

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top
portion of form only on first page for each hole.FILL IN ON
EVERY PAGEHOLE NO.
2926PAGE NO.
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DRILLING COMPANY CONTINENTAL		COLLAR ELEVATION Approx. 770'	BEARING OF HOLE FROM TRUE NORTH -	TOTAL FOOTAGE 1297	DIP OF HOLE AT collar 90	Comments All casing pulled from hole	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED July 13, 1977	DATE COMPLETED July 30, 1977	DATE LOGGED July 15 - Aug. 1, 1977	LOGGED BY J. G. Thurlow		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.) Drilled on road in bottom of Sandfill pit: Buchans Coord N9159, E12,289 ($\pm$ 2 feet)	
EXPLORATION CO., OWNER OR OPTIONEE PRICE CO. LTD. MINERAL RESOURCES DIVISION		DATE SUBMITTED Aug. 1/77	Core Size 76-85: BX 85-1297: BQ		ft		PROPERTY NAME BUCHANS 1905 AREA #3 (SANDP)	
					ft			

FOOTAGE		DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
FROM	TO					FROM	TO				
0	76	Overburden: gravel, granite boulders, sand and silt (outwash)									
76	90	Dark green, soft andesitic tuff; fractured and broken core - moderately foliated at 45° to core - soft with moderate chlorite alteration - locally contains numerous aligned white specks - probably plagioclase - some bedding visible virtually parallel to foliation - lower contact not cored									
90	100	Felsic intrusive, approximately rhyolitic composition - dark grey on margins, brownish with pink feldspar phenocrysts in center - fractured and broken core; not nearly as foliated as overlying tuffs but appears to be pre-foliation - basal contact cored at 40° to core									
100	333	Foliated andesitic tuffs, identical to 76-90: cut by network of thin qtz.-calcite veinlets - several zones of moderate shearing and a few very thin gouge zone s - broken and fractured core with 3 ft. lost core between 98 and 120' - from 121-159 several zones with numerous flattened lapilli - traces disseminated pyrite; some lapilli are moderately pyritized - foliation averages 40-45° to core but is quite steep in some zones - rare 2mm. wide pyrite seams parallel to foliation - 159-173 soft foliated lapilli-free andesitic tuff - 173-333 andesitic tuff and lapilli-tuff as before; abundant white plagioclase crystals - plagioclase averages 3-5mm. size - a few weakly pyritized lapilli and numerous streaks of pyrite parallel to foliation - foliation becomes steeper with depth; averages 25° to core at 250 ft. - below 300 feet, several streaks of foliated dacitic tuff with up to 10% disseminated pyrite.									

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

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DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)					
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	Core Size		ft		PROPERTY NAME					
					ft							
FOOTAGE FROM	TO	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.			PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	TO	SAMPLE LENGTH	ASSAYS	
00	333	- beginning at 331. shearing, broken core, minor gouge; shearing continuous to 335 ft.										
33	371	Dark grey dacitic tuff; foliated and probably weakly carbonaceous										
		- up to 5% disseminated pyrite throughout										
		- foliation at 45° to core										
		- quartz crystals vary from small up to 2mm; diffuse outlines										
		- matrix glass altered to sericite; probably was vitric-crystal tuff										
		- some streaks and seams of pyrite parallel to foliation										
		- local lapilli-rich zones										
		- 369-372 strong shearing with one foot fault gouge										
71	418	Dacitic to rhyolitic flow and lesser breccia - not foliated										
		- uppermost 4 feet green fine grained vitric tuff										
		- rhyolite varies in colour from pinkish brown (where freshest) through various shades of grey green										
		- textures masked throughout by sericite-clay mineral alteration										
		- contains up to 10% 1mm. plagioclase phenocrysts, rare quartz										
		- locally cut by creamy beige dolomite (?) veinlets										
		- some interbeds of vitric tuff and other thin zones of fine grained breccia										
		- basal contact is weak shear at 45° to core										
8	430	Distinctive dacitic lapilli tuff with 10%-15% lapilli to 3cm. floating in light grey soft strongly altered vitric matrix - clay mineral alteration; weak dissem. pyrite.										
		- some lapilli contain 6mm. prominent quartz phenocrysts										
		- 424-426 altered rhyolite breccia; abundant 6mm. prominent quartz phenocrysts										
		- 426-430 altered lapilli tuff, identical to 418-424										
		- basal contact conformable										

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DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	Core Size				PROPERTY NAME		

FOOTAGE FROM TO	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE +	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
					FROM	TO				
30	444									
	Dacitic pyroclastic breccia; ore horizon-like dacite									
	- wide variety of small fragment types in dacitic crystal-vitric matrix									
	- minor gouge at 434									
	- some zones of fragment poor green dacitic tuff									
	- strong hematization of matrix tuff from 441-444									
	- basal contact cored and conformable									
44	453									
	Arkosic pebble conglomerate; a facies of The Upper Arkose									
	- contains unusual abundance of dacitic tuff fragments and dacitic tuff in matrix									
	- wide variety of fragment types from basalt to rhyolite									
	- moderate packing; pebbles up to 5cm. size, average 2cm, rounding varies from good to poor									
	- basal contact conformable									
53	533									
	Dacitic crystal vitric tuff - uppermost part of Oriental ore horizon sequence									
	- dark green and locally with purpleish cast									
	- crystal-rich with 15% 2mm. plagioclase, 5-10% 1 mm. quartz									
	- matrix glass is dark green and chloritic									
	- local streaks of hematization parallel to bedding									
	- contains a few lithic fragments but, on the whole, is relatively lithic-poor									
	- broken core 524-531; some visible shearing and gouge									
	- basal contact conformable at 550 to core									
33	905									
	Dark maroon-brown rhyolite; 1mm. quartz and feldspar phenocrysts									
	- cut by numerous thin hematite veinlets									
	- massive and medium hardness									
	- 547-558 weak-moderate greenish clay mineral alteration in brecciated rhyolite									
	- 567-592 pale greenish-clay mineral alteration - original texture of of host rock is obscured by alteration - locally looks like massive tuff, elsewhere like altered rhyolite									

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

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DRILLING COMPANY		COLLAR ELEVATION		BEARING OF HOLE FROM TRUE NORTH		TOTAL FOOTAGE		DIP OF HOLE AT		Comments	MAP REFERENCE NO		CLAIM NO.	
DATE HOLE STARTED		DATE COMPLETED		DATE LOGGED		LOGGED BY		collar			LOCATION (Tp., Lot, Con. OR Lat. and Long.)			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED		Core Size				ft			PROPERTY NAME			
								ft						
								ft						

FOOTAGE		DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE +	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
FROM	TO					FROM	TO				
33	905	- a few thin zones of broken core; no shearing									
		- 592 and onward, maroon-brownish brecciated and hematized rhyolite, as before									
		- quartz and feldspar phenocrysts, hematite veinlets									
		- heavily fractured and badly broken core 602-622; core is mostly gravel; some minor shears recovered.									
		- 3 feet lost core 610-613; core tube did not lock properly									
		- 622-642 several zones fractured and broken core; several zones possible tuffaceous material similar to 567-592									
		- 642-666 heavily fractured and broken core									
		- 4 ft. lost core 648-652; core tube did not lock properly									
		- several pieces of core with subvertical slickenside planes showing subhorizontal movement									
		- 666-685 several zones heavy fracturing									
		- 685-748 very hard rhyolite; dark maroonish-brown; small quartz and feldspar phenocrysts; local weak flow banding									
		- numerous hairline epidote veinlets									
		- several zones fractured and broken core; no visible shearing									
		- 748-788 very hard rhyolite; contains a few small pebble-sized inclusions									
		- 788-792 fractured and broken core, several minor shears recovered									
		- no change in lithology									
		- 792-905 massive very hard dark brown rhyolite, as before									
		- 796-799 abundant quartz-epidote veinlets in fracture network									
		- contains a few small accessory pebbles throughout (including rare granitoid)									
		- flow banding becomes more pronounced near base									
		- network of thin quartz-epidote veinlets near base									
		- basal contact cored and conformable (one foot broken core immediately below contact)									

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DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Twp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	Core Size		ft			
					ft			

FOOTAGE		DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS		
FROM	TO					FROM	TO				
905	953	Heterolithic pyroclastic breccia-conglomerate; medium to dark grey-green - wide variety of fragment types varying up to 20cm. size - packing tight, sorting poor, rounding fair to good - wide variety of fragment types, including numerous granitoids (mostly pinkish), a number of rhyolite types, a few silt-like fragments minor altered intermediate fragments. - at 929 feet, a 6cm. cobble composed of fine grained intermediate breccia cemented by high grade Pb-Zn; minor disseminated pyrite throughout - granitoid cobbles are consistently the largest in size - matrix composed of dacitic tuff and tuffaceous wacke; small glassy shreds are ubiquitous - below 939 proportion of fragments decreases as rock grades into lithic-rich dacitic tuff - at 943 fragment proportion increases again as rock grades back into heterolithic pyroclastic breccia-conglomerate; pebble sized clasts - more abundant altered intermediate and rhyolite clasts than before - minor pyrite clasts - glassy shreds in matrix end abruptly at 953 - gradational conformable contact									
953	978	Heterolithic breccia-conglomerate, very similar to overlying unit but with much lesser pyroclastic component in matrix - wide variety of fragment types, mainly altered rhyolitic types, pebbles to small cobble sized - some rhyolites bleached to medium grey and with traces Pb-Zn in fractures - other fragment types include altered intermediates, pyritic siltstone - contains a few small high grade black ore grains and one 11cm. high grade Pb-Zn clast at 960 feet - packing tight, rounding highly variable, sorting poor - matrix varies from fine to coarse pyritic rhyolitic wacke - lithic fragments are abruptly coarser at base: - conformable contact									

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EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	Core Size	ft	ft		PROPERTY NAME					
				ft								
FOOTAGE FROM	TO	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.			PLANAR FEATURE ANGLE	CORE SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS *		
978	1002	Pebbly rhyolitic breccia-conglomerate composed mainly of pinkish rhyolitic pebbles										
		- 983-978 is a very well graded bed; grades into pyritic wacke at top										
		- contains a few clasts of pumiceous Intermediate Footwall										
		- minor disseminated detrital pyrite throughout										
		- 983-1002 similar to above but much more poorly sorted; matrix supported with rhyolitic clasts up to 5cm.										
		- several zones of pebble-free coarse rhyolitic wacke										
		- conformable contact										
1002	1015	Rhyolite breccia, large tightly packed pink rhyolite fragments										
		- pyritic tuffaceous wacke matrix										
		- some interbeds of breccia conglomerate with traces matrix Pb-Zn										
		- local green matrix pumice										
		- basal contact conformable										
1015	1043	Heterolithic breccia conglomerate and interbedded wacke										
		- mainly rhyolite pebbles and cobbles										
		- disseminated pyrite throughout and minor Pb-Zn grains and small pebbles up to 10 X 4 mm.										
		- interbedded wackes carry heavy detrital pyrite (up to 15%)										
		- at 1037, a 20mm. black ore pebble, plastic										
		- a few small baritic pebbles present										
		- basal contact conformable										
1043	1082	Grey altered breccia composed mainly of strongly altered rhyolite fragments, most of which have well defined altered rims (6" pyritic silt at immediate top)										
		- all variations in fragment size; matrix contains moderate pyrite and traces Pb-Zn										
		- alteration is mainly clay mineral-silicification-pyritization										
		- at 1045.9, a 15 X 25 mm. black ore clast underlain by a 10 inch bed of fine grained breccia cemented by moderate grade Pb-Zn										
					From	TO	LENGTH	Cu	Pb	Zn	Au	Ag
					1045.9	1046.7	0.8	1.63	1.76	10.00	0.011	0.75

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DATE HOLE STARTED		DATE COMPLETED		DATE LOGGED		LOGGED BY		ft			LOCATION (Tp., Lot, Con. GR Lat. and Long.)			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED		Core Size		ft		ft			PROPERTY NAME			
								ft						

FOOTAGE FROM TO	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE +	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
					FROM	TO				
43	1082	- below this, breccia, similar to that above the mineralization								
		- contains several clasts of pyritic siltstone and several pyritic stockwork-like fragments and numerous altered intermediate fragments								
		- average 5-10% disseminated pyrite throughout								
		- 1070-1071 a few black ore and barite pebbles and cobbles; one barite clast is 13cm.								
		- weak gouge @1074; immediately below this to 1076, heavily disseminated pyrite, minor Pb-Zn and strong clay mineral alteration in fine grained tuff								
		- this section contains a few pyrite pebbles to 6cm.								
		- at 1079, 7cm. plastically deformed high grade Pb-Zn clast								
		- 1079-1081 altered pyritic rhyolitic wacke with traces disseminated Pb-Zn								
		- basal contact is gradational and defined by decrease in alteration, decrease in disseminated pyrite and rapid increase in pinkish rhyolite pebbles								
82	1185	Interbedded rhyolitic lithic tuff and rhyolitic wacke with minor green vitric tuff interbeds; coarser sections characterized by abundant pink-rhyolite clasts								
		- 1-2% disseminated pyrite, local specks of Pb-Zn								
		- locally bedded near perpendicular to core; tops upright on good load casts								
		- 1087-1131 mainly rhyolitic lithic tuff; talapillistone fairly well sorted with average 5-15mm. lapilli; tight packed								
		- much fresher than 1043-1082 and with only traces disseminated pyrite								
		- massive and non bedded								
		- commonly has coarse arkose-like appearance								
		- 1131-1143 broken core, minor gouge and weak alteration; no change in lithology								
		- 1143-1148 rhyolitic lapillistone and lithic tuff as before								
		- 1148-1166 mainly coarse rhyolitic wacke with lesser interbedded lapillistone; contains a few outside pink rhyolite cobbles								

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DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Twp., Lat., Cons. OR Lat. and Long.)		
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	Core Size				PROPERTY NAME		

FOOTAGE FROM TO		DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS		
						FROM	TO				
		- 1166-1185 rhyolite-rich heterolithic breccia; pebbles and cobbles to 12cm, average size 1-4 cm.									
		- mainly a variety of rhyolite types but also contains 10-15% altered Intermediate Footwall fragments; some of these are heavily chloritized and pyritized, others have strong clay mineral-mariposite alteration									
		- minor pyritic silt fragments and a few silt-wacke interbeds									
		- basal contact conformable									
1185	1223	Heterolithic breccia-conglomerate, granitoid-bearing									
		- tight packed, avg. fragment size 1-4cm, variable rounding, poor sorting									
		- wide variety of fragment types including rhyolite, pyritic siltstone, altered intermediate, pink to grey granodiorite, chloritized andesite, dacitic tuff fragments									
		- basal contact is weakly sheared									
1223	1240	Sulphide-bearing heterolithic breccia with interbedded pyritic siltstone and wacke									
		- contains widely dispersed high grade Pb-Zn black ore grains and pebbles and barite pebbles									
		- maximum black ore clast = 3cm; one barite cobble is 10cm.									
		- wide variety of lithic fragments similar to overlying unit but contains no granitoid clasts									
		- sulphide clasts disappear below 1232 but unit continues down to 1240									
		- basal contact conformable									
1240	1245	Heterolithic breccia-conglomerate, granitoid-bearing and very similar to 1185-1223									
		- contains no sulphide clasts									
		- basal contact conformable									
1245	1249	Rhyolitic lithic tuff to lapillistone, very similar to units above 1185									
		- basal contact is thin shear									

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

