lappilli and irregularly brecciated throughout slightly amygdular and spherulitic throughout altered up to 20% in patches and vuggy stringers. Fault Zone 573 - 575 with gouge and quartz and calcite filling.						
		Sample	58-8-12	2.0	572.6	574.6	0.005	
		2" irregular quartz with 20% pyrite and slight shearing at 579.5						
		Sample	58-8-13	1.0	579.	580.	Trace	
		2" irregular quartz at 586.5 with 3% pyrite 3" irregular quartz at 588.5 with 5% pyrite						
		Sample	58-8-14	0.7	586.1	586.8	0.002	

LOG OF DIAMOND DRILL HOLE

No. 58-8

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au	Ag	Cu
		Sample	58-8-15	0.5	588.7	589.2	~~TR~~		
		4" vuggy quartz-carbonate at 600.6 with 5% pyrite							
		Sample	58-8-16	0.6	600.4	601.0	0.055		
		Vein No. 1 - Milky quartz, slightly fractured and weakly mineralized with 2% pyrite from 606.4 - 609.3 Wall rock between 603 and 606.4, & 609.3 to 610. better mineralization with 5% pyrite and silicification.							
		Sample	58-8-17	2.0	603.	605	0.02	0.02	
		Sample	58-8-18	1.4	605.	606.4	0.10	0.06	0.07
		Sample	58-8-19	1.0	606.4	607.4	0.19	0.33	0.03
		Sample	58-8-20	1.0	607.4	608.4	0.03	0.02	0.03
		Sample	58-8-21	0.9	608.4	609.3	0.49	0.71	0.05
		Sample	58-8-22	0.7	609.3	610.	0.008	0.01	
		606.4 - 609.3 Average - 0.228 Au over 2.9'							
616.	643.6	Rhyolite, fine grained, grey, siliceous and occasionally spherulitic with conchoidal fracture. Slightly amygdular and irregularly brecciated and silicified. Mineralized with up to 2% scattered pyrite.							
643.6		END OF HOLE.							

LOG OF DIAMOND DRILL HOLE

No. 58-9

Property: Wiltsey Coghlan Mines Limited — Hole started: Mar 10, 1958 — Finished: Mar 22, 1958

Location: Township: Rouyn — Range or Conc: — Lot: — Claim No. Block 32

Line: 20 ± 25 W — Station: 33 + 75 N — Coordinates: Lat: — Dep:

Bearing: — (MARK WHETHER TRUE OR MAGNETIC) — Dip at Collar: 90° — Total Length: 685'

Logged by: R. W. Dagenais & T. Koulomzine — Assayed by: Bourlamaque Assay Office

Core housed at: core shack at station 20N Line 24E — Contractor: Inspiration D.D. Co.

Overburden: 10' water, 50' mud, remainder sand and gravel (DESCRIBE: CLAY, SAND, BOULDERS) — Days spent piping: 2

Methods used in piping: Straight Piping (DESCRIBE: STRAIGHT PIPING, LEDGE FINDER, EXPANSION REAMER, MUD) — Casing: removed: Yes — making water: No; left in hole: — times cemented: None

Dip & Compass tests:

core length	reading:	Acid tests: Corrected readings:	Compass tests: Dips:	Bearings:
560'			88°	S 48°W (M) (-12°) S 36°W t

TABLE OF PROFILE COORDINATES AND PROJECTIONS CALCULATIONS

LENGTH	DIP ANGLES		HOIZONTAL PROJECTION		VERTICAL PROJECTION		MAGNETIC BEARINGS		N – S PROJECTIONS		E – W PROJECTIONS	
	CORRECTED	MEAN	PARTIAL	TOTAL	PARTIAL	TOTAL	CORRECTED	MEAN Cos .809	PARTIAL	TOTAL Sin .588	PARTIAL	TOTAL
0	90°						S 36°W t					
100	89 40'	89 50'	.3	.3	100.	100.			.2	.2	.2	.2
200	89 20	89 30	0.9	1.2	100	200.			.7	.9	.5	.7
300	89	89 10'	1.4	2.6	100.	300.			1.1	2.0	.8	1.5
400	88 40	88 50	2.0	4.6	100.	400.			1.6	3.6	1.8	3.3
500	88 30	88 30	2.7	7.3	100	500.			2.2	5.8	1.6	4.9
600	88	88 10	3.2	10.5	99.9	599.9			2.6	8.4	1.9	6.8
			10.5		599.9				8.4		6.8	

FROM	TO	DESCRIPTION	SAMPLES NUMBER	LENGTH	FROM	TO	VALUES: BASE METAL % % PRECIOUS METAL OZ/TON Au
-	145.	Casing.					
45.	195.	Dacite, grey-green, fine grained, massive, slightly amygdular. 3" vuggy quartz with 5% pyrite at 151.0					
		Sample	58-9-1	0.5	150.7	151.2	Trace
		Rock after 160 becoming very blocky, largest pieces only 4" Some irregular quartz and pyrite between 162 and 164.					
		Sample	58-9-2	1.0	162.	163.	Nil.
		Sample	58-9-3	1.0	163.	164.	Trace
		5" vuggy quartz and seam of vuggy pink calcite. at 173.0 with 5% pyrite.					
		Sample	58-9-4	0.6	173.0	173.6	0.01
9	229.	Crystal breccia Dyke, typical recrystallized tuffs and lappili in crystalline matrix - barren					
29.	288	Andesite, medium grained, massive, dark green, becoming coarser grained (older gabbro type) between 240 and 270 with diabasic texture. Slightly amygdular throughout 1" irregular quartz with 5% pyrite at 243.8					
88.	308.	Acid Agglomerate, made up of 30% tuffs and 70% lappili silicified in an acid matrix. 292 - 297 - bleached zone - no shearing mineralized with few scattered patched and cubes of pyrite.					

LOG OF DIAMOND DRILL HOLE

No. 58-9

Page No. 2

Property: Wilfley-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON				
			NUMBER	LENGTH	FROM	TO	Au	Cu			
3[illegible].	345.	Rhyolite, fine grained, dark blue, siliceous, well brecciated throughout and altered by numerous vuggy epidote and quartz stringers with patches of pyrite. Slightly spherulitic near contacts.									
3[illegible].	383	Andesite, well broken up, medium grained, grey-green, massive, normally fractured.									
383.	435.5	Dacite, fine grained, grey, well broken up throughout. Irregularly altered by epidote stringers and patches. Slightly amygdular 6" irregular vuggy quartz-carbonate with 3% pyrite at 409.									
		Sample	58-9-5	1.0	409.	410.	Nil.				
		3" milky quartz with 5% pyrite at 415.									
		Sample	58-9-6	0.7	414.5	415.2	0.005				
435.5	472.	Rhyolite, fine grained, rhyolite tuffs and agglomerate, irregularly brecciated and barren, slightly amygdular. Well broken up (contact at 15° - 20° to core axis)									
4[illegible].	515	Dacite, fine grained, grey, slightly amygdular, well fractured. (10 per ft.) and well altered by patches and vuggy stringers of epidote and quartz.									
5[illegible].	578.	Rhyolite, fine grained, blue-grey, massive and normally fractured with some small irregular breccia zones scattered throughout. Mineralized by 2% scattered pyrite cubes. 1" quartz and 10% pyrite at 515. 6" irregular vuggy and patchy, 20% quartz at 518.5 with 3% pyrite									
		Sample	58-9-7	1.0	518.1	519.1	0.002				
		1" quartz at 639.2 8" quartz and silicification at 554.2 - barren									
		Sample	58-9-8	1.0	554.2	555.	Trace				
		1" quartz at 558.0 2" quartz at 572.0 with 2% pyrite and 1% chalcopyrite									
		Sample	58-9-9	0.5	571.6	572.1	0.002	0.07			
		2" 15% pyrite at 576.5 with patchy alteration.									
5[illegible].	624.	Rhyolite, fine grained, mainly dark blue, occasionally brecciated and altered. Very blocky throughout. ¼" pyrite stringer paralleling core for 4" at 588.6 4" quartz with 5% pyrite and well fractured at 592.6 and 593.9									
		Sample	58-9-10	1.7	592.5	594.2					
		607 - 608.5 Extremely broken up with some pieces of quartz and pyrite.									
		Sample made of bits and pieces of core.	58-9-11	1.5	607.	608.5	0.002				
		613 - 616 Extremely broken up.									
6[illegible].	652.5	Dacite, fine grained, bright green, massive, amygdular quartz vein - Vein No. 1 627.5 - 630.6 3.1' Milky and slightly fractured with only 2 or 3% pyrite and bordered by slight shearing (contacts at 25° to core axis). Bordering rock also somewhat better mineralization with 5% pyrite between 625 and 627.5, and also from 630 to 631.									
		Sample	58-9-12	1.5	625.	626.5	0.002				
		Sample	58-9-13	1.0	626.5	627.5	0.002	Ag	Cu		
		Sample	58-9-14	1.0	627.5	628.5	0.06	0.12	0.05%		

Page 3

LOG OF DIAMOND DRILL HOLE

No. 58-9

Property: Wiltsey-Coghlan Mines Limited

FROM	TO	DESCRIPTION	SAMPLES				VALUES: BASE METAL % % PRECIOUS METAL OZ/TON				
			NUMBER	LENGTH	FROM	TO	Au	Ag	Cu		
		Sample	58-9-15	1.0	628.5	629.5	0.68	1.18	0.05		
		Sample	58-9-16	629.5	630.6	1.1	.225	0.18	0.05		
		Sample	58-9-17	1.0	630.6	631.6	.007				
		1½" quartz with chlorite at 643.0 - barren									
		Average - 627.5 - 630.6, 0.319 oz/ton Au over 3.1'									
652.5	685.	Rhyolite, fine grained, blue, spherulitic and slightly amygdular, massive. Saattered pyrite up to 5% in patches. Irregularly brecciated and silicified.									
685.		END OF HOLE.									

N-144-1-54-5M-SP

DIAMOND DRILL RECORD

Hole No. S-559 | Direction | Location
Sheet No. 1 | Date Begun | Lat. Dep.
Log Book No. | Dip | Bearing

850'-59 1200'-55°

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
0 - 6	Casing											
10	1534	Tr							Neg + Sl	Py	M	
									Carb. FLT. 6.5-6.8 (Carb FLT. 65. Stos 9.4-10.0			
20	35	Tr							Neg + Sl	Py Mag	M	FLT Carb Stos 14.5-16.3
30	36	Tr							Neg + Sl	Py	M	El. FLT 85 Stos
40	37	Tr							Neg + Sl	Py	M + An?	Contact or Change 36.0
									An? Finer grain Darker. Carb. Stos			zone. El 36.0-52.2
50	38	Tr							Neg + Sl	Py	An?	
60	39	Tr							Neg + Sl	Py	An? + M?	Contact or Change 52.2
70	40	Tr							Neg + Sl	Py	M?	
80	41	Tr							Neg + Sl	Py	M?	
90	42	Tr							Neg + Sl	Py [illegible]	M?	[illegible] FLT. Calc [illegible] 50.0-17[illegible]
100	43	Tr							Neg + Sl	Py	M?	
10	1554	Tr							Neg + Sl	Py	M?	
20	55	Tr							Neg + Sl	Py	M?	
30	56	Tr							Neg + Sl	Py	M?	
									Carb. Str.	Carb 125.7-126.3		[illegible] 128.2
40	57	Tr							Neg + Sl	Py [illegible]	M?	
150	58	Tr							Neg + Sl	Py [illegible]	M? + An? + M?	Contact or Change 148.0 149.0
60	59	Tr							Neg + Sl	Py	M?	
70	60	Tr							Neg + Sl	Py	M?	
80	61	Tr							Neg + Sl	Py	M? + An?	Contact or Change 172.2
									Fractured. FLT + Sh. 170.2-173.2	(El. FLT. Carb. Stos. [illegible]		

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N-144-1-54-5M-SP

DIAMOND DRILL RECORD

Hole No. S-559 Cont'd
Sheet No. 2
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
190-190	1562	Tr							Neg + St	Py	An ?	
200	63	Tr							Neg + St	Py	An ?	
10	64	Tr							Neg + St	Py	An ? + M ??	[illegible] 200°
									M ?? Possible Cont [illegible] 297.2			
20	65	Tr							Neg + St	Py	M ??	
30	66	Tr							Neg + St	Py	M ??	
40	67	Tr							Neg + St	Py	M ??	
250	68	Tr							Neg + St	Py	M ??	
60	69	Tr							Neg + St	Py	M ??	
									Carb + Cal. Str. Fair amount of Ep 200-300°			
70	70	Tr							Neg + St	Py	M ??	[illegible] 215.5 - 269.8
80	71	Tr							Neg + St	Py	M ??	
									Mostly [illegible]		[illegible]	
90	72	Tr							Neg + St	Py	M ??	[illegible]
300	73	Tr							Neg + St	Py	M ?? + An ? + M	[illegible] 300°
10	74	Tr							Neg + St	Py	M ?	
20	75	Tr							Neg + St	Py	M ?	
30	76	Tr							Neg + St	Py	M ?	
40	77	Tr							Neg + St	Py	M ?	
									St. Strong [illegible]		[illegible]	[illegible]
350	78	Tr							Neg + St	Py	M ?	
									Strong. Ep. & Carb. Str.		Alt 300°-400°	
60	79	Tr							Neg + St	Py	M ? + An ?	[illegible]
70	80	Tr							Neg + St	Py	An ?	[illegible]

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N-144-1-54-5M-SP

DIAMOND DRILL RECORD

Hole No. S-559 Cont'd
Sheet No. 3
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO 2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
370-380	1581	Tr							Neg + Sr	Py	An?	
90	82	Tr							Neg + Sr	Py	An?	
400	83	Tr							Neg + Sr	Py	An? + M?	Contor Change 396.5
10	84	Tr							Neg + Sr	Py	M?	
20	85	Tr							Neg + Sr	Py	M?	
									STRONG. Et +	Carb. Str. at	400° - 600°	
30	86	Tr							Neg + Sr	Py	M?	
40	87	Tr							Neg + Sr	Py	M? + An?	[illegible] 435
50	88	Tr							Neg + Sr	Py	An?	
60	89	Tr							Neg + Sr	Py	An?	[illegible] 456-90
70	90	Tr							Neg + Sr	Py	An?	
80	91	Tr							Neg + Sr	Py	An?	
90	92	Tr							Neg + Sr	Py	An?	
500	93	Tr							Neg + Sr	Py	An?	
10	94	Tr							Neg + Sr	Py	An??	? Change 500°
20	95	Tr							Neg + Sr	Py	An??	
30	96	Tr							Neg + Sr	Py	An??	
									Sh'd STRONG	Carb. MIT. Qtz +	Cal. 514.5	519.3
40	97	Tr							Neg + Sr	Py	An??	
50	98	Tr							Neg + Sr	Py	An??	
60	99	Tr							Neg + Sr	Py	An?	[illegible] 550
									Possible	Fl. 500° - 550°	Carb. [illegible]	509 - 509.7
70	1600	Tr							Neg + Sr	Py	An?	
580	01	Tr							Neg + Sr	Py	An?	E F O

N-144-1-54-5M-SP

DIAMOND DRILL RECORD

Hole No. S-559. Cont'd
Sheet No. 4
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
580-590	1602	Tr							Neg + Sr	Py	An?	
600	03	Tr							Neg + Sr	Py	An?	
10	1613	Tr							Neg + Sr	Py	An? + M?	Cont or Change 600°
20	14	Tr							Neg + Sr	Py	M?	
30	15	Tr							Neg + Sr	Py	M? ? An?	Cont or Change [illegible]
40	16	Tr							Neg + Sr	Py	An?	
									El. Alt + Carb. Stns. Not so Strong 600°-660°			
50	17	Tr							Neg + Sr	Py	An?	
60	18	Tr							Neg + Sr	Py	An?	[illegible] Sh. 656°-657
70	19	Tr							Neg + Sr	Py	An?	
									El. Alt. Carb. Stns. Much Stronger 660°-700°			
80	20	Tr							Neg + Sr	Py	An?	Ground Core 670°-671°
90	21	Tr							Neg + Sr	Py	An?	[illegible] 685°-686°
700	22	Tr							Neg + Sr	Py	An? + M?	Cont or Change 696°
												Sh. 695°-696°
10	23	Tr							Neg + Sr	Py	M?	
20	24	Tr							Neg + Sr	Py	M? + An?	Cont or Change 714.8
								2'			Strong Sh.	718.3-720.3
22	1625 9947	Tr Tr	.08					Au. Tr ↕	Sr + Neg	Py	An?	
								Cu. .08		(Mostly Carb + Cal. Sh. 720°-722°)		
30	1626	Tr							Neg + Sr	Py	An?	
40	27	Tr							Neg + Sr	Py	An?	
750	28	Tr							Neg + Sr	Py	An?	
									(Fairly Strong Carb. Stn. (El. Alt much weaker 700°-800°)			

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DIAMOND DRILL RECORD

Hole No. S-559 Cont'd
Sheet No. 4 5
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	Mineralization: Quantity	Mineralization: Type	Rocks	Contacts
750-760	1629	Tr							Neg + Str	Py	An??	Change 751'
										Possible	M 751'–812'	
70	30	Tr							Neg + Str	Py	An??	
80	31	Tr							Neg + Str	Py	An??	No Pillows 751'–812'
90	32	Tr							Neg + Str	Py	An??	
800	33	Tr							Neg + Str	Py	An??	
10	34	Tr							Neg + Str	Py	An??	Fractured 805°–819°
20	35	Tr							Neg + Str	Py	An?	? Change 812'
30	36	Tr							Neg + Str	Py	An?	
40	37	Tr							Neg + Str	Py	An?	
									Not much	Ep Alt Carb	Str. much	weaker 805°–900°
850	38	Tr							Neg + Str	Py	An??	
60	39	Tr							Neg + Str	Py	An??	Possible M 850°–900°
70	40	Tr							Neg + Str	Py	An??	
80	41	Tr							Neg + Str	Py	An??	
90	42	Tr							Neg + Str	Py	An??	
900	43	Tr							Neg + Str	Py	An??	
10	44	Tr							Neg + Str	Py	An?? + M?	Color Change 900°
20	45	Tr							Neg + Str	Py	M?	
30	46	Tr							Neg + Str	Py	M?	Ep ALT + Carb. STrs
40	47	Tr							Neg + Str	Py	M?	LITTLE Stronger 900°-106
950	49	Tr							Neg + Str	Py	M?	
60	49	Tr							Neg + Str	Py	M?	
70	50	Tr							Neg + Str	Py	M?	1" Qtz 967'

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N-144-1-54-5M-SP

DIAMOND DRILL RECORD

Hole No. S-559 Cont'd
Sheet No. 6
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
970-980	1651	Tr							Neg + Sl	Py	M?	
90	52	Tr							Neg + Sl	Py	M?	
1000	53	Tr							Neg + Sl	Py	M?	
10	54	Tr							Neg + Sl	Py	M?	
20	55	Tr							Neg + Sl	Py	M?	
30	56	Tr							Neg + Sl	Py	M?	
40	57	Tr							Neg + Sl	Py	M? + Chl?	Cont or Change 1036.5
										STRONG. Shd. ZONE 1036.5-1047.6		
44.	1658 9449	Tr	.06					↑ 7'	Neg + Sl	Py	Chl?	
							.014	Au .51		highly ALTd Carbonated Shd 1040.0-1047.0		
47	1659 49	1.00 $1.20	.08					Cu v .08	Neg + Sl	Py	Chl?	
									highly ALTd Schisted + Shd [illegible] 1047.0-1047.0			
55	1660	Tr							Neg + Sl	Py	Chl?	
65	61	Tr							Neg + Sl	Py	Chl?	
75	62	Tr							Neg + Sl	Py	Chl?	[illegible] 1065.0
85	63	Tr							Neg + Sl	Py	Chl?	
95	64	Tr							Neg + Sl	Py	Chl?	
1105	65	Tr							Neg + Sl	Py	Chl?	
15	1677	Tr							Neg + Sl	Py	Chl?	
25	78	Tr							Neg + Sl	Py	Chl?	
35	79	Tr							Neg + Sl	Py	Chl?	
45	80	Tr							Neg + Sl	Py	Chl?	Lookout Shd 1110.0-1143.7
55	81	Tr							Neg + Sl	Py	Chl? + M?	Cont or Change 1145.0
1165	82	Tr							Neg + Sl	Py	M?	

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11-1-54-5M-SP

DIAMOND DRILL RECORD

Hole No. S-559 Cont'd
Sheet No. to 7
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
1165-1173	1683	Tr							Neg + Sl	Py	M? + An	Cont 1168.3
76	1684 10000	Tr	.09					↕ 3'	Neg + Sl	Py, Po	An	
								Au Tr		MLT + Sh	[illegible]	1173.0-1176.0
85	1685	Tr						Cu .09	Neg + Sl	Py	An	
95	86	Tr							Neg + Sl	Py	An	
1205	87	Tr							Neg + Sl	Py	An	
										Carb. stain	[illegible]	[illegible]
15	88	Tr							Neg + Sl	Py	An	
25	89	Tr							Neg + Sl	Py	An	
35	90	Tr							Neg + Sl	Py	An	
45	91	Tr							Neg + Sl	Py	An	
1253	92	Tr							Neg + Sl	Py	[illegible]	[illegible]
--									DEF. Pillowed. MX. So	u. Porphyritic		1068.3-1246.5
55	1693 014	Tr	.06					↑ 14'	Neg + Sl	Py	M? + An	Cont 1253'
60	15	Tr	.08					Au Tr	Neg + Sl	Py	An	[illegible]
65	16	Tr	.06					Cu .07	Neg + Sl	Py	An	[illegible]
67	17	Tr	.11					↓	Neg + Sl	Py	An	
75	1697	Tr							Neg + Sl	Py	An + M?	Cont [illegible]
80	-98	Tr							Neg + Sl	Py	M? + An	Cont 1279.5
85	1699 018	1.20 Tr	.05					↑	Neg + Sl	Py	An	
90	1700 19	Tr	.05					21'	Neg + Sl	Py Po	An	
95	20	Tr	.05					Au .05	Neg + Sl	Py	An	
1301	21	Tr	.05					Cu.v. .05	Neg + Sl	Py	An	Change 1301.2
									DEF. Pillowed. An. So	u. Porphyritic		[illegible] 1246.5-13[illegible]

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DIAMOND DRILL RECORD

Hole No. S-559 Cont'd
Sheet No. # 8
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
1301-1310	1703	Tr							Neg + St	Py Po Tou	An?	
20	04	Tr							Neg + St	Py	An?	
30	05	Tr							Neg + St	Py	An?	
									Carb' Str.	Py ... much ...		1322 - 1345
40	06	Tr							Neg + St	Py	An?	
1350	07	Tr							Neg + St	Py	An?	
60	08	Tr							Neg + St	Py	An?	
70	09	Tr							Neg + St	Py	An?	
80	10	Tr							Neg + St	Py	An?	
									Silicate Pa Carb. ... 1350 - 1400			
90	11	Tr							Neg + St	Py	An?	Qtz. Str.
1400	12	Tr							Neg + St	Py	An?	
10	13	Tr							Neg + St	Py	An?	
									Carb. Py	Carb Str much Stringers		1400 - 1450
20	14	Tr							Neg + St	Py	An?	
30	15	Tr							Neg + St	Py	An?	
40	16	Tr							Neg + St	Py	An	
										3" Carb. Cal. + Qtz. 1451		
50	17	Tr							Neg + St	Py	An	
60	18	Tr							Neg + St	Py	An	
70	19	Tr							Neg + St	Py	An	
80	20	Tr							Neg + St	Py Po	An	
90	1721 232	Tr	.08					↑	St + Neg	Py Po	An	
									Flow Breccia 1487 - 1500			

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DIAMOND DRILL RECORD

Hole No. S-559 Cont'd Direction .... Location ....
Sheet No. 89 Date Begun .... Lat. .... Dep. ....
Log Book No. .... Dip .... Bearing ....

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO2 %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
1490-1500	1722 233	Tr	.06						Sl.to Neg (+W)	Py Po	An.	
								71'	Strong. Ep Calc Carb. Brecciated 1489.9-1500			
10	23 34	Tr	.04					Au Tr	Sl. + Neg (+W)	Py	An	Carb. [illegible]
20	24 35	Tr	.03					Cu .06	Sl.to Neg (+W)	Py	An	" " " "
30	25 36	Tr	.08					↓	Sl.to Neg	Py	An	
									? Flow Breccia 1500-1551.0			
40	26 37	Tr	.06						Sl.to Neg	Py (Po)	An	
1551	27 38	Tr	.09					↓	Sl.to Neg	Py (Po)	An	Sh.d 1550.0-1551.2
60	1728	Tr							Neg + Sl.	Py	An + M	[illegible] 1551.2
70	29	Tr							Neg + Sl.	Py Po	M	Qtz. Str.
80	30	Tr							Neg + Sl.	Py	M	Carb. [illegible] Qtz. Str.
90	31	Tr							Neg + Sl.	Py	M	" " " "
1600	32	Tr							Neg + Sl.	Py	M	" " " "
10	33	Tr							Neg + Sl.	Py	M	
20	34	Tr							Neg + Sl.	Py	M	
30	35	Tr							Neg + Sl.	Py	M	
40	36	Tr							Neg + Sl.	Py	M + An?	[illegible] 1637.6
1653.5	37	Tr							Neg + Sl.	Py	An?	
								4'	Sl. Carb. Calc + Ep alt. 1637.6-1653.5			559
1657.5	1553 239	Tr	.09					↕	Neg + Sl.	Py	An?	
								Au. Tr.	Sh.d Considerable Amount of Qtz. Calc. [illegible] 1653.5-1657.5			
70	1639	Tr						Cu. .09	Neg + Sl.	Py	An?	
80	40	Tr							Neg + Sl.	Py	An?	Finished Feb. 1953
90	41	Tr							Neg + Sl.	Py	An?	
1700	42	Tr							Neg + Sl.	Py	An? + M	Cont'd 1699.9

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DIAMOND DRILL RECORD

Hole No. S-561 Direction .... Location ....
Sheet No. 1 Date Begun .... Lat. .... Dep. ....
Log Book No. .... Dip .... Bearing ....

1000' - 63° 1975' - 72°

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION		Rocks	Contacts
									Quantity	Type		
0 - 46	Casing											
50	1758	Tr							Neg & Sl	Py	M	
60	59	Tr							Neg & Sl	Py	M	
70	60	Tr							Neg & Sl	Py	M	
80	61	Tr							Neg & Sl	Py	M	
90	62	Tr							Neg & Sl	Py	M	Broken 88.5 - 89.9
100	63	Tr							Neg & Sl	Py	M	Broken 90.0 - 95.9
									Min & Sh^d Carbonated 95' - 109.2			
05	1764 5412	Tr							Neg & Sl	Py	M + [illegible] + M	Cont 101.7 103.0
10	1765 73	Tr							Neg & Sl	Py	M	
20	1766	Tr							Neg & Sl	Py	M	Sh^d 113.0 - 117.6
30	67	Tr							Neg & Sl	Py	M	
40	68	Tr							Neg & Sl	Py	M	Q^d. Cal & [illegible] 130.5 - 1
50	69	Tr							Neg & Sl	Py	M.	
									St. Carb & Cal. Str: 46° - 350°			561
60	70	Tr							Neg & Sl	Py	M	
70	71	Tr							Neg & Sl	Py	M.	[illegible] 168.5 - 169
80	72	Tr							Neg & Sl	Py	M	[illegible] Cal. Carb [illegible] 177.7 - 1
90	73	Tr							Neg & Sl	Py	M + An	Cont 180.7
200	74	Tr							Neg & Sl	Py	An + M	Cont 195.3
10	75	Tr							Neg & Sl	Py	M	
20	76	Tr							Neg & Sl	Py	M	Broken & Q^d 217.2 - 219
30	77	Tr							Neg & Sl	Py	M	

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd
Sheet No. 2
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO2 %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
240-250	1779	Tr							Neg + Gr	Py	M+An+M	Cont 245.7; 248.2
60	80	Tr							Neg + Gr	Py	M	
70	81	Tr							Neg + Gr	Py	M+An	Cont [illegible]
											?. An. Gr.	[illegible]-263.5
80	82	Tr							Neg + Gr	Py	An+M	Cont [illegible]
90	83	Tr							Neg + Gr	Py	M	
300	84	Tr							Neg + Gr	Py	M	
10	85	Tr							Neg + Gr	Py	M	
20	86	Tr							Neg + Gr	Py	M	
30	87	Tr							Neg + Gr	Py	M	
40	88	Tr							Neg + Gr	Py	M+An	Cont 330.[illegible]
50	89	Tr							Neg + Gr	Py	An	
60	90	Tr							Neg + Gr	Py	An+M+An	Cont 350.[illegible]; 352.6
70	91	Tr							Neg + Gr	Py	An	
80	92	Tr							Neg + Gr	Py	An	
90	93	Tr							Neg + Gr	Py	An	
400	94	Tr							Neg + Gr	Py	An+M?	Color Change [illegible].3
10	95	Tr							Neg + Gr	Py	M? + An?	Color Change F 401.0
									Badly broken 402.0-	413.5 (Lost Co		[illegible] 405.1-407.3; [illegible]
20	96	Tr							Neg + Gr	Py	An?	Lost Core [illegible]-413.2
25	1797 574	Tr Tr	.06						Neg + Gr	Py [illegible]	An?	
30	98 75	Tr Tr	.06						Neg + Gr	Py [illegible]	An?	
40	1799	Tr							Neg + Gr	Py	An?	
45	1800 576	Tr Tr	.09						Neg + Gr	Py [illegible]	An?	[illegible]

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd
Sheet No. 3
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
445-450	1801 577	Tr							Neg + Sr	Py	An?	Lost Core 449.2-450
60	1802	Tr							Neg + Sr	Py	An?	
70	03	Tr							Neg + Sr	Py	An? + M	Cont 468.0
80	04	Tr							Neg + Sr	Py	M + An?	Cont 478.2
90	05	Tr							Neg + Sr	Py	An?	
										Shd Kz	Calc Carb	487-491.8
500	06	Tr							Neg + Sr	Py	An? + M	Cont 492.8
10	1824	Tr							Neg + Sr	Py	M	
20	25	Tr							Neg + Sr	Py	M	
30	26	Tr							Neg + Sr	Py	M	
40	27	Tr							Neg + Sr	Py	M	
50	28	Tr							Neg + Sr	Py	M + An + M	Cont 543.5, 547.8
											Shd 54?.5-549.8	
60	29	Tr							Neg + Sr	Py	M	
70	30	Tr							Neg + Sr	Py	M	
80	31	Tr							Neg + Sr	Py	M	
90	32	Tr							Neg + Sr	Py	M	
600	33	Tr							Neg + Sr	Py	M + An?	[illegible]
10	34	Tr							Neg + Sr	Py	An? + M	[illegible]
20	35	Tr							Neg + Sr	Py	M + An	Cont 611.6
30	36	Tr							Neg + Sr	Py	An + M	Cont 629.8
40	37	Tr							Neg + Sr	Py Pcl	M	
50	38	Tr							Neg + Sr	Py	M + An	Cont 646.3
60	39	Tr							Neg + Sr	Py	[illegible] + M	[illegible]

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd Direction Location
Sheet No. 34 Date Begun Lat. Dep.
Log Book No. Dip Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
660-670	1840	Tr							Neg + Gr	Py	M + An	Cont 666^{8}
80	41	Tr							Neg + Gr	Py	An	
90	42	Tr							Neg + Gr	Py	An	
700	43	Tr							Neg + Gr	Py	An	
10	44	Tr							Neg + Gr	Py	An	
20	45	Tr							Neg + Gr	Py	An	
30	46	Tr							Neg + Gr	Py	An	
40	47	Tr							Neg + Gr	Py	An + M	[illegible]
50	48	Tr							Neg + Gr	Py	M	
60	49	Tr							Neg + Gr	Py	M	
70	50	Tr							Neg + Gr	Py	M + An	Cont 765^{3}
80	51	Tr							Neg + Gr	Py	An.	
90	52	Tr							Neg + Gr	Py	An.	
95	1853 601	Tr							Neg + Gr	Py	An	Qtz 793^{5}-794^{8}
									Alt'd + Sh'd Carbonated 793^{5}-801^{3}			
800	1854 02	Tr	[illegible]						Neg + Gr	Py	An	[illegible]
10	1855	Tr							Neg + Gr	Py	An + M	Cont [illegible]
20	56	Tr							Neg + Gr	Py	M + An + M	Cont 812^{8}, 819^{7}
30	57	Tr							Neg + Gr	Py	M	
40	58	Tr							Neg + Gr	Py	M	
50	59	Tr							Neg + Gr	Py	M + An	Cont 846^{5}
60	60	Tr							Neg + Gr	Py	An.	Sh'd 850^{4}-852^{7}
70	61	Tr							Neg + Gr	Py	An	
80	62	Tr							Neg + Gr	Py	An	[illegible]

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd
Sheet No. 4 5
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
880-890	1863	Tr							Neg + Tr	Py	An.	
900	64	Tr							Neg + Tr	Py	An.	
10	65	Tr							Neg + Tr	Py	An.	broken 906⁶-908²
20	66	Tr							Neg + Tr	Py	An.	
30	67	Tr							Neg + Tr	Py	An.	
40	68	Tr							Neg + Tr	Py	An + M	Cont 933⁴
45	1869 603	Tr							Neg. Tr + [illegible]	Py	M + An	Cont 941⁷
									Sh^d. Carbonated. Gtz + Cal 941⁷-947⁷			
50	1870 04	Tr							Neg + Tr	Py	An.	
60	1871	Tr							Neg + Tr	Py	An	
65	1872 05	Tr							Neg + Tr	Py	An.	
70	1873 06	Tr							Neg + Tr	Py	An.	
									Sh^d Carbonated. Gtz + Cal. 965⁴-970³			
75	1874 07	Tr							Neg + Tr	Py	An	Tong. Cal [illegible] 1953⁵-[illegible]
80	1875 08	Tr							Neg + Tr	Py	An	
90	1876	Tr							Neg + Tr	Py	An.	
									Carbonated. Gtz + Cal. 990³-995⁴			
1000	1877	Tr							Neg + Tr	Py	An + M	Cont 991²
10	1891	Tr							Neg + Tr	Py	M	
20	92	Tr							Neg + Tr	Py	M	
30	93	Tr							Neg + Tr	Py	M	
40	94	Tr							Neg + Tr	Py	M	
50	95	Tr							Neg + Tr	Py	M	
60	96	Tr							Neg + Tr	Py [illegible]	M	

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd Direction Location
Sheet No. 5.6 Date Begun Lat. Dep.
Log Book No. Dip Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO₂ %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
1060-1070	1897	Tr							Neg & Sl.	Py	M	
80	98	Tr							Neg & Sl.	Py	M	
90	99	Tr							Neg & Sl.	Py	M	
1100	1900	Tr							Neg & Sl.	Py	M	
									[illegible]	[illegible]	[illegible] 1099.5-1099.5	
10	01	Tr							Neg & Sl.	Py	M + [illegible] + M	[illegible] 1101.?-1105.4
20	02	Tr							Neg & Sl.	Py (Po?)	M	
30	03	Tr							Neg & Sl.	Py	M	
40	04	Tr							Neg & Sl.	Py	M	
50	05	Tr							Neg & Sl.	Py	M	
60	06	Tr							Neg & Sl.	Py	M	
70	07	Tr							Neg & Sl.	Py	M	
80	08	Tr							Neg & Sl.	Py	M	
90	09	Tr							Neg & Sl.	Py	M	P[illegible] 1186.5-1187.6
1200	10	Tr							Neg & Sl.	Py	M	
10	11	Tr							Neg & Sl.	Py	M	
20	12	Tr							Neg & Sl.	Py	M	
30	13	Tr							Neg & Sl.	Py	M	
40	14	Tr							Neg & Sl.	Py	M	
50	15	Tr							Neg & Sl.	Py	M	
60	16	Tr							Neg & Sl.	Py	M	
70	17	Tr							Neg & Sl.	Py	M	
80	18	Tr							Neg & Sl.	Py	M	
90	19	Tr							Neg & Sl.	Py	M	

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd
Sheet No. 67
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
1290-1300	1920	Tr							Neg + Sl	Py	M	
10	21	Tr							Neg + Sl	Py	M	
20	22	Tr							Neg + Sl	Py	M	
30	23	Tr							Neg + Sl	Py Po	M.	
40	24	Tr							Neg + Sl	Py Cp	M + An? + M	An? 1333.8 1335.0
											Qtz. Carb + Carb.	1336.2 - 1337.0
50	25	Tr							Neg + Sl	Py	M	
60	26	Tr							Neg + Sl	Py	M	
70	27	Tr							Neg + Sl	Py	M + An?	An? 1367.0
									Qtz 1369.6 - 1370.7	(Sh'd Qtz. Carb +	Carb. 1371.0	- 1374.2
80	28	Tr							Neg + Sl	Py	An?	
90	29	Tr							Neg + Sl	Py	An?	
1400	30	Tr							Neg + Sl	Py Po?	An?	Rubble [illegible] 1400.0
10	31	Tr							Neg + Sl	Py	An	Broken 1405.9 - 1409.0
20	32	Tr							Neg + Sl	Py	An	
30	33	Tr							Neg + Sl	Py	An	
40	34	Tr							Neg + Sl	Py	An	
45	1938 09	Tr Tr							Neg + Sl	Py	An	
50	1938 10	Tr Tr	.11						Neg + Sl	Py Cp	An	
60	1937	Tr							Neg + Sl	Py	An	
65	1938 11	Tr Tr							Neg + Sl	Py	An	
									Mudded Qtz	Carb Sl	1461.9 - 1463.3	
69	1938 12	Tr Tr							Sl + Neg	Py	An + M	An? 1465.7
										Mud + Sl	1465.9 - 1468.7	

E.C.1

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd
Sheet No. #8
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO2 %	Averages	Mineralization Quantity	Mineralization Type	Rocks	Contacts
1469-1480	1940	Tr							Neg + Gr	Py	M.	Qtz. Ser. [illegible]
											Lost Core	1473[2]-1474[0]
90	41	Tr							Neg + Gr	Py	M.	Qtz Ser. [illegible]
1500	42	Tr							Neg + Gr	Py	M	Qtz. Ser. [illegible]
10	43	Tr							Neg + Gr	Py	M	
20	44	Tr							Neg + Gr	Py	M	
30	45	Tr							Neg + Gr	Py	M + An	Cont 1521[0]
40	46	Tr							Neg + Gr	Py	An	
50	47	Tr							Neg + Gr	Py	An + M	Cont 1542[5]
60	48	Tr							Neg + Gr	Py	M	
70	49	Tr							Neg + Gr	Py	M	
80	50	Tr							Neg + Gr	Py	M	Qtz 1579[7]-1580[1]
85	1951 / 13	Tr							Neg + Gr	Py	M + An?	Cont 1580[9]
90	1952 / 14	Tr							Neg + Gr	Py	An?	
95	1953 / 15	Tr							Neg + Gr	Py	An?	[illegible] 1593[6]-1597[0]
1600	1954 / 16	Tr							Neg + Gr	Py	An?	
10	1964	Tr							Neg + Gr	Py	An?	
15	1965 / 17	Tr							Neg + Gr	Py	An?	
										Sh[g]	Carb Sh. [illegible]	[illegible]-1618[0]
20	1966 / 18	Tr							Neg + Gr	Py	An?	[illegible]
23	1967 / 19	Tr							Gr + Neg	Py	An?	
									Sh[d]	Strong Carb. Alt.	[illegible] Carb 1620[?]	-1628[0] [illegible]
27	1968 / 20	Tr							Gr + Neg	Py [illegible]	An?	
30	1969 / 21	Tr										

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd
Sheet No. 8 9
Log Book No.

Direction
Date Begun
Dip

Location
Lat. Dep.
Bearing

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO2 %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
1630-1635	1970 622	Tr							Neg + Sl	Py	An?	[illegible] + Carb. [illegible]
40	1971 23	Tr							Neg + Sl	Py	An?	
1650	1972	Tr							Neg + Sl	Py	An?	Carb + [illegible]
60	73	Tr							Neg + Sl	Py	An?	
70	74	Tr							Neg + Sl	Py	An?	
80	75	Tr							Neg + Sl	Py	An?	
90	76	Tr							Neg + Sl	Py	An?	
1700	77	Tr							Neg + Sl	Py	An? + M	Cont 1693
10	78	Tr							Neg + Sl	Py	M	
20	79	Tr							Neg + Sl	Py	M	
25	1959	0.40							Neg + Sl	Py	M + An?	Cont 1721°
30	1960	Tr							Neg + Sl	Py	An?	? M 1725° - [illegible]
35	1961	Tr							Neg + Sl	Py	An?	Carb. [illegible] ? [illegible]
40	1962	Tr							Neg + Sl	Py	An?	" " " "
45	63	Tr							Neg + Sl	Py	An?	" " " "
50	64	Tr							Neg + Sl	Py	An?	" " " "
55	65	Tr							Neg + Sl	Py	An?	" "
60	66	Tr							Neg + Sl	Py	An?	" "
65	67	Tr							Neg + Sl	Py	An?	" + [illegible]
70	68	Tr							Neg + Sl	Py	An?	" " " "
	69	Tr							Neg + Sl	Py	An?	" " " "
	70	Tr							Neg + Sl	Py	An?	" " " "
	71	Tr							Neg + Sl	Py	An?	" " " "
	72	Tr							Neg + Sl	Py Po	An?	" " " "

[illegible]

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd Direction .... Location ....
Sheet No. 9 10 Date Begun .... Lat. .... Dep. ....
Log Book No. .... Dip .... Bearing ....

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	Type	Rocks	Contacts
1790-1795	1997 773	Tr							Neg & St	Py	An	
1800	1998 74	Tr							Neg & St	Py	An + M	Cont 1795
10	1996	Tr							Neg & St	Py	M	Carb. Sts 1800-1834
20	97	Tr							Neg & St	Py	M	
30	98	Tr							Neg & St	Py	M	
35	1999 775	Tr							Neg & St	Py	M + An	Cont 1831
40	2000 76	Tr							Neg & St	Py	An	
										Sh. Strong Carb. [illegible] 1835-1837		
45	2001 77	Tr							Neg & St	Py	An	
50	2002 78	Tr							Neg & St	Py	An	Pillows [illegible]-1871
										El. Alt. Carb. [illegible] 1830-1900		
55	2003 79	Tr						→	Neg St & Vl	Py	An	Change 1850
									Fractured Sections. El. [illegible] 1850-1861			
60	2004 80	Tr							Neg & St	Py	An	
65	2005 81	Tr							Neg & St	Py	An	
70	2006 82	Tr							Neg & St	Py	An	[illegible] 1855-1967
75	2007 83	Tr							Neg & St	Py	An	
80	2008 84	Tr							Neg & St	Py	An	
90	2009	Tr							Neg & St	Py	An	[illegible]
1900	10	Tr							Neg & St	Py	An	[illegible]
10	11	Tr							Neg & St	Py	An	561
20	12	Tr							Neg & St	Py	An	
30	13	Tr							Neg & St	Py	An	Change [illegible]
											[illegible]	1925-1935

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DIAMOND DRILL RECORD

Hole No. S-561 Cont'd Direction .... Location ....
Sheet No. 10 11 Date Begun .... Lat. .... Dep. ....
Log Book No. .... Dip .... Bearing ....

Depth Feet	Sample No.	Gold Oz.	Cu %	Zn %	Fe %	S %	SiO_2 %	Averages	MINERALIZATION Quantity	MINERALIZATION Type	Rocks	Contacts
1930-1940	2014	Tr							Neg + Gr	Py	An.	E.P. M.T. 1935.2-1935.9
50	15	Tr							Neg + Gr	Py	An.	
										E.P. M.T. Carb. Stor 1990.5-1997.0		
60	16	Tr							Neg + Gr	Py	An.	
70	17	Tr							Neg + Gr	Py	Ar.	
80	18	Tr							Neg + Gr	Py	Ar.	
90	19	Tr							Neg + Gr	Py	Ar.	
1997	2020	Tr							Neg + Gr	Py	Ar.	

Finished [illegible]

A N N E X E 3

RESULTATS D'ANALYSES CHIMIQUES

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QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

CERTIFICATE OF ANALYSIS

FOR SOQUEM
3108, Chemin Ste. Foy
Sainte Foy, Quebec
G1X 1P8

11-424

SERGE BUREAU

LAB NO.	SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	COPPER %	ZINC %			
3196	97,638	Trace	0.06					
7	9	0.005	0.03					
8	97,640	0.01	0.05					
9	1	0.045	0.01					
3200	2	0.16	0.22					
1	3	0.01	0.03					
2	4	0.005	0.03					
3203	97,645	Trace	0.02					

DATE
February 15, 1980

CERTIFIED CORRECT
M. Shaw

UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.
SAUF MENTION CONTRAIRE, LES ESSAIS POUR L'OR ET L'ARGENT, NE SONT PAS CORRIGES POUR LES PERTES ET GAINS QUI SONT INHERENTS AU PROCEDE D'ANALYSE.

CTA

ASSAYERS LIMITED

QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

CERTIFICATE OF ANALYSIS

FOR SOQUEM
3108 Chemin Ste-Foy,
Ste-Foy, Quebec

S. Bureau 11-424

LAB NO.	SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	COPPER %	ZINC %			
4813	97687	0.005	0.08					
4	97688	trace	0.04					
5	97690	0.005	0.02					
6	1	trace	0.03					
7	2	trace	0.02					
8	97693	trace	0.06					
9	97702	trace	n.d.					
4820	97703	0.01	0.02					
1	97707	0.105	0.10					
2	8	0.02	0.02					
3	9	0.005	0.09					
4	97710	trace	0.06					
5	1	trace	0.02					
7	97714	0.075	0.06					
8	5	0.02	0.04					

DATE March 10/1980

CERTIFIED CORRECT Joe Wilkes

UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.
SAUF MENTION CONTRAIRE, LES ESSAIS POUR L'OR ET L'ARGENT, NE SONT PAS CORRIGES POUR LES PERTES ET GAINS QUI SONT INHERENTS AU PROCEDE D'ANALYSE.

CTA

ASSAYERS LIMITED

QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

CERTIFICATE OF ANALYSIS

FOR SOQUEM,
3108 Chemin Ste-Foy,
Ste-Foy, Quebec.

S. Bureau,
No. 11-424

LAB NO.	SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	COPPER %	ZINC %			
3535	97606	0.005	0.04					
6	607	0.005	0.04					
7	608	0.005	0.15					
8	609	trace	0.01					
9	616	trace	n.d.					
3540	617	trace	0.01					
3545	623	trace	0.04					
6	624	trace	0.02					
7	625	trace	0.02					
8	626	trace	0.02					
9	627	0.015	0.03					
3550	629	trace	0.04					
1	97630	trace	n.d.					
2	631	0.005	0.01					
3	632	0.07	0.04					
4	633	0.01	0.02					
5	634	0.025	0.01					
6	635	trace	0.08					
3557	637	trace	0.04					
3563	97664	trace	0.02					

DATE
February 25, 1980

CERTIFIED CORRECT

UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.
SAUF MENTION CONTRAIRE, LES ESSAIS POUR L'OR ET L'ARGENT, NE SONT PAS CORRIGES POUR LES PERTES ET GAINS QUI SONT INHERENTS AU PROCEDE D'ANALYSE.

CTA

ASSAYERS LIMITED

QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

CERTIFICATE OF ANALYSIS

FOR SOQUEM,
3108 Chemin Ste-Foy,
Ste-Foy, Quebec.

S. Bureau
No. 11-424

LAB NO.	SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	COPPER %	ZINC %			
3564	97665	trace	0.06					
5	666	0.01	0.04					
6	667	0.005	0.02					
7	668	0.005	0.04					
3568	97669	0.02	0.04					

DATE

February 25, 1980

CERTIFIED CORRECT

Joe Webber

UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.
SAUF MENTION CONTRAIRE, LES ESSAIS POUR L'OR ET L'ARGENT, NE SONT PAS CORRIGES POUR LES PERTES ET GAINS QUI SONT INHERENTS AU PROCEDE D'ANALYSE.

CTA

ASSAYERS LIMITED

QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

CERTIFICATE OF ANALYSIS

FOR SOQUEM
3108, Chemin Ste. Foy
Sainte Foy, Quebec
G1X 1P8

SERGE BUREAU NO. 11-424

LAB NO.	SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	COPPER %	ZINC %			
3823	97,672	0.015	0.03					
4	3	0.005	0.02					
5	4	Trace	N.D.					
6	5	0.275	0.40					
7	6	0.92	0.80					
8	7	0.075	0.08					
3829	97,678	0.01	0.04					

DATE
February 26, 1980

CERTIFIED CORRECT

UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.
SAUF MENTION CONTRAIRE, LES ESSAIS POUR L'OR ET L'ARGENT, NE SONT PAS CORRIGES POUR LES PERTES ET GAINS QUI SONT INHERENTS AU PROCEDE D'ANALYSE.

ASSAYERS LIMITED

QUEBEC: 183 RUE GAMBLE O., C.P. 665 - ROUYN, J9X 2R8 - TEL: (819) 762-3010

ONTARIO: 20 VICTORIA STREET, SUITE 506 - TORONTO, M5C 2N8 - TEL: (416) 366-3100

CERTIFICATE OF ANALYSIS

FOR SOQUEM
3108 Chemin Ste Foy
Ste Foy, Quebec
G1X 1P8

S. Bureau 11-424

LAB NO.	SAMPLE NO.	GOLD OZ. PER TON	SILVER OZ. PER TON	COPPER %	ZINC %			
3971	097670	trace	0.02					
2	097671	0.01	0.01					
3	097681	0.01	0.01					
4	2	0.005	0.01					
5	3	0.105	0.05					
6	4	0.335	0.29					
7	5	0.025	0.02					
3978	097686	0.015	0.01					
4451	97696	0.005	0.06					
2	7	0.045	0.04					
3	8	0.085	0.08					
4	9	0.035	0.06					
4455	97700	0.025	0.04					

DATE March 6th, 1980

CERTIFIED CORRECT W. H. Shaw

UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.
SAUF MENTION CONTRAIRE, LES ESSAIS POUR L'OR ET L'ARGENT, NE SONT PAS CORRIGES POUR LES PERTES ET GAINS QUI SONT INHERENTS AU PROCEDE D'ANALYSE.

CTA

METRICLAB CASIER POSTAL 440, 3359 CHEMIN D'OKA
STE-MARTHE SUR LE LAC, QUÉ. J0N 1P0 TÉL. (514) 473-0920

SOQUEM,
2406 Quatre Bourgeois,
STE-FOY, Qué.
Compétence de

RÉSULTATS 04047 COMMANDE # 7279 PROJET # 11-424 DATE: 11/4/80
Note d'envoi: 4202
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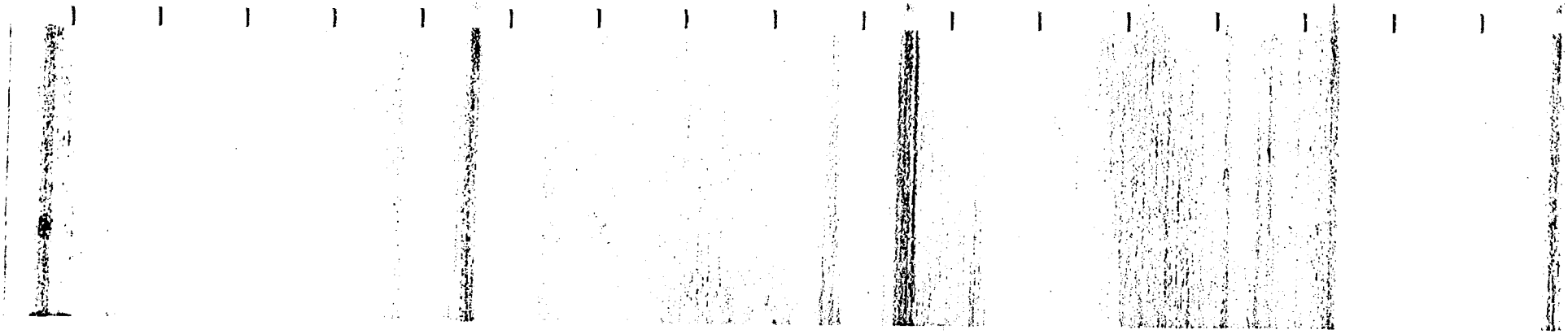
1	2	3	4	5	6	7	8	9	10	…	80

DÉBUT

TIDØN — TITRE DES DONNÉES : 40 Caractères

No de Référence	Ligne	SiO_2 / Cr_2O_3	Al_2O_3 / NiO	Fe_2O_3 / CoO	FeO / BaO	MgO / SrO	CaO / Li_2O	Na_2O / H_2O+	K_2O / H_2O-	TiO_2	P_2O_5	MnO	ZrO_2	CO_2	SO_3	Cl	F	S
97615	1	[illegible]	137[illegible]		1333	0393	0765	0298	0043	0157	0020	0028		0143				0039
97615	2								0029									
97612	1	5970	1590		0649	0258	0584	0327	0134	0080	0019	0013		0207				0001
97612	2								0134									
97628	1	5220	1397		1207	0554	0769	0307	0047	0131	0018	0024		0200				0001
97628	2								0107									
97636	1	5270	1452		0524	0200	0531	0462	0132	0073	0020	0010		0437				0001
97636	2								0802									
97679	1	5330	1390		1696	0441	0785	0333	0069	0125	0018	0024		0285				0036
97679	2								0000									
97680	1	5081	1327		1280	0582	0764	0276	0094	0116	0017	0029		0301				0102
97680	2								0000									

1	2	3	4	5	6	7	8	9	10	…	80



metriclab CASIER POSTAL 440, 3383 CHEMIN D'OKA
STE-MARTHE SUR LE LAC, QUÉ. J0N 1P0 TÉL. (514) 473-0920

SOQUEM,
2406 Quatre Bourgeois,
STE-FOY, Qué.
Compétence de

RÉSULTATS 04047 COMMANDE # 7279 PROJET # 11-424 DATE: 11/04/80
Note d'envoi: 4202

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 14 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

DÉBUT

TIDØN — TITRE DES DONNÉES : 40 Caractères

No de Référence		SiO_2	Al_2O_3	Fe_2O_3	FeO	MgO	CaO	Na_2O	K_2O	TiO_2	P_2O_5	MnO	ZrO_2	CO_2	SO_3	Cl	F	S
	1	Cr_2O_3	NiO	CoO	BaO	SrO	Li_2O	H_2O+	H_2O-									
97689	1	54501357		1111	0483	0733	0366	0051	0121	0017	0024		0230				0017	
97689	2								0003									
97699	1	53401283		1372	0418	0678	0353	0049	0157	0021	0028		0152				0679	
97699	2								0000									
97695	1	54941294		1279	0370	0529	0401	0077	0166	0023	0026		0191				0019	
97695	2								0051									
97701	1	51201385		1408	0482	0666	0334	0044	0161	0020	0028		0164				0401	
97701	2								0113									
97704	1	75101154		0172	0084	0214	0205	0299	0024	0017	0002		0173				0005	
97704	2								0082									
97705	1	45501336		1407	0522	0826	0132	0115	0135	0021	0023		0782				0083	
97705	2								0000									

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

METRILAB CASIER POSTAL 440, 3388 CHEMIN D'OKA
STE-MARTHE SUR LE LAC, QUÉ. J0N 1P0 TÉL. (514) 473-0920

SOQUEM,
2406 Quatre Bourgeois,
STE-FOY, Qué.
Compétence de

RÉSULTATS 04047 COMMANDE # 7279 PROJET # 11-424 DATE: 11/4/80
Note d'envoi: 4202

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

DÉBUT

TIDØN

TITRE DES DONNÉES : 40 Caractères

No de Référence		SiO_2	Al_2O_3	Fe_2O_3	FeO	MgO	CaO	Na_2O	K_2O	TiO_2	P_2O_5	MnO	ZrO_2	CO_2	SO_3	Cl	F	S
	1	Cr_2O_3	NiO	CoO	BaO	SrO	Li_2O	H_2O+	H_2O-									
9706	1	51501290			13780448	0540	0119	6	0074	0162	0022	0021			0407			0148
9706	2								0000									
9713	1	50801320			10240410	1908	2902	8	0049	0112	0018	0024			0697			0001
9713	2								0098									
	1																	
	2																	
	1																	
	2																	
	1																	
	2																	
	1																	
	2																	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

MONTMOLAB CASIER POSTAL 400, 5525 CHEMIN D'OKA
STE-MARTHE SUR LE LAC, QUÉ. J0N 1P0 TÉL. (514) 473-0520

11-424

PROJET,
2405 Chemin Pourcelle,
[illegible], Qué.

RÉSULTATS # 04047 COMMANDE # 7279 PROJET # DATE: 11/04/80

Note d'envoi: 4202

	Cu.	Pb	Zn	Ni	Conc.	Orig. Ag.	Au	IDENTIFICATION
1	9176015	93	18	58	22	42	.7	
2	9176013	80	14	57	24	26	.7	
3	9176029	33	8	59	31	42	.7	
4	9176036	41	8	50	24	28	.6	
5	9176079	105	9	65	38	52	.7	
6	9176080	68	11	76	43	64	1.01	
7	9176084	61	8	55	36	52	.7	
8	9176094	177	7	59	24	58	.7	
9	9176095	876	8	70	23	44	.6	
10	9177001	99	10	83	25	42	.7	
11	9177004	6	3	14	7	6	.2	
12	9177005	26	20	124	44	91	1.07	
13	9177006	167	16	111	35	77	1.05	
14	9177013	109	105	107	56	67	1.4	