

Haddington Resources Ltd.

Kaltwasser - Lavigne - Timmins Group Properties

Diamond Drill Logs

HL-1
HK-2
HL-3
HK-4
HK-5

Dates Drilled: October 1997

Core Size: NQ; 47mm

Temporay Core Storage:

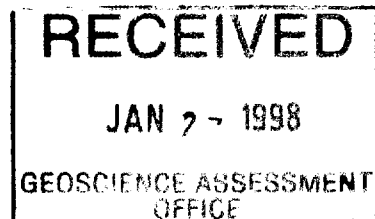
NDS Drilling Ltd.

Lot 10, Con. 1

Mountjoy Township

Timmins, Ontario

2.18116



42A07SE0014 2.18116 SHERATON

Property	TP	Azimuth	Date started	Corrected	Dip	Tests	(°)	Location Sketch
Lavigne Patents	Timmins	grid 235°	1st Oct. 1997	Depth	Mag Az	True Az	Dip	
Project	Lot & Conc.	Dip	Date Completed	100m			43°	
Sheraton-Timmins		45° "layout"	3rd Oct.1997					
Claim #	Co-ordinates	Length (metres)	Drilled by:					
P-34453		163.5m	NDS					
Grid #	46m west of L20E	Collar Elevation	Logged by:					
1995 Picket Line	2.13.7S		A.W. Beecham					

Metres From	To	DESCRIPTION	Sample			est.%			ASSAYS	ppm	ppm	pp
			Number	From	To	Length	Py	Cp				
		OBJECTIVES:- TEST I.P. ANOMALY AND MINERALIZATION AT SHAFT (N-S QUARTZ VEINS) (HL. = HADDINGTON LAVIGNE)										
0	3.0m	CASING										
2.6	12.2	<u>MASSIVE FELDSPAR PORPHYRY</u> Med. - lt grey aphanitic matrix with 40% lt. grey - white 0.5 - 3mm square feldspars !% fine mafics (hornblende) Matrix + feldspars very hard. <u>Structure:</u> No penetrative deformation, weakly to moderately fractured - jointed at 45°, 30°, 135° <u>Alteration:</u> Most is fresh + unaltered A little bleaching + red staining along fractures. <u>Veins:</u> 2.9 - 8 m sparse 4 - 8 mm lt. grey -white q.v. with tr Py here - there at 40° - 65° 8.4 - 12.0m 2mm - 1.5cm lt. grey -white qv with bleached or red altered selvages: minor conc. c. g Py in wall rock. Veins 40° - 90°; 5-8% qv - overall. <u>Min:</u> See veins. Isolated grain Cp at 8.7m Scattered grains Py in red (pink) altered rock-selvages	3001	2.8	3.0	0.2	-			3		
			3002	4.6	5.6	1.0	tr			3		
			3003	5.6	6.5	0.9	tr			12		
			3004	7.8	8.4	0.6	-			nil		
			3005	8.4	9.3	0.9	tr			nil		
			3006	9.3	10.4	1.1	tr			3		
			3007	10.4	11.8	1.4	tr-½			3		
			3008	11.8	12.2	0.4	tr			5		

DIAMOND DRILL HOLE LOG

HOLE No.1

Pg.2 of 12

Metres		Description	Sample			est %	est%	est%	Assays	ppm	ppm	ppm	
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
12.2	14.8	<p><u>FRACTURED ALTERED F.P.</u> As above, pink to grey remnants.</p> <p><u>Structure:</u> Mod.-strong fract'd. Badly broken below 13.5m - no gouge.</p> <p><u>Veins:</u> 2-5 mm white qv at 50°.10° wide pink altered selvages 10-20 cm with scattered py: speckled with black chlorite; minor pale green mica.</p> <p><u>Alteration:</u> Sections (selvages) pervasive pink-red alteration.</p>	3009	12.2	13.0	0.8	1/2				29		
			3010	13.0	14.0	1.0	tr				31		
			3011	14.0	14.8	0.8	tr				36		
14.8	19.1	<p><u>MAFIC - INTERMEDIATE VOLCANIC</u> Dk. green, soft, chloritic, variably magnetic, fine grained</p> <p><u>Structure:</u> fol'n -schistosity at 45° 17.7 - 18.5 thin streaky banded - could be fine tuffs, sections of broken core, especially at top.</p> <p><u>Alteration:</u> Confined to small dykes - see remarks</p> <p><u>Mineralization:</u> Irregular diss'n med - e.g. cubic Py, streaks up to 30% Py/ 5cm at 15.5; tr Cp at 18.1 - 18.8</p> <p><u>Remarks:</u> 16.5-17.0 Lt grey feldspar -rich fg felsic, weakly feldspar phytic dyke with 1/2% diss'd py. 17.4-17.6;18.4-18.9;red altered felsic dyke with qv up to 3mm with Py + dk chlorite.</p>	3012	14.8	16.0	1.2	3%				16		
			3013	16.0	17.0	1.0	1-2				12		
			3014	17.0	18.0	1.0	1-2				12		
			3015	18.0	19.1	1.1	1/2				19		
19.1	20.7	<p><u>FELDSPAR PORPHYRIC DYKE</u> As above</p> <p><u>Structure:</u> Cts at 60° and 45°</p>											

DIAMOND DRILL HOLE LOG

HOLE No.1

Pg.3 of 12

Metres From	To	DESCRIPTION	Sample				est %	est%	est%	Assays	ppm	ppm	ppm
			Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<u>Alteration & Veins:</u> White quartz veinlets from 2mm - 15mm at 45° . with minor Py + red alteration in selvage	3016	19.1	20.0	0.9	tr			200			
			3017	20.0	20.7	0.7	tr			15			
		<u>Mineralization:</u> tr Cp at 20.1											
20.7	21.5	<u>BANDED MAFIC-INTERMEDIATE VOLCANIC</u> Dk. green, f.g., chloritic. Moderately - strongly magnetic.											
		<u>Structure:</u> Thin banding + schistosity at 45°											
		<u>Mineralization:</u> 1-5% diss.n euhedra + streaks of Py											
		<u>Veins:</u> 21.0m - 4mm white qtz with 5% Py isolated grains of Cp + tr grey mineral(MoS2)	3018	20.7	21.5	0.8	2-3			10			
21.5	23.9	<u>ALTERED PORPHYRITIC FELSIC DYKE</u> lt. grey to pink; f.g. matrix with 1-2% 0.5-3mm feldspar											
		<u>Structure:</u> Upper Ct 45°; Lower Ct irregular.											
		<u>Alteration & Veins:</u> 22.1 - 22.5 - 40 % white qv. up to 10cm with minor pale green mica:red altered selvages	3019	21.5	22.0	0.5	tr			3			
		-Alittle Py in veins + wallrock - veins at 45°+15°23.2-23.4	3020	22.0	22.6	0.6	3			99			
		- 50% white qtz. red alt. selvages minor py.	3021	22.6	23.2	0.6	1			15			
			3022	23.2	23.5	0.3	1/2-1			nil			
			3023	23.5	24.0	0.5	tr			3			
		<u>Mineralization:</u> See veins. Minor diss'd Py											
		<u>Remarks:</u> 22.5 - 22.2 Chl. schist with 5% c.g. Py.											
23.9	24.5	<u>BANDED MAFIC-INTERMEDIATE VOLCANICS</u> As above 20.7 - 21.5											
		<u>Structure:</u> Thin banding foliation outlined by Py - contorted ^ 60°	3024	24.0	24.5	0.5	4-5%			5			

Metres From	To	Description	Sample				est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
			Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<u>Mineralization:</u> 4-5% streaks -diss d Py											
24.5	32.4	<u>FELDSPAR PORPHYRY DYKE</u> As above - grey to pink in places:											
		<u>Structure:</u> Cts at 60° + 40° Mod. fractured.	3025	24.5	25.0	0.5	tr		5				
			3026	25.0	25.4	0.4	tr		66				
			3027	25.4	26.2	0.8	tr		31				
		<u>Alteration & Veins:</u> 25.2 -5cm white qv at 20° A little Py tr Cp + thin weak red altered selvage	3028	26.2	27.2	1.0	tr		48				
		26.4-26.5 15% stock work grey calc.+ weak red; alt	3029	29.9	31.4	1.5	tr		103				
		Minor red alt. here + there throughout;	3030	31.4	32.4	1.0	tr		45				
32.4	48.4	<u>DEFORMED MAFIC - INTERMEDIATE VOLCANIC</u> Dark green, f.g. chloritic rich rock. Non magnetic to strongly magnetic due to fine magnetite.											
		<u>Structure:</u> Generally massive appearance to streaky banding but looks like flow.Foliation schistosity at 45° - 55°.	3031	32.4	33.0	0.6	1-2		10		19	136	
			3032	33.0	34.3	1.3	5-6		264		248	137	
			3033	34.3	35.5	1.1	1-2		7		49	85	
		<u>Alteration:</u> No recognizable alteration. 47.1-47.5 -sparse cm. - thick bleached bands with white mica + pale green sericite.	3034	35.5	37.0	1.5	1-2		33		30	98	
			3035	41.4	42.9	1.5	5-6		18		63	127	
			3036	42.9	44.4	1.5	3		nil		72	125	
		<u>Mineralization:</u> Lean - heavy diss'n m.g. euhedral Py; beaded contorted streaks + up to 1cm M.S. Dull brownish Py	3037	44.4	45.5	1.1	1		9		9	107	
		min'd throughout with at least 1% - 2% Py; 46.2 tr MoS2	3038	45.5	46.6	1.1	tr		75		8	67	
		in 8mm q.v. at 25°	3039	46.6	47.1	0.5	1/2		12		31	83	
			3040	47.1	48.4	1.3	3-4		50		21	92	
		<u>Remarks:</u> 45.5-46.6 - Altered porphic informed dyke - 'grid' bleaching + weak red alt'n Banded red sediment-like 32.4-34.3; 41.4-42.6 + 47.1-48.4 <u>Veins:</u> Minor light grey qv + qtz calcite with tr Cp 33.5 - 33.8, 47.6 - 47.2 two 5mm lt grey qtz.											

DIAMOND DRILL HOLE LOG

HOLE No.1

Pg.5 of 12

Metres From	To	Description	Sample Number	From	To	Length	est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
							Py	Cp	Sph	Au ppb	Ag	Cu	Zn
48.4	59.3	<u>F.P. DYKE WITH ALTERED FP.</u> As above lt. grey - orange-red where altered: A few phenocrysts up to 1cm. <u>Structure:</u> Cts 45° - 160° No fabric. veined sections fractured at 45° <u>Alteration & Veins:</u> White qtz ± chl. ± dolomite make up to 3-4% of unit: veins from 5cm up to 15cm. Most of unit below 55.2 has red alt'n Isolated clusters tourmaline? in vein margins e.g. 50.5 'stylolite' like black metallic (could be MoS ₂ - here + there in qv. Vein detail 49.4 - 49.6 20% up to 1.5cm 50.5 - 3cm; 51.8 - 15cm; 53.9 - 5cm; 55.3 - 56.3 0.5 - 7cm veins. 25% qtz; 57.4 - 3 cm; 58.2 - 1.5cm	3041	48.4	49.3	0.9	tr			925			
			3042	49.3	49.8	0.5	2-3			369			
			3043	49.8	50.6	0.8	tr			5			
			3044	50.6	51.6	1.0	-			7			
			3045	51.6	52.0	0.4	½			2			
			3046	52.0	53.0	1.0	tr			7			
			3047	53.0	53.8	0.8	-			3			
			3048	53.8	54.1	0.3	2			127			
			3049	54.1	55.2	1.1	-			2			
			3050	55.2	56.4	1.2	3			362			
			3051	56.4	57.6	1.2	tr-½			98			
			3052	57.6	58.5	0.9	½			22			
			3053	58.5	59.3	0.8	½			2			
59.3	64.25	<u>DEFORMED MAFIC - INTERMEDIATE VOLCANICS</u> Fine grained to med. fine dk. green - grey relatively soft, mostly strongly magnetic; Composed mainly of chlorite + carb. - including some calcite. <u>Structure:</u> looks massive uniform with thin streaky banding + foliation - schisosity at 50° - 60° Bottom 20 cm is a fine bx or fragmental <u>Alteration:</u> Minor lt. grey - short sections < 1 cm to 12 cm - alteration mainly bleaching + non-fizzy carb. with abundant fine Py. 59.6 - 12cm; 60.3 - 3cm; 61m - 5cm <u>Mineralization:</u> Beaded streaks, bands diss'n up to 6mm S.M.Py; up to 5-8% / 10cm	3054	59.3	59.8	0.5	4			nil	18	44	
			3055	59.8	61.1	1.3	2			5	27	91	
			3056	61.1	61.7	0.6	1			5	55	98	
			3057	61.7	63.1	1.4	tr			nil	38	70	
			3058	63.1	64.25	1.15	3			15	94	46	
64.25	66.5	<u>ALTERED MAFIC - INTERMEDIATE VOLCANIC</u> As above except 30-40% light grey bleaching - carb. - Py <u>Structure:</u> 1-2cm mud seam at top at 70° - probably marks a											

DIAMOND DRILL HOLE LOG

HOLE No.1

Metres		Description	Sample Number	From	To	Length	est%	est%	est%	Assays	ppm	ppm	ppm
From	To						Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		small fault. Sections broken core- 0.4m lost core between 64.25 +65.55m. includes a small grind at 65.5 and loss from fault. Alteration veins at 20° - 0°											
		<u>Alt:</u> Strong bleaching - carb. fine Py - 30% - 40% grey alt'n	3059	64.25 (0.4m	65.55 lost	1.30 core)	8-10			nil		34	30
		<u>Mineralization:</u> Heavy diss'n - vein - like streaks in lt. grey alt'n up to 20%/20cm.	3060	65.55	66.50	0.95	3-4			12		57	29
66.5	75.8	<u>MASSIVE MAFIC-INTERMEDIATE VOLCANICS.</u> <u>WITH BLUE QTZ PHENOCRYSTS</u> Dk grey green med. fine grained H=3-4; fine granular texture - sparse pale blue qtz phenocrysts ^1mm mainly carbonate chlorite ± a pale mica (?) + finely diss'd mt - strongly magnetic throughout.	3061	66.5	68.0	1.5	2			5		292	32
			3062	68.0	69.5	1.5	3			9		133	35
		<u>Structure:</u> No primary volc struct. recognized. Streaky thin banding here + there + schistosity at 50° - 65°	3063	73.3	74.3	1.0	½-1			3		53	39
			3064	74.3	75.7	1.4	5-6			22		90	43
		<u>Alteration & Veins:</u> Minor 0.5-10cm lt. grey beads with celcite bleaching fine Py + a little pale green mica - Lt. grey bands 30% of 30% 1m. Minor white qtz - calc at 66.9m Streaks up 2% Py overall;											
		<u>Min:</u> Py as diss'n + beaded streaks. conc'd in lt. grey bands; Heavy diss'n in a S.M. Py up tr Cp with lt. grey calc. at 66.8cm to 5cm. 2% Py overall;											
		<u>Remarks:</u> Could be massive. unbedded tuff or flow.											
75.8	77.2	<u>PORPHYRITIC FELSIC - INTERMEDIATE DYKE</u> As above; Fine granular texture Hard - 1% fsp. phenocrysts <u>Structure:</u> Cts 80° and 50° Massive											
		<u>Alteration & Veins:</u> 2-3% white qtz. + qtz-chl. veins . up to 1cm with wide selvages of pale brown silification + a little	3065	75.7	77.2	1.5	tr-½			nil		15	42

DIAMOND DRILL HOLE LOG

HOLE No.1

Pg.7 of 12

Metres From	To	Description	Sample				est°	est°	est°	Assays Au ppb	ppm	ppm	ppm
			Number	From	To	Length	Py	Cp	Sph		Ag	Cu	Zn
		diss'd fine Py											
77.2	82.6	<u>MASSIVE MAFIC - INTERMEDIATE VOLCANIC</u> As above. strongly magnetic	3066	77.2	77.8	0.6	1-2		nil		18	57	
			3067	77.8	78.7	0.9	1-2		7		20	55	
		<u>Structure:</u> Weak schistosity at 50° Streaky banding at bottom. Indistinct banding in higher sulphide sections.	3080	78.7	80.1	1-4	1-2		9		-	-	
			3068	80.1	80.7	0.6	1		14		11	31	
		<u>Alteration & Veins:</u> Rare lt. grey bleached bands up to 1cm Sparse lt. grey calcite veinlets.	3069	80.7	81.3	0.6	4-5		12				
			3070	81.3	82.4	1.1	tr		7				
		<u>Mineralization:</u> Strong diss'n beaded streaks med. grained Py Conc. up to 5% /30cm 2% overhall.											
		<u>Remarks:</u> Massive flow or tuff											
82.6	91.0	<u>DEFORMED FELSIC FRAGMENTAL QTZ. PHYRIC</u> Light to med. grey. Indistinct fine lLapilli to coarse grain tuff bx. 1- 10 % bright blue qtz. phenocrysts. Non-magnetic	3071	82.4	83.3	0.9	3-4	-	-	15	0.1	25	31
		<u>Structure:</u> Strong schistosity at 45°-60° Phenocryst broken granulated.	3072	83.3	84.0	0.7	5	tr	tr	12	0.1	300	23
			3073	84.0	85.0	1.0	5	-	tr	9	0.1	19	29
			3074	85.0	86.0	1.0	2	-	-	9	0.1	28	46
		<u>Alteration & Veins:</u> A little light grey bleaching at top + minor sil'n (?) here + there (could be primary)	3075	86.0	86.9	0.9	1	-	-	nil	0.1	28	55
			3076	86.9	88.0	1.1	3	tr	tr	5	0.1	29	24
			3077	88.0	89.0	1.0	3	-	tr	2	0.1	11	24
		<u>Mineralization:</u> Heavy + lean diss'n streaks - up to 2cm S.M.Py. Mainly interstitial (primry + minor vein like Py. Scattered grains lean diss'n very pale honey coloured sphalerite ?? here and there throughout tr Cp here and there	3078	89.0	90.0	1.0	4	-	tr	3	0.1	22	24
			3079	90.0	91.0	1.0	2	-	tr	5	0.1	77	30
		<u>Remarks:</u> 90.7-90.9 Cherty exhalite. Interbedded with intermediate - mafic tuff at bottom + top.											
91.0	105.6	<u>MASSIVE QUARTZ PHYRIC INTERMEDIATE VOLCANIC</u> As above 66.5-75.8m. Sections with fine diss'd mt: 'sugary'											

DIAMOND DRILL HOLE LOG

HOLE No.1

Pg.8 of 12

Metres		Description	Sample Number	From	To	Length	est%	est%	est%	Assays	ppm	ppm	ppm
From	To						Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		textured vitreous lustre: <u>Structure:</u> Indistinct thin banding (structural or bedding) + weak schistosity at 55° - 45°	3081	91.0	91.9	0.9	1-2	-	tr	5			
			3082	91.9	92.4	0.5	2	-	-	nil			
		<u>Alteration & Veins:</u> Minor bleached lt. grey bands + streaks up to 3cm with Py concentration: Minor bright blue qtz veinlets (with blue phenocrysts) e.g. at 94.7m	3083	98.2	99.0	0.8	2	-	-	5			
		101.7 - 1cm white qtz. at 45°	3084	101.1	101.6	0.5	1-2	-	-	3			
		<u>Min:</u> Discontinuous diss'n. beaded streaks: 1% overall	3085	104.3	105.6	1.3	2	-	-	10			
		<u>Remarks:</u> 93.4-93.8 felsic volcanic. 93.8-94.4 F.P. dyke:											
105.6	115	<u>DEFORMED QTZ PHYRIC FELSIC TUFF</u> -light to med. grey H=3-4 -composed of altered felspar, white mica, variable amounts pale blue qtz, 'phenocrysts'. Upper 1m composed of fragments up to 5cm, remainder is fine lapilli to ash. Non-mag.	3086	105.6	106.6	1.0	4-5		tr	8	0.1	23	13
			3087	106.6	107.8	1.2	3		-	3	0.1	12	10
			3088	107.8	109.0	1.2	1		-	7	0.1	28	16
			3089	109.0	110.0	1.0	4-5		-	10	0.1	28	6
			3090	110.0	111.5	1.5	1-2		-	2	0.1	24	24
			3091	111.5	113.0	1.5	2-3		-	7	0.1	26	15
			3092	113.0	114.0	1.0	3		-	7	0.1	20	18
		<u>Structure:</u> Strong deformed with fine wispy, lenticular schistosity at 45°	3093	114.0	115.0	1.0	2		-	7	0.1	21	21
		<u>Alteration & Veins:</u> fine white mica throughout (alteration?) Wispy pale green mica (sericite) here + there in bleached sections. 105.9-106.6 strong silification. Upper part lighter coloured due to sericite etc. + lower part darker, less altered.											
		<u>Mineralization:</u> 1-5% Py as diss'n, beaded streaks, massive bands up to 1cm. + interstitial in fragmental section near top:											
115.0	129.0	<u>MASSIVE F.P. DYKE</u> As above											

Metres		Description	Sample Number	From	To	Length	% Py	Assays ppb Au
From	To							
		<p><u>Structure:</u> No penetration deformation . Upper Ct at 40° with wallrock inclusions. Lower Ct at 40° with large wallrock inclusions.</p> <p><u>Alteration & Veins:</u> A little weak feldspar alteration near bottom 120.2-4cm white qtz with weak Py selvage -40°</p> <p>126.2-126.6 Rusty fracture with a little fault(?) bx:</p> <p><u>Mineralization:</u> tr - diss'd Py here + there</p>						
129.0	130.4	<p><u>DEFORMED QTZ. PHYRIC FELSIC TUFF</u> As above 105.6-115m:</p> <p><u>Structure:</u> fine streaky banding - schistosity at 40°- 60°</p> <p><u>Alteration & Veins:</u> A few white to blue white qv. + lenses up to 1cm along schistosity; Minor pale green sericite:</p> <p><u>Mineralization:</u> Diss'n streaks: layer of Py up to 5mm:</p>	3094	119.8	120.1	0.3	tr	nil
			3095	120.1	120.4	0.3	1/2	nil
			3096	120.4	120.7	0.3	tr	3
			3097	126.0	126.7	0.7	tr	nil
130.4	134.6	<p><u>DEFORMED QTZ PHYRIC FELSIC TUFF</u> As above</p> <p><u>Structure:</u> Upper Ct 50°; Lower Ct 35°</p> <p><u>Alteration & Veins:</u> a little bleaching, minor red (hem) -131.4 - white c.g. qv. with tr Py + minor red alt'n of wallrock veins at 30°</p> <p><u>Mineralization:</u> tr Py here + there</p>	3098	128.6	129.5	0.9	-	10
			3099	129.5	130.5	1.0	-	150
134.6	138.1	<p><u>DEFORMED QTZ PHYRIC FELSIC TUFF</u> As above</p>	3100	131.3	131.6	0.3	tr	53
			3101	135.8	136.2	0.4	-	24
			3102	137.2	138.0	0.8	-	5

DIAMOND DRILL HOLE LOG

HOLE No.1

Pg.10 of 12

Metres		Description	Sample Number	From	To	Length	est%	est%	est%	Assays
From	To						Py	Cp	Sph	Au ppb
		<p><u>Structure:</u> foliation - schistosity 45° - 60°</p> <p><u>Alteration & Veins:</u> 135.9-136.1 -Two 1cm blue qtz + c.g. dark Py veinlets at 50° with tr pale sph?</p> <p>137.2-137.4 - two 1m-3m white qtz veins tr Py 137.8 - 0.5cm grey qv.</p> <p><u>Mineralization:</u> See veins</p>								
138.1	152.1	<p><u>COARSE GRAINED MAFIC VOLCANIC OR GABBRO</u> Med. dark grey med. coarse grained in fine grained sections: Texture with coarse grained in fine grained sections chl'd mafics in finer feldspars.</p> <p><u>Structure:</u> Mod. to strong foliated at about 45° intercalculated with massive sections.</p> <p><u>Alteration:</u> A little calc in lower part.</p> <p><u>Veins:</u> 147.3-148.3 - chl'd shear - 45° with 20% white qtz. calc + mod. pyritic selvage 150.8-151.2 25% white qtz. ± calc. + minor. py</p> <p><u>Mineralization:</u> Minor streaks + diss'd Py with 5% Py/10cm at 141m</p> <p><u>Remarks:</u> { 146.6-147 and { 148.8 -150. Gabbro sections with varied texture and scattered blue qtz. phenocrysts.</p>	3103	147.3	148.3	1.0	1			2
			3104	150.8	151.3	0.5	1			10
			3105	151.3	152.3	1.0	tr			3
152.1	153.4	<p><u>SHEARED GABBRO OR MAFIC VOLCANIC</u> Dark green med-grained chloritic;</p> <p><u>Structure:</u> Strong schistosity - contorted -20°</p> <p><u>Alt; & Veins:</u> Strong ,pervasive calc. + calcite partings</p>	3106	152.3	153.4	1.1	1			55

DIAMOND DRILL HOLE LOG

HOLE No.1

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Metres From	To	Description	Sample Number	From	To	Length	est°	est°	est°	Assays
							Py	Cp	Sph	Au ppb
		<u>Mineralization:</u> Scattered Py cubes.								
153.4	155.9	<u>QUARTZ VEIN</u> Coarse grained white quartz with a little calcite + 15°-20° angular chloritic inclusions. 2-3% coarse Py in inclusions <u>Structure:</u> Cts + banding at 40° to 30°	3107	153.4	154.3	0.9	3			746
			3108	154.3	155.1	0.8	1-2			31
			3109	155.1	155.9	0.8	1-2			128
155.9	156.6	<u>SHEARED MAFIC VOLC.-GABBRO WITH QTZ. VEINS</u> As above. Banding schistosity 20°-45° <u>Veins:</u> 20% contorted white qtz; minor Py + tr Cp. <u>Alteration :</u> Strong calc alteration.	3110	155.9	156.6	0.7	tr			106
			<u>3120</u>	156.6	157.0	0.4	tr			2
156.6	160.3	<u>COARSE GRAINED MAFIC VOLCANIC OR GABBRO</u> As above: <u>Mineralization:</u> 1% Py as scattered grains.								
160.3	162.4	<u>COARSE VARIED TEXTURE GABBRO-DIORITE</u> Distinct texture 1-3mm long mafic crystals in c.g. feldspar Mafics randomly oriented to weakly aligned. Sparse blue qtz. 'eyes': Feldspar saussurite <u>Structure:</u> nearly massive: upper Ct gradational <u>Mineralization:</u> Scattered Py grains								
162.4	163.5	<u>INTERMEDIATE FELDSPAR PORPHYRY DYKE</u> As above: relatively unaltered								
	163.5	END OF HOLE Note: Last block is 164m. A.W.Beecham.								



DH No HL-1

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DIAMOND DRILL HOLE LOG

HOLE No.1

Metres		Description	Sample			est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Pv	Cp		Sph	Au ppb	Ag
		General Comments:										

Property	Tp	Azimuth	Date started	Corrected	Dip	Tests	(^o)	Location Sketch
Lavigne Patents	Timmins	grid 202°	3rd Oct. 1997	Depth	Mag. Az	True Az	Dip	
Project	Lot & Conc.	Dip	Date Completed					
Sheraton-Timmins		46.5° "layout"	5th Oct.1997	101	46°			
Claim #	Co-ordinates	Length (metres)	Drilled by:					
P115841:P34453		119m	NDS Timmins					
Grid #	-46m west of L18E	Collar Elevation	Logged by:					
1995 -115°Base Line	2+00.75		A.W. Beecham					

Metres From	To	DESCRIPTION	Sample			est.%	est% ^o	est% ^o	ASSAYS	ppm	ppm	pp
			Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu
		Objectives:- Test I.P. Anomaly On L18E. Sheraton-Timmins Township Line										
0	31.4	CASING Boulders of diabase, F.P. mafic volcanics and 'granite' cored -3.5m recovered.										
31.45	32.9	<u>DEFORMED MAFIC VOLCANIC(?) OR SEDIMENT</u> Fine grained, dull dark green-grey chloritic but with slightly vitreous luster. mod. strongly magnetic. <u>Structure:</u> Controlled thin bands at top; strong schistosity - cleavage at 60° <u>Mineralization:</u> Discontinuous - heavy diss'n of py 2% overall.	3111	31.45	32.9	1.45	2		14			
32.9	46.4	<u>MASSIVE FELDSPAR PORPHYRY DYKE</u> Dk. grey matrix with 35% lt. grey-white feldspar phenocrysts. Most feldspar 0.5-2mm with scattered 8-10mm ones: Fresh + unaltered <u>Structure:</u> Cts at 50° - conformable to schistosity of country rocks. Very weak fabric at about 45° <u>Mineralization:</u> tr diss'd Py.										
46.4	69.6	<u>MAFIC - INTERMEDIATE VOLCANIC (MASSIVE TUFF?)</u> Med. - dull grey; H=3-4 Mod. strongly mag. Chlorite rich; rare blue qtz. phenocrysts; Vitreous lustre on broken surface. Fine sand-like texture core surface. fine diss'd mt; <u>Structure:</u> Thin streaky banding; Strong schistosity at 45° - 50°. Some thin colour banding could be bedding?? 46.7 - 0.5cm gouge seam at 45°; 64m - deformed - tuff bx?										

Metres From	To	Description	Sample			est %	est %	est %	Assays	ppm	ppm	ppm
			Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu
		<u>Alteration & Veins:</u> Minor white qtz - calc veinlets at 51.4 m - 8cm qtz epidote Py 75° at 59-64.3m - 15% lt. grey sections - coarse fragmental or alteration feature?	3112	50.6	51.3	0.7	1-2		7			
			3113	51.3	52.0	0.7	1		10			
		<u>Mineralization:</u> Good concentration of Py as diss'n + beaded streaks: massive layers + cross cutting vein like streaks up to 1cm.	3114	57.9-	59.4	1.5	1/2-1		22		22	67
			3115	59.4	60.9	1.5	4		67		38	47
			3116	60.9	62.3	1.4	2		82		46	44
		Py con'c as follows	3117	62.3	63.7	1.4	1-2		41		109	68
		46.4 - 50 1% Py	3118	63.7	64.6	0.9	3-4		38		320	39
		50 - 57.3 1% Py	3119	64.6	66.0	1.4	1		2		43	38
		57.3 - 59.8 2% Py										
		59.8 - 60.8 3-4%										
		60.8 - 63. 1-2%										
		63. - 64.6 3%										
		64.6 - 69.6 1/2 - 1%										
		<u>Remarks:</u> Unit is probably a fine tuff-ash fall: dacitic composition: Lower Contact arbitrary - could be interbedded										
69.6	90.3	<u>MASSIVE QTZ PHYRIC INTERMED. VOLCANIC</u> Dk grey green, mostly f.g. H=4; Strongly magnetic; variable composition; Most has vitreous lustre + in places with fine actinolite, possible biotite(?) 1-5%, 1-2mm bright blue quartz crystal. A few thin layers (1cm) of up to 15% blue qtz. Fine mt diss'd throughout - usually up to 4% (70.8m)										
		<u>Structure:</u> Streaky banded + foliated at top Ct at 50° - most of unit massive										
		<u>Alteration & Veins:</u> 75.1 - 1cm qtz. calc Py chl 20° 775-78 - 1 cm vuggy, rusty vein 0°. Minor epidote streaks in lower part. Minor 1-2mm blue qtz. veinlets in lower part.										

Metres		DESCRIPTION	Sample Number	From	To	Length	est % Py	est % Cp	est % Sph	Assays Au ppb	ppm Ag	ppm Cu	ppm Zn
From	To												
		<p><u>Remarks:</u> upper contact <i>l/c</i> - gradational 77.0-77.3 f.g. diabase; Probably massive tuff as gradational into above unit but could be dacite flow. Short sections varied textured c.g. diorite with blue qtz. phenocrysts at 87.6 + from 89.1-89.8m - (dykes?) Unit maybe a hornfels.</p> <p><u>Mineralization:</u> Sparsely min'd with Py as diss'n, blebs, streaks: 74.8 - 4cm S.M Py; with minor pale brown min (sph??)</p>	3121	74.6	75.3	0.7	3			77			
			3122	77.4	78.1	0.7	2			154			
			3123	83.1	83.4	0.3	3			26			
90.3	93.5	<p><u>PORPHRITIC DIABASE</u> Dk. grey, f.g. fresh ophitic texture, magnetic, a few % 1-3cm epidotized feldspar phenocrysts:</p> <p><u>Structure:</u> Cts 40°- 15°</p>											
93.5	95.0	<p><u>MAFIC-INTERMEDIATE QTZ PHYRIC INTERMED-VOLCANIC</u> As above 69.6 - 90.3; Diss'n + streaks of mt.</p> <p><u>Structure:</u> banding foliation at 45°</p> <p><u>Mineralization:</u> tr diss'd Py; 94.9 - tr Cp with Py lt. grey calc. veinlet.</p>											
95.0	108.4	<p><u>BLUE QTZ DIORITE (CONTACT HYBRID ZONE)</u> Coarse med. grained variable textured rock; Alternating med. + c.g. sections: 5-20% blue qtz. feldspar, chloritized mafics. Abundant mt + veinlets - 3 -5%</p> <p><u>Structure:</u> Some streaky banding + foli'n at 45°; mostly massive.</p> <p><u>Alteration:</u> Abundant epidote as wisps + veinlets + altering feldspars</p> <p><u>Mineralization:</u> Min. Py as scattered grains, + veinlets with mt.</p>											

Metres		Description	Sample				est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
108.4	113.9	<p><u>Remarks:</u>Appears to be zone of mixed intrusive and partly digested fragments of wallrock- (possibly vent location) Very unusual intrusive.</p> <p><u>VARIED TEXTURED DIORITE-GABBRO</u></p> <p>Med. grey very coarse grained with laths of feldspars - similar to varied textures in Nipising Diabase: 60% feldspars; sparse, blue qtz eyes + veinlets Numerous partly digested wisps inclusions of dacite wallrock. Magnetite veinlets + streaks - up to 2 -3% mt.</p> <p><u>Structure:</u> wallrock sections fol'd at about 45°</p> <p><u>Alteration & Veins:</u>Epidote - chloritic Py veinlets.</p> <p><u>Mineralization:</u>Streaks + diss'n Py with wallrock phase-up to 15%/2cm l; minor diss'n ^ 1/2% overall: 113-113.9 - diss'n + scattered blebs of Py in weakly alt. zone.</p>											
			3124	112.9	114.1	1.2	1				3		
			3125	114.1	114.8	0.7	1/2				nil		
			3126	114.8	115.2	0.4	1/2				2		
			3127	115.2	115.6	0.4	tr				nil		
113.9	119.0	<p><u>FOLIATED INTERMEDIATE VOLCANIC OR INTRUSIVE</u></p> <p>Med. grey H=3; med.grained: non-mag.</p> <p><u>Structure:</u> Strong foliation + schistosity at 45°. See veins</p> <p><u>Veins:</u>Minor light grey calcite 114.3 -1cm grey qtz vein. 114.8 - 115.1 white-grey qtz. with alt'd wallrock: a little pale red alt below vein. Vein in calcite shear zone. Minor Py in wall rock.</p> <p>END OF HOLE. A. W. Beecham 7th October 1997</p>											

A. W. Beecham

13 Jan. 1998

DIAMOND DRILL HOLE LOG

HOLE No.2

Metres		Description	Sample				est%	est%	est%	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<p><u>DRILLING NOTES</u> -casing left in place. -Good water supply - used to drill HL#3. HK#4</p> <p><u>GENERAL REMARKS</u> -blue qtzs phytic diorite probably is feeder for some of qtz. phyrite tuff. Abundant magnitite in diorite (subvolcanic intrusions) and adjacent tuff suggests could be vent zone for hydra thermal system.</p>											

Property	Tp	Azimuth	Date started	Corrected	Dip	Tests	(°)	Location Sketch
Lavigne Patents	Timmins	025°(grid N.)	5th Oct.1997	Depth	Mag. Az	True Az	Dip	
Project	Lot & Conc.	Dip	Date Completed	00	46°			
Sheraton-Timmins		46°	7th Oct.1997	100	46°			
Claim #	Co-ordinates	Length (metres)	Drilled by:					
P-34452		133.m	NDS Timmins					
Grid #	L22m East/4+39.9S	Collar Elevation	Logged by:					
1995 115°BL			A.W. Beecham					

Metres From	To	DESCRIPTION	Sample				ASSAYS			ppm Ag	ppm Cu	ppm Zn
			Number	From	To	Length	est.% Py	est° Cp	est° Sph			
		OBJECTIVES:- TEST I.P. ANOMALY L22E/4+00S										
0	4.0	CASING										
3.5	13.6	<u>MASSIVE FELSIC VOLCANICS (OR ALTERED INTERMEDIATES)</u> Med. - lt. grey f.g.;H=5 Sub conchoidal fracture. >90° feldspar ± qtz. with chl. + minor diss'd mt. Weakly mod. mag. Sparse 1mm blue qtz.grains. <u>Structure:</u> Massive or with streaky fine beading; lowest 2m fol'd at 40° Minor broken core. <u>Alteration & Veins:</u> Mod. blotchy + fracture controlled sil'n mainly in middle of unit A little pale mica along schistosity. Sparse lt. grey qtz + calc with Py + chlorite up to 1cm. <u>Mineralization:</u> Py as mineral diss'n conc. in vein 5.6m Cp as blebs in 1mm calcite veinlets <u>Remarks:</u> No diagnostic features - probably altered dacite tuff.	3128	3.5	4.7	1.2	1		2			
			3129	4.7	6.2	1.5	1		7			
			3130	6.2	7.7	1.5	1-2		5			
			3131	7.7	9.2	1.5	½		3			
			3132	9.2	10.1	0.9	2		3			
			3133	10.1	11.0	0.9	tr		nil			
			3134	11.0	11.9	0.9	tr		7			
			3135	11.9	12.6	0.7	10		7			
			3136	12.6	13.6	0.1			nil			
13.6	77.7	<u>FELDSPAR PORPHYRY DYKE</u> Med. grey f.g. (not aphanitic) matrix with 50% 1-2mm feldspar + about 1% large, zoned euhedral feldspar up to 1cm x 2cm laths.Non-mag. <u>Structure:</u> Upper Ct 45°;Lower Ct at 30°. Massive + uniform 43.2 -46.5 Fracture Zone .Fractures at 45°;20° and 5° with a little red staining of feldspars. <u>Alteration :</u> Most of unit unaltered; 26.3-29.0. a few hairline to 1cm qtz.-calcite										

DIAMOND DRILL HOLE LOG

HOLE No.3

Pg.2 of 6

Metres From	To	Description	Sample			est %	est %	est %	Assays	ppm	ppm	ppm
			Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu
		veinlets with pale red brown selvages up to 15cm thick: tr Py in selvages - Altered selvages make up 1/3 of section:	3137	26.2	27.7	1.5						
			3138	27.7	28.7	1.0						
			3139	28.7	29.6	0.9						
		<u>Veins:</u> White qtz.-calcite up to 1cm here + there.										
		43.4-4cm white qtz.-chl tr Py at 20°	3140	43.2	43.5	0.5						
		50.5-3cm band qv tr Py 35°										
		60.5-two- 3cm lt. grey qtz. + 3% large cubes of Py 20°	3141	50.4	50.6	0.2						
		61.5-61.6 - minor calcite - chl + qtz. veinlets + pale red alt'n a little c.g. Py	3142	60.3	60.8	0.5						
		64.1 Two - 2 cm lt. grey qtz. + c.g. Py + chl.	3143	61.4	61.8	0.4						
		75.2-76.1 1-2cm qtz. chl. minor Py veins parallel to core.	3144	64.0	64.3	0.3						
			3145	75.2	76.2	1.0						
77.7	94.7	<u>INTERMEDIATE FINE TUFF</u>										
		med. streaky grey f.g. h=5 weakly mod. magnetic; vitrous lustre. Composed of altered feldspar ± whole white mica + 15-5% chlorite; Rare quartz -(some blue) phenocrysts.										
		<u>Structure:</u> Uniform distinctive thin streaky banding + schistosity at 35°. Hackley fractures:										
		Streaky banding may be very elongated lapilli.	3146	81.2	82.1	0.9	2-3				18	17
		89.8-93 -Py outlines flattened clasts 1-2cm x 10-15cm likely whole unit is highly deformed tuff bx.	3147	82.1	82.9	0.8	2				15	15
			3148	82.9	83.8	0.9	4-5				28	16
		93.3 -Two 0.5-1cm shear, mud seams conformable to schistosity at 30°	3149	83.8	85.0	1.2	1				10	24
			3150	85.0	86.2	1.2	1-2				11	12
		83.2 - 1cm gouge + bx at 20° -conformable.	3151	86.2	87.3	1.1	4-5				28	11
			3152	87.3	88.3	1.0	2-3				17	26
		<u>Alteration & Veins:</u> 5-10% of unit thin bleached sections - slightly harder probably due to silification + fine white mica.	3153	88.3	89.8	1.5	2				9	10
		Bleached zone contain fine pale Py diss'n ;	3154	89.8	90.8	1.0	3				15	11
		90.9-92.6 bleached, silicified;	3155	90.8	91.8	1.0	3-4				20	11
			3156	91.8	92.6	0.8	3-4				16	14
		Very minor grey calcite + calcite qtz. veinlets	3157	92.6	93.9	1.3	2-3				15	18
		94 - 94.2 -3cm + 1cm grey qtz. Py 20° cutting schistosity	3158	93.9	94.7	0.8	3-4				30	26

DIAMOND DRILL HOLE LOG

HOLE No.3

Metres		DESCRIPTION	Sample				est %	est %	est %	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<p><u>Mineralization:</u>Py as 0.5 to 2cm conformable massive bands + streaky irregular diss'n. Some streaks are 'w' shaped + appear interstitial to flattened clasts. Concentration up to 10%/20cm Average 2-3% throughout</p> <p>-2 types of Py coarse brown broken Py in massive streaks + pale fine diss'd Py in bleached sections.</p>											
94.7	102.3	<p><u>ALTERED INTERMEDIATE FELSIC TUFF & TUFF BX</u></p> <p>Pale grey med. grey in places streaky. f.g. even grained</p> <p>-Feldspar - qtz + white mica: non-magnetic</p> <p><u>Structure:</u> Primary volcanic bx (tuff bx) Very elongated clasts outline by bands + diss'n of Py;</p> <p>Strong cleavage- schistosity average 30° (measured)</p> <p>Interstitial Py granulated, fractured.</p>											
		<p><u>Alteration & Veins:</u>Most of the unit partly alt. to fine white mica - locally very pale green; variable weak to strong pervasive sil'n -strongest with heavy Py</p> <p>96.9m - 1cm grey qtz. 3% Py 40° cross cuts foliation.</p>	3159	94.7	95.4	0.7	12		15	0.6	38	4	
			3160	95.4	96.0	0.6	35		17	0.2	54	4	
			3161	96.0	97.5	1.5	4		3	0.1	28	4	
			3162	97.5	99.0	1.5	3-4		5	0.2	22	1	
			6163	99.0	99.6	0.6	8		14	0.1	18	1	
			3164	99.6	101.0	1.4	3		5	0.2	20	12	
			3165	101.0	102.5	1.5	3		nil	0.1	14	18	
			3166	102.5	103.4	0.9	5		nil	0.2	40	10	
		<p><u>Mineralization:</u> Massive bands, streaks (interstitial to clasts) deformed brown Py from beaded streaks up to 10cm -15cm solid Py; fine diss'n pale Py more prevalent in strongly altered sections;</p> <p>94.3 -60-70% Py /20cm. Interstitial Py very bright but tarnish brown quickly;</p> <p><u>Remarks:</u>Typical altered felsic pyroclastics. Similar pyritic envelope rocks of Moberun deposit Dufresney Twp. near Quebec.</p>											
103.4	108.3	<p><u>INTERMEDIATE FINE TUFF</u></p> <p>as above 77.7-94.7; non-mag.</p> <p>No qtz phenocrysts.</p>											

DIAMOND DRILL HOLE LOG

HOLE No.3

Pg.4 of 6

Metres From	To	Description	Sample Number	From	To	Length	est%	est%	est%	Assays	ppm	ppm	ppm
							Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<u>Structure:</u> Strong cleavage - schistosity at 30°											
		<u>Alteration:</u> 15% of unit bleached fine white mica + weak silification.	3167	103.4	104.9	1.5	2			nil		9	17
			3168	104.9	106.0	1.1	2-3			nil		21	16
		<u>Veins:</u> 5mm blue -white qv. at 103.8	3169	106.0	107.0	1.0	4			7		104	23
			3170	107.0	108.2	1.2	1			nil		25	23
		<u>Mineralization:</u> Py as diss'n- streaks + layers up to 1cm thick; 3% Py overall;											
108.3	110.0	<u>INTERMEDIATE - MAFIC DYKE (SILL)</u> Med grey, med. fine grained. composed of altered feldspar + chlorite. <u>Structure:</u> Cts conformable with schistosity in tuffs; <u>Veins:</u> Minor blue grey qtz. - calcite veinlets; <u>Mineralization:</u> tr -½% diss'd Py	3171	109.4	109.9	0.5	1			nil			
110.0	113.2	<u>FRACTURED INTERMEDIATE TUFF</u> As above <u>Structure:</u> Strong schistosity at 30°-0° Minor sections of broken core. <u>Mineralization:</u> tr diss'd Py											
113.2	113.5	<u>FAULT ZONE - QUARTZ VEINS</u> Strongly bleached + seritized tuff with 1/3 lt. grey qtz partings. 2(?)x 1cm gouge seams at 30° along schistosity;	3172	112.6	113.2	0.6	1			nil			
			3173	113.2	113.5	0.3	5			17			
113.5	116.2	<u>ALTERED IMMEDIATE FINE TUFF</u> light. streaky grey. f.g. H=5-6 Mainly feldspar. quartz. white mica: <u>Structure:</u> strong schistosity at 30°											

DIAMOND DRILL HOLE LOG

HOLE No.3


Pg.5 of 6

Metres		Description	Sample				est°	est°	est°	Assay	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	s Au ppb	Ag	Cu	Zn
		<u>Alteration</u> : Mod. fine sericite + sil'n;	3174	113.5	114.6	1.1	3					65	5
			3175	114.6	115.6	1.0	3					58	6
		<u>Mineralization</u> : Streaks diss'n + brobands broken Py up to 1cm thick	3176	115.6	116.2	0.6	3					23	20
116.2	121.2	<u>INTERMEDIATE FINE TUFF</u> As above; non mag.											
		<u>Structure</u> : streaky banding + schistosity at 25°-30° Flattened clasts >10cm outlined by Py in bottom 1m and at 116m											
		<u>Alteration</u> : A little bleaching -white mica;	3177	116.2	117.5	1.3	1						
			3178	117.5	118.7	1.2	1						
		<u>Mineralization</u> : Py streaks up to 1cm + diss'n;	3179	118.7	120.2	1.5	1						
			3180	120.2	121.2	1.0	2-3						
		<u>Remarks</u> : Probably highly deformed tuff bx;											
121.2	129.1	<u>INTERMEDIATE DYKE(?)</u> Dull grey mostly f.g. with some med.-fine grained vitreous lustre: non-mag. Composed of altered f.s.p. palelmicas + some chlorite											
		<u>Structure</u> : Massive to weakly fol'd in short sections (deforms differently than surrounding tuff.) Cts at 70°+25°											
		<u>Alteration</u> : 1-2% lt. grey calcite (in contrast to tuff which has almost no calcite veining - suggests dyke more basic)											
		<u>Mineralization</u> : tr diss'd Py See Remarks.											
		<u>Remarks</u> : 127.9-123.6 Septum intermediate tuff with 2-3% Py											
129.1	133.0	<u>INTERMEDIATE FINE TUFF</u> As above											

DIAMOND DRILL HOLE LOG

HOLE No.3

Pg.6 of 6

Metres		Description	Sample Number	From	To	Length	est°	est°	est°	Assays	ppm	ppm	ppm	
From	To						Py	Cp	Sph	Au ppb	Ag	Cu	Zn	
		<p><u>Structure:</u> very thin streaky banding + schistosity - cleavage at 50° - 30°. Coarse tuff bx at top.</p> <p><u>Alteration:</u> 129.1-129.6 bleached dull to white mica + sil'n:</p> <p><u>Veins:</u> Minor qtz.-feldspar at 129.4m</p> <p><u>Mineralization:</u> Diss'n + streaks Py especially at top. 8cm pod of Py at 129.5. Overall 2-3% of Py</p> <p><u>END OF HOLE</u></p> <p><u>GENERAL REMARKS</u></p> <p>1. Concentrations of Py in intermediate to felsic tuff breccia similar to Pyrite envelope around V.M.S. deposit hosted by felsic pyroclastics. Sericitized, silicified sections from 94.7-103.4 + 113.5-116.2 may carry low gold values.</p> <p>2. Small core angles, typically 30° indicate that dips generally grid north at about 75°</p> <p>3. Narrow fault zone with ribbon-like qv-Py from 113.2 - 113.5 may carry gold values:</p> <p>A. W. Beecham 10th October 1997  13/1/98</p>	3181	129.0	129.7	0.7	4				35			

Property	Tp	Azimuth	Date started	Corrected	Dip	Tests	(°)	Location Sketch
Kaltwasser-Demarchi	Sheraton-Timmins	grd 205°	8th Oct. 1997	Depth	Mag. Az	True Az	Dip	
Project	Lot & Conc.	Dip	Date Completed					
Sheraton-Timmins		45° "lavout"	9th Oct. 1997	100	42°			
Claim #	Co-ordinates	Length (metres)	Drilled by:					
			NDS. Timmins					
Grid #	L15E/3+75S±	Collar Elevation	Logged by:					
1995 115°			A.W. Beecham					

Metres From	To	DESCRIPTION	Sample				est.% Py	est° Cp	est° Sph	ASSAYS Au ppb	ppm Ag	ppm Cu	pp Zn
			Number	From	To	Length							
		OBJECTIVES:- TEST I.P. ANOMALY ON LINE 15+00E AND TOWNSHIP LINE .											
0	11m	CASING											
11m	29.4m	<u>DIORITE -GRANODIORITE</u> Med grey, c.g. Random feldspars 2mm-8mm with chloritized interstitial mafics - spotted appearance in places. Mod. to strong mag. H=6 to 5 About 80% feldspar : sparse blue qtz. grains. <u>Structure:</u> Mostly massive with short foliated, schistose sections. - at about 45° Lower Ct at 70° Weakly fractured with a little broken core. <u>Veins:</u> Minor white qtz. + qtz-calcite veins with no min in or alteration Minor qtz-calc chl. Py veinlets. e.g. at 17m <u>Alteration:</u> 25 0-20cm bxd sil'd + a little red alteration + Py <u>Mineralization:</u> Minor diss'n of Py here + there + with minor qtz. or qtz-calc veinlets <u>Remarks:</u> 26 0-26 7 - Altered mafic - intermediate dyke	3182	16.7	17.3	0.6	3		10				
			3183	24.7	25.2	0.5	3		2641 2571 Avg 2624	2nd			
29.4	30.9	<u>FELDSPAR PHYRIC INTERMEDIATE DYKE</u> med dull red; med. fg. with 1-2% white feldspar phenocrysts Vitreous lustre - 80% + felsic min. <u>Structure:</u> Intrudes shear zone in diorite. Cts - 70°											

DIAMOND DRILL HOLE LOG

HOLE No.4

Metres		Description	Sample				est %	est %	est %	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
30.9	38.6	<p><u>BLUE QUARTZ DIORITE - GRANODIORITE</u> Med to lt. grey + blue med. c.g.; spotted with altered mafics;H=5. strongly magnetic except for altered min. sections: ~ 80 % feldspar with up to 10% 1-3mm blue qtz. grains. Blue qtz. increases downwards. Several % magnetite + chloritized mafics.</p> <p><u>Structure.</u> Mostly massive. Some shattered + recemented sections (where altered and Pyritized)</p> <p><u>Alteration & Veins:</u> white qtz veins with Py up to 2cm thick;Fractured sections with irregular Py veinlets 32.7-32.4 shattered, sit'd cut by Py veinlets + white Qtz Py with red altered selvages veins at 60° - 30° - 0° -Alteration relatively weak as mt preserved within altered zones</p> <p><u>Mineralization:</u>2-3%Py throughout with concentrations in veinlets Py in veins as Py veinlets + possibly in shattered sections</p> <p><u>Remarks:</u>Same as intrusives in DH#2</p>											
			3184	30.8	31.7	0.9	1					57	
			3185	31.7	32.7	1.0	1/2-1					3	
			3186	32.7	33.4	0.7	5					516	
			3187	33.4	34.3	0.9	1					15	
			3188	34.3	35.1	0.8	3					55	
			3189	35.1	36.2	1.1	1					23	
38.6	48.1	<p><u>CHLORITE - SERICITE SCHIST - (MAFIC TYPE SEDIMENT)</u> Dh: green fine to med. fine grained soft H=3-4 Upper part most mag</p> <p><u>Structure:</u> Strong schistosity upper part at an 45° - 30° Lower part crumpled - from 20° to 0° to 135°(folded) 44 - 48 m sections of broken core + a little gouge</p> <p><u>Alteration & Veins:</u>Crumpled section: 44 - 48 bottom abundant calcite partings</p> <p>46.3-48.1 - 10% lens grey qtz. with streaks red altered rock</p> <p><u>Mineralization:</u>Minor diss'd Py near top.</p>											
			3190	46.3	47.2	0.9	-		nil				
			3191	47.2	48.1	0.9*			nil				

DIAMOND DRILL HOLE LOG

HOLE No.4

Pg.3 of 7

Metres From	To	DESCRIPTION	Sample Number	From	To	Length	est %	est%	est%	Assays	ppm	ppm	ppm
							Py	Cp	Sph	Au ppb	Ag	Cu	Zn
48.1	49.3	<u>BLUE QTZ. GABBRO</u> Coarse randomly oriented feldspars with 30% -40% chl'd mafics + a few % magnetitic + 2-4mm blue qtz. crystals. (60° + 70° -cross cutting											
49.3	51.8	<u>CHLORITE - SERICITE SCHIST (MAFIC TUFF-SEDIMENT)</u> As above 38.6 - 48.1											
51.8	59.6	<u>VARIED TEXTURED GABBRO</u> Med. green-grey coarse to very coarse grained -alternating coarse diabase to pegmatitic 65% Feldspar remainder chl'd mafics + several % mt. Scattered bright blue qtz grains. <u>Structure:</u> Numerous mafic inclusions. Generally massive + structureless. <u>Alteration:</u> Feldspars weakly sausserized - streaks veinlets epidote <u>Mineralization:</u> tr. diss'd Py											
59.6	63.6	<u>INTERMEDIATE DYKE</u> Med. dull grey, H=6 granular textured, vitreous lustrous mod mag <u>Structure:</u> chilled, bleached contacts at 65° -45° <u>Veins:</u> a few white calc-veinlets up to 2cm with diss'd Py in selvages											
63.6	76.5	<u>MED. GRAINED FOLIATED GABBRO OR MAFIC FLOW</u> Dk green, even grained H=3-4. Non mag looks vitreous on broken surfaces (carbonate?) Original mafic content.40-50% Sparse 1-2mm blue qtz 'eyes'											

Metres		Description	Sample Number	Sample			est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
From	To			From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<p><u>Structure:</u> Uniform dyke-like foliation -schistosity at 50° - 25°</p> <p><u>Alteration:</u> Minor light grey calcite + calcite qtz veinlets: A little pervasive calcite. Probably pervasive non-fizzy carb?</p> <p><u>Veins:</u> 72.3 - 3cm grey qtz. calc. weak Py selvage. at 0°</p>	3192	72.2	72.6	0.4	tr					nil	
76.5	84.3	<p><u>FOLIATED MAFIC VOLCANIC (TUFF?)</u> Dk. grey fine med. grained; H=4 non-magnetic. altered feldspar. chlorite + carbonate;</p> <p><u>Structure:</u> Weak foliation + schistosity at 60°; short sections of broken core with a little fault gouge. Streaky fine banding.</p> <p><u>Alteration & Veins:</u> a little pervasive calcite. + a few % calcite veinlets. Blebs + lenses grey qtz. 25% / 30cm at 77.7 and 15% from 82.9 - 83.6 in tr cp at 77.8</p> <p><u>Mineralization:</u> tr diss'd Py here + there.</p> <p><u>Remarks:</u> 79 - 79.9 grey med. fine grained intermediate dyke at 20°. Upper contact gradational with m.g. gabbro;</p>	3193	77.6	78.0	0.4	tr						2
			3194	82.8	83.7	0.9	tr						nil
84.3	87.2	<p><u>INTERMEDIATE - FELSIC DYKE (FELDSPAR PHYRIC)</u> Med. dull grey. f.g. granular texture - H=6; mod. magnetic. weakly feldspar phyric</p> <p><u>Structure:</u> Upper ct. obscured with broken core Lower Ct. chilled at small angle.</p> <p><u>Alteration & Veins:</u> A few % of rock is pale brown 'grid' sil'n with 1% Py + tr Cp.</p>	3195	84.2	85.7	1.5	tr-½						564
			3196	85.7	87.0	1.3	tr-½						208
87.2	89.3	<p><u>QTZ. PHYRIC INTERMED. DYKE</u> Dk. green med. f.g. vitreous luster; granular with 1% 1-7 mm blue qtz. phenocrysts, mod. magnetic.</p> <p><u>Structure:</u> Massive to weakly foliated.</p>											

Metres		Description	Sample				est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph		Au ppb	Ag	Cu
89.3	90.7	<u>FOLIATED MAFIC VOLCANIC (TUFF)</u> As above 76.5-84.3											
90.7	94.1	<u>DIORITE - GABBRO</u> Med.-dk grey green. coarse grained - 80% feldspar with chl'd mafic. sparse blue qtz. eyes. Mod. - strong mag. - coarse diabasic texture. <u>Structure:</u> Intrusive bx with 10% mafic f.g. inclusions. A little broken core. <u>Alteration:</u> A few % streaks - veinlets of epidote. <u>Mineralization:</u> 1% diss'd Py											
94.1	96.2	<u>INTERMEDIATE DYKE.</u> As above. <u>Structure:</u> Cts 20 ^o -30 ^o Strongly fractured broken core.											
96.2	99.6	<u>MED. GRAINED FOLIATED GABBRO (OR MAFIC VOLCANIC)</u> As above. 63.6-76.5											
99.6	104.3	<u>FRACTURED FELDSPAR PHYRIC INTERMEDIATE DYKE (FAULT ZONE)</u> As above. <u>Structure:</u> Strong fract. parallel to core.Broken throughout.											
104.3	106.4	<u>FRACTURED DIORITE-GABBRO-FAULT ZONE</u> As following unit. <u>Structure:</u> Finely broken throughout with a little gouge + fault bx. -Fault nearly // to drill hole.- prominent slickensided + gouge filled fractures parallel to core.											

DIAMOND DRILL HOLE LOG

HOLE No. 4

Pg.6 of 7

Metres		Description	Sample				est%	est%	est%	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
106.4	112.1	<p><u>QTZ - DIORITE - GABBRO</u> Dk. green with white to buff feldspars. c.g. 5-10mm acicular-blade mafics with 'interstitial' feldspar + 1-2% bright blue 1-3mm qtz. crystal</p> <p><u>Structure:</u> Fractured with sections of broken core prominent fract // to core.</p> <p><u>Alteration:</u> Sections with feldspar altered to epidote.</p> <p><u>Mineralization:</u> tr Py veinlets. diss'n.</p>											
112.1	116.2	<p><u>ALTERED INTERMEDIATE DYKE</u> As above.</p> <p><u>Structure:</u> contacts obscured by broken core.</p> <p><u>Alteration:</u> Has vesicular appearance (vuggy) due to weathered out calcite. Abundant calcite as small 'spots' + veinlets. Sparse red alteration (silica-hem etc.) along fractures</p> <p><u>Mineralization:</u> 1-1% Py in red alteration. Minor Cp as scattered grains associated with calcite at 114.2</p>	3197	112.0	113.4	1.4	tr-			96			
			3198	113.4	114.5	1.5	tr-			57			
			3199	114.5	116.2	1.5	tr			11			
116.2	128.0	<p><u>GABBRO</u> As above 106.4-112.1 but with ~50% mafics + no blue qtz crystals. Very strongly magnetic</p> <p><u>Structure:</u> Massive + uniform. A little broken core. 127-128 Strong fracturing parallel to core.</p> <p><u>Alteration:</u> Patches of diffuse epidote.</p> <p><u>Mineralization:</u> Scattered grains + diss'n of Py.</p>											

DIAMOND DRILL HOLE LOG

HOLE No. 4

Pg.7 of 7

Metres		Description	Sample Number	From	To	Length	est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
From	To						Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<p>Remarks: 126.1-127 Intermediate f.g. dyke; 124.6-125.4 blue qtz. diorite;</p> <p><u>END OF HOLE</u></p> <p><u>GENERAL COMMENTS</u></p> <p>(1). I.P. Anomaly not explained. However fault intersected at 104 is nearly parallel to hole and source of anomaly may be close to hole on other side of fault:</p> <p>(2). No significant mineralization - No gold values expected.</p> <p><i>A.W. Beecham</i> A.W. Beecham 11th October 1997</p>											

Property	Tp	Azimuth	Date started	Corrected	Dip	Tests	(°)	Location Sketch
Kaltwasser-Demarchi	Sheraton	grid 205°	13th Oct. 1997	Depth	Mag. Az	True Az	Dip	
Project	Lot & Conc.	Dip	Date Completed	100			44°	
Sheraton-Timmins		45° "layout"	14th Oct. 1997					
Claim #	Co-ordinates	Length (metres)	Drilled by:					
P-1158839		101m	NDS, Timmins					
Grid #		Collar Elevation	Logged by:					
1995 - 115° Baseline	L12+00E/2+50.5S		A.W. Beecham					

Metres From	To	DESCRIPTION	Sample			est.% Py	est° Cp	est° Sph	ASSAYS					
			Number	From	To				Length	Au ppb	Ag	Cu	Zn	
		OBJECTIVES:- TO TEST SOUTH PART OF I.P. ANOMALY LINE 12+00E/2+50.5S												
0	10m	CASING Boulders, Mafic volcanics, feldspar porphyry.												
8.8m	18.1m	<u>DEFORMED MAFIC - ULTRA MAFIC VOLCANIC</u> Dk. green or blue green, soft chloritic, talcose in places. Non-mag.; Composed of carbonate(?) chlorite + a little talc. <u>Structure:</u> Uniform appearance. Strong schistosity at 40° - 50° Crumbly + sections of broken core. 10.7 - thin gouge seam along schistosity 14.8 1-2cm gouge + broken core at 45° marks small fault; <u>Alteration:</u> A little pervasive calc. Probably pervasive dolomite. <u>Mineralization:</u> tr Py here + there												
18.1	31.0	<u>MASSIVE, INTERMEDIATE TUFF (QTZ PHYRIC)</u> -Dk. grey-green fine to fine 'sand' size H=5 Very strongly magnetic; 'Granular texture' Composed of feldspar chlorite fine magnetite diss'n (2-4%) - 1-3%, 1-2mm blue qtz. 'eyes' <u>Structure:</u> Massive + uniform to thin streaky banding; Foliation + schistosity at 45° <u>Alteration & Veins:</u> 21.7 - 1cm grey qtz. calc. 25° 23.8 minor lt. grey qtz. + calcite. 27.6 - 1cm white qtz. at 30° Minor lt. grey bleaching (sericite?)	3200	18.8	19.5	0.7	3-4		265	0.2	24	63		
			3201	21.3	21.8	0.5	1-2		19	0.1	27	69		
			3202	21.8	22.5	0.7	½		3	0.1	7	50		
			3203	22.5	23.5	1.0	1		nil	0.1	6	42		
			3204	23.5	24.5	1.0	1-2		55	0.1	8	70		

DIAMOND DRILL HOLE LOG

HOLE No.HK#5

Pg.2 of 7

Metres		Description	Sample			est %	est %	est %	Assays	ppm	ppm	ppm	
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<p><u>Mineralization:</u> beaded streaks, diss'n of Py Minor diss'd Py with bleaching 1%Py overall with conc. Upto 8%/10cm:</p> <p>tr Cp with Py at 18.9m</p> <p><u>Remarks:</u> Looks like mafic volcanic but dk. colour possibly due to only low % chl.+fine mag. Possibly dacitic tuff</p>	3205	27.5	27.8	0.3	2		48				
31.0	36.6	<p><u>FRACTURED INTERMEDIATE FINE TUFF (QTZ. PHYRIC)</u> As above less magnetic , 1-3% blue qtz crystals.</p> <p><u>Structure:</u> Thin, streaky banding.Schistosity at 45°.Sections of broken core probably due to fractures // to core. Fine, wispy lapilli in bleached layers at 31.2 and 34.7m.</p> <p><u>Alteration:</u>10% of unit lt. grey due to fine white mica (sericite) in sections 5-20cm.Minor white qtz. veinlets.</p> <p><u>Mineralization:</u>Minor conc. of Py as thin beaded streaks + diss'n 32.6 - 2% - 3% lt red brown sphalerite(?) over 10cm. 31.3 - 20cm - part of pale rusty wisps may include sphalerite?? 34.5 - 34.7 3% pale sph(?)10cm.</p>	3206	30.5	31.0	0.5	1		-	24	0.1	93	29
			3207	31.0	32.0	1.0	tr		tr	45	0.1	113	25
			3208	32.0	33.0	1.0	tr		½	nil	0.1	17	41
			3209	33.0	34.0	1.0	tr		-	3	0.1	14	76
			3210	34.0	34.8	0.8	tr			5	0.1	59	54
			3211	34.8	35.2	0.5	tr			3	0.1	12	61
36.6	47.3	<p><u>MASSIVE DUNITE - PERIDOTITE DYKE</u> Dk. green H=4 Strong magnetic 40% 2-5mm pyroxene ± olivines in f.g., dk. green - black matrix.About 1% fine grey metallic (magnetite)</p> <p><u>Structure:</u> Massive, uniform, undeformed. Upper Ct at 45° gradual chill over 1.5m;Lower Ct - faulted.</p> <p><u>Mineralization:</u>tr -nil Py</p> <p><u>Remarks:</u>undeformed ultramafic dyke - possibly Kimberlite??</p>											

DIAMOND DRILL HOLE LOG

HOLE No.HK#5

Pg.3 of 7

Metres		DESCRIPTION	Sample				est %	est %	est %	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
47.3	49.1	<u>FAULT ZONE - DUNITE - PERIDOTITE</u> As above Broken and crumbled core throughout; 15cm - at top of bx + gouge. 15cm bx + gouge at bottom at 45°											
49.1	54.8	<u>INTERMEDIATE FINE -TUFF WITH SILTSTONE (QTZ PHYRIC)</u> As above: scattered. blue qtz. grains in upper part only; Grades downward into greywacke or siltstone. Very strongly magnetic. <u>Structure:</u> Massive to thinly, banded (bedded) at 45° <u>Alteration & Veins:</u> A little bleaching - silification with sulphite concentrations; 50.5-51.8 1-2cm white qtz. vein along core axis with tr Py. Minor lt. grey calcite veinlets; <u>Mineralization:</u> 49.1 - 49.4 Py as 'heavy' diss'n + rimming 1-2cm clots of black chlorite. -0.5 to 1cm, diffuse bands of Py at 49.6, 50.1, 50.7 and 51.8 53.9 - 6cm 15% Py. Elsewhere minor diss'd Py. 52.4 Po or dk. Py	3212	48.6	49.1	0.5	-		nil	0.1	183	59	
			3213	49.1	49.5	0.4	15		21	0.2	87	49	
			3214	49.5	51.0	1.5	½-1		nil	0.1	10	47	
			3215	51.0	52.5	1.5	1-2		nil	0.1	37	42	
			3216	52.5	53.8	1.3	tr-½		2	0.1	16	44	
			3217	53.8	54.7	0.9	2		nil	0.1	8	42	
54.8	59.4	<u>INTERMEDIATE TUFF WITH SULPHIDE ZONES (QTZ. PHYRIC)</u> Dk green mostly f.g. Unaltered sections (dk. green) strongly magnetic; 1-2% blue qtz. grains. <u>Structure:</u> Banding + schistosity 55m - 40°; 58m - 40°; 59m -30°- 45° 58. -58.3 lapilli tuif +tuff bx. <u>Alteration:</u> Lt. grey alt. with sulphide zones - mainly silification, a little jasperite + some sercite. Minor lt. qv. with Py selvage at 57.2 and 58.2											

Metres		Description	Sample				est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<u>Mineralization:</u> Heavy Py diss'n to S.M. Py Zones with 10-30% as follows: 54.8 -5.8 with 1-2% pale sph? a little med. red brown sph? 56.3 - 56.6 57.45 - 57.7 with 3% pale sph?? 59.0 -59.3	3218	54.7	55.9	1.2	30-40			31	0.1	16	24
			3219	55.9	56.6	0.7	10-12			51	0.1	12	37
			3220	56.6	57.4	0.8	2			3	0.1	17	39
			3221	57.4	58.3	0.9	10			22	0.1	16	34
			3222	58.3	59.0	0.7	1			nil	0.1	33	59
			3223	59.0	59.4	0.4	15-20			45	0.2	40	27
		<u>Remarks:</u> Min'n + alt. appears to be overprint formation of magnetite. Some of Py may form from mag.-sulphides may be relatively late rather than synvolcanic??											
59.4	61.5	<u>MASSIVE CHLORITIC ROCK (ALTERED MAFIC DYKE)??</u> Dk. green, med. f.g. H=3-4 Chlorite rich with non-fizzy carb. Non-magnetic.											
		<u>Structure:</u> Crenulated schistosity Schistosity - foliation at 45°	3224	59.4	60.5	1.1	-			2	0.1	30	38
		<u>Remarks:</u> 61 - 61.5 f.g. chl. schist.	3225	60.5	61.5	1.0	-			3	0.1	28	42
61.5	68.4	<u>ALTERED INTERMED. TUFF WITH SULPHIDE ZONES (QTZ. PHYRIC)</u> As above 54.8 - 59.4: Variable am't blue qtz. phenocrysts up to 3-4% Dk. sections mod.- strongly mag. Altered lt. grey sections non-mag. <u>Structure:</u> Thin streaky banding + schistosity at about 40° avg. contorted in places. <u>Alteration & Veins:</u> about 50% of unit altered and bleached light grey in sections from 2cm up to more than 1m thick; bleaching due to fine white mica + weak silification 65.8m 20% lt. grey qv. 67.6-67.8 - 10% lt. grey qv more or less conformable with schistosity; 68.3 - minor lt. grey qv.											

DIAMOND DRILL HOLE LOG

HOLE No.HK#5

Pg.5 of 7

Metres From	To	Description	Sample			est ^o	est ^o	est ^o	Assays	ppm	ppm	ppm	
			Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu	Zn
		<u>Mineralization</u> : Minor diss'd Py here + there throughout.	3226	61.5	62.2	0.7				19	0.7	19	21
		Light grey altered sections well mineralized with 5-10% fine to med. grained Py as follows:	3227	62.2	63.0	0.8				3	0.1	7	30
			3228	63.0	64.0	1.0				7	0.1	10	35
			3229	64.0	65.1	1.1				14	0.3	9	7
		61.6- 62.2 also flecked with pale red min. possibly sph??	3230	65.1	65.9	0.8				19	0.3	13	34
		64.0 - 65.1 1-2% Sph??	3231	65.9	66.5	0.6				53	0.5	17	64
		65.3 - 65.9	3232	66.5	67.1	0.6				9	0.1	13	82
		66.3 - 66.5	3233	67.1	67.8	0.7				nil	0.1	19	49
		67.2 - 67.5	3234	67.8	68.5	0.7				12	0.1	70	114
		67.9 - 68.0											
		68.4 - 68.5											
		tr MoS ₂ (?) in altered zone at 64.4m. Possibly (?) pale red sphalerite as noted above and at 65.6m											
68.4	70.4	<u>FINE GRAINED DIABASE DYKE</u> Med. dk. grey, fresh ophitic texture moderately magnetic. <u>Structure</u> : Cts chilled at 30°; Mod. fractured. A little rusty gouge at Lower Ct. <u>Mineralization</u> : Scattered grains py.											
70.4	78.1	<u>MASSIVE INTERMED. - FELSIC DYKE</u> Med. dull grey fine grained: granular. even texture: non-magnetic. H=6 <u>Structure</u> : Massive uniform. Strongly fractured with grey calcite+ calcite qtz. cement. Upper contact marked by 30cm septum of sediment-fine tuff + 1cm rusty gouge at 30°. Lower Ct at 20°. 76.4 - 0.5cm gouge with qtz.-calcite vein. <u>Veins</u> : See Structure. 76.2-77 - three - 1 - 3cm vuggy qtz. - calcite at 40°- 50°											
				76.1	77.1	1.0							not sampled


DIAMOND DRILL HOLE LOG

HOLE No.HK#5

Metres		Description	Sample				est°	est°	est°	Assays	ppm	ppm	ppm
From	To		Number	From	To	Length	Py	Cp	Sph		Au ppb	Ag	Cu
78.1	84.5	<p><u>INTERMEDIATE FINE TUFF</u> Dk. green - grey, f.g. even, granular texture;strongly magnetic; composed mainly of feldspar with minor qtz grains (no blue qtz.) fairly abundant chl. + a little magnetite.</p> <p><u>Structure:</u> 1-2cm long streaky 'felsic' lenses probably are deformed lapilli; strong schistosity at 45°</p> <p><u>Veins:</u>Minor light grey qtz.</p> <p><u>Mineralization:</u>tr diss'd Py</p>											
84.5	100.9	<p><u>DEFORMED INTERMEDIATE FINE TUFF (QTZ PHYRIC)</u> As above 1-2% blue qtz. phenocrysts. Darker sections moderately magnetic.</p> <p><u>Structure:</u> Fine streaky lenses - probably lapilli Streaky banding + schistosity at 35° - 40° Broken rusty with d core at 99.7m</p> <p><u>Alteration :</u> Minor lt. grey bleaching -mainly white mica associated with Py streaks.</p> <p><u>Veins:</u>99 - 6mm grey qtz.in altered pyrite zones. Minor lt. grey calcite.</p> <p><u>Mineralization:</u>Sections of fine-medium grained diss'd Py with bleaching. Conc. up to 5%-8%/10cm.</p>	3235	85.8	86.1	0.3	3		10	0.1	70	114	
			3236	88.0	89.1	1.1	2		36	0.1	21	175	
			3237	90.3	91.3	1.0	2-3		9	0.1	34	277	
			3238	91.3	92.2	0.9	3-4		nil	0.4	35	202	
			3239	94.0	94.6	0.6	1-2		7	0.1	9	232	
			3240	95.2	96.5	1.3	2		9	0.1	11	227	
			3241	98.9	100.0	1.1	3		17	0.2	141	515	
			3242	100.0	100.6	0.6	2		10	0.2	86	311	
	101.0	<u>END OF HOLE</u>											

DIAMOND DRILL HOLE LOG

HOLE No.HK#5

Metres From To	Description	Sample			est%	est%	est%	Assays	ppm	ppm	ppm
		Number	From	To	Length	Py	Cp	Sph	Au ppb	Ag	Cu
	<p align="center"><u>GENERAL COMMENTS</u></p> <p>(1)Concentrations of Py from 49.1-59.4 up to 30% over 1m and weak jasperite alteration (54.8 -59.4) silification + sericite alteration may carry low gold values.</p> <p>(2)Py concentrations up to 10% 0.7m from 61.5-68.5 accompanied by fine white mica (sericite) alteration + weak silification. - may carry low gold values??</p> <p>(3)Unidentified pale red brown mineral up to 1-2% occurs with Py concentration as follows: 31.0 - 35.2 54.7 - 57.7 61.6 - 65.6 may be sphalerite or carbonate.</p> <p><u>DRILLING NOTES</u> Core Size: NQ Casing Pulled: Location marked with stake and metal tag:</p> <p> A.W.Beecham. 15th October 1997</p>										

ASSAY CERTIFICATES

Haddington Resources Ltd.

Kaltwasser - Lavigne - Timmins Group Properties

October 1997



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Geochemical Analysis Certificate

7W-4073-RG1

Date: OCT-22-97

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat Timm
Attn: A. Beecham/P. Tallman

We hereby certify the following Geochemical Analysis of 19 Core samples submitted OCT-15-97 by .

Sample Number	Au PPB	Au check PPB	Ag PPM	Cu PPM	Zn PPM
3224	2	-	0.1	30	38
3225	3	-	0.1	28	42
3226	19	-	0.7	19	21
3227	3	-	0.1	7	30
3228	5	9	0.1	10	35
3229	14	-	0.3	9	7
3230	19	-	0.3	13	34
3231	53	-	0.5	17	64
3232	9	-	0.1	13	82
3233	Nil	-	0.1	19	49
3234	12	-	0.1	70	114
3235	10	-	0.1	19	30
3236	36	-	0.1	21	175
3237	9	9	0.1	34	277
3238	Nil	-	0.4	35	202
3239	7	-	0.1	9	232
3240	9	-	0.1	11	227
3241	17	-	0.2	141	515
3242	10	-	0.2	86	311

One assay ton portion used.

Certified by



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Established 1928

Geochemical Analysis Certificate

7W-4072-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat Timm
Attn: A. Beecham/P. Tallman

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 24 Core samples submitted OCT-15-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
3200	267	262	0.2	24	63
3201	19	-	0.1	27	69
3202	3	-	0.1	7	50
3203	Ni1	-	0.1	6	42
3204	55	-	0.1	8	70
3205	48	-	-	10	47
3206	24	-	0.1	93	29
3207	45	-	0.1	113	25
3208	Ni1	-	0.1	17	41
3209	3	-	0.1	14	76
3210	5	-	0.1	59	54
3211	3	-	0.1	12	61
3212	Ni1	-	0.1	183	59
3213	17	24	0.2	87	49
3214	Ni1	-	0.1	10	47
3215	Ni1	-	0.1	37	42
3216	2	-	0.1	16	44
3217	Ni1	-	0.1	8	42
3218	31	-	0.1	16	24
3219	48	53	0.1	12	37
3220	3	-	0.1	17	39
3221	22	-	0.1	16	34
3222	Ni1	-	0.1	33	59
3223	45	-	0.2	40	27

One assay ton portion used.

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Geochemical Analysis Certificate

7W-4058-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Attn: A. Beecham/P. Tallman

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 42 Core samples submitted OCT-14-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Ag PPM	Cu PPM	Zn PPM
3158	3	-	-	-	38	26
3159	15	-	-	0.6	38	4
3160	17	-	-	0.2	54	4
3161	3	-	-	0.1	28	4
3162	5	-	-	0.2	22	1
3163	14	-	-	0.1	18	1
3164	5	-	-	0.2	20	12
3165	Ni 1	-	-	0.1	14	18
3166	Ni 1	-	-	0.2	40	10
3167	Ni 1	-	-	-	9	17
3168	Ni 1	-	-	-	21	16
3169	7	7	-	-	104	23
3170	Ni 1	-	-	-	25	23
3171	Ni 1	-	-	-	-	-
3172	Ni 1	-	-	-	-	-
3173	17	-	-	-	-	-
3174	Ni 1	-	-	-	65	5
3175	Ni 1	-	-	-	58	6
3176	Ni 1	-	-	-	23	20
3177	5	-	-	-	-	-
3178	5	-	-	-	-	-
3179	2	-	-	-	-	-
3180	15	-	-	-	-	-
3181	39	31	-	-	-	-
3182	10	-	-	-	-	-
3183	2678	2674	2571	-	-	-
3184	57	-	-	-	-	-
3185	3	-	-	-	-	-
3186	516	-	-	-	-	-
3187	15	-	-	-	-	-

One assay ton portion used.

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Geochemical Analysis Certificate

7W-4058-RG1

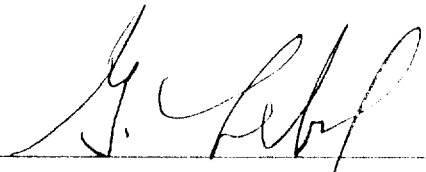
Company: **HADDINGTON RESOURCES LTD**
Project: **Sherat-Timm**
Attn: **A. Beecham/P. Tallman**

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 42 Core samples submitted OCT-14-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Ag PPM	Cu PPM	Zn PPM
3188	55	-	-	-	-	-
3189	26	19	-	-	-	-
3190	Ni1	-	-	-	-	-
3191	Ni1	-	-	-	-	-
3192	Ni1	-	-	-	-	-
3193	2	-	-	-	-	-
3194	Ni1	-	-	-	-	-
3195	480	648	-	-	-	-
3196	245	171	-	-	-	-
3197	96	-	-	-	-	-
3198	57	-	-	-	-	-
3199	77	-	-	-	-	-

One assay ton portion used.

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7W-4020-RG1

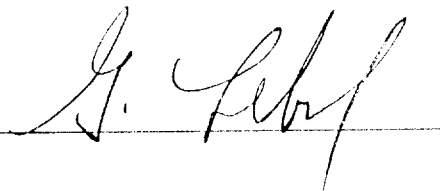
Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Attn: P. Tallman / A. Beecham

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 61 Core samples submitted OCT-10-97 by .

Sample Number	Au PPB	Au Check PPB	Cu PPM	Zn PPM
3097	Ni l	-	-	-
3098	10	-	-	-
3099	134	165	-	-
3100	53	-	-	-
3101	24	-	-	-
3102	5	-	-	-
3103	2	-	-	-
3104	10	-	-	-
3105	3	-	-	-
3106	55	-	-	-
3107	765	727	-	-
3108	31	-	-	-
3109	128	-	-	-
3110	106	-	-	-
3111	14	-	-	-
3112	7	-	-	-
3113	10	-	-	-
3114	22	-	22	67
3115	67	-	38	47
3116	82	-	46	44
3117	41	-	109	68
3118	38	-	320	39
3119	2	-	43	38
3120	2	-	-	-
3121	77	-	-	-
3122	154	-	-	-
3123	33	19	-	-
3124	3	-	-	-
3125	Ni l	-	-	-
3126	2	-	-	-

One assay ton portion used.

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7W-4020-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Attn: P. Tallman / A. Beecham

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 61 Core samples submitted OCT-10-97 by .

Sample Number	Au PPB	Au Check PPB	Cu PPM	Zn PPM
3127	Ni1	-	-	-
3128	2	-	-	-
3129	7	-	-	-
3130	5	-	-	-
3131	3	-	-	-
3132	3	-	-	-
3133	Ni1	-	-	-
3134	7	-	-	-
3135	Ni1	14	-	-
3136	Ni1	-	-	-
3137	10	-	-	-
3138	2	-	-	-
3139	5	-	-	-
3140	Ni1	-	-	-
3141	2	-	-	-
3142	5	-	-	-
3143	3	-	-	-
3144	Ni1	-	-	-
3145	22	-	-	-
3146	3	-	18	17
3147	Ni1	-	15	15
3148	9	Ni1	28	16
3149	Ni1	-	10	24
3150	14	-	11	12
3151	Ni1	-	28	11
3152	Ni1	-	17	26
3153	Ni1	-	9	10
3154	Ni1	-	15	11
3155	9	-	20	11
3156	9	-	16	14
3157	27	43	15	18

One assay ton portion used.

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Geochemical Analysis Certificate

7W-4020-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: **Sherat-Timm**
Attn: **P. Tallman / A. Beecham**

Date: OCT-17-97

We hereby certify the following Geochemical Analysis of 61 Core samples submitted OCT-10-97 by .

Sample Number	Au PPB	Au Check PPB
3097	Ni l	-
3098	10	-
3099	134	165
3100	53	-
3101	24	-
3102	5	-
3103	2	-
3104	10	-
3105	3	-
3106	55	-
3107	765	727
3108	31	-
3109	128	-
3110	106	-
3111	14	-
3112	7	-
3113	10	-
3114	22	-
3115	67	-
3116	82	-
3117	41	-
3118	38	-
3119	2	-
3120	2	-
3121	77	-
3122	154	-
3123	33	19
3124	3	-
3125	Ni l	-
3126	2	-

Handwritten signature/initials

One assay ton portion used.

Certified by *G. Subal*



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Geochemical Analysis Certificate

7W-4020-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: **Sherat-Timm**
Attn: **P. Tallman / A. Beecham**

Date: **OCT-17-97**

We hereby certify the following Geochemical Analysis of 61 Core samples submitted OCT-10-97 by .

Sample Number	Au PPB	Au Check PPB
3127	Nil	-
3128	2	-
3129	7	-
3130	5	-
3131	3	-
3132	3	-
3133	Nil	-
3134	7	-
3135	Nil	14
3136	Nil	-
3137	10	-
3138	2	-
3139	5	-
3140	Nil	-
3141	2	-
3142	5	-
3143	3	-
3144	Nil	-
3145	22	-
3146	3	-
3147	Nil	-
3148	9	Nil
3149	Nil	-
3150	14	-
3151	Nil	-
3152	Nil	-
3153	Nil	-
3154	Nil	-
3155	9	-
3156	9	-
3157	27	43

One assay ton portion used.

Certified by



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Geochemical Analysis Certificate

7W-3985-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: **Sherat-Timm**
Attn: **A. Beecham/P. Tallman**

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 29 Split Core samples submitted OCT-08-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
3067	7	-	-	20	55
3068	14	-	-	11	31
3069	12	-	-	-	-
3070	7	-	-	-	-
3071	15	-	0.1	25	31
3072	14	9	0.1	300	23
3073	9	-	0.1	19	29
3074	9	-	0.1	28	46
3075	Nil	-	0.1	28	55
3076	5	-	0.1	29	24
3077	2	-	0.1	11	24
3078	3	-	0.1	22	24
3079	5	-	0.1	77	30
3081	5	-	-	-	-
3082	Nil	-	-	-	-
3083	5	-	-	-	-
3084	3	-	-	-	-
3085	10	-	-	-	-
3086	5	10	0.1	23	13
3087	3	-	0.1	12	10
3088	7	-	0.1	28	16
3089	14	5	0.1	28	6
3090	2	-	0.1	24	24
3091	7	-	0.1	26	15
3092	7	-	0.1	20	18
3093	10	7	0.1	21	21
3094	Nil	-	-	-	-
3095	Nil	-	-	-	-
3096	3	-	-	-	-

One assay ton portion used.

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Geochemical Analysis Certificate

7W-3985-RG1

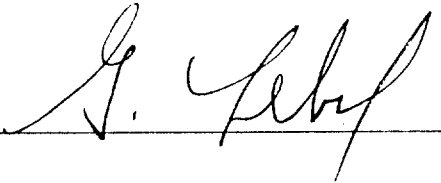
Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Attn: A. Beecham/P. Tallman

Date: OCT-10-97

We hereby certify the following Geochemical Analysis of 29 Split Core samples submitted OCT-08-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
3067	7	-	-	-	-
3068	14	-	-	-	-
3069	12	-	-	-	-
3070	7	-	-	-	-
3071	15	-	0.1	25	31
3072	14	9	0.1	300	23
3073	9	-	0.1	19	29
3074	9	-	0.1	28	46
3075	Nil	-	0.1	28	55
3076	5	-	0.1	29	24
3077	2	-	0.1	11	24
3078	3	-	0.1	22	24
3079	5	-	0.1	77	30
3081	5	-	-	-	-
3082	Nil	-	-	-	-
3083	5	-	-	-	-
3084	3	-	-	-	-
3085	10	-	-	-	-
3086	5	10	0.1	23	13
3087	3	-	0.1	12	10
3088	7	-	0.1	28	16
3089	14	5	0.1	28	6
3090	2	-	0.1	24	24
3091	7	-	0.1	26	15
3092	7	-	0.1	20	18
3093	10	7	0.1	21	21
3094	Nil	-	-	-	-
3095	Nil	-	-	-	-
3096	3	-	-	-	-

One assay ton portion used.

Certified by 

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705)642-3244 Fax (705)642-3300



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Geochemical Analysis Certificate

7W-3969-RG1

Company: **HADDINGTON RESOURCES LTD**

Date: OCT-22-97

Project: Sherat-Timm

Att: P. Tallman/A. Beecham

We hereby certify the following Geochemical Analysis of 67 Core samples submitted OCT-07-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 3rd PPB	Cu PPM	Zn PPM
3001	3	-	-	-	-	-
3002	3	-	-	-	-	-
3003	12	-	-	-	-	-
3004	Nil	-	-	-	-	-
3005	Nil	-	-	-	-	-
3006	3	-	-	-	-	-
3007	3	-	-	-	-	-
3008	5	-	-	-	-	-
3009	29	-	-	-	-	-
3010	31	-	-	-	-	-
3011	36	-	-	-	-	-
3012	15	17	-	-	-	-
3013	12	-	-	-	-	-
3014	12	-	-	-	-	-
3015	19	-	-	-	-	-
3016	225	175	-	-	-	-
3017	15	-	-	-	-	-
3018	10	-	-	-	-	-
3019	3	-	-	-	-	-
3020	99	-	-	-	-	-
3021	15	-	-	-	-	-
3022	Nil	-	-	-	-	-
3023	3	-	-	-	-	-
3024	7	3	-	-	-	-
3025	5	-	-	-	-	-
3026	57	75	-	-	-	-
3027	31	-	-	-	-	-
3028	48	-	-	-	-	-
3029	103	-	-	-	-	-
3030	45	-	-	-	37	24

One assay ton portion used.

Certified by



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Geochemical Analysis Certificate

7W-3969-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: **Sherat-Timm**
Attn: **P. Tallman/A. Beecham**

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 67 Core samples submitted OCT-07-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 3rd PPB	Cu PPM	Zn PPM
3031	10	-	-	-	19	136
3032	283	245	-	-	248	137
3033	7	-	-	-	49	85
3034	33	-	-	-	30	98
3035	19	17	-	-	63	127
3036	Ni1	-	-	-	72	125
3037	9	-	-	-	9	107
3038	75	-	-	-	8	67
3039	12	-	-	-	31	83
3040	50	-	-	-	21	92
3041	1027	1200	857	617	-	-
3042	369	-	-	-	-	-
3043	5	-	-	-	-	-
3044	7	-	-	-	-	-
3045	2	-	-	-	-	-
3046	7	-	-	-	-	-
3047	3	-	-	-	-	-
3048	127	-	-	-	-	-
3049	2	-	-	-	-	-
3050	286	437	-	-	-	-
3051	98	-	-	-	-	-
3052	22	-	-	-	-	-
3053	2	-	-	-	-	-
3054	Ni1	-	-	-	18	44
3055	5	-	-	-	27	91
3056	5	-	-	-	55	98
3057	Ni1	-	-	-	38	70
3058	15	-	-	-	94	46
3059	Ni1	-	-	-	34	30
3060	12	-	-	-	57	29

One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 3 of 3

Established 1928

Geochemical Analysis Certificate

7W-3969-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Att: P. Tallman/A. Beecham

Date: OCT-22-97

We hereby certify the following Geochemical Analysis of 67 Core samples submitted OCT-07-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 3rd PPB	Cu PPM	Zn PPM
3061	5	-	-	-	292	32
3062	9	-	-	-	133	35
3063	2	3	-	-	53	39
3064	22	-	-	-	90	43
3065	Nil	-	-	-	15	42
3066	Nil	-	-	-	18	57
3080	9	-	-	-	-	-

One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 1 of 3

Established 1928

Geochemical Analysis Certificate

7W-3969-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Attn: P. Tallman/A. Beecham

Date: OCT-10-97

We hereby certify the following Geochemical Analysis of 67 Core samples submitted OCT-07-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 3rd PPB
3001	3	-	-	-
3002	3	-	-	-
3003	12	-	-	-
3004	Ni l	-	-	-
3005	Ni l	-	-	-
3006	3	-	-	-
3007	3	-	-	-
3008	5	-	-	-
3009	29	-	-	-
3010	31	-	-	-
3011	36	-	-	-
3012	15	17	-	-
3013	12	-	-	-
3014	12	-	-	-
3015	19	-	-	-
3016	225	175	-	-
3017	15	-	-	-
3018	10	-	-	-
3019	3	-	-	-
3020	99	-	-	-
3021	15	-	-	-
3022	Ni l	-	-	-
3023	3	-	-	-
3024	7	3	-	-
3025	5	-	-	-
3026	57	75	-	-
3027	31	-	-	-
3028	48	-	-	-
3029	103	-	-	-
3030	45	-	-	-

One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 2 of 3

Established 1928

Geochemical Analysis Certificate

7W-3969-RG1

Company: **HADDINGTON RESOURCES LTD**
Project: Sherat-Timm
Attn: P. Tallman/A. Beecham

Date: OCT-10-97

We hereby certify the following Geochemical Analysis of 67 Core samples submitted OCT-07-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 3rd PPB
3031	10	-	-	-
3032	283	245	-	-
3033	7	-	-	-
3034	33	-	-	-
3035	19	17	-	-
3036	Nil	-	-	-
3037	9	-	-	-
3038	75	-	-	-
3039	12	-	-	-
3040	50	-	-	-
3041	1027	1200	857	617
3042	369	-	-	-
3043	5	-	-	-
3044	7	-	-	-
3045	2	-	-	-
3046	7	-	-	-
3047	3	-	-	-
3048	127	-	-	-
3049	2	-	-	-
3050	286	437	-	-
3051	98	-	-	-
3052	22	-	-	-
3053	2	-	-	-
3054	Nil	-	-	-
3055	5	-	-	-
3056	5	-	-	-
3057	Nil	-	-	-
3058	15	-	-	-
3059	Nil	-	-	-
3060	12	-	-	-

One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 3 of 3

Established 1928

Geochemical Analysis Certificate

7W-3969-RG1

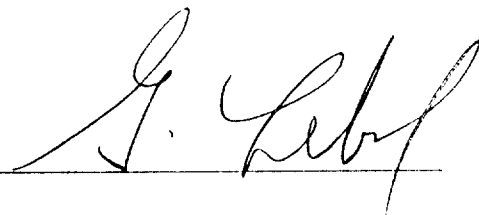
Company: **HADDINGTON RESOURCES LTD**
Project: **Sherat-Timm**
Attn: **P. Tallman/A. Beecham**

Date: OCT-10-97

We hereby certify the following Geochemical Analysis of 67 Core samples submitted OCT-07-97 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 3rd PPB
3061	5	-	-	-
3062	9	-	-	-
3063	2	3	-	-
3064	22	-	-	-
3065	Nil	-	-	-
3066	Nil	-	-	-
3080	9	-	-	-

One assay ton portion used.

Certified by 

DRILL HOLE LOCATION PLAN

Drill Hole Sections

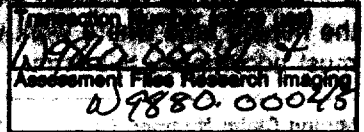
HL - 1
HL - 2
HL - 3
HK - 4
HK - 5

October 1997



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 66(2) and 66(3), R.S.O. 1990



Personal information c Mining Act, the Informe Questions about this 933 Ramsey Lake Roc



42A07SE0014 2.18116 SHERATON

900

66(3) of the Mining Act. Under section 8 of the ork and correspond with the mining land holder. Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

2.18116

1. Recorded holder(s) (Attach a list if necessary)

Form with fields for Name, Client Number, Address, Telephone Number, and Fax Number for J.C.L. CORPORATION and RICHARD KALTWASSER.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
Physical: drilling, stripping, trenching and associated assays
Rehabilitation

Work Type: DIAMOND DRILLING. Office Use: Commodity, Total \$ Value of Work Claimed \$50,071. Dates Work Performed: From 26 09 97 To 15 10 97.

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Form with fields for Name, Telephone Number, Address, and Fax Number for A.W. BEECHAM. Includes RECEIVED stamps from the Geoscience Assessment Office and Porcupine Mining Division.

4. Certification by Recorded Holder or Agent

I, NEIL MAC ISAAC, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Neil Mac Isaac, Date: January 23/98, Agent's Address: Box 002 Schumacher Ont.

Deemed April 23/98

W9860.00041 +
W9860.00045

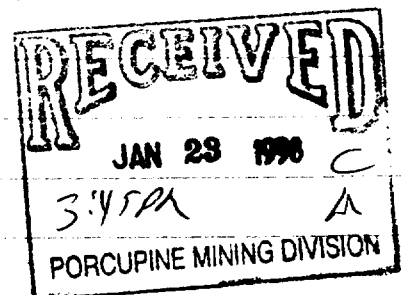
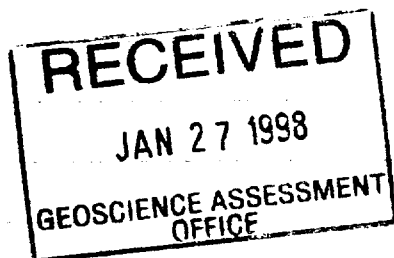
Recorded Holders (Supplementary list)

JACQUES ROBERT CLIENT # 188148
321 HAILEYBURY CRES.
PORCUPINE ONT. TEL/FAX 705-235-8029
GEN. DEL. PON 100

13116

DAVID E. DEMARCHI CLIENT # 12515
BOX 36
11 BRUCE ST. TEL 705-235-3888
SOUTH PORCUPINE ONT.
PON 140

HADDINGTON RESOURCES LTD (OPTIONEE)
11th FLOOR - BOB WEST HASTINGS ST
VANCOUVER B.C. CLIENT # 300638
V6C 2X4 TEL # 604-687-7463
FAX 604-681-2578



5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

eg	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$8,892	\$4,000	0	\$4,892
1	6000243 PAT. P-34452	1	10,325.	-	10,325.	-
2	6000243 PAT. P-34453	1	17,350.	-	17,279.	71.
3	P-1128983	16	-	12,800. ✓		
4	P-1128984	15	-	12,000. ✓		
5	P-1156114	1	-	800. ✓		
6	P-1156115	1	-	800. ✓		
7	P-1158839	1	4828.	800. ✓	4028.	
8	P-1158840	1	7949.	800. ✓	7149.	
9	P-1158841	1	4619.	400. ✓	4219.	
10	P-1158842	1	-	800. ✓		
11	L-1204220	8	-	6400. ✓		
12	P-1204296	12	-	9600. ✓		
13	P-1204297	1	-	1600. ✓		
14	L-1204298	4	-	3200. ✓		
15			-			
Column Totals			50,071.	50,000.	48,000.	71.

I, NEIL MAC ISAAC, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Neil Mac Isaac Date: January 23/98

6. Instructions for cutting back credits that are not approved.

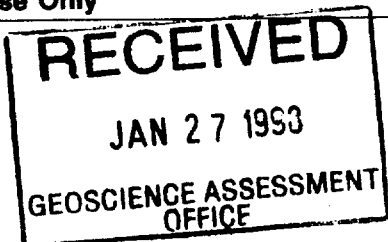
Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp



Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/98. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit	Total Cost
DIAMOND DRILLING	645 m	53.13/m	34,288.
DRILL SUPERVISION,			
CORE LOGGING, EXPEDITING	21.125 dys	275.	5809.
LABOR (CORE SPLITTING)	10 dys	125.	1250.
CORE ASSAYS			3589.
Associated Costs (e.g. supplies, mobilization and demobilization).			
Mob. & demob.		1000. ea.	2,000.
Services - plotting/drafting/print reading/typing logs, etc.		35.4 hrs. x 20. =	728.
MISC. SUPPLIES & RENTALS			417.
Transportation Costs		0.35 \$/km	1070.
Food and Lodging Costs		14 days	65.70/dy.
			920.
Total Value of Assessment Work			50,071.

RECEIVED
 JAN 27 1998
 GEOSCIENCE ASSESSMENT OFFICE

JAN 28 1998
 3:45 PM
 PORCUPINE MINING DIVISION

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK $\times 0.50 =$ Total \$ value of worked claimed.

Note:
 - Work older than 5 years is not eligible for credit.
 - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, NEIL MACISAAC, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent I am authorized to make this certification.
(please print full name)
(recorded holder, agent, or state company position with signing authority)

Signature: Neil MacIsaac Date: January 23/98

March 27, 1998

JCL CORPORATION
1110 LAVIGNE BLVD., P.O. BOX 630
TIMMINS, ONTARIO
P4N-7G2

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

Dear Sir or Madam:

Submission Number: 2.18116

Status

Subject: Transaction Number(s): W9860.00041 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.18116

Date Correspondence Sent: March 27, 1998

Assessor: Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9860.00041	34452	TIMMINS, SHERATON	Deemed Approval	March 25, 1998

Section:
16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Neil MacIsaac
SCHUMACHER, ONTARIO, CANADA

JCL CORPORATION
TIMMINS, ONTARIO

RICHARD F. KALTWASSER
MATHESON, Ontario

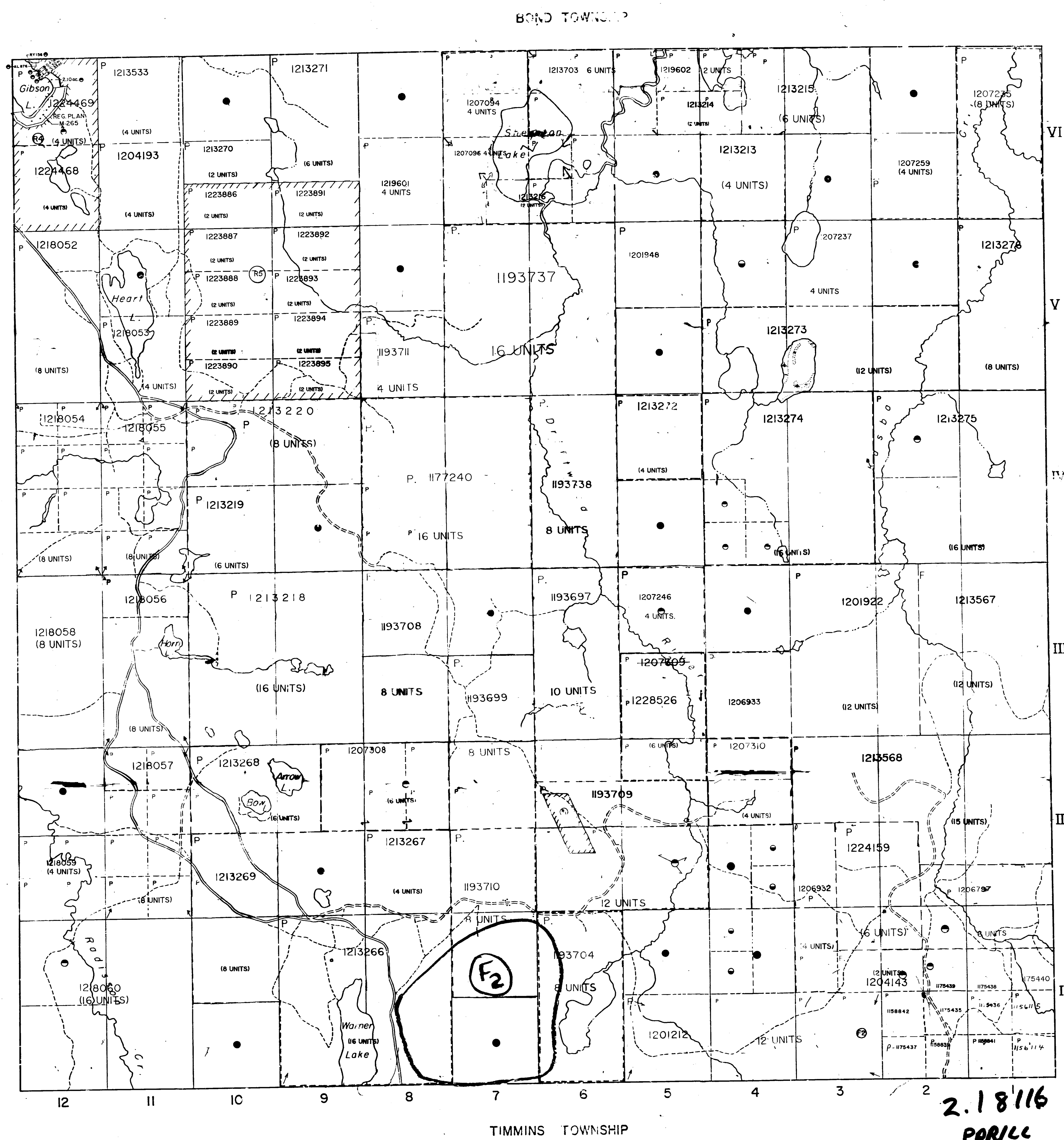
JACQUES ROBERT
PORCUPINE, Ontario

DAVID ENIO DEMARCHI
SOUTH PORCUPINE, ON

HADDINGTON RESOURCES LTD.
VANCOUVER, B.C.

AREAS WITHDRAWN FROM DISPOSITION

- M.F.O. - MINING RIGHTS ONLY
 - S.R.O. - SURFACE RIGHTS ONLY
 - M.+S. - MINING AND SURFACE RIGHTS
- | Description | Order No. | Date | Disposition | File |
|-------------|-----------|----------|-------------|--------|
| (M) | W.6/77 | 4/8/77 | S.R.O. | 177198 |
| (S) | W.16/72 | 16/1/76 | S.R.O. MR | |
| (M+S) | W.4/73 | 22/06/80 | S.R.O. MR | |
- (R4) - MINING AND SURFACE RIGHTS RE-OPENED UNDER SECTION 35 OF THE MINING ACT, R.S.O. 1990. ORDER NO. O-P-13/97 NER DATED MAY 16/97. ORDER COMES INTO EFFECT AT 8AM STD TIME, JUNE 1, 1997.
 - (R5) - MINING AND SURFACE RIGHTS RE-OPENED UNDER SECTION 35 OF THE MINING ACT, R.S.O. 1990. ORDER NO. O-P-15/97 NER DATED MAY 26/97. ORDER COMES INTO EFFECT AT 8AM STD TIME, JUNE 10, 1997.



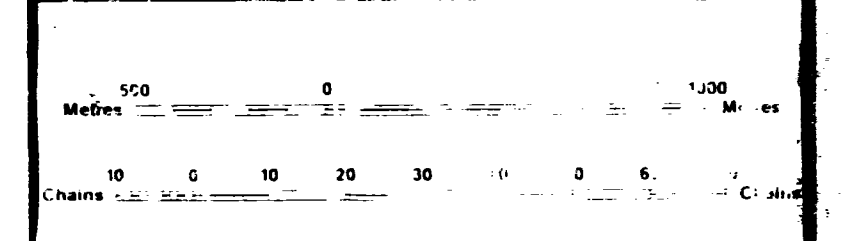
LEGEND

- ROADWAY AND ROUTE NETWORK
- UTHER ROAD
- TRAIL
- SURVEYED LINES
- TOWNSHIPS, BASE LINES
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUB-DIVISION OR COMPOSITE PLAN
- RESERVATION
- ORIGINAL SHOTLINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS	○
LEASE, SURFACE & MINING RIGHTS	○
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1912 VESTED IN ORIGINAL PATENTEE BY THE MINING LANDS ACT, 1912.



SCALE 1:20,000

NOTES

① THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1991/95. FURTHER INFORMATION ON FILE.

② THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1995/96. FURTHER INFORMATION AVAILABLE ON FILE.

2.18116

TOWNSHIP
SHERATON
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
CORCUFINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines

DATE OF ISSUE: 26 OCT 1996
BY: B.B.

G-3971

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

DATE OF ISSUE
JAN 26 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

EGAN TOWNSHIP

THOMAS TOWNSHIP

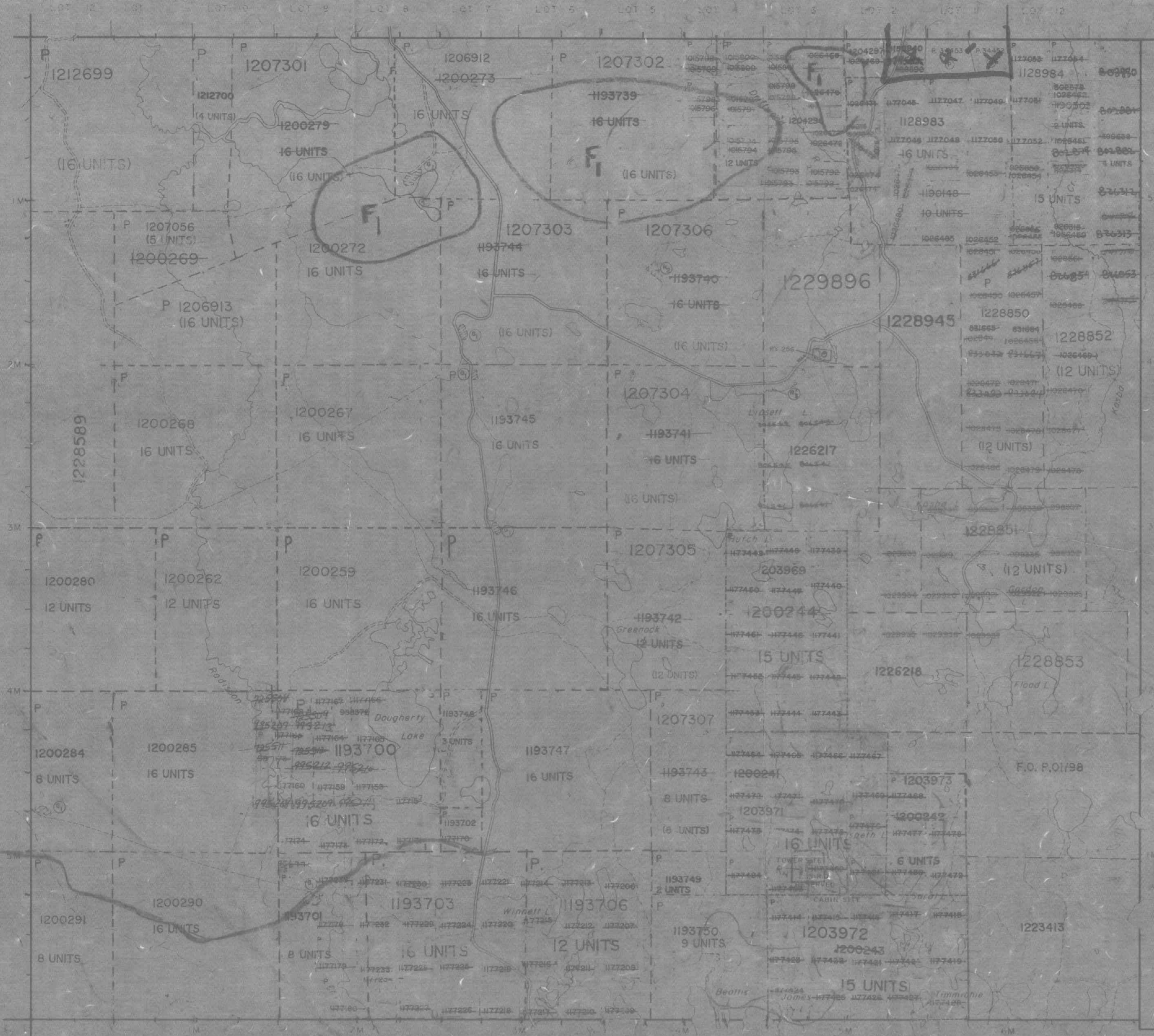
BOND TOWNSHIP

TIMMINS TOWNSHIP

2.18116
PARCEL

SHERATON TWP. M. 386

2.1816
PANILLEGAN TWP.
M. 346



BLACKSTOCK TWP. M. 263

MCEVAY TWP. M. 367

MICHIE TWP. M. 301

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970.

Order No.	File	Date	Disposition
W 57/77	192164	28/6/77	S.R.O.
W 56/77	188543	27/10/77	S.R.O.
W 19/76	188543	10/10/76	S.R.O.
W 34/85	182543	10/11/85	S.R. + M.R.

SAND and GRAVEL

Quarry Permit

THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1995/96. FURTHER INFORMATION IS AVAILABLE ON FILE.

DATE OF ISSUE

JAN 26 1998
PROVINCIAL RECORDING
OFFICE - SUDBURY

LEGEND

- PATENTED LAND (P) or (S)
- PATENTED FOR SURFACE RIGHTS ONLY (P)
- LEASE (L)
- LICENSE OF OCCUPATION (L.O.)
- CROWN LAND SALES (C.S.)
- LOCATED LAND (Lbc)
- CANCELLED (C)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- HIGHWAY & ROUTE NO. (Hwy)
- ROADS (R)
- TRAILS (Tr)
- RAILWAYS (Rly)
- POWER LINES (P.L.)
- MARSH OR MUSKEG (M)
- MINES (X)

* used only with summer resort locations or when space is limited

TOWNSHIP OF
TIMMINS
DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

DR: [blank] PLAN NO. **M.314**

DATE: MARCH 98
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



42A075E0014 2.18116 SHERATON



P1204143

P-1175439

P-1175438

P-1175440

P-1158842

P-1175435

P-1175436

P-1156115

L-1204220

P-1175437

P-1158839

P-1158841

P-1156114

GEOLOGICAL LEGEND

- | | | | |
|--|---|--|---|
| | 11 Lamprophyre | | (c) Gabbro |
| | 10 Late diabase dykes; p10 porphyritic; [10] interpreted from magnetics | | (l) Leuco diorite, gabbro |
| | 9 Granitoids: (a) granite, (b) syenite, (c) granodiorite, (e) tonalite | | (s) Serpentinite |
| | 8 Altered and Metamorphosed Rocks | | (b) Greywacke |
| | (l) Chlorite schist | | (d) Fine, bedded tuff, ash |
| | (s) Sericite schist | | (f) Magnetite iron formation |
| | 5 Mafic and Ultramafic Intrusives | | (h) Argillite, chert, siltst. graphite |
| | (a) Peridotite | | (s) Siltstone +/- argillite |
| | (f) Fine, grained, mafic | | (j) Dacitic volcanics |
| | (p) Pyroxenite | | (k) Fine grained felsic intrusives |
| | 4 Sediments | | (l) Fine, bedded tuff, ash |
| | (a) Argillite | | (m) Spherulitic, felsic flows |
| | (c) Chert | | (p) Felsic, hornblende porphyritic dyke |
| | (e) Sulphide-rich exhalites | | (g) Dacitic, f.sp. phric tuff, tuff Bx |
| | (g) Conglomerate | | (h) Dacite porphyry intrusives (F.P. porphyry intrusives) |
| | (f) Feldspathic quartzites | | (b) Breccia, flow bx |
| | 3 Intermediate to Felsic Volcanics and Subvolcanic Intrusives | | (d) Pillow flows |
| | (a) Rhyolite flows | | (f) Feldspar phric (andesite) |
| | (c) Quartz +/- feldspar phric tuffs | | (s) Streaky banded (sheared Z) |
| | (d) Quartz +/- feldspar phric dykes | | (t) Mafic tuff |
| | (e) Quartz +/- feldspar phric flows | | (b) Polysuture jointed flow |
| | (f) Fine grained felsic tuff | | (k) Komatiitic basalt |
| | (g) Dacitic, f.sp. phric tuff, tuff Bx | | |
| | (h) Dacite porphyry intrusives (F.P. porphyry intrusives) | | |
| | 2 Mafic Volcanics | | |
| | (a) Massive | | |
| | (c) Coarse grained | | |
| | (e) Variolitic flows | | |
| | (g) Mafic volcanic bx, argillite matrix | | |
| | (i) Diabasic textured flows | | |
| | 1 Komatiitic Volcanics | | |
| | (a) Spinifex textured flow | | |
| | (d) Komatiitic flow breccia | | |

SYMBOLS AND ABBREVIATIONS

- | | | | |
|-----|-------------------------------------|-------|---------------------|
| sss | sericite alteration | alt | altered |
| ### | silicification | Au | gold concentration |
| ... | sulphide concentrations | f.sp. | feldspathized |
| ... | variolites | fg | fine grained |
| ... | bedrock geochem. analyses in ppb Au | cg | coarse grained |
| --- | geological contact | hc | hyaloclastite (ic) |
| --- | shear zone, fault | mg | medium grained |
| --- | schistosity, foliation | pc | pyroclastic |
| --- | bedding | pl | pillowed, pillows |
| --- | breccia | tb | thinly bedded |
| --- | pillows with top direction | qv | quartz vein |
| --- | pillow over-turned | chl | chlorite |
| --- | outcrop, area of outcrop | Cp | chalcopyrite |
| --- | vein stockwork | gf | graphite, graphitic |
| --- | pit | Gn | galena |
| --- | shaft | hem | hematite |
| --- | trench in rock | Mo | molybdenite |
| --- | trench in overburden | mt | magnetite |
| --- | diamond drill hole | Po | pyrrhotite |
| --- | open, grassy swamp | Py | pyrite |
| --- | embankment | ser | sericite |
| --- | claim post, approx. loc'n | VG | visible gold |
| --- | claim post tied to grid | | |
| --- | survey iron bar | | |
| --- | all weather road | | |
| --- | track | | |

A.W. Beecham
May, 1996



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Sheraton-Timmins-Egan Township Claims
 Timmins Area, Dist. of Cochrane and Timiskaming, NE Ontario

GEOLOGICAL MAPPING

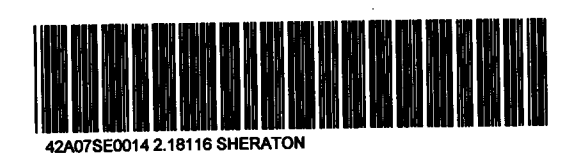
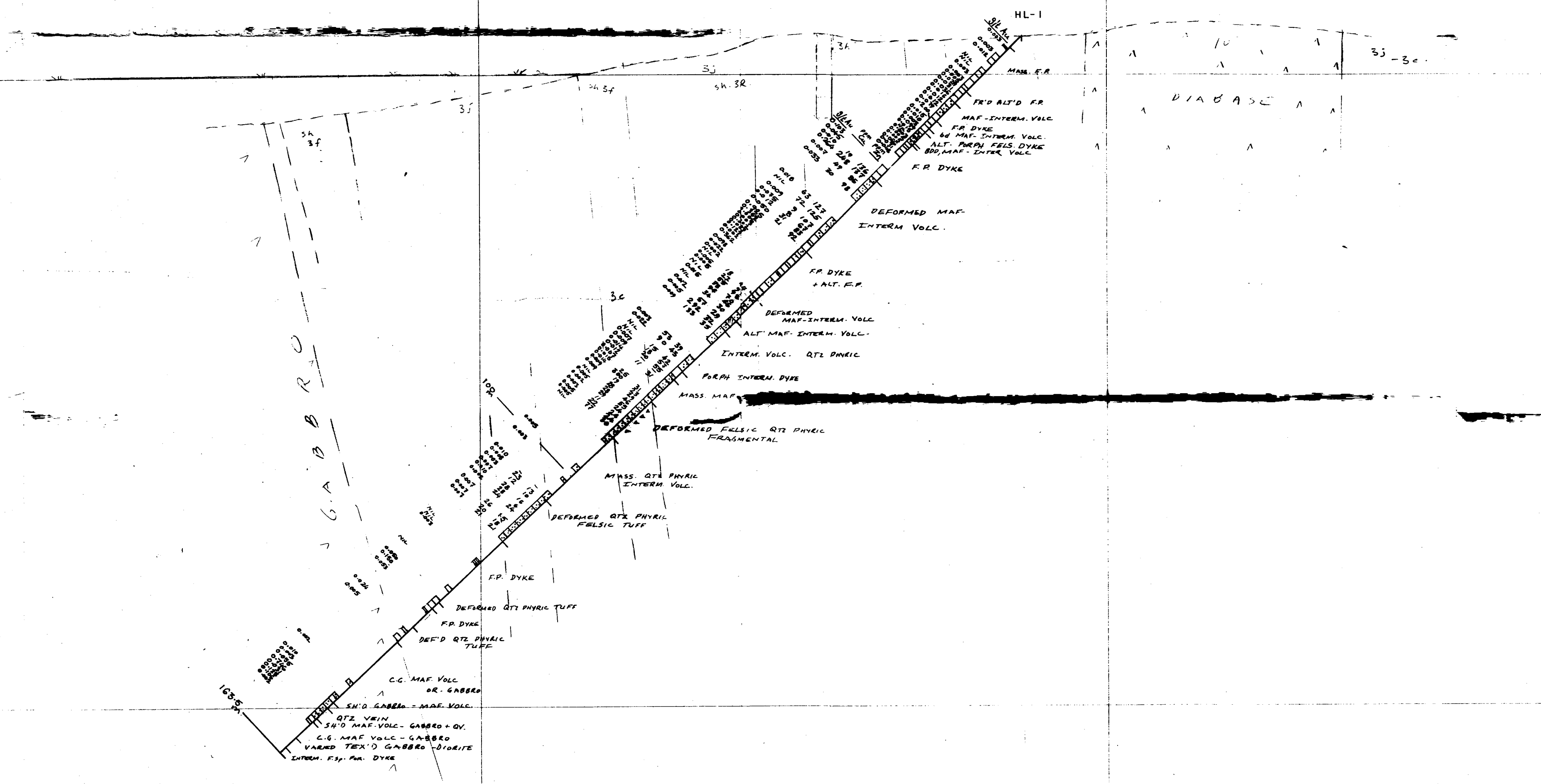
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Geology by: A.W. Beecham
 July, 1995
 May, 1996

NTS
 42-A-7

Note: Geology of patented claims P34452 and P34453 by A.W. Beecham, and N. MacIsaac, Sept. 1997

Drawing Revised: Sept. 1997, by A.W. Beecham
 Oct. 1997



230

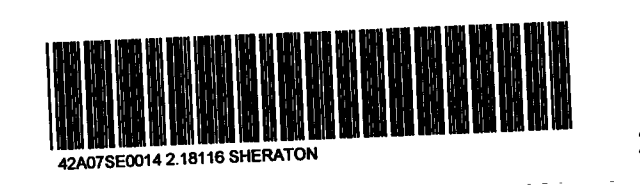
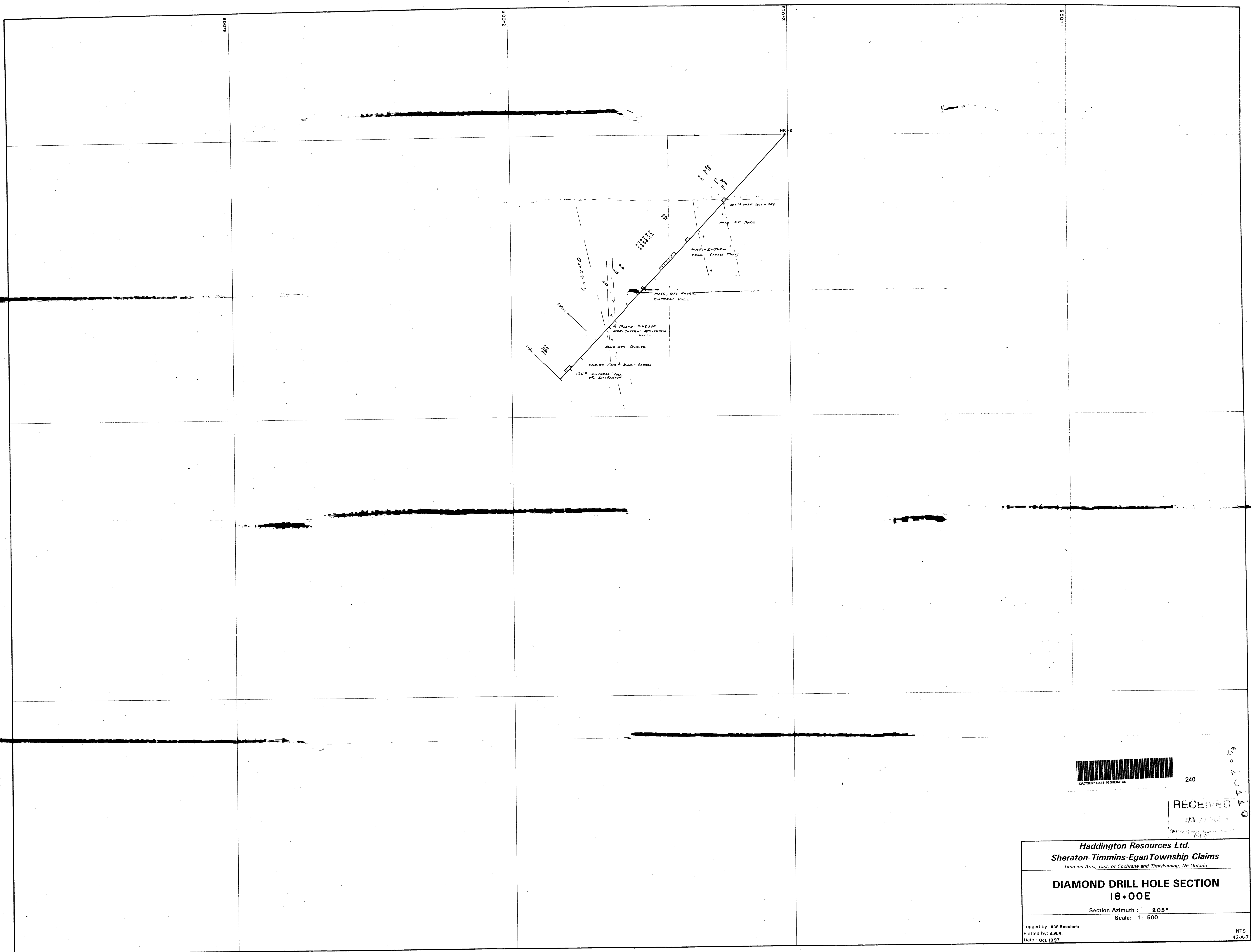
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DIAMOND DRILL HOLE SECTION

Section Azimuth: **235°**
Scale: 1:500

Logged by **A.W. Beecham**
Plotted by **A.W.B.**
Date: **Oct. 1997**



240

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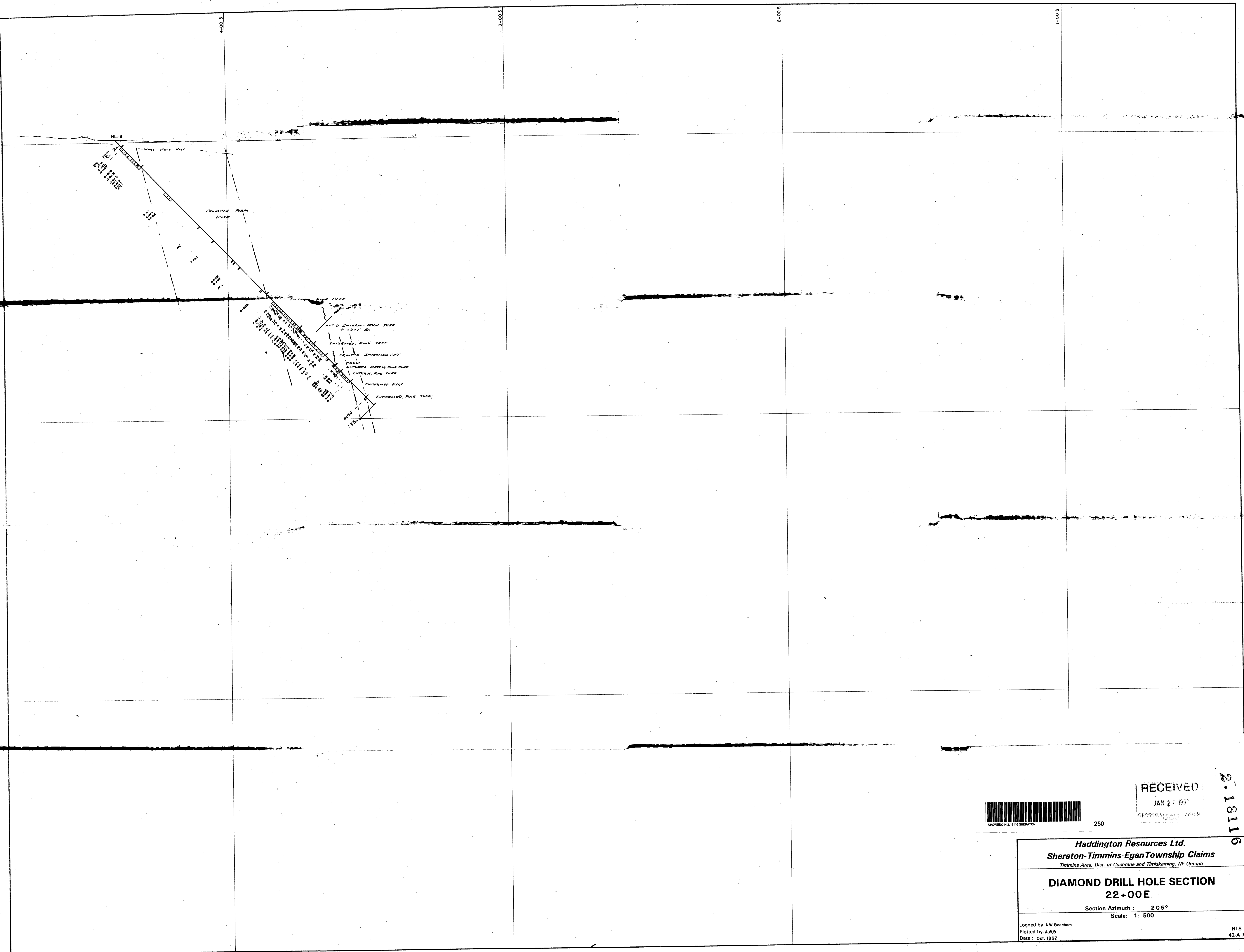
Haddington Resources Ltd.
Sheraton-Timmins-Egan Township Claims
 Timmins Area, Dist. of Cochrane and Timiskaming, NE Ontario

DIAMOND DRILL HOLE SECTION
18-00E

Section Azimuth : 205°
 Scale: 1: 500

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GEOLOGICAL SURVEY OF CANADA

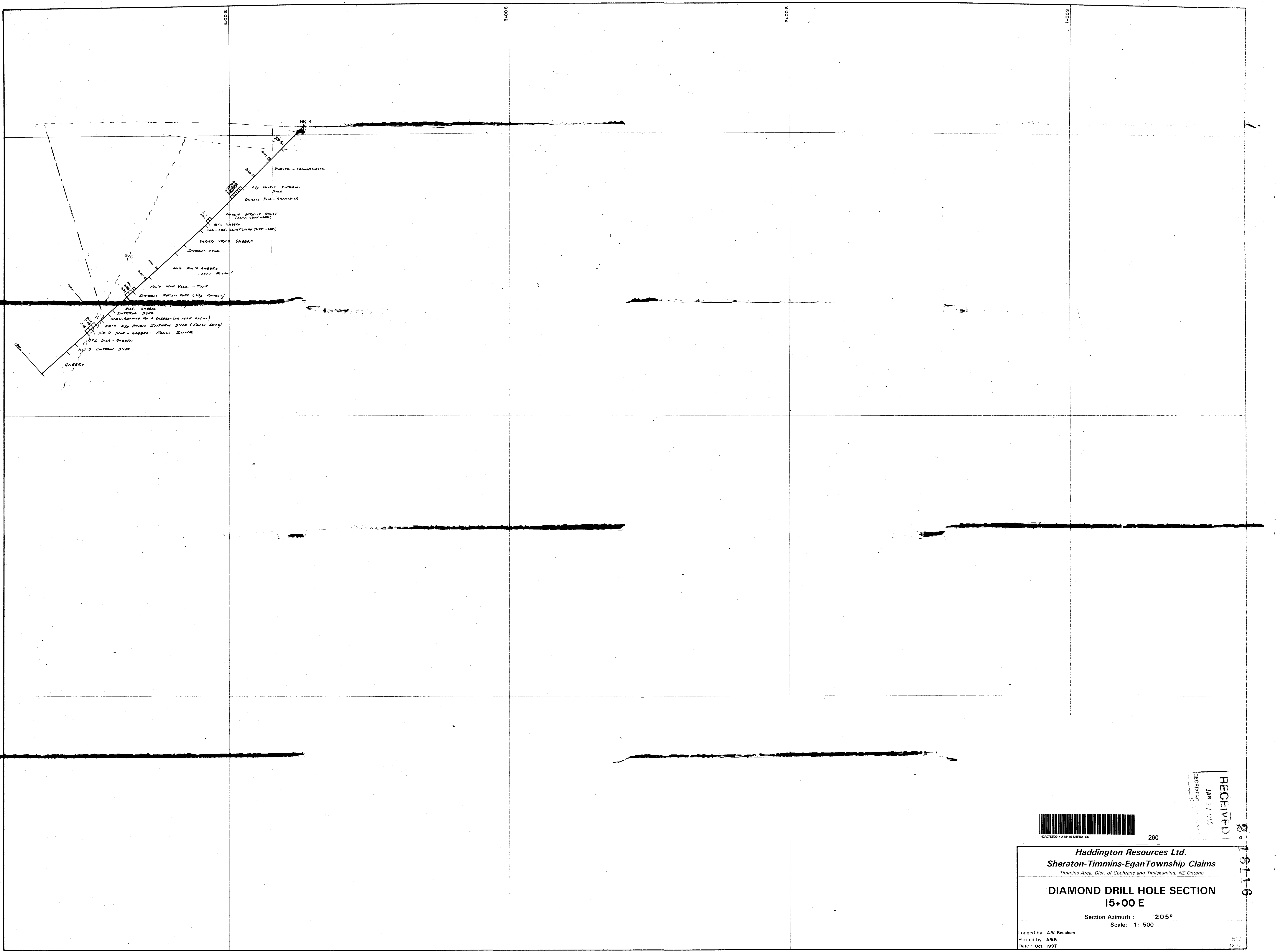
2-18116

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Sheraton-Timmins-Egan Township Claims
 Timmins Area, Dist. of Cochrane and Timiskaming, NE Ontario

DIAMOND DRILL HOLE SECTION
22+00E
 Section Azimuth : 205°
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GEOLOGICAL SURVEY OF CANADA

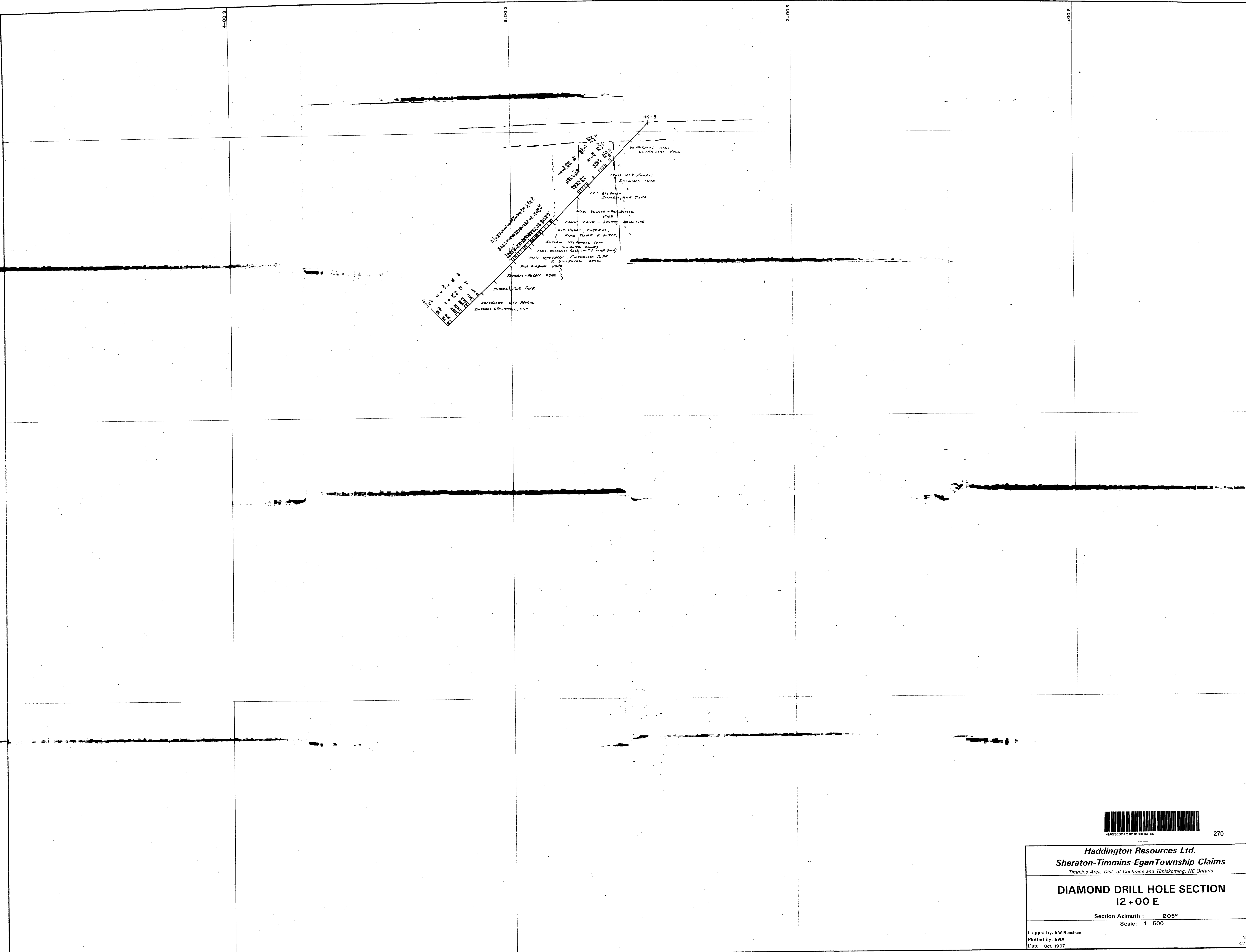
Haddington Resources Ltd.
Sheraton-Timmins-Egan Township Claims
Timmins Area, Dist. of Cochrane and Timiskaming, NE Ontario

DIAMOND DRILL HOLE SECTION
15+00 E

Section Azimuth: 205°
Scale: 1: 500

Logged by: A.W. Beecham
Plotted by: A.W.B.
Date: Oct. 1997

N.T.
42 A.



270

Haddington Resources Ltd.
Sheraton-Timmins-Egan Township Claims
 Timmins Area, Dist. of Cochrane and Timiskaming, NE Ontario

DIAMOND DRILL HOLE SECTION
12 + 00 E

Section Azimuth : 205°
 Scale: 1: 500

Logged by: A.W. Beechom
 Plotted by: AWB
 Date: Oct. 1997

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 42 A-7

2701010