

DIAMOND DRILLING

TOWNSHIP: WALKER

REPORT No.: 12

WORK PERFORMED BY: HOLLINGER ARGUS LIMITED

CLAIM NO.	HOLE NO.	Footage	DATE	Note
L 517100	1-79	526.0	0ct./79	(1)
L 522223	2-79	445.0	Oct./79	(1)
		971		

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Notes: (1) # 58-80

Cor	e Si	ze: BQ PROPERTY: W	ALKER #1 GF	ROUP									
Azi	muth	: 176° Township: W	alker Towns	ship						Con	mence	ed :	October 10, 1979
Ele	vatio	on: Surface Location of	Collar fro	om #	Pos	t of				Fir	nished	1:	October 13, 1979
Dip @): 200'(-55° @ collar; (60.9m)-50°; @ 400'(121.9m)-47°	1	N/S E/W						Cor	ntract	or:	Bradley Bros.
From	То	DESCRIPTION		From	То	Width	Au oz	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Description of Samp
0 ·	150'	Casing - predominantly fine sand.											
50	239.6	ANDESITE											
<u>-</u>		Light green to greenish white; V.F.G.	. chloritic		•								
		- carbonate-rich matrix with 15% to 20% c	of V.F.G. to			<u> </u>							
	ļ	F.G. (4.1 cm) feldspar grains and 2% qua	artz grains										
		- feldspars are slightly to moderately sa	aussuritized?										
		from 201 to 239.6 - possible dolomite-and	kerite from										
		233.1 to 239.6; V.F.G. to F.G. (4.1 cm) h	but V.F.G.										
		(~.1 cm) from 201 to 239.6 with evidence	of a sharp										LARDER CARE MINING DIV.
		contact at 201, 85° to C.A., to distingui	ish between										
		two different andesite flows.											APR - 9 1980
													AM PN
		Equigranular texture showing small section	on being										/ 18 19 10 11 11 21 11 21 5 14 15 1
		possibly amygdaloidal? (quartz-carbonate)), frequent										
		milky white quartz carbonate stringers ar	nd veinlets										· · · · · · · · · · · · · · · · · · ·
		(<u>48 cm wide</u>).			·								
<i>i</i>		Minineralization: occasional isolated V.I	F.G. to M.G.	178	179	1	0.005	41	275	95	65	50	
		(4.2 cm) pyrite cubes (41%), copper-col	lored native	179	180	1	Trace	<1	4400	65	50	45	
		copper or niccolite (<1% to 2% by volume)) with minor	180	181	1	69	21	4400	60	45	30	
		sphalerite (<1%) in carbonate-rich andes:	ite between	181	182	1	"	1	230	55	50	40	
		178.7 - 183.3, occurs as v.f.g. (4.1 cm)	scattered	182	183	1	11	41	245	50	50	45	
		grains mineralization is associated with	h orange-								_	_	

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Loc Cor	ation e Siz	DIAM PROPERTY: WALKER #1	OND DI GROUP	RILL R	EPORT				HOL	E NO.	WA	2.
Azi	muth	Township: Walker Tow	nship						Com		2	
Ele	vatic	Du Location of Collar fr	- - #	Pos	+ of				, Fin	ichod	u	
Dip		@ collar	N/S	103					r TU Con	tract	0 7	
-		,	E/W						CON	LIACL	01	
From	To	DESCRIPTION	From	То	Width	Au oz	Ag				<u></u>	Description of Sample
		yellow to brick red realgar, orpiment, and cinnabar.										
		Contact: sharp contact by barren milky white quartz										
		vein (2.5 cm thick; minor carbonate.										
239.6	274.8	PYROCLASTIC BRECCIA										
		Greenish-grayish white; v.f.g. tuffaceous matrix			1							
		in coarse fragmental sections but generally felsic	241	242	1	Trace	41					$V_{F_{G_{1}}} Pv$ (<1%) frag and
		in composition - slightly calcareous - < 2.5 cm										tourmaline in breccia.
		section of possible orange-red carbonate throughout		-								
		the section - 'quartz-eye' porphyroc blast (~5% to										
		15%) crystal tuff section between 248.1 - 251.5.										
		Coarse tuff to agglomerate sections between										•
		239.6-242.6 - very fine to coarse heterolithic										
_		fragments (<.1 cm to 10 cm) of quartz-feldspar,										
		v.f.g. massive pyrite; V.F.G. felsic 'quartz-eye'										
		tuff, andesite, and v.f.g. black carbonaceous? tuff.										
		251.5-255 - very fine to coarse heterolithic										
		fragments (46 cm) of quartz-feldspar, v.f.g. massive										
		pyrite; V.F.G. black carbonaceous? tuff, felsic tuff,										
		and 'quartz-eye' crystal tuff.										
		262.3-263.3 - very fine to coarse fragments				.•		-				
		(<5 cm) of felsic tuff in a strongly felsic matrix.										
		273.4-274.8 - very fine to coarse fragments (<7cm	n)									

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	Cor	e Siz	e PROPERTY: WALKER #1	GROUP									•••
	Azi	muth	Township: Walker Tow	nship						Co	mmence	7	
	Ele	vatio	n Location of Collar fr	com #	Pos	t of					nishod	~	
	Dip		@ collar	N/S						С о	ntract		
	-			E/W									
L.	From	То	DESCRIPTION	From	То	Width	Au oz	Ag	Cu ppm	Zn		Description	n of Sample
			of felsic tuff with minor quartz-feldspar and V.F.G.										ti i i i <u>nterestado</u> ra
-			massive pyrite - V.F.G. black carbonaceous tuff						1				
			fragments from 274 - 274.8, well compacted fragments	5.									·
			Occasional bedding? features between fine and										
			coarser tuff agglomerate sections and rusty orange			· · · · ·							
			calcareous tuff and 'quartz-eye' crystal. tuff	1		-		1		1			
			section 40° to 45° from C.A.										
			Mineralization: barren to occasional V.F.G. to										· · · · · · ·
			F.G. (<.1 cm) pyrite (<1%); scattered F.G. to C.G.										· · · · · · · · · · · · · · · · · · ·
			(≤.4 cm) pyrite cubes (÷1%) from 272.0 - 274.8.										
			Contact: sharp contact 40 ⁰ from C.A.	_									·····
	274.8	319.5	GRAPHITIC TUFF (felsic tuff bands)	275	280	5	Trace	7	35	15		459-108 ny in fa	
			Black to grayish white, strongly graphitic in	215	200							<u>- 3%-10% py 111 12.</u>	tuff be
			composition with bands and beds of felsic tuff;	280	285	5	Trace	2	175	55		Massive py & py	tragments in
			V.F.G. (4.1 cm).	285	290	5	n	2	135	70		V.F.G. pv (20-25	k) in graph.t
		1	Banding between 40° and 60° from C.A. with	290	295	5	**	2	165	465		V.F.G. py (20-25)	3) " "
			core angles gradually becoming steeper with depth;	295	300	5	17	2	420	1065		V.F.G. pv (20-25)	£) " "
			banding among graphitic tuff, massive pyrite, and	300	305	5	71	2	195	670		V.F.G. py (20-25)	z) " "
			felsic tuff - numerous interlaminations between	305	310	5	"	2	235	770		V.F.G. py (20-25)	æ) " "
			graphitic tuff and felsic tuff with minor massive	310	315	5	"	2	370	1600		V.F.G. py (20-25	z) " "
-			pyrite bands between 274.8 - 283.	315	320	5	11 .+	2	445	1800		V.F.G. py (20-25	€) " "
			Possible fragmental section between 274.8 - 286										
	.]		with evidence of angular shaped V_F_G_ massive	-									

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Core Size PROPERTY: WALKER #1 GROUP	Commenced
Azimuth Township: Walker Township	Commenced
TOWTONT TOWTONTD. ACKIET TOWNOUTD	
Elevation Location of Collar from # Post of	Finished
Dip @ collar N/S	Contractor
E/W	
From To DESCRIPTION From To Width .	Description of Sample
pyrite, felsic tuff, and graphitic tuff fragments	
(45 cm in size).	
Numerous quartz-carbonate oval-shaped pods	
(<2 cm in size) and lenses - also occur as thin	
stringers.	
Mineralization: V.F.G. (4.01 cm) pyrite occur-	
ring as massive lamination, V.F.G. (<.01 cm)	
scattered pyrite (15%-25%) in a graphitic matrix,	
and as V.F.G. (<.01 cm) pyrite nodules (<.7 cm	
in size); pyrite nodules associated with quartz-	
carbonate pods and lenses.	
Contact - sharp.	
	· ·
319.5 526 FELSIC TO INTERMEDIATE CRYSTAL TUFF (reworked?)	
Greenish white color; felsic to intermediate	
composition - moderately calcareous from 319.5 to	
477.3 - observance of bluish green fuchsite (~1%)	
gradational increase in argillaceous? matrix with	
depth with round quartz-feldspar porphyroblasts and	
angular clastic grains (<.4 cm in size and approxi-	
mately vary in concentration from <1% to 40%)	
observed throughout the section - concentration of	
feldspar > concentration of quartz with feldspar	
replacing quartz.	

	Loc	ation	DIAM	ond di	RILL RI	PORT				HOL	E No.	WA	1-1-79	5.
*	Cor	e Siz	PROPERTY: WALKER #1	GROUP										
	Azi	muth	Township: Walker Tow	nship						Com	mence	ed		
	Ele	vatio	on Location of Collar fr	om #	Post	t of				Fin	ished	3		
	Dip)	@ collar	N/S						Con	tract	tor		
				E/W						, I				
-	From	То	DESCRIPTION	From	То	Width							Descriptio	on of Sample
-	••••••••••••••••••••••••••••••••••••••	-	Occasional banding between felsic to intermediat	e										
			tuff and thin carbonaceous tuff (42 cm thick) lami-	-										
			nation ranging 50° to 65° from C.A.					_						
		 	Pyroclastic breccia or breccia zones											
			348.6 to 349 - felsic to intermediate tuff								· .			
			fragments (<10 cm in size) in a slightly carbonaceou	s .										
			matrix, angular shaped fragments with sharp contact											· · · · <u>- · · · · · · · · · · · · · · ·</u>
			at 349, 45° to C.A.										······································	<u></u>
	<u></u>		379.5-380.6 - felsic to intermediate tuff and											
			quartz-feldspar fragments (>1 cm in size) in a											
	<u></u>		tuffaceous matrix, angular shaped and well compacted											
		1	471-481 - reworked argillaceous tuff? fragments											
			(>1 cm in size) in a tuffaceous matrix; slightly										-	
			chloritic matrix from 477.7 to 481 with fragments											
			not being distinct; angular shaped and well compacte	đ;									11 m - 22 . , 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2 m - 2	
			gradational contact.										- <u></u>	
			Mineralization: barren to occasional pyrite											
			<pre>(<1%) occurring as scattered grains or cubes;</pre>											
			V.F.G. to M.G. (-2 cm).											
			•											
			•											
							.•							
		526	END OF DDH WA1-1-79			17.	f-	Re	2				· · · ·	· · · · · · · · · · · · · · · · · · ·
							•							•
									·····					

Cor	e Siz	e: AQ PROPERTY: WALKER #	L GROUP	•								
Azi	muth	: 176 ⁰ Township : Walker To	wnship						Cor	mmenc	ed:	October 15, 1979
Ele	evatio	n: Surface Location of Collar	Erom #	Pos	st of				Fi	nishe	d : •	October 19, 1979
Dip):	-55° @ collar; @ 200'(60.9m)-50°;	N/S						Cor	ntrac	tor:	Bradley Bros.
	@4	35'(132.6m)-39°	E/W						* <u>.</u> .			
From	То	DESCRIPTION	From	То	Width	Au oz	Ag oz	Ag ppm	Cu ppm	Zn ppm		Description of Sam
0	164'	Casing - fine sand and boulders with				_						
		increasing frequency of boulders towards										
		164.										
<u> </u>												
164	220.8	INTERMEDIATE HYALOCLASTIC BRECCIA - grayish	-							· · ·		
		white color, intermediate in composition (dacitic)										
		being slightly argillaceous - minor sections being										
		graphitic - ≾1% strained sub-rounded to elliptical										
		shaped quartz (carbonate) porphyroblasts (4.7 cm)	205	210	5	Trace		~1				Barren hyaloclastic bred
		that is prominent in the V.F.G, intermediate tuff;	210	215	5	11		<1				Barren hyaloclastic bred
		very fine to coarse fragments (<.1 cm to > 5 cm)	215	220	5	11		~1				Barren hyaloclastic bred
		being gradationally coarser fragments from 203.7 to	,									
_		220.8 with fragments being intermediate tuff in a										•
		slightly silicified matrix; coarse fragmentals from	i								<u> </u>	
_		175.6 to 176.2, 186.1 to 187.4, and 192.0 to 196.0.										
		Occasional bedding 45° to 55° from core axis									LAR	DER LAKE
		between finer and coarser fragmental sections;									<u>الر،</u>	(reiven)
		numerous quartz stringers and veinlets.									ШU	PR - 9 1980
-		Mineralization :- occasional V.F.G. to F.G.							- -		AM	PM
		(4.1 cm) pyrite grains (41%) with specks of chalco-									7 18 191	111211213141310
		pyrite (<.1%) generally associated within thin quar	tz									3
		stringers; increase in pyrite (<1%) with graphitic										
	1	slips.										

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Loc	atio	DIAMO	ond dr	RILL R	EPORT				HOI	LE NO.	WA1-2-79 2.
Cor	e Si	ze PROPERTY: WALKER #1	GROUP		ι.						
Azi	muth	Township: Walker Town	nship						Cor	menced	1
Ele	vatio	on Location of Collar fr	om #	Pos	t of				Fir	nished	
Dip	•	@ collar	N/S						Cor	ntracto	or
			E/W								
From	То	DESCRIPTION	From	То	Width	Au oz	Ag oz	Ag ppm	Cu ppm	Zn ppm	Description of Sample
220.8	261.7	CALCAREOUS HYALOCLASTIC BRECCIA - gravish white									
		color; carbonate-rich from 225 to261.7 having a	22.0	225	5	Trace		-1			Barren hyaloclastic breccia.
		slight to moderate carbonaceous matrix; very fine to	225	230	5	11		<u> </u>			Barren ankeritic hyaloclastic
		coarse angular fragments (<5.5 cm) with the matrix									breccia.
and the owned to be a first of the		and fragments of similar composition (carbonate-	230	235	5	11		~1			Barren hyaloclastic breccia.
		carbonaceous composition) from 241.4 to 261.7.	235	240	5	11		<u> ~1</u>			
		Frequent thin milky white quartz stringers and	240	245	5	11		~1			11 II II
		veinlets; weak to moderate light brown ankerite zone	245	250	5	11		~1			
		from 225 to 232.7.	250	255	5	11		~1			11 11 11
		Mineralization:- occasional V.F.G. (<.1 cm)	255	260	5	11		<u> </u>			
dari a 11 anna - 11 anna - 11		specks of pyrite (<1%) and chalcopyrite (<.1%) with	260	262	2	ft .		~1			∠1% py cubes in carbonaceous tuff
		chalcopyrite generally associated with quartz	262	264	2	11		~1	45	30	≤1%-2% py_cubes in " "
<u></u>		stringers.	264	267	3	ft		<u>~1</u>	30	45	Barren to < 1% py in "
		Contact:- gradational decrease in carbonate	267	270	3	**		~1	25	25	✓1% py in carbonaceous tuff
		and increase in carbonaceous content.	270	272	2	Ħ		1	50	50	10%-15% py in "breccia
261.7	277	CARBONACEOUS TUFF (hyaloclastic breccia) -	272	274	2	11		~1	45	30	10%-15% py in breccia (abundant
		grayish black color; carbonaceous matrix being									qtz)
		calcareous from 270 to 277; hyaloclastic or breccia	274	276	2	97		-1	40	25	5%-8% py in breccia (abundant
<u></u>		zone from 270 to 277 with angular pyritiferous tuff									qtz)
		fragments (44 cm in size).									
		Frequent quartz stringers and veinlets.									
۰ 		Mineralization:- occasional V.F.G. to C.G.									
		(<.7 cm) pyrite cubes (<10% to 15%); ≤1% to 3% V.F.G.									
i		to C.G. (4.7 cm) scattered pyrite cubes from 261.7									

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Loc	atio	DIAMO	ond dr	ILL R	eport				HOI	LE No.	WA1-2-79 3.
Cor	e Si	ZE PROPERTY: WALKER #1 (GRQUP								
Azi	muth	Township: Walker Town	nship						Cor	menced	3
Ele	vati	Dn Location of Collar fr	om #	Pos	t of				Fir	nished	_
Dip	>	@ collar	N/S						Cor	ntracto	or
_		•	E/W								
From	То	DESCRIPTION	From	То	Width	Au oz	Ag oz	Ag	Cu ppm	Zn	Description of Sample
		to 264.1 - barren to occasional V.F.G. to F.G.									
		pyrite (<1%) from 264.1 to 269.8 - 10% to 15% V.F.G.									
		to M.G. (≺.2 cm) pyrite from 269.8 to 277 within the									
	1	matrix and fragments.		• .							
		Contact:- gradational decrease in carbonaceous									
		material.									
277	373.3	HYALOCLASTIC BRECCIA - grayish white to grayish	276	278	2	Trace		×1	40	25	5%-8% py in breccia (abundant qtz
		black color; V.F.G. carbonaceous - calcareous matrix	278	280	2	TT		1	45	20	Barren to ≺1% py frag. in breccia
	1	about moderate calcareous intermediate tuff fragments;									
		very fine to coarse angular fragments (<.1 cm to 30									
		cm); poorly sorted with a slight gradational of									
		coarser fragments towards 373.3.	310	313	3	Trace		1	40	85	41%-2% py in carbonaceous hyalo-
		Graphitic tuff zones between									· clastic
		320.6 to 321.3 - black color; strong graphitic matrix	313	315	2	Trace		1	35	80	<1% py in hyaloclastic breccia.
		with graphitic tuff and massive pyrite fragments	315	316	1	11		2	95	90	5%-10% py frag. in carbonaceous
, <u></u>		(∴.3 cm).									hyaloclastic.
		356.7 to 357.5 - similar to section 320.6 to 321.3	317	319	2	11		<1	80	85	41% py in carbonaceous hyaloclast
	1	with 45% pyrite associated with quartz carbonate.	319	321	2	17		1	140	95	Graphitic $320.6-321.3 +1$ % py
		Slight schistosity 40° to 45° from core axis.	321	323	2	π		41	95	150	41% py in carbonaceous hyaloclast
B		Mineralization:- occasional pyrite (<1%) as									
		angular shaped fragment (2.5 cm) with minor									
-		occurrences as fractured pyrite nodule with quartz	355	358	3			1	90	100	≈2% py frag. in graphitic zone.
. <u></u>		rim about borders; 10% pyrite fragment from 315 to									

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Loca	ation	DI	AMOND D	RILL R	eport				HO	LE No.	WA1-2-79 4.
Core	e Siz	e PROPERTY: WALKER	#1 GROUP								
Azi	muth	Township: Walker	Township						Cor	mmence	d
Ele	vatic	Dn Location of Collar	from #	Pos	t of				, Fi	nished	L
Dip		@ collar	N/S						Co	ntract	or
		·	E/W								
From	То	DESCRIPTION	From	То	Width	Au oz	Ag oz	Ag ppm	Cu ppm	Zn ppm	Description of Sample
		315.5 with size ≤1.8 cm in a graphitic matrix.									
		Contact:- broken (not distinguishable).	371.3	373.3	2	Trace		1	55	110	≺1% py in carbonaceous hyaloclastic
373.3	374.2	MASSIVE SULPHIDES - brass bronze color; 95% t	.0 373.3	374.2	0.8	Trace	0.11	4	185	75	95% to 100% pyrite rock.
		100% massive pyrite; V.F.G. (<.01 cm).									
		Massive texture; cross-cutting very thin quar	tz								
		microfractures (.1 cm thick).									
374.2	378.5	Lost Core.									
378.5	399	MASSIVE SULPHIDES - similar to section betwee	en 378.5	379	0.5	Trace	0.10	4	130	65	95% to 100% pyrite rock.
		373.3 - 374.2.									
379	389.3	Lost Core.									
389.3	392.4	Lost Core (with kaolinized tuff core bits).									
		·		ļ							· · · · · · · · · · · · · · · · · · ·
392.4	399.5	KAOLINIZED TUFF - bleached white color; stron	ig								
		kaolinized matrix? with V.F.G. (~.1 cm) quartz gra	lins								
		or clasts (10% to 20%); quartz grains or clasts an	e								
		angular to sub-angular shaped.		ļ							
	_	Faint laminations 45° from core axis.			.	ļ					
		Mineralization:- occasional V.F.G. pyrite ler	ise		<u> </u>						
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Loca	ation	DIAM	ond du	ILL R	eport		HOLE No	. WA1-2-79	5.
Core	e Siz	e PROPERTY: WALKER #1	GRQUP						
Azir	muth	Township: Walker Tow	nship				Commenc	ed	
Elev	vatio	Dn Location of Collar fr	om #	Pos	t of		Finishe	đ	
Dip		@ collar	N/S			-	Contrac	tor	
-			E/W						
From	То	DESCRIPTION	From	То	Width			Descript	ion of Sample
		(<1.8 cm): lense contains 75% to 95% pyrite with							
		these lenses (<1%) occasionally observed throughout							
		the section.							
		Contact:- broken by V.F.G. massive pyrite band		•					
		from 399 to 399.5.							
399.5	414.7	HYALOCLASTIC BRECCIA - similar to section							
		between 277 and 373.3 with							
		Observances of scattered V.F.G. to F.G. (4.15 cm)							
		feldspar (<1% to 2%).							
		Contact:- sharp contact 30 ⁰ from core axis.						· ·	
414.7	445	FELSIC HYALOCLASTIC BRECCIA - grayish white					 		
		color with a grayish black matrix about felsic tuff					 		
		fragments; felsic matrix (rhyolitic) from 414.7 to					 		
		428.1 with light green alteration bands (silicifi-					 		
		cation?) - carbonaceous-calcareous matrix about					 		
		fragments from 428.1 to 445; angular shaped fragments					 		
		k8 cm in size - in and out of finer tuff and coarser					 		
		rull sections from 428.1 to 445.					 		
		Slight schistosity 30° to 50° from core axis					 		
		(possible lahar?) with light green alteration bands				-	 		
		40° to 45° from core axis.					 		<u></u>

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	Loca	ation	DIAMO	nd dr	ILL RI	PORT				HOI	LE No.	WA1-2-79 6.
	Cor	e Siz	e PROPERTY: WALKER #1 (GROUP								
	Azi	muth	Township: Walker Town	nship						Con	menced	
	Ele	vatio	Dn Location of Collar fro	om #	Post	t of				Fir	nished	
	Dip		@ collar	N/S						Cor	ntracto	r
			1	E/W								
•	From	То	DESCRIPTION	From	То	Width	Au oz	Ag oz	Ag ppm	Cu ppm	Zn ppm	Description of Sample
-			Graphitic zones between									
			433 to 434) black color: strongly graphitic matrix	433	434	1	Irace_		2	85	25	<u> 41%-2% py in graphitic-felsic</u>
			437 to 437.5) with felsic tuff and pyrite fragments									hyaloclastic.
			(<2.5 cm in size); quartz_rim_about	437	439	2	11		_1	40	20	✓1% py in graphitic-felsic
-			pyrite fragments.								· .	hyaloclastic.
			Mineralization: - barren to occasional pyrite									
			fragment (<1%); very fine to coarse (÷2.5 cm) pyrite									
-			with quartz rim about pyrite.									
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DDH WAI-2-19 Plan of Ŋ 42^m 130 WA1-2-7 L522223 3 WAIKER TWP Scale 1" . 400' LARDER LAKE Oct 15/79 START LENGTH 445' 9 1**980** APR DIP FINISH Ocr 19/79 - 55" PM ٨M 7 18 19 10 11 12 11 2 3 14 5 16 1.06" 176° Din or Core Az AQ WIRE LINE Contrancton BRADLEY BROS TIMMINS ON INGER ARGUS LIMITED HOLL TIMMINS, ONTARIO

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HOLLINGER ARGUS LTD.

