

REPORT ON THE  
SUTTON PROPERTY

MORRISETTE TOWNSHIP  
KIRKLAND LAKE, ONTARIO

Submitted by:

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## Previous work

The Sutton claim units are located immediately north of the Kirana Mine. Although in close proximity to this mine, and along the same structure that mineralized it, the three claim units have no assessment work filed on them at the Mining Recorders office. The claims were patents until they came open in 2001 when I staked them. The only assessment work filed therefore was a more regional exploration programme carried out by Minnova in the period of 1987 to 1990. Minnova carried out extensive soil sampling, I.P. and magnetometer-VLF surveys, and did some drilling and trenching. They were focused on delineating gold zones such as the one at Kirana where 50,000 tons are reported to exist between surface and the top level at 0.48 ounce per ton (see Fig. #2, and #3). The shaft was reportedly sunk on a vein that returned "high values" in the shaft.

Minnova found difficulties in dealing with "cultural effects". Their geochemical soil surveys proved to be totally misleading due to the presence of wind-blown contaminants (tailings from nearby operations). They dropped the option due to overall unsatisfactory results. However, it appears that they did not drill the Kirana ore zone itself, and they did not follow up on some rather good individual results. Only one hole was drilled on the eastern part of the Kirana structure covering a one mile strike length; the hole they did drill is located on the Sutton claim. This hole, KIR-5, drilled in 1990, returned 6810 ppb (6.8 g/t) over 0.5 metre one vein, and 1669 ppb (1.7 g/t) over 0.3 metre on another. The intersections are 164, and 204 metres downhole (@-50 degrees) respectively. This hole was drilled to follow up on a previously drilled hole, V-79-1, that had returned 11.8 g/t over 1.0 metre (see figures #4,#5,#6, #7, and #8). There is no record of this hole at the ministry office. There were no drill sections or plans provided for assessment purposes by Minnova either. The only location plan provided is at a poor scale (see fig.#9).

There was a trench completed beside the highway on a gossanous zone, with very coarse pyrite, that graded up to 1650 ppb gold. This outcrop appears to line up with the intersections in the two holes. The Kirana Break is in close proximity to these intersections, and a strong I.P. anomaly is coincident with them (see attached plans).

## Project/Rationale

The project consists of the drilling of one 386' hole to further the size of the zone identified by the previous holes described above. As there exists a strong east-west Break, co-incident I.P. anomaly, and only two drill holes over a mile strike length of promising geology, both of which intersected relatively good grading gold values (close to economic for mining), the property deserved follow-up. Indeed, Minnova recommended that this one area be the final focus for their work; however the property was apparently dropped without follow-up (see fig.#10). The hole was spotted by me to intersect the zone at 150 feet west of 79-1. It was designed to be as perpendicular to the zone as possible, while utilizing an existing skidder trail (from previous drilling), and while keeping within the claim boundary. A long section has been developed using a grid perpendicular to the zone at roughly 321 degrees (see fig.#11). The drilling was done by Heath and Sherwood for \$12.95 per foot (all-inclusive), with no mod/demob due to the location so close to their operation.

## Results

The hole successfully intersected the moly-pyrite zone at approximately the same location of the previous drill holes (79-1, and KIR 5). The zone is located in all three holes in highly pyritic basalt breccia (flow top?), prior to entering Feldspar-Quartz Porphyry. Several very strong faults were intersected, two of which had appreciable graphite associated with them (see fig.#12 and #13). Which structure may be the Kirana Break is a matter of conjecture-perhaps this entire zone (virtually the whole hole) represents the deformation. The hole has significant narrow pale grey to dull white, quartz to cherty quartz to quartz-ankerite veining at various angles to the core, most of which have significant concentrations of pyrite.

## Conclusions

More drilling is definitely warranted, but the neighbouring claims should be acquired first, as mineralization may become stronger to the east. The intersection of this zone with the Porphyry would be a good target to evaluate. More sampling should be undertaken to ensure that nothing is missed. The question of whether this is basalt or andesite could be solved with whole-rock. The possibility of sphalerite in the core, or a near-by source for the extensive massive pyrite (VMS?), should be followed up with some whole-rock work.

## Bibliography

Minnova-1987-1990- "Kirana Property"-Daniel Bernard-resident geologists office

## Illustrations

Fig.#1 Stratigraphic Succession of the Kirkland Lake Area

Map#3 Location of claims vis-à-vis stratigraphy

Fig.#2 Minnova-resource in area

Fig.#3 Kirana Mine-veins in area

Fig.#4 Minnova-KIR-5 assays

Fig.#5 Minnova-79-1 assays

Fig.#6 Minnova-KIR-5 zone description

Fig.#7 Minnova-79-1 zone description

Fig.#8 Minnova-KIR-5 rationale

Fig.#9 Minnova-KIR-5& 79-1 location map

Fig.#10 Minnova-recommendations

Fig.#11 Zone Longitudinal Section

Fig.#12 Drill Hole MS-1 Section

Fig.#13 Drill Hole MS-1 Plan

Fig.#14 Drill Hole Plan relative to highway

Fig.#15 Drill Hole Plan relative to surface rights

**TABLE 1: STRATIGRAPHIC SUCCESSION OF THE KIRKLAND LAKE AREA.****SOUTH LIMB OF SYNCLINORIUM****Upper Supergroup****Timiskaming Group**

Volcanic rocks: Mafic, intermediate, felsic trachyte, and K-rich dacite and rhyolite flows and tuffs.

Sedimentary rocks: Fluvial conglomerate, sandstone, and argillite.

Intrusions: Stocks and dikes of syenodiorite, syenite, quartz monzonite, and lamprophyre.

**Blake River Group**

Volcanic rocks: Calc-alkalic basalt, andesite dacite and rhyolite flows and tuffs.

Sedimentary rocks: Volcaniclastic slump deposits.

Intrusion: Stocks and dikes of gabbro, quartz gabbro, hornblende gabbro, diorite, quartz diorite, and subvolcanic rhyolite domes.

**Kinojevis Group**

Volcanic rocks: Mg-rich and Fe-rich tholeiitic basalts, and tholeiitic andesite, dacite and rhyolite flows and tuffs.

Sedimentary rocks: Thin interflow argillite and chert.

Intrusions: Sills of Mg-rich and Fe-rich gabbro.

**Larder Lake Group**

Volcanic rocks: Flows of peridotitic and basaltic komatiite, and Mg-rich tholeiitic basalt, and minor

Fe-rich tholeiitic basalt, and minor Fe-rich tholeiitic basalts and interflow rhyolite tuff-breccias.

Sedimentary rocks: Turbiditic conglomerate, greywacke and argillite, and iron formation chert, limestone, and dolostone.

Intrusions: Sills and stocks of peridotite, pyroxenite, and gabbro.

**Lower Supergroup****(Unnamed Unit)**

(Conglomerate with trachyte and syenodiorite pebbles).

**Skead Group**

Volcanic rocks: Mainly calc-alkalic rhyolite tuff-breccia with some calc-alkalic basalt, andesite and dacite flows and tuff-breccias.

Sedimentary rocks: Chert and cherty argillite.

Intrusions: Stocks of feldspar porphyry and quartz diorite.

**Catherine Group**

Volcanic rocks: Mg-rich and Fe-rich tholeiitic basalts.

Sedimentary rocks: Interflow chert.

Intrusions: (None mapped)

**Wabewawa Group**

Volcanic rocks: Peridotitic and basaltic komatiite, Mg-rich tholeiite basalt and minor Fe-rich tholeiitic basalt, and a few interflow rhyolite tuffs.

Sedimentary rocks: (None mapped)

Intrusions: Layer sills (possibly flows) of dunite, pyroxenite, and gabbro.

**Pacaud Tuffs (Ridler 1970)**

Volcanic rocks: Calc-alkalic andesite, dacite, and rhyolite tuffs.

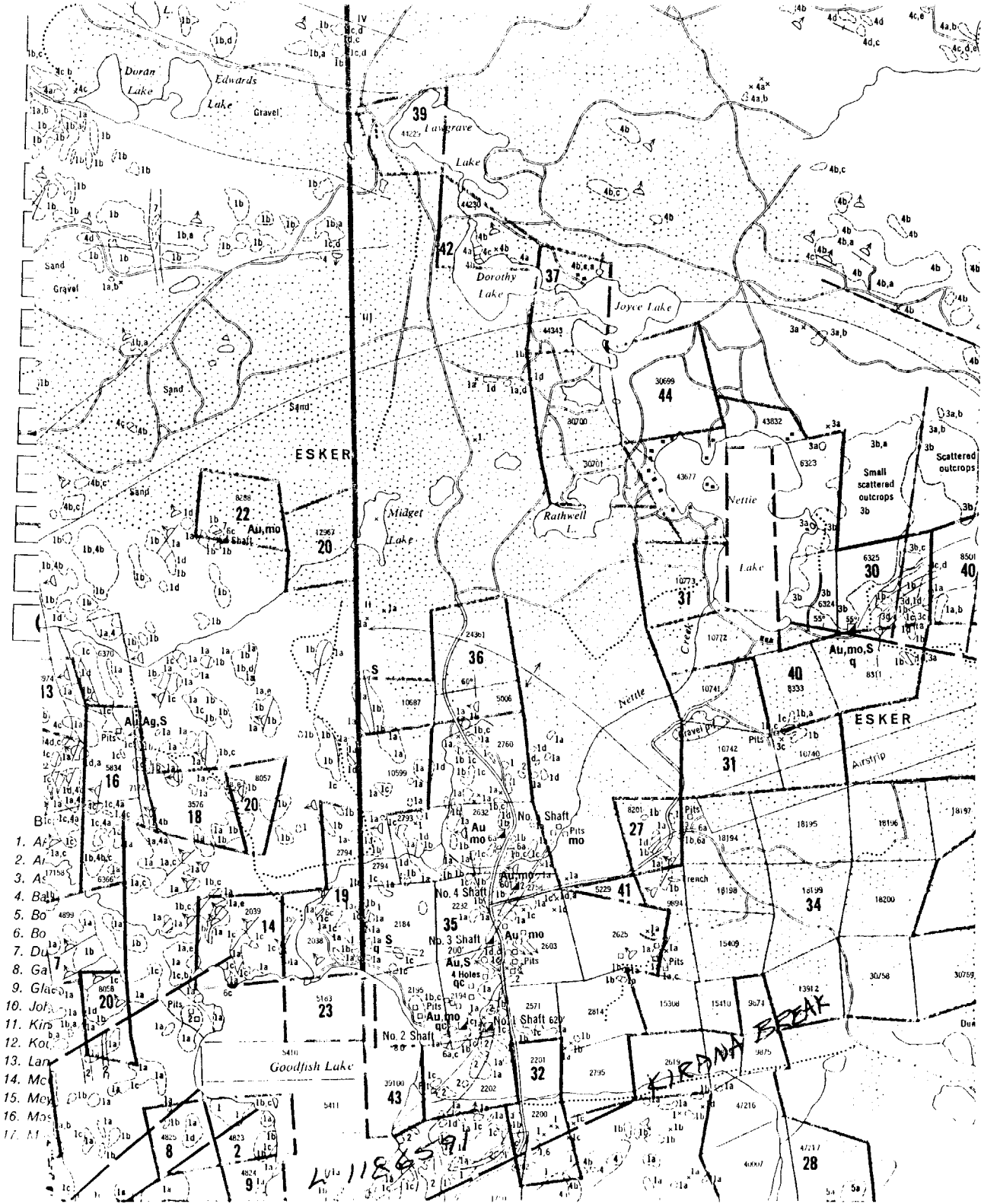
Sedimentary rocks: Chert, argillite, iron formation.

Intrusions: Trondhjemite of Round Lake Batholith.

From: Jensen and Langford 1985

FIGURE #1

ARNOLD TOWNSHIP



1. A...
2. A...
3. A...
4. B...
5. B...
6. B...
7. D...
8. G...
9. G...
10. J...
11. K...
12. K...
13. L...
14. M...
15. M...
16. M...
17. M...

MAP #2

W 11865



|||| BLAKE RIVER  
 ooo GAUTHIER GROUP FELSICS  
 vvvv KINO LEVIS

MAP # 3



KIRANA (PN 074)

P. Bertrand

INTRODUCTION

La propriété Kirana est située à 3km au Nord de Kirkland Lake. Elle comprend quelques 670 hectares dans les cantons Teck, Bernhardt, Morrisette et Lebel en Ontario.

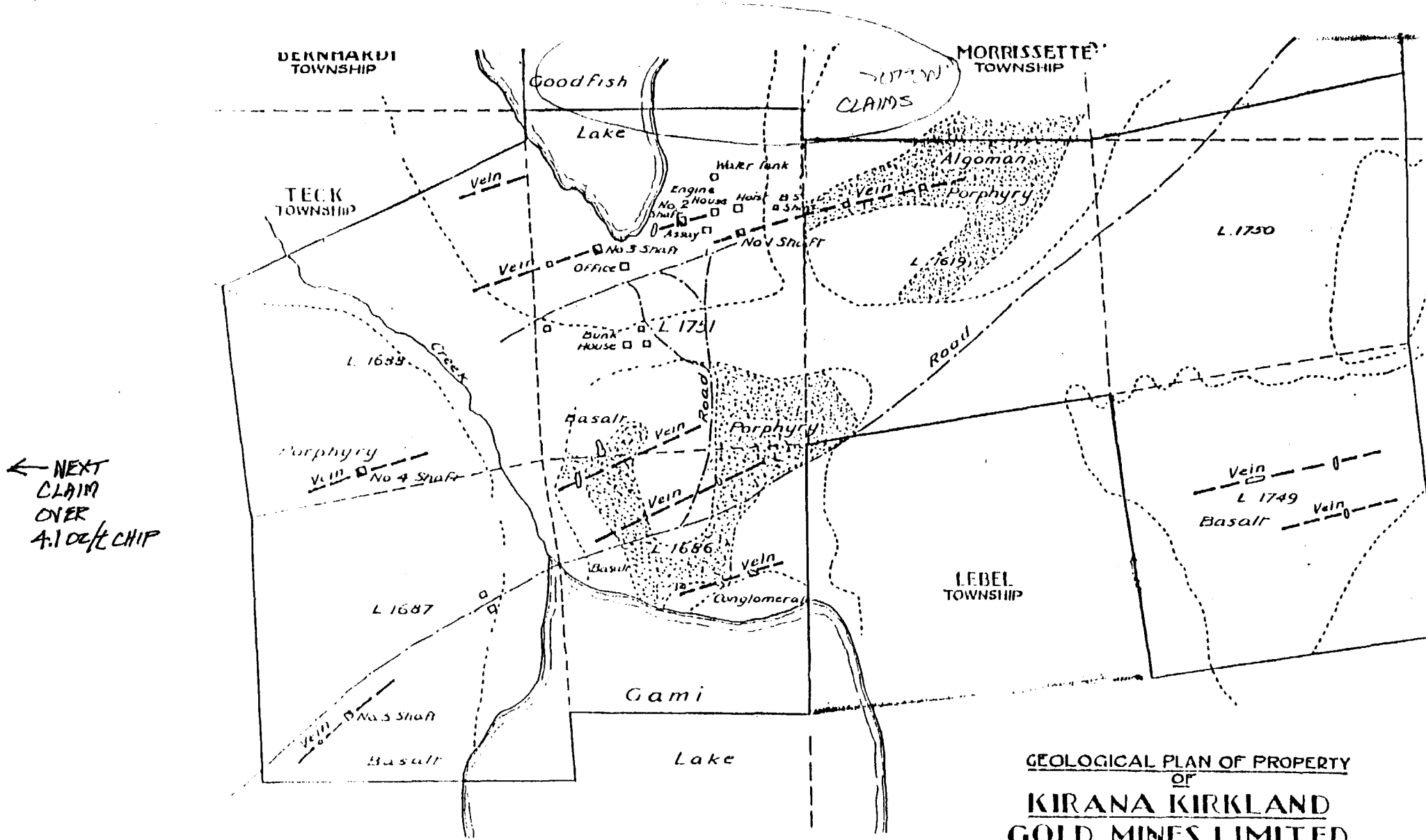
Cette propriété, optionnée de Nova Beaucage en 1987, a été évaluée tardivement en 1986. Les faits saillants sont un inventaire minéral de 50,000 tonnes à 0.48 oz/T Au et la présence de six (6) puits d'exploration peu profonds dans une zone de cisaillement virtuellement non testée sur plusieurs kilomètres.

PROGRAMME D'EXPLORATION DE MINNOVA EN 1987

Coupe de lignes:	Phase 1: 25.32km, Phase 2: 39.2km, Total: 64.52km
Géophysique:	Mag: 25.2km VLF: 25.2km Spectral IP "Test Survey": 1.7km Spectral IP: 7.5km
Géochimie:	Humus "Test Survey": 125 échantillons Lithogéochimie: ~25km
Géologie:	~25km
Décapage:	87 heures de pelle mécanique.
Echantillonnage (Scie à roche):	49 éch. totalisant 61.9m.
Forages:	KIR-1 0 - 181.4 = 181.4 mètres KIR-2 0 - 242.0 = 242.0 mètres KIR-3 0 - 181.1 = 181.1 mètres KIR-4 0 - 179.53 = 179.53 mètres

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Total 784 mètres

FIGURE #3



GEOLOGICAL PLAN OF PROPERTY  
OF  
**KIRANA KIRKLAND**  
**GOLD MINES LIMITED**  
DRAWN FROM ORIGINAL PLAN BY

F.C. LORING  
GEOLOGIST & MINING EN

FIGURE #1

NUMERO DU TROU: KIR-5

RESULTATS D'ANALYSE

DATE: 2-AVRIL-1990

Echant.	De (m)	à (m)	Long. (m)	ANALYSES				GEOCHIMIE						COMMENTAIRES
				Cu %	Zn %	Ag g/t	Au g/t	Cu ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Mo ppm	
54682	16.30	16.75	0.45	-	-	-	-	-	-	1.5	5	-	-	
54683	20.35	21.35	1.00	-	-	-	-	55	119	1.3	76	-	-	
54684	33.55	33.90	0.35	-	-	-	-	-	-	1.1	38	-	-	
54685	35.60	37.10	1.50	-	-	-	-	157	90	1.2	6	-	-	
54686	44.20	44.60	0.40	-	-	-	-	120	53	1.0	4	-	-	
54687	45.15	45.70	0.55	-	-	-	-	110	67	1.3	10	-	-	
54688	45.85	48.10	2.25	-	-	-	-	-	-	1.8	10	-	-	
54689	50.45	50.60	0.15	-	-	-	-	-	-	1.0	11	-	-	
54690	61.40	61.70	0.30	-	-	-	-	-	-	1.1	15	-	-	
54691	64.45	64.85	0.40	-	-	-	-	-	-	1.1	40	-	-	
54692	65.80	66.10	0.30	-	-	-	-	-	-	2.2	60	-	-	
54693	71.95	72.25	0.30	-	-	-	-	-	-	0.9	27	-	-	
54694	76.60	77.10	0.50	-	-	-	-	289	111	1.9	12	-	-	
54695	77.10	78.60	1.50	-	-	-	-	153	126	1.3	10	-	-	
54696	96.90	98.40	1.50	-	-	-	-	-	-	1.1	8	-	-	
54697	99.40	100.50	1.10	-	-	-	-	-	-	0.8	8	-	-	
54698	100.80	101.10	0.30	-	-	-	-	-	-	0.8	12	-	-	
54699	110.75	111.40	0.65	-	-	-	-	-	-	0.4	7	-	-	
54700	112.95	113.20	0.25	-	-	-	-	-	-	1.0	194	-	-	
54701	120.20	120.40	0.20	-	-	-	-	-	-	0.8	135	-	-	
54702	122.60	123.30	0.70	-	-	-	-	490	137	1.0	39	-	-	
54703	125.40	125.70	0.30	-	-	-	-	-	-	1.8	439	-	-	
54704	139.70	140.80	1.10	-	-	-	-	-	-	1.4	11	-	-	
54705	140.80	142.00	1.20	-	-	-	-	-	-	0.7	41	-	-	
54706	142.00	143.00	1.00	-	-	-	-	-	-	0.9	10	-	-	
54707	155.75	156.70	0.95	-	-	-	-	-	-	1.7	112	-	-	
54708	159.20	159.90	0.70	-	-	-	-	-	-	1.0	21	-	-	
54709	159.90	160.90	1.00	-	-	-	-	-	-	0.9	625	-	-	
54710	160.90	161.80	0.90	-	-	-	-	-	-	1.0	20	-	-	
54711	161.80	162.60	0.80	-	-	-	-	-	-	0.9	17	-	-	
54712	162.60	163.40	0.80	-	-	-	-	-	-	0.6	140	-	-	
54713	163.40	164.00	0.60	-	-	-	-	-	-	0.5	130	-	-	
54714	164.00	164.50	0.50	-	-	-	-	-	-	0.6	6810	-	-	
54715	164.50	165.20	0.70	-	-	-	-	-	-	1.0	230	-	-	
54716	165.20	166.70	1.50	-	-	-	-	-	-	0.8	148	-	-	
54717	166.70	168.70	2.00	-	-	-	-	-	-	1.0	148	-	-	
54718	168.70	168.90	0.20	-	-	-	-	-	-	0.7	72	-	-	
54719	168.90	170.40	1.50	-	-	-	-	-	-	1.4	99	-	-	
54720	170.40	170.85	0.45	-	-	-	-	-	-	0.8	94	-	-	
54721	170.85	171.90	1.05	-	-	-	-	-	-	0.7	107	-	-	
54722	171.90	172.80	0.90	-	-	-	-	-	-	2.0	121	-	-	
54723	188.90	189.50	0.60	-	-	-	-	-	-	0.6	129	-	-	
54724	204.20	204.50	0.30	-	-	-	-	-	-	1.1	1669	-	-	

1250 4117  
1600 4200  
1250

71214 F 015

NUMERO DU TROU: 79-1

RESULTATS D'ANALYSE

DATE: 30-MARS-1990

Echant.	De (m)	à (m)	Long. (m)	ANALYSES				GEOCHIMIE						COMMENTAIRES
				Cu %	Zn %	Ag g/t	Au g/t	Cu ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Mo ppm	
51835	10.65	11.90	1.25	-	-	-	-	-	-	1.0	35	-	-	
653	11.90	12.20	0.30	-	-	-	-	-	-	-	70	-	-	
51836	14.65	15.25	0.60	-	-	-	-	-	-	1.0	20	-	-	
668	15.25	16.00	0.75	-	-	-	-	-	-	-	70	-	-	
634	16.00	16.45	0.45	-	-	-	-	-	-	-	340	-	-	
669	16.45	17.35	0.90	-	-	-	-	-	-	-	690	-	-	
51837	17.90	18.75	0.85	-	-	-	-	-	-	1.0	113	-	-	
51838	19.70	20.05	0.35	-	-	-	-	-	-	1.0	218	-	-	
51839	26.75	28.05	1.30	-	-	-	-	51	-	1.0	18	-	-	
650	28.05	28.65	0.60	-	-	-	-	-	-	-	NIL	-	-	
51840	30.40	31.65	1.25	-	-	-	-	50	-	0.9	11	-	-	
658	33.40	33.85	0.45	-	-	-	-	-	-	-	70	-	-	
51841	34.55	34.85	0.30	-	-	-	-	1140	-	1.0	91	-	-	
618	36.10	36.65	0.55	-	-	-	-	-	-	-	70	-	-	
620	37.30	37.95	0.65	-	-	-	-	-	-	-	70	-	-	
656	39.60	40.35	0.75	-	-	-	-	-	-	-	-	-	-	
51842	41.25	41.75	0.50	-	-	-	-	-	-	0.9	40	2.5	1.0	
641	41.25	41.75	0.50	-	-	-	-	-	-	-	70	-	-	
51843	41.75	42.75	1.00	-	-	-	-	-	-	10.4	11885	112.0	5300	
606	41.75	42.75	1.00	-	-	-	-	-	-	-	24340	-	4900	
51844	42.75	43.40	0.65	-	-	-	-	-	-	1.0	550	6.0	140	
635	42.75	43.40	0.65	-	-	-	-	-	-	-	340	-	-	
636	43.40	44.00	0.60	-	-	-	-	-	-	-	70	-	-	
637	44.00	44.80	0.80	-	-	-	-	-	-	-	170	-	-	
638	44.80	45.40	0.60	-	-	-	-	-	-	-	340	-	-	
639	45.40	46.00	0.60	-	-	-	-	-	-	-	340	-	-	
640	46.00	46.30	0.30	-	-	-	-	-	-	-	70	-	-	
657	48.50	49.10	0.60	-	-	-	-	-	-	-	-	-	-	
652	49.10	49.70	0.60	-	-	-	-	-	-	-	340	-	-	
642	66.15	66.65	0.50	-	-	-	-	-	-	-	70	-	-	
607	68.90	69.30	0.40	-	-	-	-	-	-	-	70	-	-	
621	70.90	71.30	0.40	-	-	-	-	-	-	-	70	-	-	
663	74.05	74.70	0.65	-	-	-	-	-	-	-	-	-	-	
608	74.70	75.30	0.60	-	-	-	-	-	-	-	70	-	-	
664	75.30	75.60	0.30	-	-	-	-	-	-	-	-	-	-	
51845	75.60	76.60	1.00	-	-	-	-	-	-	1.0	120	-	-	
51846	79.70	80.60	0.90	-	-	-	-	-	-	0.9	125	-	-	
51847	80.60	81.40	0.80	-	-	-	-	-	-	0.9	67	-	-	
617	81.40	81.70	0.30	-	-	-	-	-	-	-	170	-	-	
667	81.90	82.50	0.60	-	-	-	-	-	-	-	-	-	-	
51848	82.90	83.10	0.20	-	-	-	-	-	-	0.9	16	-	-	
666	83.50	83.80	0.30	-	-	-	-	-	-	-	-	-	-	
51849	84.45	84.75	0.30	-	-	-	-	-	-	0.7	123	-	-	

DE A	TYPE DE ROCHE	TEXTURE ET STRUCTURE	ANGLE A/C	ALTERATION	MINERALISATION	REMARQUES
					160.90 - 162.60: Jusqu'à 20% de veinules et 22-32 pyrite et tr. Aspy.	160.90 - 161.80: LDX - 54710. 161.80 - 162.60: LDX - 54711.
162.60 A 168.90	«DY - ALT.»	-Roche volcanique massive très finement grenue de couleur verdâtre. -Nombreuses fractures remplies de chlorite ± qtz ± Fe Dol. -Nombreuses veinules de quartz-Fe Dol. ± pyrite.   163.40-164.50 : «Flc 55°-VG» Cisaillement intensément silicifié avec 1% séricite, fuchsite?, et dolomie ferrifère. Teinte bleutée est peut-être reliée à la présence de Molybdénite. Contact supérieur net à 55° A.C. plans de séricite à 55° A.C. également.		-Silicification avec peut-être séricite et fuchsite.	- 12-32 de pyrite fine irrégulière, tr. Aspy., tr. Cpy.  -Contient 22-32 de pyrite avec peut-être Aspy. à 3 points d'or visibles. -Molybdénite?	162.60 - 163.40: LDX - 54712.  163.40 - 164.00: LDX - 54713. 164.00 - 164.50: LDX - 54714.
					164.50 - 165.20: Idée à 162.60 avec 5% de pyrite. Forte silicification.	164.50 - 165.20: LDX - 54715.
					165.20 - 168.70: Dyke moins altéré avec 32-52 de pyrite très très fine.	165.20 - 166.70: LDX - 54716. 166.70 à 168.70: LDX - 54717.
					168.70-168.90 : «Flc 55°» Cisaillement injecté à 80% de quartz-Fe Dol. avec 32 pyrite (Aspy?)	168.70 - 168.90: LDX - 54718.
168.90 A 172.80	«BAS BX» «SIL»	-Basalte bréchique probablement coussiné de couleur vert pâle blafard. -Matériel hyaloclastite abondant entre les fragments. -Non vésiculaire. -Aphyrique. - 51-71 de veinules désordonnées de quartz-Fe Calcite ± pyrite ± Cpy. -Suite de la zone altérée minéralisée. -Contact inférieur = 55° A.C.		-Silicification forte avec probablement léger "bleaching" donnant la couleur blafarde. -Carbonatation faible à modérée: Fe-Dol.  -Silicification et bleaching diminue rapidement vers la fin.	- 32-52 de pyrite inter-hyaloclastite et dans les veinules. -Tr. Cpy. (Aspy?)  170.40 - 170.85: 52-72 pyrite avec veinules de quartz-Fe Dol. de 5cm de large à 35° A.C.  171.90 - 172.80: Avec une veinule de quartz-Fe Dol. de 5cm de large à 50° A.C.: 32-52 pyrite, tr. Cpy Aspy?	168.90 - 170.40: LDX - 54719. 170.40 - 170.85: LDX - 54720. 170.70 - 172.20: Litho LDX - 53961. 170.85 - 171.90: LDX - 54721. 171.90 - 172.80: LDX - 54722.

DE A	TYPE DE ROCHE	TEXTURE ET STRUCTURE	ANGLE A/C	ALTERATION	MINERALISATION	REMARQUES
21.00 A 56.60	Andésite Bréchifiée (And. Bx)	-Bréchification in situ primaire avec matériel hyaloclastique. -Vert moyen, loc. grisâtre. -Fragments de 1mm à 7cm. -Aphanitique. -Peu fracturé sauf localement. - 25% à 30% de frag. globalement.		-Relativement peu altéré, un peu carbonatisé. -Légèrement chloriteux.	-Peu minéralisé sauf localement.	
						21.00 à 24.00: Gén. LDX - 50867.
					26.75 à 28.05: 5% qtz - calcite fines veinules désordonnées, tr. Cpy., Po (?), < 1% Py. LDX - 51839.	28.05 à 28.65: # 650. Nil.
				30.40 à 31.65: Similaire à 51839. LDX - 51840.		33.40 à 33.85: # 658, 1 sept. 0.002 Oz/T Au
				34.55 à 34.85: Similaire avec 0.3% Cpy Po? LDX - 51841.		36.10 à 36.65: # 618. 19 août 79, 0.002 Oz/T Au
						37.30 à 37.95: # 620. 0.002 Oz/T Au
						39.60 à 40.35: # 656, sept. 1, nil
				41.25 à 41.75: Lég. silicifié. Rien de particulier. < 1% Sulfures. LDX - 51842.		41.25 à 41.75: # 641, 25 août 87, 0.002 Oz/T Au
				41.75 à 42.75: Riche en Mos <sub>2</sub> , Py. en remplissage et plaqué dans les fractures, 5% à 7% Py., 7% à 10% Mos <sub>2</sub> , Py. également diss. LDX - 51843.		41.75 à 42.75: # 606, 19 août 79, 0.71 Oz/T Au ? Ag
				42.75 à 43.40: Similaire à 51842. Tr. Sulfures.		42.75 à 43.40: # 635, 25 août 79, 0.01 Oz/T Au
						43.40 à 44.00: 25 août, # 636 0.002 Oz/T Au
						44.00 à 44.80: # 637, 25 août 79, 0.005 Oz/T Au

FIGURE #8

YEAR	HOLE NUMBER	LOCATION	ORIENTATION	LENGTH (m)	TARGETS
1987	KIR-1	1+63 N 3+42 W	180°/-45°	181.40	down-dip extension of the no. 1 shaft mineralization.
	KIR-2	2+23 N 1+50 W	180°/-60°	242.00	same as KIR-1.
	KIR-3	2+55 N 0+50 W	180°/-45°	181.10	same as KIR-1.
	KIR-4	2+74 N 0+46 E	180°/-45°	179.55	same as KIR-1.
1988	KIR-5	6+52 N 6+45 E	117°/-50°	307.90	down-dip extension of V-79-1 gold intersection (11.8 gr/1.0 m) and I.P. anomaly.
	KIR-6	2+15 S 1+00 E	180°/-50°	326.00	humus and I.P. anomalies.
	KIR-7	2+87 N 0+00 E	210°/-45°	219.45	follow-up on KIR-3 (21.0 gr/0.4 m) and to test a possible fault at 325°.
	KIR-8	1+80 S 9+50 W	260°/-45°	253.00	down-dip extension of the Fidelity shaft mineralization and the Py-Mo-Au showing.
	KIR-9	1+05 N 16+00 W	090°/-45°	152.50	intersection of two interpreted faults near a humus anomaly.
	KIR-10	7+40 S 10+00 W	180°/-45°	155.45	geophysically interpreted fault near a humus and I.P. anomalies.
	KIR-11	0+70 N 0+50 W	180°/-45°	155.45	stratigraphic drill hole near a VLF conductor.
1989	KIR-12	7+10 N 7+00 E	117°/-45°	96.60	follow -up on V-79-1 and KIR-5.
	KIR-13	4+15 N 4+34 E	117°/-45°	121.00	intersection of the "major" shear zone with the QPP in a gold anomalous area.
	KIR-14	0+45 S 7+00 E	180°/-45°	148.40	south-west extension of the gold anomalous area near an I.P. anomaly and a VLF conductor.

TABLE 4: List of holes drilled by MINNOVA on the Kirana property.

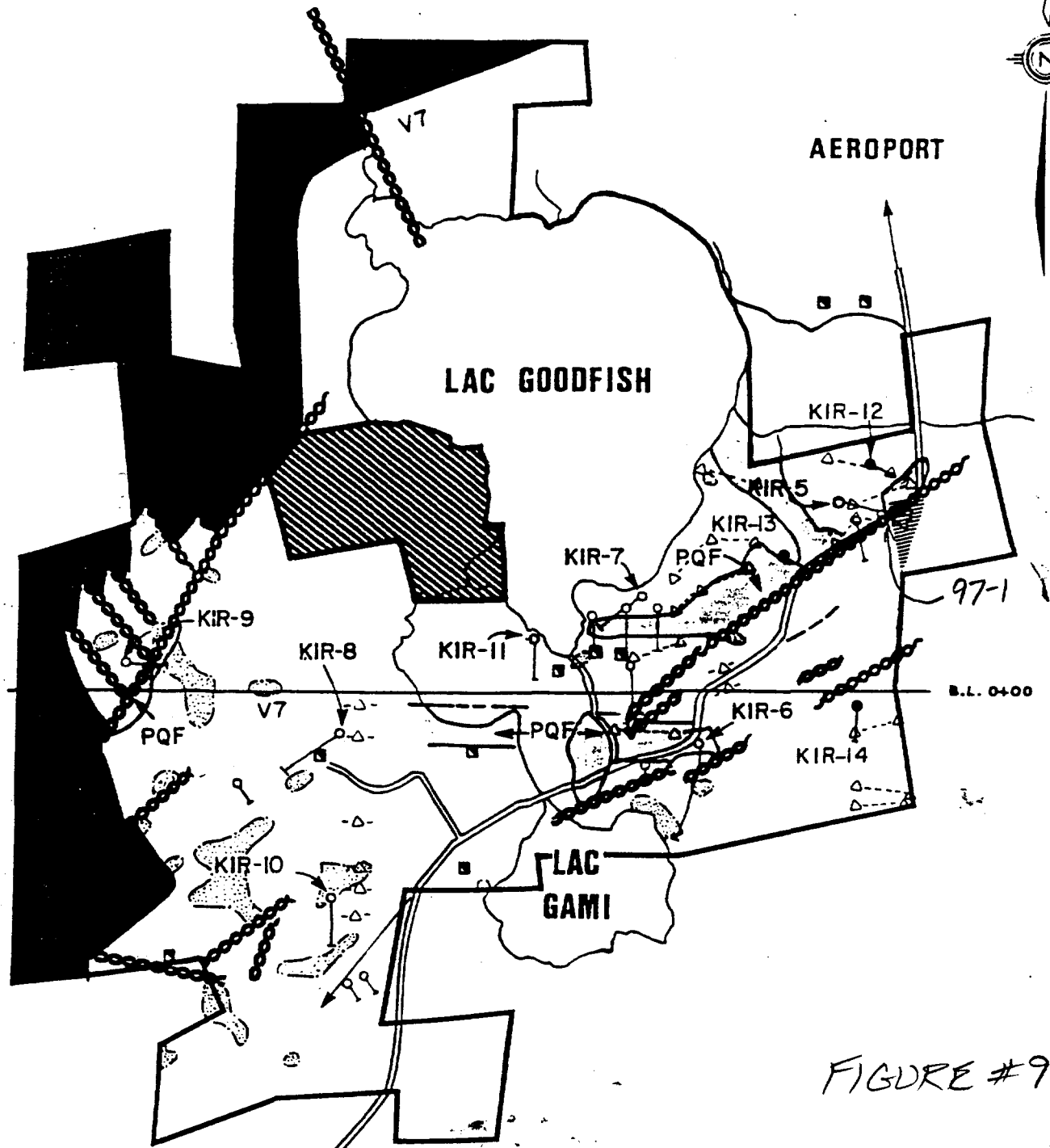


FIGURE #9



LEGENDE

- BASALTE PORPHYRIQUE
- BASALTE APHYRIQUE
- QUARTZ-FELDSPATH-PORPHYRIQUE
- CONTACTS GEOLOGIQUES
- ZONE DE CISAILLEMENT OU FAILLE
- ANOMALIES D'HUMUS
- ANOMALIES D'AXE I.P.
- PUIITS
- SONDAGES 1989

MINNOVA Inc.

PROPRIETE KIRANA (674)

ECHELLE	S.N.R.C.	DATE	PAR	FIGURE
		Jan. 90	D. B	



Forages	Cibles	Longueur
KIR-5	Anomalie P.P. et vérifier l'intersection aurifère de V-79-1 (11,8 gr/t sur 1,0 mètre)	307,9 m
KIR-6	Anomalies P.P. et d'humus	326,0 m
KIR-7	Suivi sur KIR-3 (21,0 gr/t Au sur 0,4 mètre) et vérifier une faille probable à N325°	219,5 m
KIR-8	Tester la minéralisation du puits Fidelity et l'indice Py-Mo-Au découvert en 1988	253,0 m
KIR-9	Tester la rencontre de 2 failles près d'un secteur fortement carbonatisé et d'une anomalie d'humus	152,5 m
KIR-10	Vérifier une faille géophysique près d'une anomalie d'humus et une faible anomalie P.P.	155,5 m
KIR-11	Forage géologique près du puits #1 et tester un conducteur VLF	155,5 m
TOTAL		1569,95 m

La campagne de forage de 1988 s'avère décevante; aucune intersection aurifère significative n'a été rencontrée dans les forages KIR 6-7-8-9-10 et 11. Seul le forage KIR-5 a recoupé des zones altérées et des zones de cisaillement aurifères avec présence d'or visible. La meilleure valeur obtenue a été de 6,8 gr/t Au sur 0,5 mètre, à l'intérieur d'une zone anormale de 13,6 mètres titrant 241 ppb Au.

#### RECOMMANDATIONS

En 1989, il est recommandé de terminer les travaux de cartographie. Une attention particulière sera portée au secteur de V-79-1 et KIR-5, où les meilleurs résultats ont jusqu'à présent été obtenus. La présence d'un till de base enrichi en Au-As-Sb devra être confirmée. Finalement, 600 mètres de forages sont proposés dans les secteurs jugés favorables.

FIGURE #10

SURFACE

ⓐ

ⓑ

ⓒ

M3-1  
MOUY  $\frac{46.9 \text{ g/t}}{0.3 \text{ m}}$

79-1  
MOUY  $\frac{11.8 \text{ g/t}}{1.0 \text{ m}}$

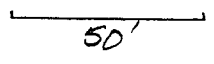
PROPERTY BOUNDARY

24282  
1186591

K15  
MOUY  $\frac{6.8 \text{ g/t}}{0.5 \text{ m}}$

LONGITUDINAL  
SECTION

SCALE 1" = 50'



LOOKING NORTHWEST @ 321°

FIGURE #11

327° ←

-45°

SURFACE

→ 147°

CLAIM #  
L1186591

QUARTZ VEIN ———  
 FAULT ~~~~  
 CONTACT - - -  
 GRAPHITE ———  
 FOLIATION  
 & PYRITE <—>

CLAIM  
L1186591 CLAIM  
L4282

SCALE:  
 1" = 50'  
 50'

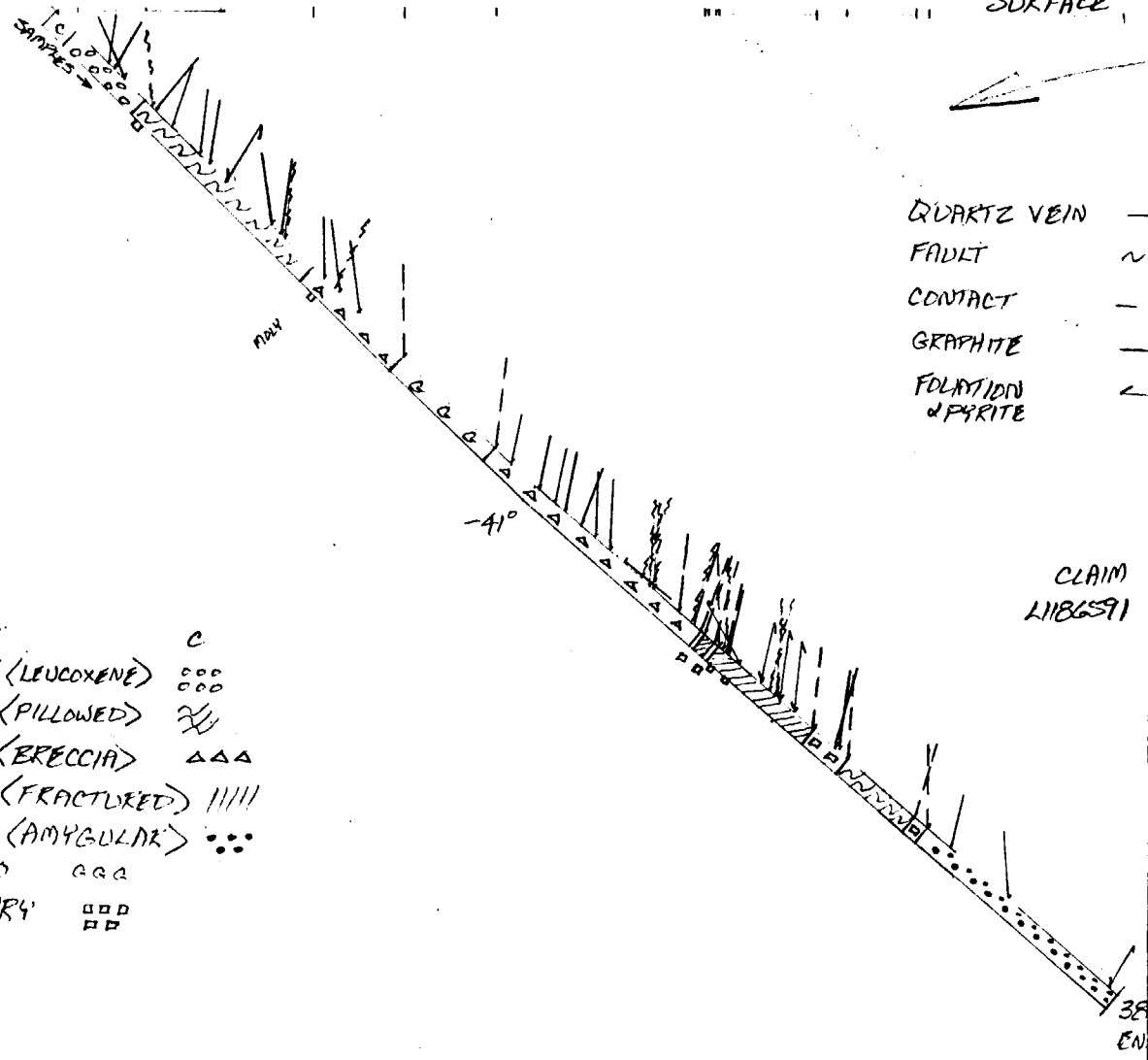
CASING C  
 BASALT (LEUCOXENE) ooo  
 BASALT (PILLOWED) ~~~~~  
 BASALT (BRECCIA) ▲▲▲  
 BASALT (FRACTURED) |||||  
 BASALT (AMYGULAR) ●●●  
 GABERCO ggg  
 PORPHYRY □□□  
 □□

HOLE  
M3-1

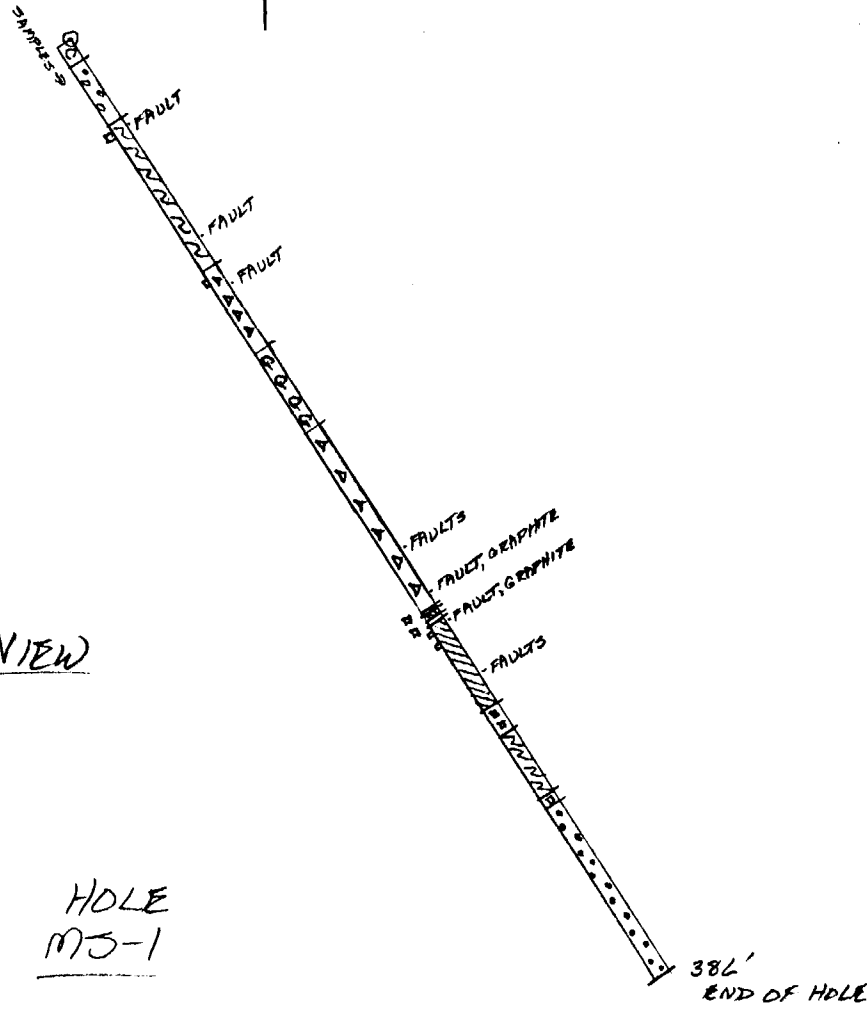
SECTION VIEW  
 <LOOKING NORTHEAST 057°>

381'  
END OF HOLE

FIGURE #12



↑ NORTH (ASTRONOMIC)  
USING 11° W

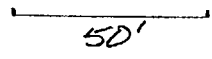


PLAN VIEW

HOLE  
MS-1

CASING	CCCC
BASALT (LAFODIENE)	•••••
BASALT (FOLLOWED)	MNNN
BASALT (BRECCIA)	AAAA
BASALT (FRACTURED)	
BASALT (AMYGDALAR)	•••••
GABBRO	GGGGG
PORPHYRY	RRRRR

SCALE  
1" = 50'



AZIMUTH 147°

CLAIM # L1186591

FIGURE # 13

1400 N

1200 N

1000 N

800 N

600 N

TL 4+75 N

400 N

200 N

L-2201

L-2200

477265

KIRK

IP

79-1  
\$

PLAN  
FIELD  
FIGURE 11

CANTON MORRISETTE

CANTON LEVEL

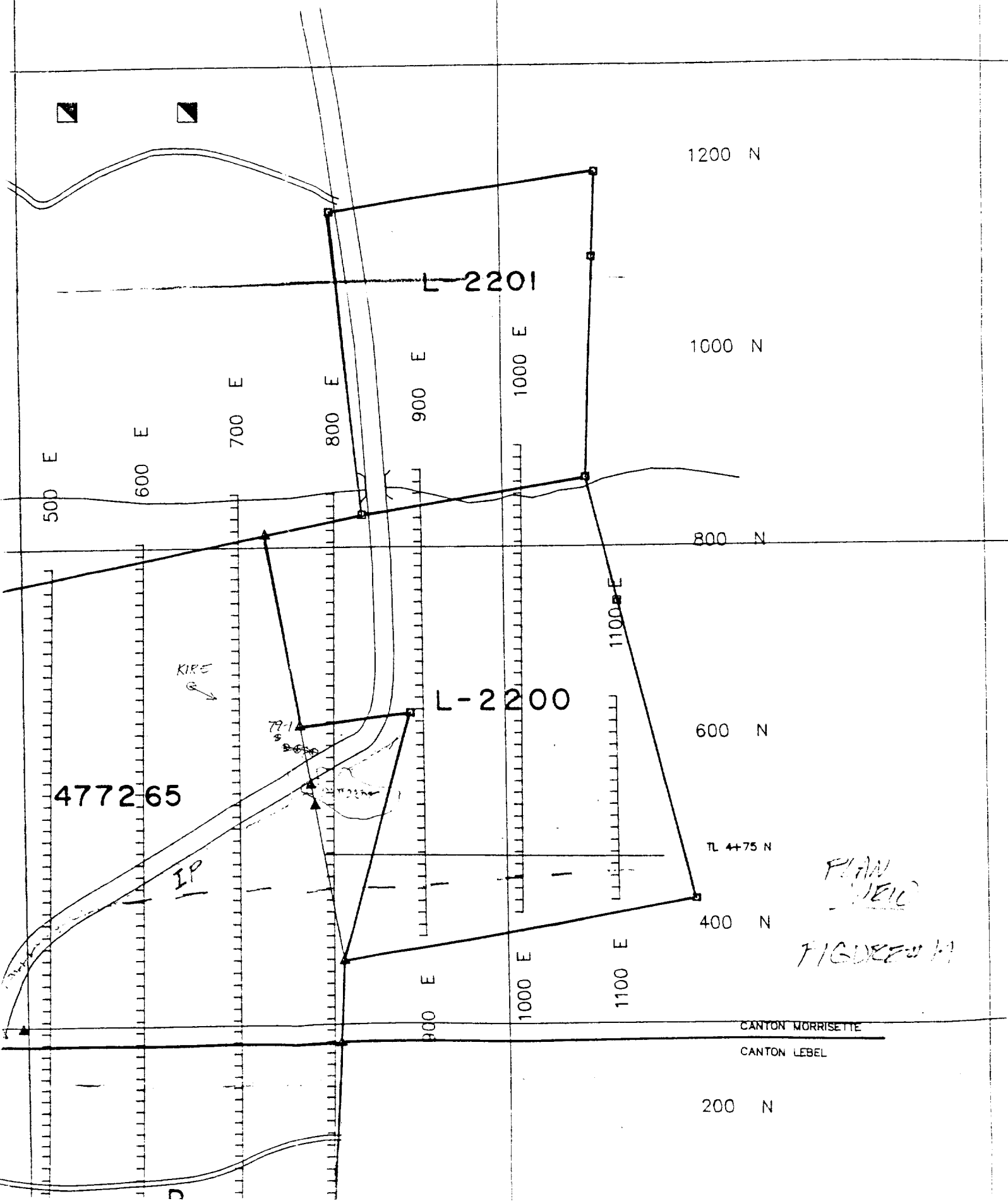


FIGURE #15

PARCEL 2657, TEM.

L 2200

IB BY G.F. SUMMERS, O.L.S.  
 REPLACED WITH S.S. IB  
 8" 4" x 4" SPRUCE POST  
 SET B.T.'S:  
 7" POPLAR - N55°17'E 9'  
 7" POPLAR - S53°21'E 6'

IB BY C.F. SUMMERS, O.L.S.  
 REPLACED WITH S.S. IB  
 8" 6" x 6" SPRUCE POST  
 SET B.T.'S:  
 4" BALSAM - S29°40'W 10.24'  
 3" BALSAM - S86°08'W 14.76'

IB BY J.A. BROWN, O.L.S.  
 REPLACED WITH S.S. IB  
 4" x 4" SPRUCE POST  
 SET B.T.'S:  
 16" BALSAM - N12°51'E 39.68'  
 14" BIRCH - S65°21'E 14.00'

PART		I
400' RES.	3.08	Ac.
300' RES.	18.87	Ac.
HWY R/W.	2.09	Ac.
REM LAND	32.57	Ac.
TOTAL	56.61	Ac.

L

477265

PLAN VIEW

300' SURFACE RIGHTS RESERVATION

PART 2

PART 3

SURFACE RIGHTS RESERVATION

ROAD

PARCEL 2654, TEM.

PARCEL 2654, TEM.

RESEAR

CE POST  
 4°39'E  
 19°51'E  
 40"E  
 3'  
 58'40"E

RIGHTS

SIB 8" 6" x 6" SPRUCE POST  
 SET B.T.'S:  
 4" BALSAM - S4°36'W 7.50'  
 6" BALSAM - N7°00'15"W 18.71'

RES- 0.10 Ac.  
 RES- 11.29 Ac.  
 ? - 8.86 Ac.  
 -AND- 8.83 Ac.  
 - 29.08 Ac.

R=553.87'  
 A=468.21'  
 C=481.58'  
 N38°39'53"E

R=487.87'  
 A=438.84'  
 C=424.19'  
 N38°39'53"E

R=848.47'  
 A=172.52'  
 C=172.23'  
 N58°36'52"E

R=914.47'  
 A=151.98'  
 C=151.80'  
 N59°40'10"E

1410.00'

465.82'

665.94 (MEAS)  
 (L2200)

870.50'

821.02 (L4282)  
 820.90 (MEAS)

542.68'

N9°49'W  
 N9°46'W  
 N9°46'W

N9°49'W  
 N9°46'W

N9°46'W

N9°46'W

N9°46'W

N9°46'W  
 73.66'

655.46'

655.46'

66.00'

N64°26'E  
 N25°14'W  
 66.00'

N64°26'E

AIRPORT

19.62'

Reçu de  
Received from

MICHAEL SUTTON

Date AUGUST 5, 2003

FIVE THOUSAND

XX  
100 Dollars

FOR DRILLING ON MORRISETTE TWP. MINING CLAIM

\$ 5,000.00

No. \_\_\_\_\_

N° d'enr. de taxe  
Tax Reg. No.:

HEATH & SHERWOOD DRILLING (1986) INC.

Ron Sulist

## **Certification of Qualifications**

*I, Michael Sutton, do hereby certify:*

*1) that I am a Geologist and reside at Box 534, Kirkland Lake, Ontario, P2N3J5, (Crystal Lake)*

*2) that I graduated in 1984 from the University of Toronto, with an Honours Bachelor of Science Degree in Geology*

*3) that I have practiced my profession continuously since graduation, mostly related to gold mining or exploration; mines I have worked at include Witwatersrand Nigel (South Africa), Renabie (Missanabie, Ont.), Holt-McDermott (Kirkland Lake), and Macassa (Kirkland Lake)*

*4) that my report on this property is based on my experience and on my knowledge of the geology of ~~XXXXXX~~ Township*

*NORRIS-TTZE*

*Respectively submitted,*



*Michael Sutton*

*Geologist/Prospector*

*Sept. 14/98*





Drilling Log  
forage au  
diamant

> BQ CORE

Complete this form and  
related sketch in duplicate.  
Remplir en deux exemplaires la  
présente formule et le croquis annexé

Fill in on every page  
Remplir ces cases à  
chaque page

Hole No. Forage n°  
MS-1

Page No. Page n°  
1

Drilling Company Compagnie de forage <b>HEATH &amp; SHERWOOD</b>		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai <b>N70°</b>	Total Footage Avancement total du forage <b>336.0'</b>	Dip of Hole at Inclinaison du forage au Collar/collier <b>45</b>	Address/Location where core stored Adresse/endroit où la carotte est stockée <b>E N. SUTTON BOX 534 KIRKLAND LAKE ONT. (CRYSTAL LAKE)</b>	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière <b>L1186591</b>
Date Hole Started Date de commencement du forage <b>JULY 25/2003</b>	Date Completed Date d'achèvement <b>JULY 26/2003</b>	Date Logged Date d'inscription au journal <b>AUG. 1/2003</b>	Logged by Inscrit par <b>MICHAEL SUTTON</b>	<b>350</b> FL/PI	<b>41</b>		Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude) <b>MORRISETTE TWP.</b>	Property Name Nom de la propriété <b>SUTTON</b>
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option <b>MICHAEL SUTTON</b>		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature) <i>Michael Sutton</i>	FL/PI	FL/PI			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle/Ange des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/A						From/De	To/A		AU	AU †
0	7.0	CASING									
7.0	33.0	BASALT (LEUCOXENE)	MEDIUM GREEN HETEROGENEOUS, BASALT WITH 15% LEUCOXENE; 5% DULL WHITE - PALE GREY, LOCALLY CHERTY QUARTZ AND QUARTZ-ANKERITE VEINS ARE 1/4" - 2" @ 21°; NON MAGNETIC, HIGHLY CARBONATED (EVERYWHERE); 3% COE BLEB & DISSEMINATED FeS2, LOCALLY CONCENTRATED IN VEINS; 3% SERICITE & LOCALLY BLEACHED @ 65°								
			18.7-19.7 CHERTY QV @ 2" @ 53-75° WITH 10-8% FeS2	53°	18.7						
			27.7-27.8 LIMONITIZED; NO STRUCTURE VISIBLE	75°	19.5						
			24.8-25.3 CHERTY PALE QV @ 1 1/2" WITH 15% FeS2 @ 21°	21°	24.8						
33.0	94.5	BASALT (PILLOWED)	33.0-35.3 LIMONITIZED & HEAVILY HEAVILY; STRONG FAULT @ 34.5-34.7 WITH AT LEAST 1/4 CLAY GOUGE	40°	34.6						
		SEE NEXT PAGE FOR DESCRIPTION	35.3-37.2 DULL WHITE QUARTZ-ANKERITE VEIN WITH LEADING CONTACT @ 40° AND TRAILING AT 85°; 6-8% COE FeS2; VEIN IS NOT CARBONATED	45°	37.2	59351	35.5	37.5	2.0'		146
			42.9-43.0 1/8" - 3/4" QV @ 64° WITH 15% COE + FINE FeS2	64°	43.0						
			48.7-94.5 POSSIBLE HYALOCLASTIC ZONE								
			53.0-54.2 70% PALE GREY QV @ 52° WITH 3% FINE COE FeS2	52°	53.0						

0204 (03/91)

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques: foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.

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

QV = QUARTZ VEIN ANK = ANKERITE COE = COARSE FeS2 = PYRITE





Drilling Company Compagnie de forage		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage	Dip of Hole at Collar/collier Inclinaison du forage au Collier/collier	Address/Location where core stored Adresse/endroit où la carotte est stockée	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal	Logged by Inscrit par	Ft./Pi			Location (Twp. Lot. Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude)	
Exploration Co., Owner or Options Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	Ft./Pi				Property Name Nom de la propriété
				Ft./Pi				

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle/Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/À						From/De	To/À			
33.0	94.5	BASALT (PILLOWED)	PALE GREEN, LOCALLY BLEACHED/SERICITIZED TO YELLOW-BUFF; BX IN SELVAGES ± OXIDIZED TO DARK GREEN ± SPHERINES								

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.  
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



Drilling Company Compagnie de forage		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage	Dip of Hole at Inclinaison du forage au °	Address/Location where core stored Adresse/endroit où la carotte est stockée	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal	Logged by Inscrit par	Collar/collier	Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude)			
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	FL/PI				
				FL/PI				
				FL/PI	Property Name Nom de la propriété			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle/Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/À						From/De	To/À			
			AND WITH 1/2" - 1/2" x-CUTTING BULLISH Q-ANK VEINS WITH 10% RED-ORANGE (ANHYDRITE?)								
			58.4-58.6 BULLISH DULL WHITE QUARTZ VEIN CSS	55°	58.4						
			54.2-64.4 NO FeS <sub>2</sub> ; NO QV'S								
			64.5-64.7 BX WITH 10% CSE BLEB FeS <sub>2</sub> + 5% FINE DISSE FeS <sub>2</sub> + POSSIBLY 5% SPH; 20% QTZ; 20% ANK; 5% SERICITE	78°	64.7						
			81.0-81.8 30% 1/8" PALE GREY QV'S @ 38° WITH 5% CSE FeS <sub>2</sub>	38°	81.8						
			83.7-84.2 DULL WT Q-ANK VEIN; 15% FINE CSE FeS <sub>2</sub> , 5% SERICITE, POSSIBLY 3% SPH; 1/16" CLAY GOUGE FAULT @ 53° AT 83.8'	53°	83.8						
94.5	129.3	BASALT BRECCIA (FLOW TOP)	PALE GREY-GREEN, <sup>30%</sup> ANGULAR BX FRAGMENTS UP TO 2" IN PALE GREEN-GREY Aphanitic matrix; locally chlorite + sericite ALTERATION; 1-3% CSE BLEB-DISSEMINATED FeS <sub>2</sub> (LOCALLY) CONCENTRATED IN PALE GREY (CHECTY) QUARTZ-ANK VEINS; ALTERATION @ 45°; NDM MAGNETIC								
			100.7-101.2 QUARTZ-ANK VEIN WITH 3% MOLY + 8% FINE + CSE DISSEMINATED FeS <sub>2</sub> ALONG FAULT; IMMEDIATELY FOLLOWED BY 3" OF CHL-ANK BX WITH 8% CSE FeS <sub>2</sub>	45°	100.7	69352	100.5	101.6	1.1	46935	47045
			103.0 CLAY GOUGE 1/16" TIGHT FAULT IMMEDIATELY FOLLOWED BY 3" CHL-SER SHEARING	72°	103.0						
			104.5-105.8 40% PALE GREY CHERTY QUARTZ WITH 15% CSE FeS <sub>2</sub>	34°	104.6						

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.

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



Drilling Company Compagnie de forage		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage	Dip of Hole at Inclinaison du forage au Collar/collier	Address/Location where core stored Adresse/endroit où la carotte est stockée	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal	Logged by Inscrit par		FL/PI	Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude)	Property Name Nom de la propriété	
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/PI			
					FL/PI			
					FL/PI			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle / Angle des caractéristiques planes	Core Specimen Footage † / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
From/De	To/A						From/De	To/A	
			113.1-113.3 1/2" FULL WHITE Q-ANK VEIN WITH 20% fine csc FeS <sub>2</sub>	38°	113.1				
			121.0-126.0 YELLOW-BUFF BLEACHED; SERICITE, HIGHLY ALTERED WITH 5% Q-ANK VEINS + 5% csc FeS <sub>2</sub> THROUGHOUT						
129.3	164.5	GABBRO	FINE GRAINED, MASSIVE, MEDIUM GREEN-GREY, LOCALLY WITH PURPLE HUE; 5% WHITE FELDSPAR PHENOCRYSTS; INDISTINCT CONTACT @ 129.3; SEVERAL 1" BLUISH QUARTZ-ANK VEINS @ 30°; SHARP TRAILING CONTACT (NATURAL) AT 52°; NON MAGNETIC; HIGH CARBON	45°	129.3				
164.5	237.7	BASALT BRECCIA	AS ABOVE BUT INCREASINGLY ALTERED DOWN HOLE (MORE BLEACHED TO BUFF-BROWN + 10-15% CHEBY QUARTZ + 5-10% csc FeS <sub>2</sub> ) WITH BX FRAGMENTS NOW PERITIZED; NON MAGNETIC; HIGHLY CARBON- ATED	52°	164.5				
			169.5-169.7 1 1/2" PALE GY QUARTZ VEIN WITH 1-7% csc & fine FeS <sub>2</sub> IMMEDIATELY FOLLOWED BY 1.2' OF 5% csc FeS <sub>2</sub> + 5% 1/4" Q VEINS	63°	169.5				
			182.2-182.8 60% PALE GY QUARTZ WITH 5% csc FeS <sub>2</sub>	62°	182.2				
			185.5-185.6 3/4" DARK GY " " 8% csc & fine FeS <sub>2</sub> ; WALL MINERALIZED VEIN	63°	185.5				
			191.4-192.2 PURPLE, ALBITIZED? + 10% GY QUARTZ VEINS + 6% csc FeS <sub>2</sub>	57°	191.6				
			195.5-196.0 5% PALE GY Q VEINS WITH 8% csc FeS <sub>2</sub>	70°	195.5				

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.  
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



Drilling Company Compagnie de forage		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage	Dip of Hole at Inclinaison du forage au Collar/collier	Address/Location where core stored Adresse/endroit où la carotte est stockée	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal	Logged by Inscrit par	FL/PI	Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude)			
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)	FL/PI				
				FL/PI			Property Name Nom de la propriété	

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle / Angle des caractéristiques planes	Core Specimen Footage † / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)	Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques
From/De	To/À						From/De	To/À	
			199.8-200.5 60% PALE GY DTZ WITH 20% CSE FES2	49°	199.8				
			204.2-210.2 50% " " " " " " "	51°	204.2				
			218.0-218.5 1/2" CLAY GOUGE @ 218.2 & @ 218.5; STRONG FAULT ZONE	10° 68°	209.0 218.2				
			218.5-219.9 60% CSE FES2 IN DX GY DTZ - CHL + DULL WHITE ANK ZONE; NON MAGNETIC (NO PO) BUT POSSIBLY 5% SPH						
			220.2 1/16" CLAY GOUGE FAULT	55°	220.2				
			221.3 " " " " " " "	53°	221.3				
			219.9-221.3 SHEAR ZONE - ALL CHL + SER + ANK + 10% CSE FES2						
			221.3-231.6 PALE OLIVE GREEN; RARE QUARTZ; 2% CSE FES2 IN CLOTS/BLEBS; NOT MUCH BRUCIA						
			231.6-234.5 GRAPHITE ZONE WITH 10% ANK - QUARTZ & 20% CSE FES2	51°	232.4				
			234.3 1/4" GRAPHITE FAULT IN 5" DULL WHITE BULLISH QUARTZ	16°	234.3				
			234.5-237.7 CHL BX; RARE FES2 OR DTZ						
237.7	238.3	PORPHYRY	QUARTZ-FELDSPAR FRX; 4% CHL; 30% 1/8" PALE GREY QUARTZ < 20% 1/8" YELLOW FELDSPAR PHENOCRYSTS IN PALE YELLOW-GREEN SEC'DIFIED GROUNDMASS; NON MAGNETIC; MASSIVE; CARBONATED						
			237.7 1/16" CLAY GOUGE FAULT	71°	237.7				
			238.3 SHARP NATURAL CONTACT	69°	238.3				

\*For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
\*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.  
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.  
Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



Drilling Company Compagnie de forage		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage	Dip of Hole at Inclinaison du forage au Collar/collier	Address/Location where core stored Adresse/endroit où la carotte est stockée	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal	Logged by Inscrit par		Ft./Pi	Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude)		
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		Ft./Pi			
					Ft./Pi			
					Ft./Pi			
Property Name Nom de la propriété								

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Placer Feature Angle / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques	
From/De	To/A						From/De	To/A			
238.3	239.8	BASALT	CHLORITE - GRAPHITE BRECCIATED BUFF - PALE GREEN BASALT; 1-2% csc. FeS <sub>2</sub>								
239.8	241.1	PORPHYRY	SAME AS ABOVE 239.8 SHARP NATURAL CONTACT 241.1 " CHL SLIP "	66°	239.8						
241.1	278.0	BASALT FRACTURED	MASSIVE, PALE GREEN BASALT IS HIGHLY FRACTURED BY GRAPHITE - CHLORITE (UP TO 1/2" VEINS) @ 57° (N15° OVERALL); NON ORYCTIC	57°	266.0						
			241.4 - 1/4" GRAPHITE FAULT IS STRONG	52°	241.4						
			241.4 - 243.0 - GRAPHITE (70%) & 25% ANK - QUARTZ; 5% csc FeS <sub>2</sub>	62°	242.2						
			243A - 244.7 - MASSIVE FeS <sub>2</sub> , csc, 80% FeS <sub>2</sub> , 5% GRAPHITE, 15% ANKERITE - QUARTZ	62°	244.4	59353	243.4	244.7	1.3'	535	497
			251.0 - 251.6 50% MASSIVE csc FeS <sub>2</sub>	20°	251.6	59354	250.8	251.8	1.0'	219	
			258.8 - 259.1 BULLISH MILK WHITE QUARTZ - ANK VEIN	62°	259.1						
			261.6 1/4" CLAY GOUGE FAULT IMMEDIATELY FOLLOWED BY & PRECEDED BY 1" BULLISH DULL WHITE QUARTZ - ANK VEINS WITH 1% csc & fine FeS <sub>2</sub>	64°	261.6						
			263.3 1/8" CLAY GOUGE FAULT IMM. FOLLOWED BY 1' SHEAR (SER + CHL) & 3% csc BLUE FeS <sub>2</sub>	59°	263.3						
			268.7 - 269.4 15% csc BLUE FeS <sub>2</sub> & 2" BULLISH Q - ANK VEIN	55°	269.4						

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.

† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évaluation.

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

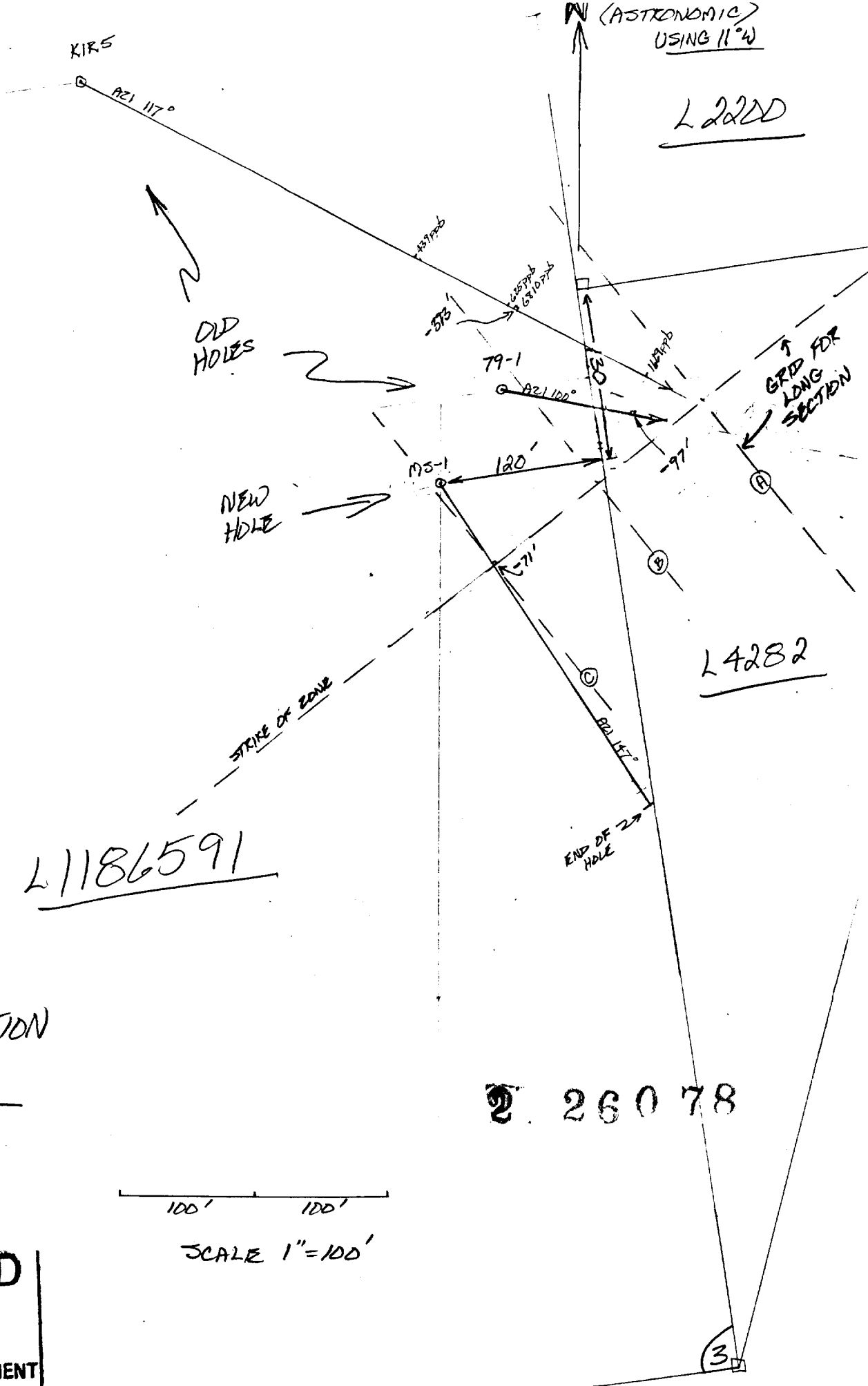


Drilling Company Compagnie de forage		Collar Elevation Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai	Total Footage Avancement total du forage	Dip of Hole at inclinaison du forage au Collar/collier	Address/Location where core stored Adresse/endroit où la carotte est stockée	Map Reference No. N° de référence sur la carte	Claim No. N° de concession minière
Date Hole Started Date de commencement du forage	Date Completed Date d'achèvement	Date Logged Date d'inscription au journal	Logged by Inscrit par		FL/PI		Location (Twp. Lot, Con. or Lat. and Long.) Emplacement (canton, lot, concession, ou latitude et longitude)	Property Name Nom de la propriété
Exploration Co., Owner or Optionee Compagnie d'exploration, propriétaire ou titulaire d'option		Date Submitted Date de dépôt	Submitted by (Signature) Déposé par (signature)		FL/PI			
					FL/PI			
					FL/PI			

Footage/Avancement		Rock Type Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Plane Feature Angle/Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No. N° d'échantillon du prospecteur	Sample Footage/Niveau de pré- lèvement de l'échantillon (en pieds)		Sample Length Longueur de l'échantillon	Assays † / Analyses minéralurgiques		
From/De	To/À						From/De	To/À				
278.0	290.2	PORPHYRY	FELDSPAR-DIABAZ PORPHYRY - AS ABOVE BUT 15% 1/8" FELD. 22% QUARTZ 1/8" PSEUDOCRYSTS; LOCALLY SILICIFIED									
			278.0 - SHARP NATURAL CONTACT PRECEDED C 277.7 BY 1" CHLORITE ANNEALED EX WITH 3% CSE FeS2	55°	278.0							
			285.2 - 1/2" PALE GRAY QUARTZ VEIN WITH 1% FINE DSS FeS2	65°	285.2							
			286.0 3/4" " " " " " 5% " " " WELL MINERALIZED	57°	286.0							
			290.2 SERICITE SLIP CONTACT IS SHARP	53°	290.2							
290.2	313.1	BASALT LEUCOXENE	AS AT 241.1-278.0 BUT WITH 20% LEUCOXENE; NO FeS2 313.1 SHARP NATURAL CONTACT	66°	313.1							
313.1	316.8	PORPHYRY	AS AT 278.0-290.2 316.8 SHARP NATURAL CONTACT	50°	316.8							
316.8	386.0	BASALT AMYGDULAR	MEDIUM GREY, AMYG'S THROUGHOUT 316.8-317.4 10% CSE FeS2, 5% GRAPHITE									
			325.5-326.0 2" BULL WHITE R-PINE VEIN w GRAPHITE EX WITH 8% CSE FeS2	63°	325.5							
			316.8-334.5 MORE MASSIVE BASALT WITH 10% CHL-GRAPH EX									
			345.5-347.3 BULL WHITE ANK-DTZ VEIN	45°	347.7							
			380.2-385.7 HYALOCLASTITE WITH 5% f + CSE FeS2, c 80°	80°	384.2							
			386.0 BQH									

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.  
\* Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.  
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Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



L1186591

LOCATION PLAN

26078

100' 100'  
SCALE 1"=100'

**RECEIVED**  
AUG 07 2003  
GEOSCIENCE ASSESSMENT  
OFFICE





Established 1928

# Swastika Laboratories Ltd

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

3W-2507-RG1

Company: **M. SUTTON**

Date: AUG-05-03

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 4 Core samples submitted AUG-01-03 by .

Sample Number	Au PPB	Au Check PPB	Zn PPM
59351	146	-	<i>Results to follow</i>
59352	46835	47040	
59353	525	497	
59354	219	-	

Certified by *Denis Chantre*

# HEATH & SHERWOOD DRILLING (1986) INC.

## FORAGE HEATH & SHERWOOD (1986) INC.

### DAILY REPORT - Rapport journalier

CONTRACTOR'S TIME/temps de l'entrepreneur Included in the Drilling Rate/Inclus dans le tarif de forage	COMPANY TIME AND MATERIALS Temps et matériels de la compagnie Time Distribution/Distribution de temps																				
Date <u>10/1/25</u> Shift <u>N</u> Machine No. <u>25</u> Heure de travail # de la machine Drilling at..... Hole Angle..... Lieu de forage Angle du trou Overburden: Hole No. From To Total ft/m # du trou De A Total de pd/m ..... 0 ..... 7' ..... 7' ..... Drilling: Hole No. From To Total ft/m ..... 6 ..... 76' ..... 76' ..... Bit No. <u>25684-21</u> Type <u>16610 30</u> ft/m <u>7'</u> # de mèche Sorte pd/m ..... Shoe No..... Type..... ft/m..... Shell No..... Type..... ft/m..... # de la cartouche Sorte pd/m <div style="text-align: center;">TIME DISTRIBUTION/ Distribution de temps</div> Drilling/Forage..... 4 Rhr..... 10 Mhr Overburden/Mortterrain..... 1 Rhr..... 2 Mhr Moving/Déplacement..... Rhr..... Mhr Walking Time/Tempsdemarche..... Rhr..... Mhr Repairing/Réparation..... Rhr..... Mhr (What?)/(Quoi?)..... Other/Autre..... Rhr..... Mhr (What?)/(Quoi?)..... Casing Placed in Hole/ Tubage placer dans le trou: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">AW</th> <th style="text-align: center;">BW</th> <th style="text-align: center;">NW</th> <th style="text-align: center;">HW</th> </tr> </thead> <tbody> <tr> <td>2'.....</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5'.....</td> <td style="text-align: center;">0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10'.....</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Casing Recovered/Tubage récupérer: AW BW NW HW 2'..... 5'..... 10'..... R. Foreman/Contremaître opérateur..... 9 Hrs Runner/Opérateur... <u>J. REVON SCHRAM 14</u> Hrs Runner/Opérateur..... Hrs Helper/Assistant... <u>MARCO HARVEY 12</u> Hrs Helper/Assistant..... Hrs Other/Autre..... Hrs		AW	BW	NW	HW	2'.....					5'.....	0				10'.....					Drilling/Forage..... Hrs..... Mhr Drilling From/Forage de..... TO/à..... Overburden/Mortterrain..... Hrs..... Mhr Overburden From/Mort terrain de..... TO/à..... Bit No..... Type..... ft/m..... # de mèche Sorte pd/m ..... Shoe No..... Type..... ft/m..... Shell No..... Type..... ft/m..... # de la cartouche Sorte pd/m Moving/Déplacement..... Rhr..... Mhr From/de#..... TO/à#..... Distance..... Pulling Casing/Retirer tubage..... Rhr..... Mhr Cemented At/Cimenter à..... ft/m..... Rhr..... Mhr Cement to set/Durcir le ciment..... Rhr..... Mhr Drilling Cement/Forage du ciment..... Rhr..... Mhr From/de..... TO/à..... Reaming (Hole Conditions)/l'état du trou..... Rhr..... Mhr Waterline At/Ligne d'eau à..... ft/m..... Rhr..... Mhr Survey Testing At/Assessment à..... ft/m..... Rhr..... Mhr Acid Testing At/Analyse (acide)..... ft/m..... Rhr..... Mhr Delays/Retard (.....)..... Rhr..... Mhr Walking Time/Temps de marche..... Rhr..... Mhr Wedging At/Coincer le trou à..... ft/m..... Rhr..... Mhr Other/Autre..... Rhr..... Mhr (What?)/(Quoi?)..... <div style="text-align: center;">Materials Used, Lost or Damaged</div> <div style="text-align: center;">Matériels utiliser, perdu ou endommager:</div>
	AW	BW	NW	HW																	
2'.....																					
5'.....	0																				
10'.....																					
GENERAL REMARKS/Observations général: <u>READY TO DRILL</u>																					
APPROVED BY: <u>W. Schmitt</u> CO. REP. <u>W. Schmitt</u> FOREMAN Approuver par: Co. Rep. Contremaître White-Office/Blanc-Bureau Yellow-Co. Rep./Jaune-Co. Rep. Pink-Foreman/Rose-Contremaître																					

# HEATH & SHERWOOD DRILLING (1986) INC. FORAGE HEATH & SHERWOOD (1986) INC. DAILY REPORT - Rapport journalier

<b>CONTRACTOR'S TIME/temps de l'entrepreneur</b> Included in the Drilling Rate/Inclus dans le tarif de forage	<b>COMPANY TIME AND MATERIALS</b> Temps et matériels de la compagnie Time Distribution/Distribution de temps
--	--

Date: July 26/08 Shift: DAY Machine No. 25  
 Heure de travail # de la machine  
 Drilling at: 1110-5 Hole Angle: 15  
 Lieu de forage Angle du trou  
 Overburden: 1460  
 Hole No. From To Total ft/m  
 #du trou De A Total de pd/m

Drilling:  
 Hole No. From To Total ft/m  
76 256 188

Bit No. 25644-21 Type A66-C 7C ft/m  
 # de mèche Sorte pd/m

Shoe No. Type ft/m

Shell No. Type ft/m  
 # de la cartouche Sorte pd/m

**TIME DISTRIBUTION/ Distribution de temps**

Drilling/Forage 12 Rhr. 24 Mhr  
 Overburden/Mortterrain Rhr Mhr  
 Moving/Déplacement Rhr Mhr  
 Walking Time/Tempsdemarche Rhr Mhr  
 Repairing/Réparation Rhr Mhr  
 (What?)/(Quoi?)  
 Other/Autre Rhr Mhr  
 (What?)/(Quoi?)

Casing Placed in Hole/ Tubage placer dans le trou:

	AW	BW	NW	HW
2'				
5'				
10'				

Casing Recovered/Tubage récupérer:

	AW	BW	NW	HW
2'				
5'				
10'				

R. Foreman/Contremaître opérateur Harvey D 12 Hrs  
 Runner/Opérateur Hrs  
 Runner/Opérateur Hrs  
 Helper/Assistant Just Mallette 12 Hrs  
 Helper/Assistant Hrs  
 Other/Autre Hrs

Drilling/Forage Hrs Mhr  
 Drilling From/Forage de TO/à  
 Overburden/Mortterrain Hrs Mhr  
 Overburden From/Mort terrain de TO/à  
 Bit No. Type ft/m  
 # de mèche Sorte pd/m  
 Shoe No. Type ft/m  
 Shell No. Type ft/m  
 # de la cartouche Sorte pd/m  
 Moving/Déplacement Rhr Mhr  
 From/de# TO/à# Distance  
 Pulling Casing/Retirer tubage Rhr Mhr  
 Cemented At/Cimenter à ft/m Rhr Mhr  
 Cement to set/Durcir le ciment Rhr Mhr  
 Drilling Cement/Forage du ciment Rhr Mhr  
 From/de TO/à  
 Reaming (Hole Conditions)/l'état du trou Rhr Mhr  
 Waterline At/Ligne d'eau à ft/m Rhr Mhr  
 Survey Testing At/Assessment à ft/m Rhr Mhr  
 Acid Testing At/Analyse (acide) ft/m Rhr Mhr  
 Delays/Retard ( ) Rhr Mhr  
 Walking Time/Temps de marche Rhr Mhr  
 Wedging At/Coincer le trou à ft/m Rhr Mhr  
 Other/Autre Rhr Mhr  
 (What?)/(Quoi?)  
**Materials Used, Lost or Damaged**  
**Matériels utiliser, perdu ou endommager:**

GENERAL REMARKS/Observations général:

HEATH & SHERWOOD DRILLING (1986) INC.
FORAGE HEATH & SHERWOOD (1986) INC.
DAILY REPORT - Rapport journalier

1460

CONTRACTOR'S TIME/temps de l'entrepreneur
Included in the Drilling Rate/Inclus dans le tarif de forage
COMPANY TIME AND MATERIALS
Temps et matériels de la compagnie
Time Distribution/Distribution de temps
Date: 4-26 Shift: N Machine No: 25
Drilling at: 1470 Hole Angle: -45
Overburden: Hole No. From To Total ft/m
Drilling: Hole No. From To Total ft/m
Bit No. 25 Type M-C ft/m
Shoe No. Type ft/m
Shell No. Type ft/m
TIME DISTRIBUTION/ Distribution de temps
Drilling/Forage 11.5 Rhr 23 Mhr
Overburden/Mortterrain Rhr Mhr
Moving/Déplacement Rhr Mhr
Walking Time/Tempsdemarche Rhr Mhr
Repairing/Réparation Rhr Mhr
(What?)/(Quoi?)
Other/Autre Rhr Mhr
Casing Placed in Hole/ Tubage placer dans le trou:
AW BW NW HW
2' 5' 10'
Casing Recovered/Tubage récupérer: AW BW NW HW
2' 5' 10'
R.Foreman/Contremaître opérateur Hrs
Runner/Opérateur TREVOR SCHEAM 12 Hrs
Runner/Opérateur Hrs
Helper/Assistant MARIO HARVEY 12 Hrs
Helper/Assistant Hrs
Other/Autre Hrs

Drilling/Forage Hrs Mhr
Drilling From/Forage de TO/à
Overburden/Mortterrain Hrs Mhr
Overburden From/Mort terrain de TO/à
Bit No. Type ft/m
# de mèche Sorte pd/m
Shoe No. Type ft/m
Shell No. Type ft/m
# de la cartouche Sorte pd/m
Moving/Déplacement Rhr Mhr
From/de# TO/à# Distance
Pulling Casing/Retirer tubage Rhr Mhr
Cemented At/Cimenter à ft/m Rhr Mhr
Cement to set/Durcir le ciment Rhr Mhr
Drilling Cement/Forage du ciment Rhr Mhr
From/de TO/à
Reaming (Hole Conditions)/l'état du trou Rhr Mhr
Waterline At/Ligne d'eau à ft/m Rhr Mhr
Survey Testing At/Assessment à ft/m Rhr Mhr
Acid Testing At/Analyse (acide) 346 ft/m 5 Rhr 1 Mhr
Delays/Retard Rhr Mhr
Walking Time/Temps de marche Rhr Mhr
Wedging At/Coincer le trou à ft/m Rhr Mhr
Other/Autre Rhr Mhr
(What?)/(Quoi?)
Materials Used, Lost or Damaged
Matériels utiliser, perdu ou endommager:

GENERAL REMARKS/Observations général: PULL ROPS FOR BROKEN EARS ON BACKEND
PUGG AGAIN TO BREAK OUT.

APPROVED BY: [Signature] CO. REP. FOREMAN
Approuver par: [Signature] Co. Rep. Contremaître
White-Office/Blanc-Bureau Yellow-Co. Rep./Jaune-Co.-Rep Pink-Foreman/Rose-Contremaître

# HEATH & SHERWOOD DRILLING (1986) INC. FORAGE HEATH & SHERWOOD (1986) INC. DAILY REPORT - Rapport journalier

CONTRACTOR'S TIME/temps de l'entrepreneur Included in the Drilling Rate/Inclus dans le tarif de forage	COMPANY TIME AND MATERIALS Temps et matériels de la compagnie Time Distribution/Distribution de temps																				
Date <u>July 27/03</u> Shift <u>DAY</u> Machine No. <u>29</u> Heure de travail # de la machine Drilling at <u>Point A 5</u> Hole Angle..... Lieu de forage Angle du trou Overburden: Hole No. From To Total ft/m # du trou De A Total de pd/m  Drilling: Hole No. From To Total ft/m  <u>346 386 40</u>  Bit No. <u>25649-21</u> Type <u>Hobc 7C</u> ft/m # de mèche Sorte pd/m  Shoe No.....Type.....ft/m  Shell No.....Type.....ft/m # de la cartouche Sorte pd/m  <p style="text-align: center;">TIME DISTRIBUTION/ Distribution de temps</p> Drilling/Forage..... <u>10</u> Rhr..... <u>2.99</u> Mhr Overburden/Mortterrain.....Rhr.....Mhr Moving/Déplacement.....Rhr.....Mhr Walking Time/Tempsdemarche.....Rhr.....Mhr Repairing/Réparation.....Rhr.....Mhr (What?)/(Quoi?)..... Other/Autre.....Rhr.....Mhr (What?)/(Quoi?)..... Casing Placed in Hole/ Tubage placer dans le trou: <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">AW</td> <td style="text-align: center;">BW</td> <td style="text-align: center;">NW</td> <td style="text-align: center;">HW</td> </tr> <tr> <td>2'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10'</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> Casing Recovered/Tubagé récupérer: AW BW NW HW 2'..... 5'..... 10'..... R.Foreman/Contremaître opérateur <u>Henry D</u> ..... <u>10</u> Hrs Runner/Opérateur.....Hrs Runner/Opérateur.....Hrs Helper/Assistant <u>JOEL MALETTE</u> ..... <u>8</u> Hrs Helper/Assistant.....Hrs Other/Autre.....Hrs		AW	BW	NW	HW	2'					5'					10'					Drilling/Forage.....Hrs.....Mhr Drilling From/Forage de.....TO/à..... Overburden/Mortterrain.....Hrs.....Mhr Overburden From/Mort terrain de.....TO/à..... Bit No.....Type.....ft/m # de mèche Sorte pd/m  Shoe No.....Type.....ft/m Shell No.....Type.....ft/m # de la cartouche Sorte pd/m Moving/Déplacement.....Rhr.....Mhr From/de#.....TO/à#.....Distance..... Pulling Casing/Retirer tubage.....Rhr.....Mhr Cemented At/Cimenter à.....ft/m.....Rhr.....Mhr Cement to set/Durcir le ciment.....Rhr.....Mhr Drilling Cement/Forage du ciment.....Rhr.....Mhr From/de.....TO/à..... Reaming (Hole Conditions)/l'état du trou.....Rhr.....Mhr Waterline At/Ligne d'eau à.....ft/m.....Rhr.....Mhr Survey Testing At/Assessment à.....ft/m.....Rhr.....Mhr Acid Testing At/Analyse (acide).....ft/m.....Rhr.....Mhr Delays/Retard (.....).....Rhr.....Mhr Walking Time/Temps de marche.....Rhr.....Mhr Wedging At/Coincer le trou à.....ft/m.....Rhr.....Mhr Other/Autre.....Rhr.....Mhr (What?)/(Quoi?)..... <p style="text-align: center;"><u>Materials Used, Lost or Damaged</u></p> <p style="text-align: center;"><u>Matériels utiliser, perdu ou endommager:</u></p>
	AW	BW	NW	HW																	
2'																					
5'																					
10'																					

GENERAL REMARKS/Observations général: Put Rocks down Drill 40'  
Test down Ready Move

DO-1460

APPROVED BY: [Signature] CO. REP. Henry Durt FOREMAN  
 Approuver par: Co. Rep. Contremaître  
 White-Office/Blanc-Bureau Yellow-Co. Rep./Jaune-Co.-Rep Pink-Foreman/Rose-Contremaître



Date: 2003-AUG-11

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

MICHAEL WILLIAM SUTTON  
BOX 534  
KIRKLAND LAKE, ONTARIO  
P2N 3J5 CANADA

Tel: (888) 415-9845  
Fax: (877) 670-1555

**Submission Number:** 2.26078  
**Transaction Number(s):** W0380.01258

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact PIERRE DESCOTEAUX by email at [pierre.descoteaux@ndm.gov.on.ca](mailto:pierre.descoteaux@ndm.gov.on.ca) or by phone at (705) 670-5858.

Yours Sincerely,



Sheila Lessard  
Acting Senior Manager, Mining Lands Section

**Cc:** Resident Geologist  
Michael William Sutton  
(Claim Holder)

Assessment File Library  
Michael William Sutton  
(Assessment Office)





42A01NE2049 2.26078

MORRISSETTE

200

ONTARIO  
CANADA

MINISTRY OF NORTHERN  
DEVELOPMENT AND MINES  
PROVINCIAL MINING  
RECORDERS' OFFICE

Mining Land Tenure  
Map

Date / Time of Issue: Mon Aug 11 14:51:49 EDT 2003

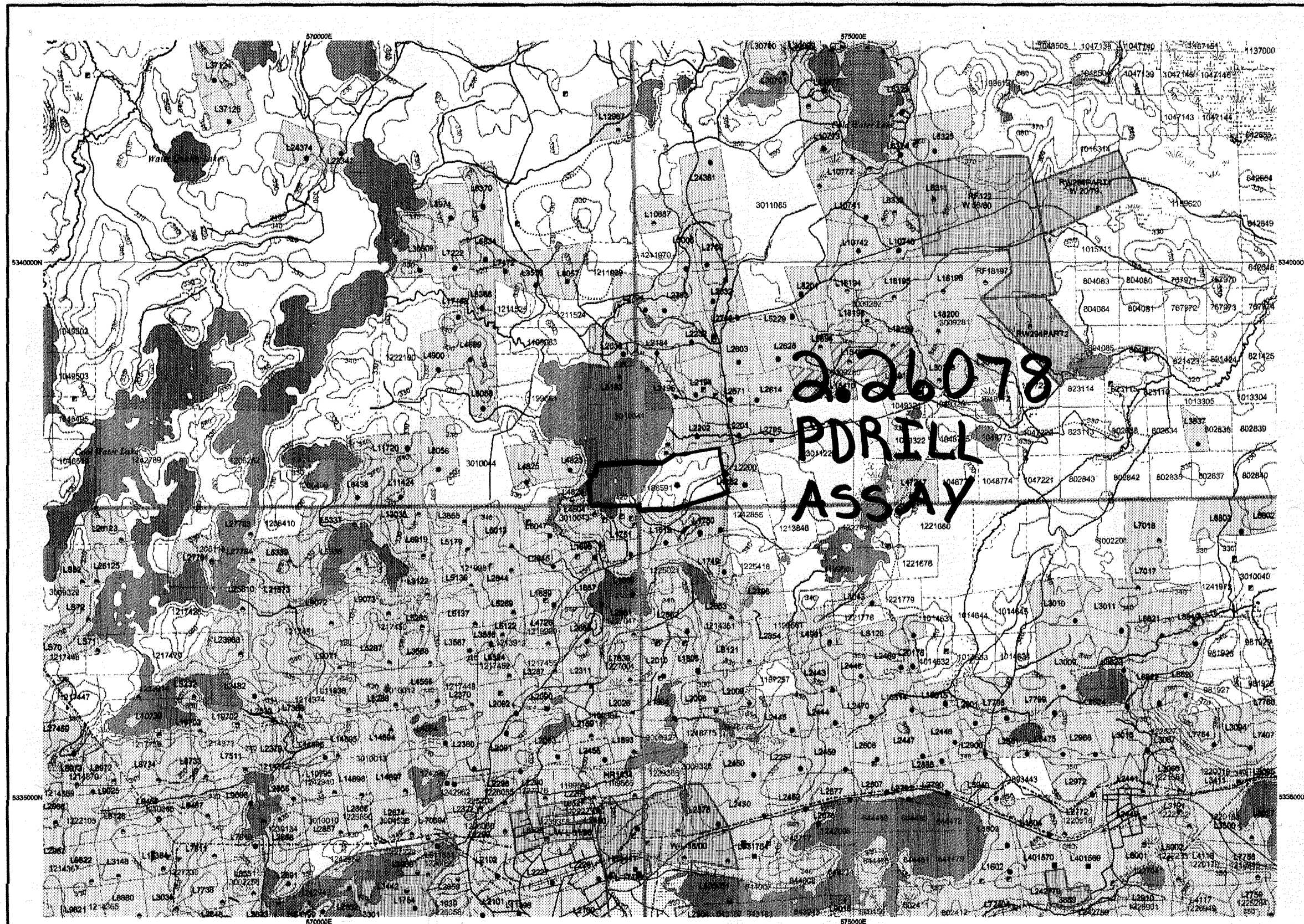
TOWNSHIP / AREA  
MORRISSETTE

PLAN  
G-3217

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Larder Lake  
TIMISKAMING  
KIRKLAND LAKE

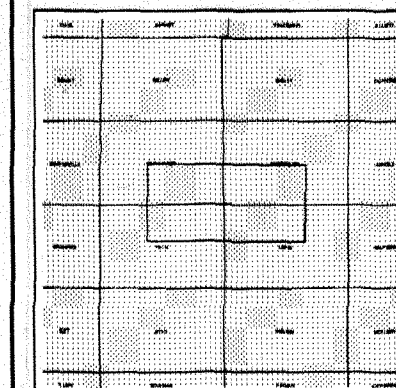


TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- License of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement



- LAND TENURE WITHDRAWALS**
- Areas Withdrawn from Disposition
- Mining Acts Withdrawal Types
  - Wam Surface And Mining Rights Withdrawn
  - Wsm Surface Rights Only Withdrawn
  - Wm Mining Rights Only Withdrawn
- Order In Council Withdrawal Types
  - Wsm Surface And Mining Rights Withdrawn
  - Wsm Surface Rights Only Withdrawn
  - Wm Mining Rights Only Withdrawn
- IMPORTANT NOTICE



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
3686	Wm	Jan 1, 2001	20/11/89 S.R.O. 165484
W 20/79	Wam	Jan 1, 2001	SECTION 36/80 NR W 20/79 5-3-79 SR & MR 160705
W 20/79	Wsm	Mar 5, 2001	SECTION 36/80 NR W 20/79 5-3-79 SR & MR 160705
W 56/80	Wm	Jan 3, 1980	SECTION 36/80 NR W 56/80 3-1-80 M.R.O. 160705
W-L-17/00	Wsm	May 27, 2000	SEC.35 W-L-17/00 2000/05/27 S+M 165150
W-L-18/00	Wsm	Apr 27, 2000	SEC. 35 W-L-18/00 2000/04/27 M+S 195150
W-L-31/98	Wm	Aug 11, 1998	SEC. 35 W-L-31/98 11/08/98 MRO
W-L-48/98	Ws	Oct 27, 1998	SEC.35 W-L-48/98 OCT 27/98 S.R.O. 195150
W-L-P1821	Wsm	Aug 29, 2002	<a href="http://www.mndm.gov.on.ca/MNDMMINES/LANDS/live/gb">

IMPORTANT NOTICES

Areas under which special regulation, limitations or conditions exist that affect normal prospecting, staking and mining.

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations

Contact Information:  
Provincial Mining Recorders' Office  
Willet Green Miller Centre 933 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: www.mndm.gov.on.ca/MNDMMINES/LANDS/misnmpg.htm

Toll Free  
Tel: 1 (888) 416-8845 ext 5778  
Fax: 1 (877) 670-1444  
Map Datum: NAD 83  
Projection: UTM (8 degree)  
Topographic Data Source: Land Information Ontario  
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.