DIAMOND DRILLING

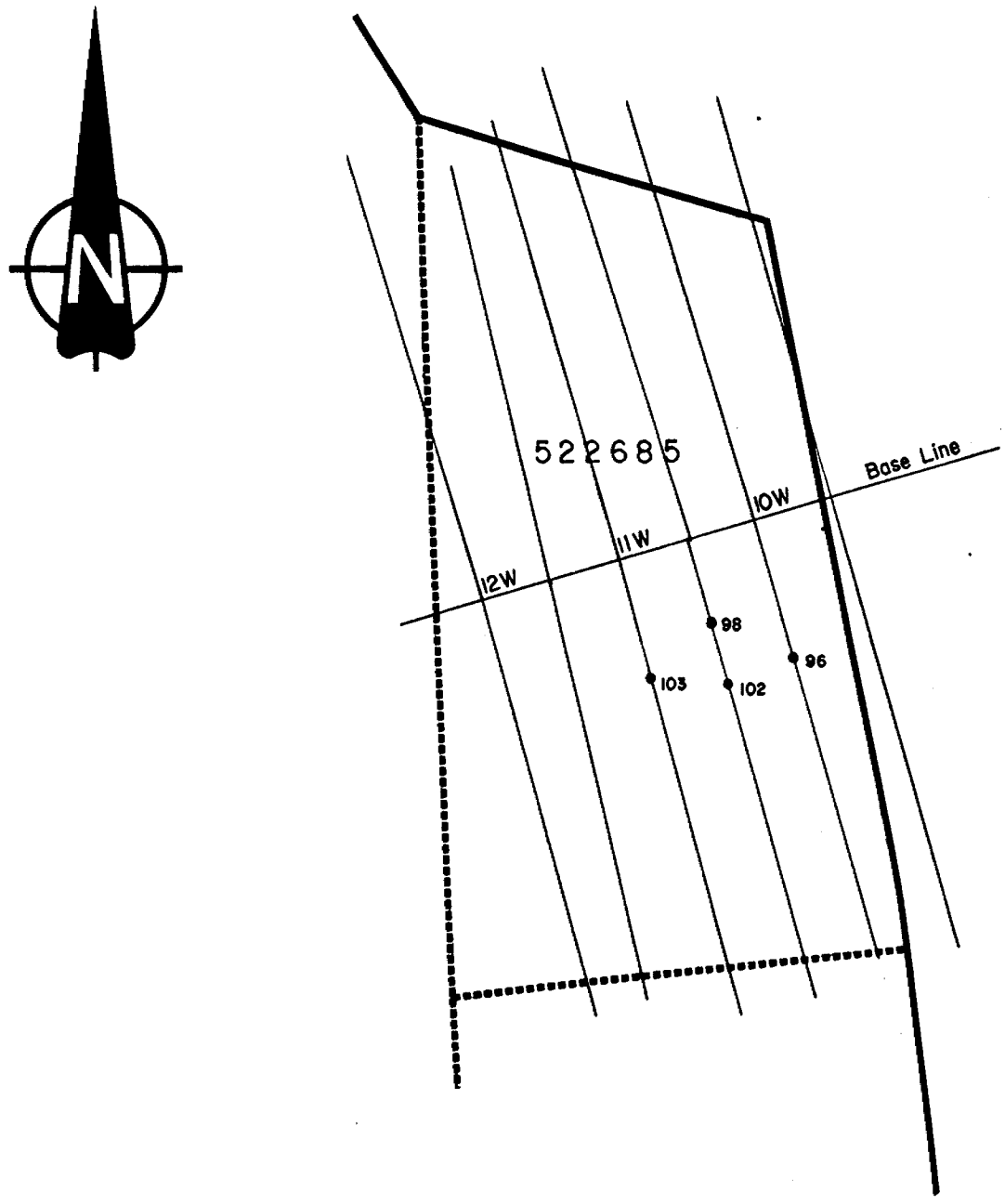
TOWNSHIP: Harker

REPORT NO.: 39

WORK PERFORMED BY: Barrick Resources Corp.

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L 522685	MC-84-96	228.84m	Sept/84	(1)
	MC-84-98	127.77m	Sept-Oct/84	(1)
	MC-84-102	184.91m	Oct/84	(1)
	MC-84-103	221.59m	Oct/84	(1)

NOTES: (1) #61-85



LOCATION MAP

Harker Township
Ontario

Scale 1:50000

DIAMOND DRILL RECORD

NAME OF PROPERTY: LENORA
HOLE NO.: Mc-84-96 LENGTH: 228.84 meters
LOCATION:
LATITUDE: 10 + 00 W DEPARTURE: 1 + 00 S
ELEVATION: AZIMUTH: 344° DIP: -65°
STARTED: September 20, 1984 FINISHED: September 27, 1984

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-65°		182.88	-60°	
45.72	-62°		228.60	-61°	
91.44	-61°				
137.16	-61°				

HOLE NO. Mc-84-96 SHEET NO. 1 OF 7
REMARKS:
LOGGED BY: A.W. Workman

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	18.32	OVERBURDEN									
18.32	180.33	BASALT Dark green, fine grained, occasionally fine to medium grained, massive flows with variably developed magnetism. Rocks are generally fresh with strong silicification and epidotization associated with flow margins. Flowtops are strongly vesicular. 18.32 - 22.35: fine to medium grained massive flow. Syenite dyke noted at 22.67-22.88 meters. 22.35 - 22.73: very fine grained to aphanitic flow bottom. 22.73: narrow silicified flow contact. 22.73 - 25.92: aphanitic flowtop breccia, strongly silicified and locally epidotized, becoming an aphanitic, weakly vesicular massive flow downhole. 25.92 - 30.87: fine to very fine grained, massive flow. Abundant reddish-pink, syenitic to granitic stringers and dykes locally (largest at 26.52-26.76 meters). 30.87 - 31.57: breccia zone, locally moderately silicified with margins exhibiting strong shearing at 35° to core axis, possibly basal flow. 31.57 - 35.55: fine to very fine grained massive flow. 35.55 - 39.42: fine to medium grained massive flow. 39.42 - 46.50: fine to very fine grained becoming aphanitic below 40.15 meters. 46.50: 10cm zone of intense brecciation with carbonate filling fractures, flow contact.									

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-96 SHEET NO. 2 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
		46.50 - 49.95: weakly welded flowtop breccia. Fragments are up to 2cm in size but average 1cm. 49.95 - 72.48: very fine grained massive flow becoming fine grained below 62.68 meters to a depth of 68.20 meters. Weakly to moderately magnetic throughout, particularly in relatively coarser grained sections. 72.48: silicified and epidotized flow contact at 80° to core axis. 72.48 - 81.35: very fine grained to aphanitic with moderately well developed 1-2mm dia. round vesicles. Vesicles are less abundant and smaller with depth, absent below 76.00 meters. Fractures, some of which are parallel to the core axis, are strongly hematized. Core is non-magnetic. 81.35 - 81.45: strongly epidotized and silicified flow contact. 81.45 - 92.45: same as 72.48-81.35 meters. Strongly vesicular above 83.42 meters with abundant patchy epidotization below 88.20 meters. 92.45: silicified and epidotized flow contact. 92.45 - 92.94: epidotized and silicified flowtoo, very fine grained to fine grained. 92.94 - 93.74: fine grained, massive flow. 93.74 -106.25: fine to medium grained, massive flow, becoming dominantly medium grained from 99.90-105.95 meters. Weakly to locally moderately magnetic. 106.25-106.30: aphanitic, silicified flow contact. 106.30-117.50: same as 92.94-106.25 meters. 117.50-117.80: fine to very fine grained, massive flow. 117.80-117.86: very fine grained to aphanitic, possibly sediment. 117.86-118.55: fine to very fine grained flowtop. 118.55-123.80: fine to medium grained (same as 92.94-106.25), becoming medium grained at 122.75-123.55 meters. 123.80-125.30: fine grained becoming very fine grained downhole.										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-96 SHEET NO. 3 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
		125.30-125.75: aphanitic, weakly silicified and moderately epidotized basal flow. 125.75-134.30: aphanitic, highly silicified flowtop breccia. Glassy devitrified matrix with minor sub-rounded to sub-angular fragments. 134.30-134.40: silicified and epidotized flow contact. 134.40-138.80: weakly brecciated, moderately epidotized and silicified aphanitic flow. Epidote develops radially away from fractures in the breccia, penetrating fragments. 138.80: flow contact. 138.80-149.30: cataclastic flow, intensely brecciated, comprising approximately 75% fragments and 25% epidotized matrix. Strongly silicified with minor flow breccia (welded angular fragments up to 5cm dia.) noted. 149.30-150.10: silicified and sheared, moderately brecciated basal flow. Locally foliated at 30-35° to core axis. 150.10-153.35: same as 138.80-149.30 meters. 153.35-153.38: silicified and epidotized flow contact. 153.38-167.05: similar to 138.80-149.30 meters however, brecciation less severe with some welding of fragments. A narrow green clay and grit filled fault at 20-30° to core axis is noted at 161.60 meters. 167.05-167.17: silicified and epidotized aphanitic flow margin/contact zone. 167.17-168.45: aphanitic to very fine grained, weakly to moderately vesicular flowtop. 168.45-172.85: fine to very fine grained, weakly brecciated (angular) flow. 172.85-177.35: fine grained, locally medium grained, massive flow. 177.35-178.68: fine to very fine grained flow with abundant leucoxenitic blebs throughout.										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-96 SHEET NO. 4 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ TON	ASSAYS OZ TON	
		178.68-178.95: interflow sediments, locally moderately well foliated/laminated at 50° to the core axis with 3-5% very finely disseminated pyrite.	8441	0-1	178.11	178.68	0.57			.005		
			8442	3-5	178.68	178.95	0.27			.01		
		178.95-180.33: fine to very fine grained, massive flow. Lower 30-40cm carries abundant, reddish hued, silicified and brecciated clasts, similar in nature to the material of the underlying zone.	8443	0-1	178.95	179.68	0.73			Trace		
			8444	0-1	179.68	180.33	0.65			Trace		
180.33	189.61	TRANSITIONAL SILICIFIED SEDIMENTS										
		Dark to medium green, very fine grained to aphanitic, highly brecciated and silicified sediments. Pale greyish-green to very dark purple-grey or reddish hued fragments are common throughout. Pyrite, as very fine disseminations, ranges from 1-3%.	8445	1-3	180.33	181.25	0.92			Trace		
			8446	1-3	181.25	182.12	0.87			.01		
			8447	1-3	182.12	183.08	0.96			.005		
			8448	1-3	183.08	183.97	0.89			.005		
			8449	1-2	183.97	184.86	0.89			.005		
		180.33-183.65: medium to dark green, waxy chloritic matrix, surrounding 10-20%, reddish hued, strongly brecciated and silicified clasts up to 5cm in diameter. Numerous 1-2cm thick silicified seams, irregularly cut across the core. The amount of silicification increases below 182.12 meters with minor selective dumping in the voids. 2-3% pyrite as very find disseminations.										
		183.65-184.25: minor epidotization and silicification with local brecciation. This unit resembles aphanitic, brecciated basalt. The alteration penetrates approximately 1cm into breccia fragments.										
		184.25-184.86: highly brecciated, comprising 60-70% flesh coloured, highly silicified fragments in a weakly silicified, predominantly chloritic matrix. Minor relic laminations are preserved and are noted at 40° to the core axis at 184.60 meters.										
		184.86-185.84: the breccia takes on an increasing reddish hue and is dominantly chloritic with localized strong silicification. Dirty carbonate alteration zones locally have up to 3-5% pyrite.										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-96 SHEET NO. 5 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		185.84-185.88: a fault zone of green grit and minor clay - is probably the extension of the McKenna Fault.	8450	1-2	184.86	185.84	0.98			.01		
			8451	1-2	185.84	186.79	0.95			.02		
			8452	1-2	186.79	187.77	0.98			.01		
		185.88-189.61: fine grained, dark green, chloritic sediments. Bedding is highlighted by moderate to strong, selective carbonatization of laminations with weak to moderate subsequent silicification. Highly carbonatized zones take on a pale purple-grey hue with seams of intermediate to high silicification taking on a dark purple-grey of buff colour, minor silica dumping is locally noted.	8453	1-2	187.77	188.70	0.93			.005		
			8454	1-2	188.70	189.61	0.91			.01		
			8455	1-2	189.61	190.52	0.91			.005		
			8456	1-2	190.52	191.43	0.91			.005		
			8457	0-1	191.43	192.30	0.93			.005		
			8458	0-1	192.30	193.30	1.00			.005		
		Bedding/laminations: 60° to core axis at 187.15 m.										
189.61	206.67	SEDIMENTS										
		Dark green, fine grained and weakly chloritic with 30-50% pale grey to dark purple-grey, intensely carbonatized laminations and 0.1 to 2cm thick seams of carbonatization parallel to laminations. Bedding is highlighted by this selective carbonatization. The rock is strongly brecciated locally in sections ranging from 5mm to 5cm thick. These brecciated zones are generally strongly carbonatized and weakly silicified. Minor slippage seams (faults) are noted at 192.17-192.18 meters at 55° to the core axis and 194.40 to 194.41 meters at 55° to the core axis. Pyrite values are generally 0-1% as fine disseminations.											
		189.61-192.30: 30-50% carbonatized laminations and seams with bedding at 55-65° to the core axis at 191.95 meters.										
		192.30-193.35: 5-10% carbonatized laminations.										
		193.35-197.78: 50-75% carbonatized with up to 5% pyrite localized in carbonatized seams and weakly to moderately silicified zones.	8459	0-1	193.30	194.24	0.94			.005		
			8460	0-1	194.24	195.20	0.96			.005		
			8461	0-1	195.20	196.14	0.94			.005		
		Bedding: 70-80° to core axis at 197.65 meters.	8462	0-1	196.14	197.13	0.99			.005		
		197.78-198.45: increasingly brecciated with increasing carbonatization (70-80%) with increasing magnetism downhole. Bedding is well exhibited locally as pale grey, carbonatized laminations cutting dark green, very fine grained to aphanitic chloritic groundmass. Bedding angles to the core axis are highly variable, possibly indicating soft sediment	8463	0-1	197.13	197.78	0.65			.005		
			8464	1-2	197.78	198.45	0.67			.02		
			8465	0-1	198.45	199.02	0.57			.01		
			8466	0-1	199.02	199.62	0.60			.005		
			8467	0-1	199.62	200.36	0.74			.01		
			8468	1	200.36	201.20	0.84			.045		

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-96 SHEET NO. 6 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		deformation. A minor chloritic grit and clay seam at 40° to the core axis is noted at 198.07-198.08 meters. There is no particular change in alteration across the fault. A zone of intermediate brecciation and weak silicification, carrying 8-10% very finely disseminated pyrite, is noted between 197.80-198.03 meters.										
198.45	204.52	LOWER MINERALIZED ZONE Dark grey to purple-grey, often reddish hued, aphanitic to very fine grained, moderately to strongly brecciated and silicified. Well laminated with carbonatized and weakly silicified laminations separated by dark green, very fine grained, massive and highly magnetic groundmass. Abundant reddish hematite alteration is noted throughout and generally the hematized zones are less strongly magnetic. Generally 0-1% finely disseminated pyrite. 198.45-201.20: dark grey to purple-grey with abundant reddish, brecciated and silicified zones and patches. Dominantly hematized between 200.36-201.20 meters. Minor quartz feldspar stringers up to 2cm thick in a zone between 199.62 and 203.36 meters, carrying 1% chalcopyrite. Bedding ranges from 45-55° to core axis in this zone.										
		201.20-204.52: dark purple-grey with 80% grey to pale purple-grey intermediately carbonatized and very weakly silicified laminations and seams up to 3cm in thickness along the bedding. The remainder of the rock is green, strongly chloritic and moderately to strongly magnetic. The bedding has been subjected to soft sediments deformation, with much isoclinal folding, 's' folding and microfaulting. Generally non-deformed bedding is noted at 60-70° to the core axis. The lower contact of this zone is very sharp at 58° to the core axis.	8469	0-1	201.20	202.10	0.90			.02		
			8470	0-1	202.10	203.04	0.94			.03		
			8471	0-1	203.04	203.94	0.90			.02		
			8472	0-1	203.94	204.46	0.52			.02		

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-96 SHEET NO. 7 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
204.52	206.67	SEDIMENTS Dark green, chloritic, well laminated at 60° to the core axis, fine grained becoming more massive and slightly coarser grained below 206.30 meters. Non-magnetic with 0-1% disseminated pyrite.	8473 8474	0-1 0-1	204.46 205.24	205.24 206.23	0.78 0.99			.005 Trace		
206.67	228.84	BASALT Dark green, weakly chloritic, fine to very fine grained, massive flows cut by numerous magnetic dioritic intrusives. 206.67-208.70: fine to very fine grained massive flow with a very fine grained to aphanitic, weakly epidotized, 10cm thick flowtop zone. 208.70-216.30: fine grained, non-magnetic massive flow. 216.30-216.80: fine to very fine grained basal flow with abundant reddish silicified clasts. 216.80-220.00: diorite - dark green, becoming reddish green down section and moderately to strongly magnetic. Below 218.52 meters, the rock acquires a weakly foliated texture with black elongated mafic minerals up to 3mm long. Below 220.00 meters, the reddish hue disappears. 220.00-222.55: fine to very fine grained massive flow, weakly magnetic towards the intrusive. 222.55-222.83: diorite - similar to 216.80-220.00 meters, non-magnetic. 222.83-227.47: fine to very fine grained massive flow. 227.47-227.92: diorite - non-magnetic, similar to 222.55-228.83 meters. 227.92-228.84: fine to very fine grained massive flow with leucoxenitic overgrowths up to 1.5mm in diameter. A diorite intrusive encroaches part-way into the core at 228.23-228.41 meters. 228.84 METERS - END OF HOLE											

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-98 LENGTH 127.77 meters

LOCATION

LATITUDE 10 + 50 W DEPARTURE 0 + 60 S

ELEVATION AZIMUTH 344° DIP -45°

STARTED September 28, 1984 FINISHED October 1, 1984

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
47.85	-39°				
91.46	-39°				
127.77	-38.5°				

HOLE NO. Mc-84-98 SHEET NO. 1 OF 4

REMARKS BQ CORE

LOGGED BY A.W. Workman

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	32.00	OVERBURDEN										
32.00	103.03	BASALT										

Fine grained to aphanitic, pale grey-green to dark green, massive flows. Moderately silicified to intensely silicified where highly brecciated. Strongly epidotized and silicified flow-tops and flowtop breccia. Non-magnetic, locally hematized, generally 0-1% disseminated pyrite.

32.00 - 35.50: fine to medium grained, massive flow, moderately silicified.

35.50 - 55.05: fine to very fine grained, moderately to strongly brecciated. Locally strongly silicified. Some epidotized and silicified seams resemble pillow selvages. Strongly fractured suggesting fault movement nearby. Culminates in green clay and grit filled fault zones at 53.13-53.27, 53.40-53.44 and 53.67-53.70 meters. Displacement at approximately 50° to core axis. Abundant quartz veining (50-75%) in fault zone at 53.44-53.95 and 54.77-55.05 meters - predates displacement.

55.05 - 59.35: fine grained, massive flow, locally medium grained.

59.35 - 59.60: strongly epidotized and silicified flowtop.

59.60 - 60.00: less epidotized and silicified flow, massive.

60.00 - 61.28: angular flowtop breccia, highly angular fragments up to 2cm dia.

61.28 - 67.10: weakly to moderately brecciated, pillowed flow, minor flow breccia. Pillow rims are poorly exhibited. Frequently strongly epidotized along fragments and selvages.

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-98 SHEET NO. 2 OF 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
		67.10 - 72.35: dark green, moderately brecciated, massive flow becoming highly brecciated with very angular fragments between 68.60-69.69 meters. This is possibly a zone of welded pyroclastic. Grades into a brecciated flow below.										
		72.35 - 72.47: strongly hematized and strongly silicified pyroclastic with angular fragments up to 1.5mm dia. Laminated at 45-50° to the core axis.										
		72.47 - 72.65: aphanitic, silicified flowtop.										
		72.65 - 78.12: fine to very fine grained massive flow, moderately fractured with carbonate filling.										
		78.12 - 78.40: interflow sediments - foliated at 60-65° to core axis.										
		78.40 - 80.22: very fine grained to aphanitic, weakly brecciated and moderately silicified flowtop, locally moderately epidotized.										
		80.22 - 94.70: fine grained massive flow with hematitic fractures near a minor fault zone at 80.72-80.78 meters and 82.82-82.88 meters. Medium grained between 85.70 and 86.80 meters.										
		94.70 - 96.65: fine to very fine grained, massive flow.										
		96.65 - 96.88: aphanitic basal flow, weakly foliated.										
		96.88: flow contact.										
		96.88 - 97.63: epidotized flowtop breccia.										
		97.63 - 99.95: variably brecciated, fine to very fine grained flow.										
		99.95 -101.20: foliated basal flow.										
101.20	103.03	SEDIMENTS										
		Dark green to grey-green, very fine grained, weakly to highly foliated and locally laminated. Greyish colouration due to moderate to strong carbonatization. Elsewhere, carbonate is weak to moderate but strong along selectively replaced laminations and brecciated laminations. Carbonatization is particularly strong from 101.91 to 102.72 meters. Minor weak magnetism is noted locally where rock is most strongly carbonatized. The degree of hematization is very weak and localized. Up to 1% pyrite is noted as blebs up to 0.5mm. Bedding: 70° to core axis at 102.75 meters.	8475	0-1	101.20	101.91	0.71			Trace		
			8476	0-1	101.91	102.65	0.74			Trace		
			8478	0-1	102.65	103.03	0.38			Trace		

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-98 SHEET NO. 3 OF 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
103.03	112.25	TRANSITIONAL SILICIFIED SEDIMENTS Dark green to grey, locally with a purple colouration and very fine grained to aphanitic. Grey colouration due to carbonatization, purple due to hematization. Rock is moderately to strongly silicified locally with abundant silica dumping in voids and breccia often resembling quartz veining (e.g. 105.26-105.50 meters). Rock is generally weakly brecciated, locally strongly brecciated. Breccia is weakly cemented hence the core is badly broken. A narrow ground section at 105.20-105.26 meters may represent a minor fault. The degree of silicification increases to 50% below this point with increased silica dumping noted. Amount of silicification decreases below 109.20 meters to less than 20% in response to decreased brecciation. Relic bedding lamination / foliation is recognizable below this point with minor contortion and soft sediment deformation. Non-magnetic, 0-1% disseminated pyrite.	8479	0-1	103.03	103.84	0.81			Trace	
			8480	0-1	103.84	104.80	0.96			Trace	
			8481	0-1	104.80	105.77	0.97			Trace	
			8482	0-1	105.77	106.73	0.96			Trace	
			8483	0-1	106.73	107.64	0.91			.04	
			8484	0-1	107.64	108.56	0.92			.01	
			8485	0-1	108.56	109.52	0.96			Trace	
			8486	0-1	109.52	110.44	0.92			Trace	
			8487	0-1	110.44	111.36	0.92			.01	
			8488	0-1	111.36	112.25	0.89			.01	
			8489	0-1	112.25	113.16	0.91			Trace	
			8490	0-1	113.16	113.98	0.82			Trace	
			8491	0-1	113.98	114.71	0.73			Trace	
112.25	114.71	SEDIMENTS Dark green, fine to very fine grained with poorly developed bedding but localized, minor laminations noted (e.g. 45-50° at 113.80 m). Well developed partings noted parallel to selectively carbonatized laminations and breccia seams. Abundant carbonate lined vugs locally with associated specular hematite. Vugs carry abundant 1mm pyrite cubes. Rock is non-magnetic and moderately chloritic throughout.									
114.71	127.77	BASALT Medium to dark green, very fine grained pillowed flow with aphanitic and rare fine grained phases. The flowtop is characterized by minor brecciation and weak epidotization/silicification. Selvages are well exhibited as strongly epidotized and chloritic zones up to									

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-98 SHEET NO. 4 OF 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		3cm wide. A 2cm seam of fault gouge at 90° to the core axis marks a minor fault at 116.60 meters. Rock is non-magnetic with 0-1% disseminated pyrite.										
		127.77 METERS - END OF HOLE										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 LENGTH 184.91 Meters

LOCATION

LATITUDE 10 + 50 W DEPARTURE 1 + 00 S

ELEVATION AZIMUTH 344° DIP -55°

STARTED October 2, 1984 FINISHED October 9, 1984

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-55°		185.06	-48.0°	
45.72	-50.5°				
91.44	-47.5°				
137.19	-48.0°				

HOLE NO. Mc-84-102 SHEET NO. 1 OF 7

REMARKS

D.S. Riddell

LOGGED BY D.S. Riddell

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	27.43	OVERBURDEN									
27.43	165.43	BASALT Green to locally pale yellow-green where highly epidotized, fine grained to aphanitic, massive to pillowed, porphyritic and flow brecciated flows. Epdote and carbonate commonly associated with brecciation and fracturing. Hematite coated fracture surfaces noted. 0-1% disseminated euhedral pyrite generally with concentrations up to 5% associated with carbonate fracture/brecciated zones. Locally strongly magnetic (e.g. above 39.50 meters locally magnetic, becoming strongly magnetic below 39.50 meters approximately). 24.73 - 38.71: highly fractured, broken core, few intact sections longer than 20cm. 1.0 meter ground core missing at 37.70-38.71 meters approximately. The core is brecciated, fractured and epidotized, locally weakly magnetic. Locally vuggy carbonate void filling with 5% pyrite and all fracture surfaces and ground surfaces are limonite/hematite coated. 38.71 - 40.00: grey to green, fine grained, becoming aphanitic below 39.00 meters, pervasively carbonate altered, carbonate veined flowtop breccia. Possible minor interflow sediments noted at 38.71-39.00 meters approximately. 2-3% euhedral pyrite. Becomes strongly uniformly magnetic below 39.55 meters. 40.00 - 60.05: dark green, aphanitic becoming fine grained below 44.00 meters - massive flow. Minor epidote micro-fractures with white carbonate veining; strongly magnetic; 0-1% pyrite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 SHEET NO. 2 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
		A sudden decrease in magnetism over approximately 20cm of core leaves the rock non-magnetic below 45.40 meters.										
		60.05 - 60.16: epidotized and silicified flow contact.										
		60.16 - 61.15: chloritized flowtop breccia comprised of rounded to angular, moderately silicified fragments up to 3cm in diameter. Epidotized with epidote filled fractures.										
		61.15 - 61.50: a pillowed zone with three well preserved selvages noted.										
		61.50 - 64.35: flow breccia with rounded to angular, variably silicified fragments up to 3cm in diameter. The fragments show thin reaction rims. Brecciation decreases down section becoming a brecciated massive flow below 62.80 meters.										
		64.35 - 74.10: dark green to grey, very fine grained to aphanitic, massive flow. Minor mottling due to moderate to strong silicification noted. Non-magnetic with 0-1% pyrite.										
		74.10 - 95.05: green, fine to medium grained massive flows. The upper 90cm to 1 meter of this flow are intensely silicified and become moderately silicified below 75.00 meters approximately. An epidotized shear is noted at 74.50 meters. Abundant epidote and silica altered shears with localized patchy epidotization and 1-2cm thick quartz veins are noted throughout. Weakly to moderately, locally strongly magnetic with 0-1% pyrite. A strongly magnetic section of core associated with medium to coarse grained flow is noted at 80.60-82.20 meters. The flow becomes fine grained and non-magnetic below 82.20 meters. Between 82.20 and 87.00 meters the flows alternate on approximately a meter scale from medium to coarse grained zones with finer grained margins and patches. Concentrations of white feldspar crystals and laths are noted in the centres of the coarser patches. No flow contacts or evidence of flow foliation or shearing are noted										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 SHEET NO. 3 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
		within this zone. Below 87.00 meters, the flows become uniformly fine grained, massive and non-magnetic. The flow becomes yellow-green due to increasing epidotization and minor fracturing below 91.55 meters.										
		95.05 - 95.65: pale yellow to green, highly epidotized and silicified interflow breccia. The fragments are indistinguishable from the matrix due to the intensity of alteration.										
		95.65 -107.28: dark green, fine grained, locally medium grained, massive flows. Relatively unaltered with moderate epidote and silca alteration associated with minor shearing/veining. Non-magnetic with 0-1% pyrite. A thin zone, between 99.67 and 105.58 meters, is grey hued, fractured and carbonate veined and pervasively carbonatized. The flows fine below 106.00 meters, becoming an aphanitic flow bottom below 107.10 meters.										
		107.28-115.92: brecciated flow to flow breccia. Green to pale green, very fine grained to aphanitic fragments in a darker chlorite/silica matrix. The matrix and the fragments are locally highly silicified. The fragments are 0.5 to 4.0cm in diameter and are sub-angular to sub-rounded, locally showing stretching and deformation. This zone is cut by numerous silica and epidote filled fractures and cut by numerous quartz-carbonate veins 1-5cm wide with strongly epidotized and silicified margins.										
		115.92-121.56: dark green, fine to very fine grained massive flow. Highly silicified with minor silica/epidote veining. It is in sharp contact with the overlying breccia along a 3cm wide quartz-epidote vein cutting the core axis at 55-60°. Minor flow bottom breccia is noted between 120.47 and 121.56 meters.										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 SHEET NO. 4 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPH. IDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		121.56: sharp contact with the underlying flows at 70-75° to core axis.										
		121.56-124.68: dark green, fine grained, highly silicified massive flow.										
		124.68-124.80: 12cm thick white quartz-carbonate vein at 30° to core axis.										
		124.80-128.15: brecciated flow to flow breccia as described in 107.28-115.92 meters. Locally non-brecciated patches are noted. A zone of fragmented, broken and ground core with strong carbonate brecciation and veining is noted at 127.55-128.15 meters.										
		128.15: the brecciated flows are terminated by a clay and chlorite filled slip plane at 40-45° to core axis.										
		128.15-142.49: fine grained, green to yellow-green where epidotized, massive flow. Numerous epidote and silica filled fractures and veins, locally highly epidotized and silicified where brecciated. Non-magnetic with 0-1% disseminated pyrite. Below 135.40 meters, the flows grade into medium grained flows. A decrease in epidotization and epidote/silica veining is noted. Below 140.35 meters, the flows fine again becoming aphanitic below 142.40 meters. This zone is moderately to highly silicified basal flow.										
		142.49-145.50: brecciated flow to flow breccia as decribed at 107.28-115.92 meters and 124.80-128.15 meters. Highly silicified, locally highly epidotized.										
		145.50-153.31: brecciated glomeroporphyritic flow. Clumps of altered (epidotized and silicified) euhedral feldspar phenocrysts are noted throughout (e.g. 151.55 to 151.75 meters). The feldspar phenocrysts are generally 0.5-2.0cm in diameter. Locally the flows are brecciated and silicified. Olive green, fine grained sediments with biotite (0.5cm books) and feldspar fragments throughout are noted at 146.93 to 147.75 and 148.24-148.64 meters. These sediments are pervasively carbonate altered with 5% finely										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 SHEET NO. 5 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
		disseminated pyrite and rounded crystalline pyrite aggregets. The sediments are in sharp contact generally at 50-70° to the core axis. A white quartz-carbonate vein at 30° to the core axis is noted at 147.75-147.92 meters. Below 152.00 meters, the brecciation with associated silicification and epidotization increases down section.										
		153.31-153.75: highly brecciated and carbonatized, fine grained basalt fragments in a carbonate cement with gritty clay slips throughout. The core is locally broken and highly ground. Two green, carbonate, clay/grit seams at 153.31-153.34 meters and 153.58-153.62 meters cut the core axis at 55-65°. Numerous thinner, similar seams are noted throughout the core. This zone is thought to represent a fault zone and may represent the McKenna Fault trace.										
		153.75-165.43: brecciated flow to flow breccia. Green, very fine grained to aphanitic, highly carbonate brecciated and veined to locally pervasively carbonate altered where strongly brecciated. Locally moderately silicified, epidotized, and hematized. Locally poorly foliated and sheared with some contortion of foliation seams. Non-magnetic with 0-1% disseminated pyrite. A zone of highly epidotized and silicified breccia or flowtop breccia is noted at 156.15-156.77 meters. Foliated basal flow in sharp contact with the underlying sediments at 50-60° to core axis is noted at 164.85-165.43 meters.										
165.43	171.94	TRANSITIONAL SILICIFIED SEDIMENTS Grey to dark grey or black, fine grained, highly carbonate veined and brecciated with pervasive carbonate alteration. Thin, (1-2mm) hematized beds with characteristic red-brown streak, are noted.										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 SHEET NO. 6 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		Generally 10-30% patchy silicification with 1-3% disseminated pyrite. Locally well bedded/laminated, often partially or completely obscured by intense brecciation. Contortion and deformation of the bedding is common, possibly soft sediment deformation with cross-bedding and slumping noted. Pink carbonate veining and lensitic replacement along the bedding planes by carbonate is noted. Minor patchy, partial silicification is associated with fine brecciation along thin beds. Pervasively carbonate altered, even where partially silicified. Pyrite concentrations up to 3-5% are associated with finely brecciated and silicified beds.	8849	0-1	165.42	166.39	0.97			Trace	
			8850	1-2	166.39	167.23	0.84			Trace	
			8851	2	167.23	167.88	0.65			Trace	
			8852	2	167.88	168.21	0.33			.03	
			8853	0-1	168.21	168.83	0.62			.03	
			8854	0-1	168.83	169.70	0.87			.02	
			8855	0-1	169.70	170.66	0.96			.01	
			8856	0-1	170.66	171.50	0.84			.01	
			8857	5-7	171.50	171.94	0.44			Trace	
		Bedding: 165.85 meters at 65-70° to core axis 169.60 meters at 70-75° to core axis 171.45 meters at 65-70° to core axis									
		168.21-171.41: strongly magnetic with a grey-black colour. Contortion of bedding or soft sediment deformation is noted from 168.65-169.05 meters.									
		171.50-171.94: highly brecciated and silicified, Main Silicified Zone-type alteration. Yellow-brown coloured to sericite and very finely disseminated pyrite. 5-7% very finely disseminated pyrite is noted. In sharp contact with the lower unaltered sediments at 50° to the core axis.									
171.94	173.00	SEDIMENTS									
		Green, fine to very fine grained, well bedded and thinly laminated sediments. Up to 30% of the beds are replaced by white carbonate. Non-magnetic with 0-1% pyrite, bedded at approximately 50° to the core axis.	8858	0-1	171.94	173.00	1.06			Trace	
173.00	184.91	BASALT									
		Green, fine to very fine grained, locally flow foliated and brecciated massive flow. Becomes a pillowed flow below 177.45 meters approximately. Non-magnetic with 0-1% finely disseminated pyrite.	8859	0-1	173.00	173.80	0.80			Trace	

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-102 SHEET NO. 7 OF 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		173.00-177.10: flow foliated, carbonate fractured and brecciated massive basalt. Locally broken core. 177.10-177.45: flow breccia or flowtop breccia. Thinly laminated and foliated sheared volcanics, foliated at 55-60° to core axis. 177.45-180.45: pillowed flow with brecciated pillow cores and contorted pillow selvages. Becomes an epidotized, carbonatized flow bottom breccia between 180.30 to 180.45 meters. 180.45-184.91: massive, locally foliated flow. Foliation at 181.60 meters is at 60° to the core axis. There may be some poorly preserved pillow selvages below 184.13 meters. A zone of olive green, fine to medium grained,massive sediments is noted at 181.86-182.67 meters, these sediments are pervasively carbonate altered, non-magnetic with 0-1% pyrite and may be tuffaceous. The upper contact is at 70° to core axis; the lower contact at 20-25° to core axis. A zone of thinly laminatied, chloritic and epidotic, sheared volcanics is noted at 182.90-183.13 meters. The foliation/lamination is at 60-80° to the core axis. This may represent a flowtop. 184.91 METERS - END OF HOLE										

DIAMOND DRILL RECORD

NAME OF PROPERTY: LENORA
HOLE NO.: Mc 84-103 LENGTH: 221.59 meters
LOCATION:
LATITUDE: 10 + 96 W DEPARTURE: 0 + 86 S
ELEVATION: AZIMUTH: 344° DIP: -60°
STARTED: October 10, 1984 FINISHED: October 13, 1984

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60°		182.88	-56°	
45.72	-58.5°		221.59	-55.5°	
91.44	-58°				
137.16	-56.5°				

HOLE NO. Mc-84-103 SHEET NO. 1 OF 9
REMARKS D.S. Riddell
J.A. Workman
LOGGED BY: D.S. Riddell
A.W. Workman

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	3.05	OVERBURDEN									
3.05	167.85	BASALT									

The basalts are predominantly medium grained, ranging to aphanitic massive flows. The massive flows show locally brecciated zones and generally highly brecciated and silicified, epidotized flowtops and flow bottoms. Flow brecciated basalts and brecciated flows become predominant in the lower parts of this unit. The flows are locally weakly to strongly magnetic, but in general the basalt package is non-magnetic. Carbonate veining and fracture filling is common throughout the basalts, generally pyrite values are 0-1%.

3.05 - 20.46: green to dark green, aphanitic, gradationally becoming fine grained (below 14.00 meters) down section; massive flows. The upper 11.25 meters of this zone are highly fractured, broken, locally ground. The flows are variably moderately to strongly magnetic throughout. Locally interstitial hematite gives the core a distinctive red colour, in these zones, the magnetism drops-off significantly (e.g. 15.90-18.80 meters approximately). 1% pyrite is seen as fine disseminations and crystaline aggregates.

20.46 - 20.53: grey, fine grained, carbonatized and epidotized interflow sediments. 5% pyrite, bedded at 70-80° to core axis.

20.53 - 41.35: green to dark green, fine grained to aphanitic massive flow. Minor silica, epidote filled fractures and hematite coated fracture surfaces throughout. Patchy silicification associated with microveining and fracturing, locally intensely silicified. Non-magnetic with 0-1% finely disseminated pyrite. The

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 2 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		upper 10-12cm of this zone are flowtop brecciated and foliated. A zone of broken and fractured core with heavily hematized fracture surfaces is noted at 29.50-29.63 meters.										
		41.35 - 41.60: epidotized flowtop breccia.										
		41.60 - 65.42: fine grained grading to medium grained down section, massive, epidotized flow. Patchy fine to medium grained variations are noted throughout. Minor quartz carbonate and quartz epidote veining noted throughout with patchy intense silicification. Below 61.50 meters approximately, the flows grade from medium grained to fine grained flow bottom. An increase in epidote/silica veining and shearing has strongly silicified the rock, giving it a grey hue.										
		65.42 - 65.45: a quartz carbonate epidote vein marks the base of the flow, it is oriented at 70° to core axis.										
		65.45 - 66.14: grey, fine grained interflow sediments and brecciated and carbonatized volcanics. Pervasively carbonate altered with 3-5% fine grained pyrite. The bedding/foliation is at 50° to the core axis approximately. This zone is locally strongly magnetic.										
		66.14 - 69.27: green, fine grained massive flow. This flow is epidote silica veined and epidotized becoming more strongly veined and fractured with associated epidote and silica alteration below 68.50 meters approximately. The flow becomes highly brecciated and silicified below 69.10 meters.										
		69.27 - 70.30: grey coloured, highly brecciated and altered volcanics. This appears to be a cataclastic zone around a 10cm thick, green clay and grit seam between 70.10-70.20 meters. This seam cuts the core at 40-45° to the core axis. The grey hue of the core is attributed to silicification and pervasive intense carbonatization. The rock is highly friable, broken and locally ground. Zone is cut by quartz										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 3 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		stringers and numerous white carbonate filled fractures. Strongly magnetic with 1-3% pyrite. Zone may represent a fault contact with the underlying flows.										
		70.30 - 83.02: green to dark green, very fine grained to aphanitic, grading to medium grained down section; massive basalt. The core is cut by numerous silica/epidote veins and shows local patchy epidotization and silicification. Non-magnetic with 0-1% very finely disseminated pyrite. The upper half meter of this flow is broken and fractured. Below 80.50 meters approximately, the flow coarsens to fine to medium fine grained and there is increased epidotization. Between 82.09-82.64 is a zone of quartz/magnetite veining dominated by a white quartz vein at 82.40 to 82.57 meters at 40-50° to the core axis. The basalts in this zone are brecciated, epidotized/silicified/carbonatized and highly magnetic due to growth of subhedral masses of black magnetite. 1-2% finely disseminated pyrite is noted.										
		83.02 - 83.75: grey to green, fine grained interflow sediments. Massive to poorly bedded, magnetic and pervasively carbonate altered. The sediments are bedded at approximately 75-85° to the core axis. The upper contact of this zone is at 80° to the core axis; the lower contact is at 85° to the core axis.										
		83.75 -112.14: dark green, variably fine to medium to coarse grained, massive flow. Grain size appears to vary in a patchy, random fashion. Variably non-magnetic to strongly magnetic, moderately to strongly silicified and locally moderately epidotized. Minor carbonate veining and 0-1% disseminated pyrite. Below 89.73 meters, the flow becomes uniformly fine grained and non-magnetic, speckled with leucoxene overgrowth. An olive green, fine grained, carbonatized intrusive (possibly syenitic or dioritic)										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 4 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		is noted at 103.15-103.41 meters. Indistinct epidotized relic feldspar crystals are noted. Upper contact is at 70° to core axis; lower contact is at 40° to core axis. Two white, predominantly carbonate with minor quartz veins and included volcanic fragments are noted at 107.90-108.15 meters and 108.31-108.47 meters. These veins cut the core at 40-50°. Flow bottom breccia and minor interflow sediments are noted from 112.03-112.04 meters.										
		112.14-112.20: well foliated and laminated, highly carbonatized interflow sediments to sheared basalt. Foliated and laminated at 55-60° to the core axis. Hematitic with 2-3% pyrite.										
		112.20-112.80: massive fine grained, non-magnetic basalt.										
		112.80-113.10: highly epidotized flow breccia to flow bottom breccia.										
		113.10-135.53: brecciated basalt to flow brecciated basalt. Dark green, aphanitic, highly silicified, fragment supported brecciated flow with sub-rounded fragments up to 5cm in diameter with well developed (0.5cm) dark green reaction rims. Matrix is predominantly epidote and silica, locally with minor carbonate and 2-3% pyrite. The breccia is cut by late stage epidote/silica veins and hematitic fractures. Two olive green to brown, fine grained, pervasively carbonatized intrusives, (possibly syenitic) are noted at 114.16-114.32 meters and 119.86-120.92 meters. The upper intrusive is at 40° to the core axis; the lower at 25-30° to the core axis. These intrusives are carbonate fractured, hematized and epidotized with 3-5% finely disseminated pyrite. A massive, very fine grained, non-brecciated flow, moderately silicified, is noted at 121.75-124.03 meters. From 133.82-134.42 meters, the core is highly carbonatized, carbonate veined, fractured and brecciated. The preferred direction of carbonate filled fractures is at approximately 40° to the core axis. This zone is non-silicified with up to 10% pyrite associated with highly carbonatized zones.										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 5 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		The zone becomes aphanitic, massive and non-brecciated from 134.42-135.30 meters. 135.30 to 135.53, sees a return to brecciated flow or flow bottom breccia.										
		135.53-167.85: dark green, fine grained, becoming medium grained below 140.50 meters, massive flow. Minor silica/epidote veining and fracturing with related localized moderate silicification. Carbonate fractured and locally carbonate brecciated. Minor leucoxene speckling, non-magnetic, 0-1% suhedral pyrite. The upper 30cm of the zone are flowtop brecciated. Below 143.00 meters, an increase in silica veining and silicification is noted. Below 147.75 meters, the rock becomes increasingly fractured, carbonate veined, fragmented and broken core. A zone of brecciated, carbonate veined, and pervasively carbonate altered core is noted at 149.35-152.10 meters. Numerous poorly formed foliated chlorite slips and hematized fracture surfaces boarder a fault zone from 149.55-159.72 meters. Several sub-parallel, green clay/grit seams at 25-30° to the core axis, are noted within this zone. Broken, ground core, coated with green clay and fine grit is noted at 149.55-150.40 meters and 151.05-151.20 meters. These zones are interpreted to represent faults. Below 155.10 meters, the flows become porphyritic to glomeroporphyritic with subhedral to euhedral phenocrysts of plagioclase up to 1cm in diameter. Below 157.70 meters, phenocrysts are no longer noted and the flows become fine grained to aphanitic, becoming brecciated below 159.10 meters.										
		159.10-167.85: brecciated to flow brecciated basalt. Dark green with pale yellow-green epidotized and silicified zones, aphanitic, highly brecciated basalt. Sub-rounded to sub-angular, highly silicified volcanic fragments are supported in a predominantly epidote silica matrix with minor orange-brown carbonate										

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 6 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		(ankerite or siderite?) and 2-3% pyrite. Relic plagioclase phenocrysts are noted within some breccia fragments. Zones, less than 10cm thick, of carbonate brecciation with angular volcanic fragments in a white grey carbonate matrix are noted. At 167.85 meters, a sharp contact between the above brecciated porphyritic flows and the underlying pyroclastic/volcaniclastic sediments is noted at 15-25° to core axis.									
167.85	168.79	SEDIMENTS									
		From 167.85-168.30 meters this unit is a coarse lapilli tuff to agglomerate with sub-rounded to sub-angular clasts up to 3-4cm in diameter in a silica/chlorite matrix. From 168.30-168.75 meters, the sediments change to a fine ash tuff, to volcaniclastic sediment. These sediments are green, fine grained, highly carbonate altered, moderately to locally intensely silicified where fractured, and poorly bedded. Trace sericite and minor hematite are noted along brecciated, silicified zones. Bedding at 168.50 meters is at 40-45° to core axis. A 4cm thick, clay and green volcanic grit seam at 45-50° to the core axis, is noted at 168.75-168.79 meters. This fault plane divides the sediments from a thin wedge of volcanics below.	8666	1	167.90	168.79	0.89			Trace	
168.79	169.55	BASALT									
		Green, very fine grained, microfractured, carbonatized and epidotized, non-magnetic flow with 0-1% pyrite.	8667	0-1	168.79	169.55	0.76			Trace	
169.55	171.25	SEDIMENTS									
		Green, fine grained, well bedded/foliated, thinly laminated, chloritic sediments. Highly carbonatized, minor epidotization, non-magnetic with 0-1% disseminated pyrite. Indistinct upper and lower contacts with brecciated volcanics are noted. Bedding/foliation is approximately 25-30° to core axis.	8668	0-1	169.55	170.35	0.70			Trace	
			8669	0-1	170.35	171.27	0.92			Trace	

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 7 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
171.25	187.91	BASALT Green to locally pale green where highly epidotized and silicified, very fine grained to aphanitic, highly brecciated and altered massive flow. Pervasively carbonatized and locally highly silicified/epidotized/chloritized. Carbonate fills voids between angular fragments and coats microfractures. Locally the flow is poorly foliated along chloritic shears. Non-magnetic with trace hematite and 0-1% pyrite. Below 184.75 meters, the fragmental nature of the basalt becomes indistinct, the flow becomes a uniformly dark grey, highly fractured and carbonatized flow. Wispy to lensitic carbonate growths, similar to that noted in sediments, are seen. Possibly, this is a fine tuff of volcaniclastic sediment. 187.91: a sharp contact between the overlying volcanics and the underlying sediments is noted at 80-85° to the core axis. This point also represents a sharp change in magnetism, the sediments below being strongly magnetic.	8670	0-1	171.27	172.12	0.85			Trace	
			8671	0-1	172.12	173.11	0.99			Trace	
			8672	0-1	173.11	174.09	0.98			Trace	
			8673	0-1	174.09	175.10	1.01			Trace	
			8674	0-1	175.10	176.16	1.06			Trace	
			8675	0-1	176.16	177.17	1.01			Trace	
			8676	0-1	177.17	178.13	0.96			NIL	
			8677	0-1	178.13	178.99	0.86			NIL	
			8678	0-1	178.99	179.96	0.97			NIL	
			8679	0-1	179.96	180.97	1.01			Trace	
			8680	0-1	180.97	181.93	0.96			Trace	
			8681	0-1	181.93	183.06	1.13			Trace	
			8682	0-1	183.06	184.01	0.95			Trace	
			8683	0-1	184.01	184.75	0.74			Trace	
			8684	0-1	184.75	185.73	0.98			Trace	
			8685	0-1	185.73	186.73	1.00			Trace	
			8686	0-1	186.73	187.89	1.16			Trace	
187.91	190.40	SEDIMENTS Dark grey to grey-green, fine grained to very fine grained, well bedded and thinly laminated sediments. Strongly carbonatized as wispy carbonate growths penetrating laminations and bedding planes, as well as carbonate replacement of beds or groups of beds. Generally no silicification or silica replacement of carbonatized beds is noted, however, minor brecciation (e.g. 189.33-189.40 meters) of the sediment shows minor silicification and trace hematization. At 189.17 meters, contortion, or possibly soft sediment deformation of bedding, is noted. The sediments are moderately to strongly magnetic (uniformly so) with 0-1% pyrite. Bedding: 188.80 meters at 60° to core axis 190.75 meters at 50-55° to core axis	8687	0-1	187.89	188.65	0.76			.02	
			8688	0-1	188.65	189.48	0.83			.02	
			8689	0-1	189.48	190.40	0.92			.015	

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 8 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
190.40	197.38	TRANSITIONAL SILICIFIED SEDIMENTS									
		Dark green to grey-green, very fine grained, moderately chloritic with abundant (10%) grey to purple-grey, silicified and hematized laminations and breccia seams. The dominant alteration is carbonate of which 50% of the carbonatized seams and laminations are silica replaced. All silicified laminations are reactive to HCL. Localized increases in silicification are related to localized brecciation, and zones of silicified beds up to 30cm thick are noted locally. The rock is well laminated locally but the bedding is often distorted and deformed; possibly soft sediment deformation. Pyrite contents average 1-2% with 2-3% locally. Almost all of the pyrite is tied up as extremely fine disseminations associated with silicified seams and laminations. The zone from 196.30-197.38 meters is part of a well developed fault zone. This probably represents a major displacement. Abundant (5-7) gouge seams with grit and clay, are at roughly 45° to the core axis. The major plane of slippage is probably at 197.38-197.43 meters.	8690	0-1	190.40	191.09	0.69			.02	
			8978	0-1	191.09	191.89	0.80			.03	
			8979	1-2	191.89	192.86	0.97			.02	
			8980	1-2	192.86	193.73	0.87			.01	
			8981	1-2	193.73	194.55	0.82			.005	
			8982	1-2	194.55	195.47	0.92			.005	
			8983	1-2	195.47	196.30	0.83			.005	
			8984	1-2	196.30	197.38	1.08			.005	
197.38	197.43	FAULT PLANE									
		Characterized by 5-10cm zone of green grit and clay with some pyrite bearing fragments (1-2%).									
197.43	221.59	BASALT									
		Medium to dark green, fine to very fine grained, moderately brecciated pillowed flow. The uppermost section shows many slippage seams and much brecciation and is part of the overlying fault zone. Earlier brecciation, related to flow movement, is strongly silicified and epidotized. Some 10cm sections of incorporated inter-pillow sediments are strongly magnetic, whereas the pillows are non-magnetic. No pillow selvages are observed from 216.50-220.25 meters, although the flows remain very fine grained to aphanitic, strongly to intermediately silicified and epidotized.	8985	1-2	197.38	198.40	1.02			Trace	
			8986	0-1	198.40	199.55	1.15			Trace	

DIAMOND DRILL RECORD

NAME OF PROPERTY LENORA

HOLE NO. Mc-84-103 SHEET NO. 9 OF 9

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		220.25: flow contact at 40° to core axis. 220.25-220.50: aphanitic, intermediate silicified and epidotized flowtop. 220.50-220.93: variably silicified, angular breccia. 220.93-221.59: mixed angular breccia and flow breccia, possibly becoming pillowed. 221.59 METERS - END OF HOLE										

Ministry of Natural Resources
Ontario

Report of Work

Harker

(Pole L 633296)

32D12SW0074 39 HARKER

ate form for each
see table below).
no. 1362 "Report
, Geochemical and

#61

900

Name and Postal Address of Recorded Holder	No.
BARRICK RESOURCES CORPORATION	T 834
Suite 3001, Royal Bank Plaza, South Tower, Toronto, Ontario M5J 2J1	

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
2504.40									
for Performance of the following work. (Check one only)	L	633296	140	L	633306	140	L	522685	264.4
☐ Manual Work		633297	140		633308	140			
☐ Shaft Sinking Drifting or other Lateral Work.		633298	140		633309	140			
☐ Compressed Air, other Power driven or mechanical equip.		633299	140		633310	140			
☐ Power Stripping		633300	140		633311	140			
☒ Diamond or other Core drilling		633301	140		628520	140			
☐ Land Survey		633303	140		628533	140			
		633305	140		628534	140			

All the work was performed on Mining Claim(s): L 522685

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Philippon Diamond Drilling Inc.
C.P. 788
829 Boul. Quebec
Rouyn, Quebec
(819) 762-7731

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
MAR 12 1985
RECEIVED

RECORDED FEB 21 1985
REC. No.

Hole # 96 - Drilled from September 20 - 27, 1984
98 - September 28 - October 1, 1984
102 - October 2 - 9, 1984
103 - October 10 - 13, 1984

LARDER LAKE
MINING DIV.
RECEIVED
FEB 21 1985
AM PM
7 8 9 10 11 12 1 2 3 4 5 6

Date of Report	Recorded Holder or Agent (Signature)
Feb. 18/85	M E Holt

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

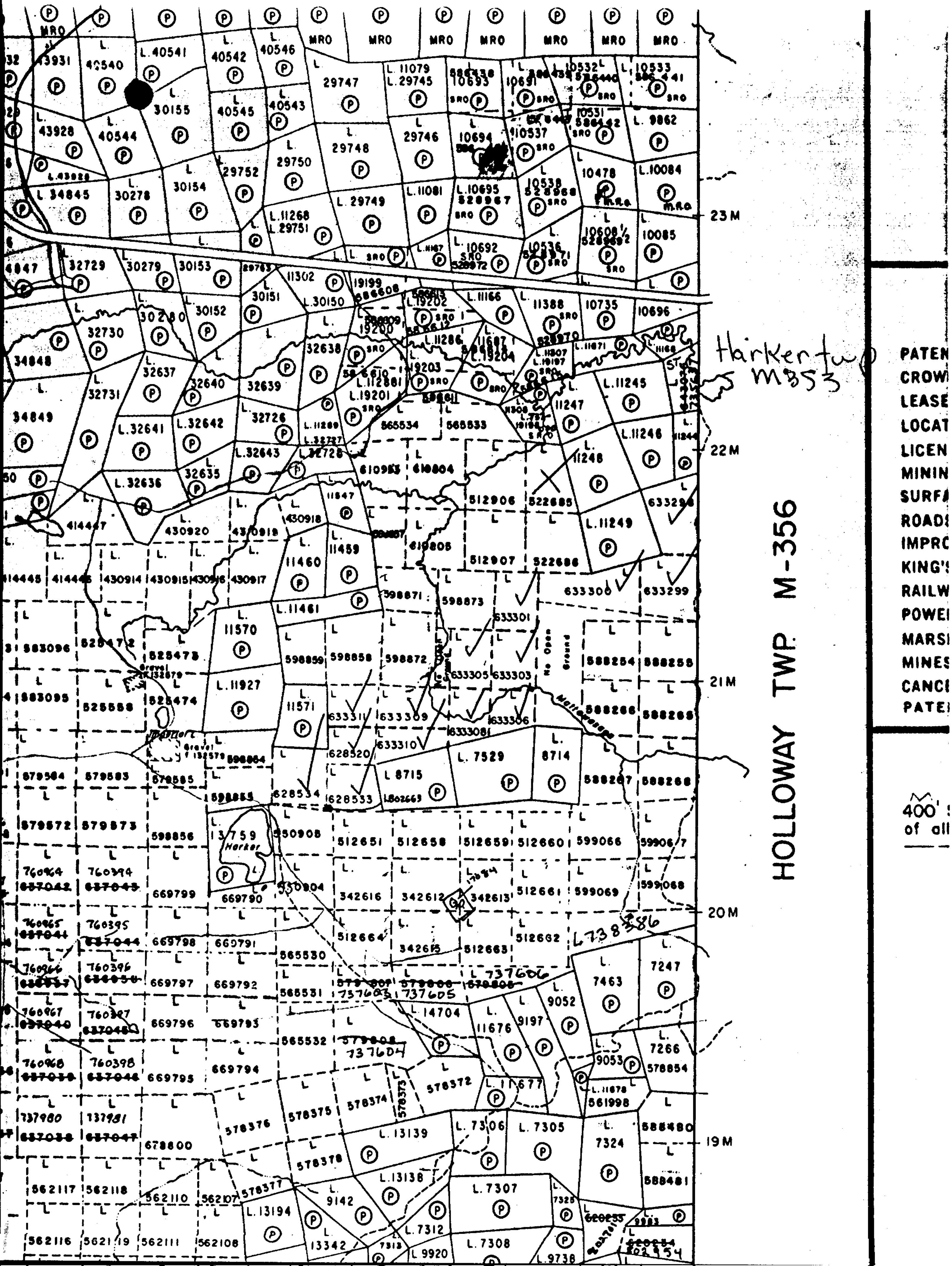
Name and Postal Address of Person Certifying
M.E. Holt, Barrick Resources Corporation, Suite 3001, Royal Bank Plaza, South Tower
Toronto, Ontario M5J 2J1

Date Certified	Certified by (Signature)
Feb. 18/85	M E Holt

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work	Nil		
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

768 (81/3)



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23 M
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19 M
Harker twp
M353
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Harker
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L 737606
737605
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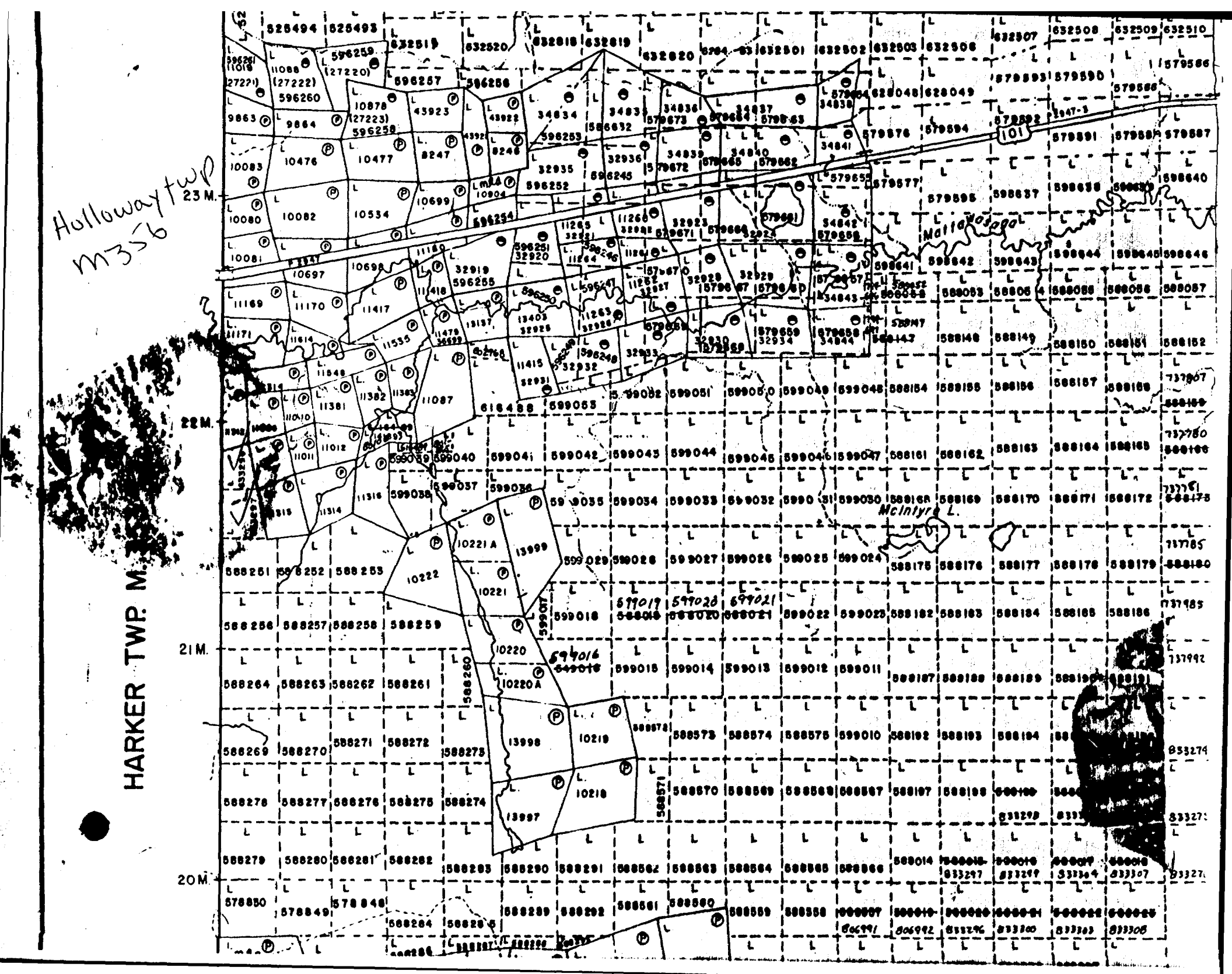
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HARKER TWP. M.
23 M.
22 M.
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McIntyre L.
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