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APPENDICES

APPENDIX

- C. D.D.H. CORE LOGS AND ASSAYS FOR 84-1 TO 84-9.
- D. TABLE OF ANALYSES FOR AU, AG, CU, PB AND ZN AND SAMPLE DESCRIPTIONS FOR ALL SAMPLES OF DIAMOND DRILL CORE, HOLES 84-1 TO 84-9.
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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,711

PART 3 of 3

APPENDIX C

D.D.H. CORE LOGS AND ASSAYS FOR 84-1 TO 84-9.

DIAMOND DRILL RECORD

Hole No. 84-1 Sheet 4 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
			down-hole unit marked by 14 cm broken rx., 20 cm finely broken rx. at 32.86 mod.											
			broken & wkly. weathered rx. 32.86 → 34.											
34.14	36.9	2.54	(py'c) Bslt.: M.-dk. → M.-lt. grn-gy. (Horn P.), Fsp. (Horn) Micro P., "glassy" Bslt. textures mod. distinct; Fsp. micro phenos. appear chl.-altr'd, Bslt. has "foggy" look; resembles 23.74 - 29.57. Gen.? (34.14 to 37.36 m) aprx. 1→3%, 0.5 → 1.5 mm Ø, irreg. patches of sieve-like, v. f. grn'd. py. (one patch = 13 x 13 mm). Few % v. f. (0.25 mm) to 3 mm tk., py-filled, irreg., stg.-like frctrs. At 36.96: minor Cu-stain in rusty zone 1 cm tk. (at 65° to C.A.). Bslt. gen. weakly weathered and w/ few % vugs. At 36.9: 9mm tk., sharply bounded band of (py'c) near blk., v.s. chl.-altr'd. Bslt. w/ aprx. 3-5%, v. f. - M. diss. py. (at 70° to C.A.). Mod.-broken, wkly weathered Bslt.: 34.14 - 34.37, 34.7 - 35.1, 35.67 - 35.77, 36.05 - 36.7, 37.15 - 37.35, 37.7 - 37.94, 38.3 - 39.3. At 37.8, 3 cm Ø spot of s. Ep-altrn. makes textures v. distinct (resembles clast but "matrix" similar texture). Contact w/ underlying unit appears gradational over 15 cm.	64 6	34.14	34.84	0.002	0.05	44	1	65			
39.3	43.3	4.37	"diabase". M.-lt. grn-gy - gy-grn / blk. spotted, wk. - mod. mag't'c. F. - M. xtn. (Horn. P.) Fsp.-Horn. - (Magt. - uralite? - leucoxene) 'diabase': aprx. 10→12%, 0.5 → 2.5 mm Ø, Horn. xtls. gen. containing few % v. f. grn'd Magt. patches of wht., highly reflective uralite. Few % specks of opaq. wht. leucoxene. Fsp. as laths and sub-	64 7	39.3	40.0	0.002	0.04	151	1	56			

DIAMOND DRILL RECORD

Hole No. 84-1 Sheet 8 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
69.0	74.3	(cont)	s. sauss.? - altr'd. down-hole & Aug ? becomes finer grn'd. less conspicuous down-hole. Rx. gen. s. frcr'd. & wk. weathered & com. somewhat vuggy. Loc. 5-10% "glassy" (opaq. wht.) grndms. between Fsp. xtls: apparent. Most of frcr-surfaces are rusty; loc. thin zones of bright blue-grn colouration adjacent to Qtz + Ep. vnlts., suggest pumpellyite? altrn.; aprx. 20% of intrvl. consists of mod. → s. broken core. Base of interval marked by 6 cm tk. zone (@ 40° to C.A.) of Bx'd. Bslt. or 'And.' pervaded by olv. grn. Ep.									
74.3	82.0	7.8	Thin 'Diabase' (Basalt) flows?: M. grn-gy → M. lt. gy-olv-grn/blk. speckled, mod. → non. magt'c, M. → F. xtl. n., Fsp.-Horn (uralite-) 'diabase' → basalt which appears to become somewhat finer grn'd towards flow?? selvages or chl. altrn. zones: selvages?? consist of near blk. to v. dk. gy-grn., (py'c), v. s. chl.-altr'd, F. - v.F. xtl. n. Bslt. w/ aprx. 1-2% (one w/ aprx. 10% over 1 cm), v. F. - F.(→C.) diss. py. Two of selvages appear gradational downwards into 'diabase'; one selvage is sharply (but very irreg.) bounded at base and gradational over 5 mm into s. olv.-grn. Ep.-altr'd Bslt. zone aprx. 1 m tk.; 3 selvages overlain by coarsely → v. finely Bx'd diab. w/ olv. grn. Ep. between frags.; gen. relationship between selvage & remainder of flow, complex and masked by Ep. vnlts. & altrn. Diab. appears coarsest grn'd within thickest flow? Flow? - Selvages? (1 to) 3 → 5 → 12 cm wide. Flows v. aprx. 1.43, 1.4, 0.55, 0.69	64 9	77.1	79.1	<0.002	0.05	142	1	57	

DIAMOND DRILL RECORD

Hole No. 84-1 Sheet 9 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
74.3	82.0	(cont)	and 2.44 m wide. Contact between 3 adjacent ? flow selvages? marked by irreg. Qtz. → Qtz. + cal. vnlt. 2 mm → 3 cm tk. w/ 10→80% brick-red hematite staining. Selvages? at 55, 45° & 75° to C.A. Core competent and wkly. frcr'd.											
82.0	93.2		Bslt. flows??: intergradational (poorly distinct) sequence of M.→M-lt. blue-grn.-gy., Horn.P., Fsp. MicroP., "glassy" Bslt.(→Fsp. (Horn) P., Fsp. MicroP., "glassy" Bslt. → M. gy- (blue) grn., var. Ep. - chl. - pumpellyite? - altr'd., (Horn.P.), F. xtn. (& "glassy") Bslt. → M. - dk.(→dk.) gy-grn., F. → v. v. F. xtn. Bslt. (flow selvages??: Fsp. com. blu-grn in Horn.P. Bslt. suggest pumpellyite? altrn.; dkr., finer xtn. intrvls (flow selvages?) at 82 m (v. aprx. 35 cm wide) 82.9 (60 cm), 86.5 (24 cm), 87.4 (45 cm) and 93.1 (40 cm wide). Upper 65cm of unit w/ aprx. 2 → 3% diss., v. E grn'd - Py - in 0.5 → 3 mm Ø patches. Few % Qtz. + cal. - vnlt., irreg. stg.-like & loc. patchy. Also few %, Chl.-filled frcrs. Broken &	65.0	82.0	82.7	aprx. 100%	0.002	0.05	530	1	40		
93.2	164.9		weathered core at 83.06 - 82.34 and 83.8 - 85.1 xtn. 'diabase': M. to M. - dk. gy-(olv.- (blue-) grn. / blk. speckled(→M. - lt. (blue-)grn-gy) w/ 3 zones 30, 85 and 90 cm wide, of opaq. lt. buff-yel./ dk. gy. speckled & v. s. Ep.-altr'd., (and gen. accompanied by to 10% Ep.-vnlt. & stgs), var. Ep.- (Chl.-pumpellyite?) altr'd., F.→M. xtn., Fsp.-Horn.- (uralite?-leucoxene-)				(near 100% good ground)							

DIAMOND DRILL RECORD

Hole No. 84-1 Sheet 10 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
93.2	164.9	(cont)	'diabase': gen. aprx. 5→12%, F. → M.-grn'd. Horn., gen. interstitial to Fsp. xtls., Fsp. loc. w/ pink tinge; gen. aprx. 1%, v. F. diss. py. Below aprx. 111.5, diabase var. magt'c.: intervals of mod. (→s.) magt'c., but com. non-magt'c.; diab. appears to become more s. magt'c. w/increase in % of Horn., but quite var.; minor to 1-2% uraltite? gen. in diabase: appears sieve-like and as altrn. of Horn.grns. In upper 15 m of interval aprx. 10-15% intrvlis. of (Horn.P.) 'diabase' w/ aprx. 3→8% Horn. phenos. Below 120 m 'diabase' becomes relatively uniform in appearance. Possible flow? selvages? or chl. altrn. zones at 114.6 (5 cm wide), 116 (4 cm) and 116.3 (5 cm), consisting of near blk., mod. magt'c, (py'c.), chl.-altr'd. v. F. xtl. Bslt. w/ few % F. diss. Py. & few % Qtz. & Ep. vnlt. Selvage? at 114.6 w/ 3 mm Qtz.-vnlt in centre w/ 5% py. - vnlt parallel to boundaries of selvage?. Selvages? at 40-50° to C.A.. Com. few % relatively planar Qtz. + cal. vnlt. & irreg. stg.-like, Ep. vnlt., gen. 0.5 → 2 mm tk.. 3, lt. gy./blue-grn/blk. speckled, M. xtl. Fsp. - Horn.-Diab. dykes at 105.6 to 106.8, 15 cm, 8 cm & 48 cm wide, w/ irreg. boundaries. 135.9 to 139.3, zone of diab. w/ aprx. 1→2%, v. F. grn'd Py. in irreg. patches to 4mm dia., accompanied by aprx. 3%, v. irreg. Qtz. + cal. vnlt. and few % frcr.-Py. and 1-2%, v. F., opa. wht. leucoxene? dits.: Diab. here is non-magt'c & somewhat greyer (less grn.) than rest of diab.	65 1	114.6	116.6	0.002	0.04	108	1	41	
				65 2	135.9	136.6	0.002	0.03	181	1	24	

DIAMOND DRILL RECORD

Hole No. 84-1 Sheet 12 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
164.9	175.9	(cont)	w/ xtl. frags. w/ ultra-thin, opaq. wht., "glass"? coatings.										
			py'c. zone 166.2 - 167.6, w/ 1-3%, v. F. grn'd - py. in irreg. patches up to 5 x 10 mm. At 166-65, 4-5.5 cm wide zone of v. s. Ep. (+cal. + chl.) altrn. + aprx. 7%, v. irreg., patchy to stg.-like, v. F. grn'd. py.	653	166.2	167.2		0.002	0.05	211	1	27	
			Base of unit marked by 1.7 m long zone of M. buff-gy., (Horn.P.) Bslt. that is is s. Bx'd. & semi-permeated by stg.-like zones of olv.-grn. - buff coloured Ep. altrn.										
175.9	179.2		'Andesite' Flow Bx.?: opaq., lt. buff-gy./M. pale grn. spotted, Aug? (or Diopside), Fsp. P., Fsp., (Aug?) MicroP., "glassy" 'andesite' (→Fsp. P., Fsp. MicroP., "glassy" 'andesite') frags. in v. aprx. 10% matrix of lt. gy.-buff / lt. blue-grn. spotted, opaq., sub-trachytic, Fsp. P., Fsp. MicroP., "glassy" 'andesite'. Relationship between frags. ‡ matrix distinct in 3 places. Frags., where distinct, 5-10 cm wide. Frags. w/ up to 12%, 1x1 → 3x5 mm, translucent, v. pale drab army grn., Aug.? or diopside phenos. Aprx. 2-3% Qtz. (+cal.) vnits; 0.5 → 4 mm (one at 2 cm) tk.	654	175.9	176.1		0.006	0.06	850	1	45	
			At 176.1 to 176.5 m; zone of M. → M.-lt. gy-grn., Horn. P., Fsp. Micro P., "glassy" Bslt. that is mod. → s. broken (13 cm of crumbly rx.) and w/ chl'c. shears: 5 cm from top of intrvl: 0-1 cm tk. band of semi-msv., F. (→M.) grn'd Py. along chl'c. shear (at 60° to C.A.).	655	176.1	176.5		0.002	0.05	520	1	44	
			At 178.7, 20 cm wide zone of mod. broken, M.-gy.-grn., Horn., Fsp., P.,	656	178.0	178.7		0.004	0.05	357	1	36	
				657	178.7	178.9		0.514	0.64	102%	10	125	

DIAMOND DRILL RECORD

Hole No. 84-1 Sheet 16 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
204.5	210.7	(cont)	separate clsts. 205.3 - 205.6: few (1-2%), irreg. frcr- & diss. py. Basal contact sharp, but v. irreg. & marked by aprx. 10 cm of v. s. sauss?-altrn. of overlying Horn. P. Bslt. (lt., opaq. creamy yel.)											
210.7	217.3		Andesite?: lt.→M.-lt. (seafoam-grn) gy., sub-translucent, Fsp. (Horn.) P., Fsp. Micro P., glassy andesite?: hard, (just barely scratches), aprx. 10-15%, sub-opaq. wht. Fsp. phenos. & 20-30%, Fsp. Micro-phenos. in sub-translucent gy., glassy grndms.; loc. Fsp. phenos. & microphenos appear M.-dk. grn. & chl.-altr'd; zones w/ 1-2%, Horn phenos. to 2x3 mm; at 212.9 m, aprx. 26 cm long zone (gradational boundaries) of aprx. F→M. xtl., Fsp.-Horn-andesite?, w/ aprx. 8-10% Horn., gen. as laths to 1x3 mm. Gen. minor → 2%, F. diss. py. but up to aprx. 5% in one 8 cm long zone; also discontinuous patches of py. along thin units. Aprx. 1-2% irreg. Qtz. (wht.) units 0.5 - 12 mm tk. of 56 cm long zone w/ Bx'n. & 15% ± near pervasive Qtz. units of altrn. At 214.3: 34 cm also Bx'd & w/ numerous Qtz. vnits. of Qtz? altrn., Basal 2.4 m w/ 3-10% Qtz. & Ep. vnits. & few Bx'd zones w/ Ep. between frags. Andesite? may comprise flow? or sill? (does not resemble Tertiary intrusive andesite, because of extensive Qtz.-vnits. & altrn. in zones). Basal contact knife sharp, at 40° to C.A. At 214.4 - 215.3: Bslt. dyke of dk. gy. (salt & pepper), banded (1-3 → 20 cm) and	665	210.7	211.4		0.002	0.05	1050	1	52		

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 1 Started October 9, 1984 Completed October 10, 1984 Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Length 107.9 M. Dip -63 SW Hor. Comp. _____ Vert. Comp. _____ Bearing 243° Latitude 5440632N Departure 580507E
 (354 ft.)

U.T.M. grid coordinates:

Elev. Collar 854 m % Recovery ~100% Location same as 84-1: South end of T.M.E. road; 312 m, @ 352° from 300 adit, Thistle mine; west-central L92G claim

Object Test zone of higher chargeabilities and determine dips of units intersected in upper part of hole 84-1.

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
From	To							Au	Ag	Cu	Pb	Zn
0	6.1	-	OVERBURDEN					oz/t	oz/t	ppm	ppm	ppm
								SPERRY-SUN TESTS				
6.1	10.1		Bedded, graded Bslt. T. to cherty, Bslt. T. (to Bslt.'c. Cht.): v. thin bedded to Lam'd., graded, colour banded & graded, (M. grn-gy., Fsp.-Horn.-Bslt. F. to V.F. xtl. T. to) M.-lt. to M.-(to M.-dk.) gy.-grn (to M. drab buff-yel.-grn.) Bslt. v. F. to v.v.F. xtl. T. to chty., Bslt v.v. F.T. (to Bslt;c. Cht.). Tops of bds. usually dkr. or drab buff-yel.-grn.; 2 bedded intervals 1.0 & 1.4 m long at top & base of unit (respectively) separated by 1.6 m long interval of msv. (to v. thin-bedded to lam'd.) M.-dk. grn.-gy. Fsp.-Horn.-Bslt. F to v.F. xtl. T..Interbedded to lam'd. intrvls.:grading shows beds upright; lams. of v. thin bds. gen. somewhat contorted & com. broken or Bx'd, "micro-faulted". Base of msv. intrvl contains 5, F.L. to C.L. rip-up clsts. of chty., Bslt. T. from underlying bedded intrvl. Bedng to C.A. measured from top to bottom of unit; 45, 70, 60, 60, 70, 65°. Basal contact gradational over 15 cm.					(m)	Inclin.	Direction		
								11.0	62.8°	243°		
								53.6	67°	256°		
								107.9	62.5°	248°		
				670	6.1	6.8		<0.002	0.03	37	1	42

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 2 Started _____ Completed _____ Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
From	To							Au	Ag	Cu	Pb	Zn		
10.1	13.8		Msv. Bslt. xtl. T.; M. to M.-lt. grn-gy/lt. drab olv-grn/v. dk. grn/wht. speckled, Msv., Fsp.-Horn.-Bslt. F. xtl. T.: w/few % M. to C.T.-sized clsts. of opaq. wht., Fsp. MicroP., "glassy" Bslt.; few % dk. gy-grn. grns.? to 3 x 4 mm - altr'd. Horn.? porphyroclsts or chl. altrn. spots; ~3 to 5%, 1x1 to 3x3 mm, olv. grn.-Ep. altrn. spots (altr'd Fsp.? porphyroclsts?); ~minor to 1%, v.v.F. diss. py. Basal contact marked by dyke (see below).				100	oz/t	oz/t	ppm	ppm	ppm		
13.8	15.3		(Horn.P.) Bslt. dyke?: M.-dk. to dk., gy-(blue-) grn. F. to v.F. xtl., (Horn.P.), Fsp.-Horn.-Bslt. dyke? w/ 3-5%, 0.5x0.5 mm to 3x4 mm Horn. phenos. Dyke w/ opaq. M. gy-grn., Fsp. (Horn.) MicroP., "glassy" selvages to 2 cm tk., Dyke cut by few % Qtz./Ep. (/Chl.)-filled frcrs & vnltts.. Bslt. contains minor v.v.F. diss. py.. Upr. contact @ 40° to C.A.; lower contact at 35° to C.A.											
15.3	30.5		(Amg'l.) Horn.P., sub-glassy to F. xtl. Bslt. flow?: M. grn-gy/lt. drab olv-grn. speckled & spotted/dk. gy-grn spotted to splotchy, sub-sub-translucent. (Horn.P.), Fsp.? Micro.P., (Amg'l.), sub-glassy Bslt. (~7 m long) grades down into ((Horn.P.)), (Amg'l.), v.F. to F. xtl. Bslt.: textures gen. poorly distinct. In upr. 7 m, ~5-7% Horn. phenos. up to 3x3 mm, appear altr'd com., and w/poorly distinct borders. Gen. ~3-4%, amgs., v. irreg. in outline, filled w/olv.-grn. Ep as radiating, bladed sprays and v.F. grn'd.; loc. w/ minor diss. sulph. & Qtz.?,	671	15.3	16.0		0.002	0.03	13	1	39		

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 3 Started _____ Completed _____ Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
From	To							Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
15.3	30.5	(cont'd)	amgs. up to v. aprx. 3x7 mm but Ep altrn. spots appear to radiate outwards from Amgs. Overall v. ~2-3%, ov.-grn. Ep. altrn. spots aprx. 0.7 to 5 cm dia. Ep. altrn. spots increase to 4-5% in interval 0.6 to 3.2 m from base of unit, where most have chl.altrn. haloes up to 5 mm wide. Basal 4.3 m of unit somewhat resembles upr. 7 m of unit & appears somewhat glassier(?) and finer-grn'd. than centre of unit, but has v. splotchy appearance (M. lt. gy./M.-dk. gy.-grn. splotchy w/ olv. -grn. spots & patches), & w/ few % v. poorly distinct Horn?. phenos. Base of unit marked by 5 cm tk. zone of sheared Bslt. annealed w/ v. fine Ep. stgs. & altrn. at 45° to CA. Broken and deeply weathered core at 28.5 to 28.9 m.											
30.5	32.3		Bslt. (L.) xtl. T.: M. grn.-gy/opaq. wht./v. dk. gy-grn. spotted, Msv. (Horn.P.), Fsp.-Horn.-Bslt. F. (to v.F.) xtl. T. w/ ~5%, M.T. to v.F.L. clsts of sub-opaq. wht to v. lt. (grn.-) gy. ((Horn.P.)). Fsp. MicroP., "glassy" Bslt. (few clsts. w/ one or 2Horn. phenos); few v.F.L. clsts of dk. gy.-grn. (Fsp. MicroP.) "glassy"? Bslt; sev. v.F.L. clsts of drk. gy.-grn. Bslt'c. Cht.. Fsp.- Horn.-Bslt. xtl. T. matrix w/ ang. Fsp. & Horn. xtl. frags. separated by a few % ash?. Base appears gradational over ~10 cm into underlying unit. Mod. broken core 30.9 to 31.1 m.	672	30.5	31.2	<0.002	0.05	78	1	46			

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 4 Started _____ Completed _____ Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
From	To							Au	Ag	Cu	Pb	Zn
32.3	33.5		Msv. Bslt. T.: Dk. to M. grn.-gy., Fsp.-Horn.-Bslt. F. xtl. T.: xtl. frags. ^a separated by 1 to 5% lt. grn.-gy., opa. ash? matrix; 1 to 3% M. to C.T.-sized clsts. of Fsp. MicroP., "glassy" Bslt. (gen. v. lt. gy. to wht. in colour). This T. resembles immediately overlying unit except less % clsts. Basal contact marked by ~1 cm tk. zone w/ ~50% v. thin Ep. vnits & some micro Bxn., at 40° to C.A.					oz/t	oz/t	ppm	ppm	ppm
33.5	34.6		Bslt. L.T.: clsts. distinct to poorly distinct, comprise variations of v. lt. gy. to lt. to M.-lt. to M. gy.-grn. (can be dkr. or lighter than matrix), (Horn., Fsp. P.), Fsp., (Horn.) MicroP., "glassy" Bslt. to M-dk. to dk., sub-sub- translucent, (Horn.P.) Fsp. (Horn.) MicroP., sub-glassy Bslt.. Matrix: M. to M.- lt. gy.-grn., (Horn.P.), Fsp.-Horn.-Bslt. F. xtl. T: individual xtl. frags. w/ ultra-thin "glass" coating or separated by few % ash? matrix.; var. sauss.? altrn. of matrix, in distinct patches, some relatively sharply bounded, give appearance of L. clsts of lighter colour.									
34.6	38.9		Bedded, graded Bslt. xtl. T. to chty., Bslt. T. (& Bslt. L.T.): complexly inter- bedded, and graded sequence of thin to M.-thin bedd. (to lam'd), M. to M.-dk. to M.-lt. gy-grn., Fsp.-Horn.-Bslt. F to v.F. xtl. T. to Chty., Bslt. v.v.F.T. (to Bslt. F.L.T.) w/ 3 intrvls., 40, 20 and 30 cm long of (Horn., Fsp.P.), Fsp. (Horn. MicroP., "glassy" to sub-glassy Bslt. as described for 33.5 to 34.6.	673	34.6	35.3	<0.002	0.05	194	1	51	

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 5 Started _____ Completed _____ Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
From	To							Au	Ag	Cu	Pb	Zn		
34.6	38.9	(cont'd)	3+, thin (to ~10 cm.) intrvls. w/ 10 to 50% F.L. clsts. of M.-dk., sub-sub translucent, gy.-grn. (Horn., Fsp. P.), Fsp. MicroP., sub-glassy Bslt.. Basal contact appears sharp between overlying Bslt. L.T. & underlying Bslt. v.F.T.. All of grading apparent, (6 or 8 places; M.L.T. grading to v.F.L.T. to F. xtl. T. to v.v.F.T. & sharp contacts between L.T. & cherty, v.v.F.T.), indicates tops of bds. are in down-hole direction. Bdng. to C.A. at 60°, except at v. top of unit, bdng. at 10° to C.A. 70 cm. mod. broken core at 35.2 (top of intrvl.).					oz/t	oz/t	ppm	ppm	ppm		
38.9	41.6		Bslt. flows?: 3? or more flows, perhaps 1.3, 0.45 & 1 m wide, of M. to M.-dk. (/wht. speckled), Fsp., Horn. MicroP., "glassy" (to v.F. xtl.) Bslt. (to dk. gy.-grn., "glassy" Bslt., as selvages): 3, drk. gy-grn., "glassy" Bslt. selvages distinct: aprx. 1, 1.5 & 35 cm wide. "glassy" grndms. varies from aprx. 30% to few %. Bslt. gen. w/3-7%, 1 to 1.5 mm dia., irreg., wht., diss. spots that appear to be altrn. spots (definitely not Fsp. phenos.) of s. cal.-altrn. (s. reaction to HCl). @ 40.2, possible flow selvage (~1 cm tk.) @ 70° to C.A. @ 41.5, 0 to 1 cm tk., discontinuous band of semi-Msv. F. (to M. to C.) grn'd Py. that pinches out 2/3rds way across core. Py. w/~10%, clear gy. felsic?? grndms. & one patch of v.F. grn'd. Cpy.? (3 x 5 mm); Py. somewhat vuggy & weathered;											
				674	40.8	41.5	40.002	0.06	48	1	63			
				675	41.5	41.66	0.035	0.31	5200	184	472			

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 6 Started _____ Completed _____ Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
From	To							Au	Ag	Cu	Pb	Zn		
38.9	41.6	(cont'd)	occurs aprx. 8 cm up from base of flow? unit, & oriented aprx. 60° to C.A., but band w/ irreg. boundaries. 16 cm long zone, from Py. band described above, thru basal contact of unit & into top of underlying unit w/ approx. 3-4% diss. & stg. or patchy Py. Basal contact marked by 11-12 mm tk. zone of qtz. vnlt. (w/ chl'c. seams) @ 35° to C.A.. 25 cm of mod. broken core @ 41.5 m.					oz/t	oz/t	ppm	ppm	ppm		
41.6	59.0		(Horn., Fsp. P.), Fsp. (Horn.) MicroP., Bslt. T.A.L. to T.L.A.: clsts. gen. relatively distinct; consist of variations (high degree) of sub-sub-translucent to sub-translucent, dk to M.-dk. gy.-grn. (to near blk.) (to opaq., lt. grn.-gy to near wht.), var. chl.-, sauss.-altr'd., (Horn., Fsp. P.), Fsp., Horn. MicroP., sub-glassy (to "glassy" & opaq.) Bslt. (to v.F. xtl. Bslt.); gen. clsts sub-ang. to ang. w/ irreg. outlines; few L. clsts w/ 1 to 2% diss. F. grn'd Py.. Textures of dkst. clasts. gen. poorly distinct. Few clsts. of M.-dk. gy.-grn., sub-translucent, Fsp. (Horn. P.), Fsp. MicroP., glassy, Bslt. w/ 10% completely, olv.-grn. Ep.-altr'd. fsp. phenos.. Matrix: aprx. 5 to 10% (appears to increase downhole); gen. lighter coloured than clsts. - gen. M.-gy.-grn.; appears to be ((Horn., Fsp.P)), Fsp., (Horn.) MicroP., "glassy Bslt. T. w/ xtl. frags. w/ var. % (5 to 15%) ash? sub-matrix, where low % of matrix, clsts. form jig-saw mosaic as if clsts. still malable when deposited & pressed together.				~100							
				676	41.66	42.7		0.002	0.07	100	1	100		

DIAMOND DRILL RECORD

Hole No. 84-2 Sheet 9 Started _____ Completed _____ Logged by G. Benvenuto Property THISTLE (NTS 92F/2E)

Meters		Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
From	To							Au	Ag	Cu	Pb	Zn
82.7	84.9		(Aug.?, Fsp. P.) 'andesite': splotchy, opaq., lt. creamy buff-gy to M.-lt. grn.-gy. (pale grn. spotted), (Aug.?, Fsp. P.), Fsp. MicroP., "glassy" 'andesite': 3-4%, sub-translucent, pale M. drab grn., Aug.? or diopside? phenos. to 2x3 mm., sev. w/ pseudo-hexagonal x-sections & probably are completely altr'd. Horn. phenos. - difficult to tell from sub-translucent (grn.-) gy. Fsp. phenos.; 'andesite' resembles v.s. Sauss.-altr'd version of up-hole Bslt.. Aprx. 2-4% (loc. to 10%), irreg. to planar Qtz. vnlt. paper-thin to 4 mm tk. of irreg. stg.-like zones of 0.5 to 4 mm tk. drab Ep. vnlt. Basal contact: aprx. 22 cm wide zone of v.s. Bxn. & "mylonitization" w/ abund. stg.-like vnlt. of drab Ep. & Ep.-altrn. zones; Rx. becomes increasingly dkr. (gy-grn) over 22 cm intrvl.	679	82.7	83.4		0.002	0.03	24	1	33
84.9	107.9	E.O.H. (354 ft.)	Msv. 'diabase': M. to M.-dk. (to M.-lt.) grn.-gy. (to blue-grn., olv.-grn.-gy)/ blk. speckled, F. to M. xtn., Fsp.-Horn.-(leucoxene-uralite?-Magt.-Py.-) 'diabase' var. Ep.-altr'd; minor to 0.25%, v.F. diss. Py. & tr. diss., v.F. grn'd. Cpy..Minor, discontinuous, v.F. grnd. Frct.-Py. (frct. 0.25 mm tk.). Gen. non-magt'c.; 2 or 3 intrvls. to 1 m long of mod. to wkly. Magt'c.; Upr. 3 mm gen. mod. to v.s. Ep. or Sauss.-altr'd., F. xtn. Bslt.; Py'c. vnlt.: @ 85.1 m: 3 cm tk. intrvl. @ 50° to C.A. w/ ~15% v.F. to F. grn'd., Msv. Py. patches to 1.5 cm wide; Py. patches v. irreg. distributed, w/ few %, v.F. to F. grn'd., diss. Cpy & one,	680	84.6	85.6		0.008	0.06	630	1	46

DIAMOND DRILL RECORD

Hole No. 84-3 Sheet 7 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
58.8	73.1		Horn.P. Bslt. T.L.A.: clsts. predom. M.gy.-grn. (→ 1f.gy.-), somewhat v. Ep. altr'd, Horn.P., Fsp. (Horn.) MicroP., "glassy" Bslt.; individual clsts. only loc. distinct (up to 20cm. long); frequent intrvls. of mod. (→ s.) broken core throughout unit and v.s.Ep. altrn. and Ep. vnlt. w/in top 1.6m, mask most of clstc. textures. Two, Horn.P. Bslt. clsts. w/ ~ 5%, wht. mineral-filled, 1 → 4mm dia. amgs.?. Sev. clsts. to 7cm. dia. of dk. gy.-grn., Fsp.?, (Horn.)P., v.v.F.xtln. Bslt. w/aprx. 10%, 0.5 to 2.5mm dia., nearly completely olv.grn. Ep-altrd., Fsp.? phenos.. One 7cm. dia. clst. of sub-transluscent., M.gy./olv-grn. speckled, Fsp.P., Fsp., (Horn.) MicroP., sub-glassy, andesite? w/ 1 → 2cm. rim? of clst. w/ aprx. 1 → 3%, v.v.F. diss.Py.. One clst. 20cm long of M. gy.-grn/blk/olv/grn. speckled., Fsp., Horn.P., v.v.F → v.F. xtln. Bslt. w/ aprx. 10% completely Ep.-altr'd. Fsp. phenos. to 3x4 mm, + aprx. 7% Horn. phenos., 0.5 mm ∅ → 1x2 mm. Matrix in one piece appears to be ~ 70% Fsp. (&Horn) F. → v.F.xtl. frags. in sub-matrix of M. gy-grn. ash?. 20cm. of tan, silty mud @66.1m (no core lost) Bslt. dyke at 59.4, 32cm. long, as described above (w/ Horn. P., "glassy" Bslt. selvages and Amg'l. core); top contact at 60° to C.A.. Bottom 3m of T.L.A. w/ 5%, Ep. altrn.&irreg., stg-like vnlt. that mask most textures and could be A.L.T..	689	58.8	59.4		0.002	0.01	28	1	64

DIAMOND DRILL RECORD

Hole No. 84-3 Sheet 8 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
73.1	77.4		Andesite?, (Bslt'c. Cht.) lithic? L.? T.: M.gy-grn./lt. drab olv.grn/ v.dk. grn. speckled. T. that appears to be composed mostly of v. poorly distinct, M.T. → F.L.? clsts? of M-lt. gy-grn., sub-sub- translucent., Fsp. ((Horn.)) P., Fsp. MicroP., sub-glassy andesite (mod.hard) with no matrix distinct. Approx. 3% M. grn-gy. ((→ v.dk. gy-grn.)) Bslt'c., Cht. → v. chty., Bslt. v.v. F. T., loc. subtly lam'd, as scattered F.L. → F.A. clsts. (to 9cm. long) and as interlayers (loc. broken apart), 0.7mm → aprx. 7 cm. thick, gen. 0 → 25° to C.A. (one at 10° to C.A.). Bottom contact may be gradational.	690	73.1	73.8	<0.002	<0.01	28	1	72	
77.4	84.5		Andesite?, Horn.P. Bslt. T.A.L. or T.L.A.: clsts. loc. v.distinct but much of rx.w/ v.s.Ep-altrn. & Ep. stg-like vnits. that mask texture: clsts: heterolithic; M. gy/olv.grn. spotted, sub-translucent. Fsp. ((Horn.)) P., Fsp. MicroP., sub-glassy andesite? (few % clsts. v.dk. gy-grn. and sub-translucent appear to be chl.-altr'd., Fsp.P., "glassy" andesite?; also M. gy-grn. (→ opaq. creamy wht.) Horn., (Fsp.)P., Fsp. MicroP., "glassy" Bslt. (→ gy-grn., Fsp., Horn. MicroP., "glassy" Bslt.). At 82.3m., 17cm long clst. of dk. gy-grn./lt.olv.grn. spotted sub-trachytic, Fsp. P., Fsp., (Horn.) MicroP., s.chl.altr'd., "glassy"	691	77.4	78.1	<0.002	<0.01	200	1	86	

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 1 Started October 14, 1984 Completed October 16, 1984
 Length: 137.2 m (450 ft.) Dip: -10° Bearing: 60° Logged by G. Benvenuto Property Thistle (NTS 92F/2E)
 Meters Elev. Collar: 745 m U.T.M. GRID COORDINATES Latitude: 5440233N Departure: 580377E

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
			Location: on east side of Thistle main road, 255 m along 318° from 300 adit of Thistle Mine.											
			Object: To test I.P. anomaly (on L200N, Thistle Mine grid) and favorable lithologies (Basaltic flows and 'andesite' intervals)											
0	0.3		Bslt. Flow?? lt. gy/blk. speckled ("salt & pepper") M.→F. xtln., Fsp.-Horn-Bslt.: Horn. appears relatively "fresh" and Fsp. mod. → s. altr'd; Bslt. does not resemble most Bslls. in area. (This rx. occurs as thin layers in S.W. wall of upper glory hole of Thistle Mine. At 0.1 m, 1 cm tk. flow?? selvages between 2 adjoining flows??, of near blk., v. f. xtln., Fsp.-Horn-Bslt., at 55° to C.A. Core mod. broken.				100%	Sperdy-Sun Tests						
								(m) depth	Inclin.	Direction				
								7.0	10°	60°				
								68.0	11.5°	57°				
								135.0	10.3°	55°				
0.3	24.5		Horn. P. Bslt. flows?? M.-dk.→dk. (mauve) grn-gy.[→M.-lt. (mauve)grn-gy], var. sauss?-altr'd, Horn. (Fsp.) P., Fsp. (Horn) Micro P. "glassy" Bslt.(→Fsp. (Horn) Micro P., "glassy" Bslt. (loc. sub-trachyitic)) flows?: loc. wk.(→s.) mag't. At 1.5 m, possible flow? selvage(s) aprx. 10 cm long, where dk. grn-gy, Horn (Fsp.) P., Fsp. (Horn) Micro P. "glassy" Bslt. grades over a few cms. into v. dk. grn-gy. Horn. Micro P., "glassy" (sub-sub-translucent) Bslt w/ aprx. 4% v. f. → M. diss. py.. Appears to be var. % Horn phenos. from aprx. 5→10%, range up to 2.5 x 4 mm, †. var. % Fsp. phenos. & microphenos. & var. %, "glassy" (to sub-glassy) grndms. (aprx. 30% to 5%).	694	1.5	2.2		<0.002	<0.01	237	1	32		

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 2 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
0.3	24.5	(cont)	Var. Sauss'c? altrn. between 6.0 & 8.3 m, yields splotchy coloured Bslt. (lt. grn-gy/ M. mauve-(grn) gy/dk. gy-grn); loc. altrn. patches (up to 10 cm long) have sharp boundaries that suggest clst. edge but Horn. phenos. straddle sharp altrn. boundary & gen. altrn. patches w/ "fuzzy" boundaries. Lighter colour makes Horn. phenos. prominent suggesting clsts, but false appearance due to var. altrn. At 4.3 m, Horn P., "glassy" Bslt. (as above) grades into 20 cm intrvl. of M. (mauve-blue) grn-gy/blk. spotted, M. xtn., Fsp. Horn. 'Diabase' (core of flow??). One 10 cm long area of v. s. sauss? altrn., of Horn P. Bslt. w/ mostly aligned Fsp. Micro phenos. and only few % "glassy" grndms. Overall aprx. 1-2% frcr., vnlts. and diss. py. but v. irreg. distributed: one zone at 1.5 m (top), 70 cm long w/ aprx. 1-2% diss., v. f. grnd. py. in irreg. patches to 5 mm dia. + few % frcr.-py. (irreg. to reg. frcrs. w/ msv. → semi-msv. py. in frcrs. to 2 mm tk. and zones to 5 mm tk., at 40-60° to C.A.). At 6.0 m → 8.2 m, intrvl. of var. sauss?-altrd. Bslt. w/ 2-3% Ep., Qtz. vnlts. & Ep. altrn. zones to 8 cm long, where aprx. 2% diss., v. f. grnd. py. in irreg. patches to 5x8 mm and as zone of msv. py., w/ v. irreg. boundaries, 1-2 cm tk., w/in 8 cm long zone of s. Ep. altrn. (py. zone at 55° to C.A.), and as irreg. stgs. and in frcrs. At 6.3 m, aprx. 15 cm long flow? selvage? of near blk., v. v. f. xtn.,											
				695	6.0	8.2		0.007	0.01	930	1	35		

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 7 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	As ppm	
28.6	28.75	(cont)	of layer. Upr. & lower contacts of msv. py. sharp but v. irreg. in detail. Py. overlain & underlain by 3 cm & 1.2 cm (respectively) of near blk., v. s. chl.-altr'd., v. v. f. grn'd. Bslt. w/ aprx. 4%, v. f.(→M.) diss. py. within 5 cm tk. zone, immediately down-hole from msv. py.; 3, aprx. 8 mm tk., somewhat irreg. Qtz. + cal. (+ Ep.) vnlt. at 50° to C.A. from 28.3 - 29.9 m, v. aprx. 7 cm of core lost.											
28.75	29.7		Horn., Fsp. P., Fsp. Micro P., "glassy" Bslt.: M.-lt.(→M.), sub-opaq., (blue-grn) buff-gy/v. dk. grn. spotted, v. s. sauss.? altr'd. (somewhat var.), w/ v. pale blue-grn. tinged, Fsp. phenos. Resembles unit at 26.4 to 28.6 m, but more s. sauss.? altr'd. Bottom 10 cm, less s. sauss?-altr'd., but slightly chl.-altr'd.; rx. appears micro bx'd. & slightly translucent. Minor → 0.5%, patchy, diss.-py. & frcr - py. thruout, Aprx. 2-3%, wht. Qtz. + cal. (+Ep.) vnlt.:	556	28.75	28.94		0.012	0.11	385	16	48		
				705	28.94	29.5		<0.002	0.01	55	1	23		
29.7	29.9		20 cm long intrvl. of mod. - s. broken core somewhat weathered, (chips to pieces 3 cm long, which is ground) of py'c., mod. sheared, v. s. chl.-altr'd. (Horn P.), v.v.f. grn'd. Bslt.: py. overall v. aprx. 15% but irreg. distributed, diss., patchy stg. & as semi-msv. py. in 2 or 3, v. irreg. bands 1 - 1.5 cm tk. (some w/ to 10%, wht. (pale salmon pink) Qtz. + cal. matrix). Up-hole contact partially intact: appears gradational, in part, from chl.-altr'd. Bslt. into Bslt. of 28.75 - 29.7 m,	557	29.5	29.7		0.008	0.07	87	15	35		
				554	29.7	29.9		0.234	0.73	216%	7	143	190	

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 9 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
33.3	34.4		Fsp., Horn. P. → Fsp., Aug? (or diopside) P., Fsp. Micro P., "glassy" 'andesite'	707	33.3	34.4	<0.002	<0.01	51	1	17		
			T. A. or flow? Bx.: resembles 29.9 - 31.7 m except in upr. aprx. 90 cm, Horn. phenos. preserved in v. s. sauss'c. "glassy" grndms., but become gradually more altr'd. down-hole to Aug.? or diopside.										
34.4	40.1		Horn., Fsp. P., Fsp. Micro P., "glassy" Bslt. T.L.A. or flow? Bx.: clsts. gen. poorly distinct, loc. v. distinct; somewhat var. Ep.-altr'd. and vary from M.-dk.→M. gy-grn; % of Horn. phenos. & % of "glassy" grndms. varies between clsts. Aprx. 10→15% clsts. of v. dk. mauve-grn-gy, s. magt'c., (Horn, Fsp. P.), Fsp., Horn. Micro P., sub-glassy Bslt. apparently w/ few %, v. v. f. diss. Magt. (barely discernible). Matrix v. loc. apparent but textures uncertain: loc. appears to resemble clsts. but w/ less % Horn. grns. and var. % of ash? sub-matrix (down to few %?) between Fsp. microporphycrysts; loc. appears slightly translucent but also somewhat 'frosty'; matrix apparently can be lighter or dkr. coloured than clsts. Gen. aprx. 1% diss. (predom.) & frcr. py.: py. v. f. grn'd, in irreg. patches up to 7 mm dia. but gen. in patches 0.5 - 1.5 mm.	708	34.4	35.1	<0.002	<0.01	115	1	19		
40.1	48.2		Horn. (Fsp.) P. to Aug?, Fsp. P.(→Fsp. P.), Fsp. Micro P., "glassy" 'andesite' T.L.A. clsts. loc. v. distinct; vary in colour from lt. tan/blk./pale blue-grn-spotted to M. buff-gy/v. dk. grn. spotted/v. pale blue-grn. (Fsp.) speckled. % and size of	709	40.1	40.8	<0.002	<0.01	73	1	14		

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 10 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
40.1	48.2	(cont)	Horn. & Fsp. phenos. varies considerably amongst clsts. (2→15%); Horn.gen. partly → nearly completely altr'd. Matrix in 2 pieces is M. blue-grn-gy. (Fsp., Horn. P.), Fsp. Micro P., ("glassy") 'andesite' xtl. T. w/ only few % ash? between xtl. frags. resembles clsts. but less % "glass" (as ash). This T.L.A. resembles that at 34.4 → 40.1 except here clsts. & matrix are more strongly sauss.?-altr'd. Loc. Horn. phenos. appear completely altr'd to Aug.? or diopside. Loc. few L.→F. A. clsts. of M.-lt.→ M. gy-blue-grn(→lt opa. tan→M.gy), Fsp. P., Fsp. Micro P. "glassy" 'andesite'. At bottom, grades over aprx. 20 cm into basal 30 cm of M. buff-gy., Horn. P. Bslt. T.L.A. (aprx.). Basal contact marked by 5 cm tk. intrvl. of Bxn. and aprx. 50% anastomotic olv.-grn. Ep. stgs. w/ few % wisps of v. f. grn'd. py., at aprx. 60° to C.A.									
48.2	54.3		F.→M. xtl., Fsp.-Horn-'diabase' flow??: at top, 1→2 cm, near blk., mod.→s. chl.- altr'd. (Horn. P.), "glassy"? Bslt. flow? selvage? w/ 2 → 4 mm tk. Qtz. + cal. + py. vnl. (Py. as discontinuous lenses up to 1x2.5 cm, forming aprx. 5→7% over 2 cm zone), at v. aprx. 55° to C.A. grades over few mms. into Fsp. (Horn) P., Fsp. Micro P., "glassy" → sub-glassy Bslt. zone aprx. 30 cm long, which appears to grade rapidly down-hole into 'diabase'. 'Diabase': splotchy, patchy M. → M.-lt. → M.-dk., tan-blue-grn-gy (dk. brwn-gy/lt. blue-grn-gy spotted (Fsp.)) and var. Ep. altr'd.,	710	48.6	49.3	<0.002	<0.01	31	1	15	

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 11 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
48.2	54.3	(cont)	Textures gen. poorly distinct, but appears to be mostly F. → M. xtln. Fsp., w/ 5→7% interstitial Horn. (loc. as few % phenos) & perhaps few %, glassy gndms. (loc. up to 15%) between Fsp. xtlns., Fsp. xtlns. have v. indistinct boundaries. Gen. 1→3% v. f. grnd. py., diss., but in v. irreg. patches or areas. Zones of Bxn. and var. Ep.? altrn. of frags. and zones between frags., relatively com.. Overall aprx. 3%, Qtz. (+ cal.) (and Ep. + Pumpellyite?) veinlts.: gen. v. irreg., discontinuous. Brown-gy colour that occurs in zones of patches may be due to altrn. of interstitial Horn. to uralite??. Basal contact appears gradational over 15→25 cm, w/ increase in "glassy" grndms.; next down-hole unit probably? part of same flow.										
54.3	60.5		Fsp. [Aug.?, (Horn)] P., Fsp. (Aug?) Micro P., "glassy" 'andesite': patchy, splotchy lt. → M. tan-gy (dk. brown-gy)/ sub-translucent dk., drab grn. (Aug?)/ lt. pale blue-grn-wht. (Fsp.) spotted & speckled, var. Ep? altr'd; resembles 48.2 - 54.3 m but greater % "glassy" grndms. (10→25%); patchy sauss? altrn. loc. gives appearance of clsts., as does zones of Bxn. w/ var. altrn. of frags. & "matrix". Basal 1.1 m, maf. phenos. are partly altr'd. Horn. Basal contact appears gradational over v. aprx. 10cm. At aprx. 57.2 → 59.4, 'andesite' appears micro Bx'd., & contains v. aprx. 1→3%, v. f. → f. diss. py. Aprx. 3% overall, Qtz. (+ cal.) (of Ep.) vnits. & irreg. patchy altrn.	(Miss latch tag at 54.5 m (measuring down) or 55.9 m (measuring up) from nearest tags.)									
				711	57.2	59.4		0.002	<0.01	140	1	21	

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 12 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
54.3	60.5	(cont)	vnlt. up to 1.5 cm tk., gen. irregular, discontinuous, pinch & swell, branching to web-like network.											
60.5	61.2		F. → v. f. xtl. n., Fsp.-(altr'd Horn) 'andesite' or Bslt. (Horn P.), Fsp. Micro P., "glassy" Bslt.): wkly. colour graded from M.-dk. grn-gy (top) to M.-lt. → M. (grn-buff-gy (middle) → dk. (brn)gy. (2.5 cm band, 23 cm from base 'unit') → M.-lt. → M. grn-buff-gy. (basal 15 cm). Colour banding and grading appears to result from var. altrn. of Horn. (dkr. colours - less altr'd sections.) Rx. appears to be v. f. → F. xtl. n. Fsp. w/ aprx. 5% interstitial Horn. Basal 15 cm is M. grn-buff-gy (→dk. gy-grn) and appears "glassy" (v. v. f. sugary texture). This 'unit' may be flow? selvage? to up-hole unit. At 7 cm up-hole from base of 'unit', patch of s. sauss?-altrn suggests aprx. 3 cm or more, intrvl. of (Horn P.), Fsp. Micro P., "glassy" → sub-glassy Bslt. Basal 7 cm of unit is M.-dk. → v. dk. grn-gy., mod. → s. chl.-altr'd., (Horn P.), v. f. xtl. n.? Bslt. w/ 4 or 5 Qtz. vnlt. (in part discontinuous) to 2 mm tk. (at 65° to C.A.) + aprx. 3-4%, v. f. grn'd py. in irreg. patches to 3x15 mm (gen., py. loc. in areas of strongest chl.-altrn.) chl.-altr'd intrvl. appears micro-sheared or foliated.											
				712	59.4	60.9	<0.002	<0.01	63	1	18			
				559	60.9	61.2	0.008	0.09	35	12	48			
61.2	61.42		Py. - Qtz.-Cal.-Bslt. intrvl.: 22 cm long: v. irregularly distributed, v. f. → M. (→C.) grn'd py., gen. in v. irreg. patches & wispy zones, 1-10 mm tk.,	560	61.2	61.42	0.014	0.11	36	18	28			

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 14 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
61.60	61.65	(cont)	but eradically over aprx. 1 cm.											
61.65	63.7		(Horn, Fsp. P.), Fsp., (Horn) Micro P., "glassy" Bslt. T.L.A. → T.L.: clsts. v. distinct in lower half of unit: T.L.A. (poorly distinct) appears to grade down-hole (rapidly?) into 70 cm of T.L.. Clsts. are highly var. Ep., and chl.-altr'd. (in T.L.) and vary from M. → M.-lt. gy-grn. → lt. buff-gy → near wht. → near blk. Considerable variation amongst clsts. in % Horn. and Fsp. phenos. and Microphenos.. Clsts. gen. sub-ang. and irreg. in outline; 6+, L. clsts. of v. drab, M. → M.-lt. grn-gy → buff-gy, Bslt'c. cht. → cht. Only few %, near blk. s.chl.altr'd. Bslt. clsts.. Loc., individual clsts. are var. sauss? - chl.-altr'd. At base of unit, 16 cm of M. grn-gy, Fsp.- (Horn) Bslt. f. → v. f. xtl. T. w/ few %. M. → C.T.-sized clsts. of opaq. wht., Fsp., (Horn) Micro P., "glassy" Bslt. Basal contact marked by up to 2 cm of either v. v. s. Ep. altrn. or M. - lt. grn-gy-tan., Bslt'c. cht.?. Matrix appears to be M. → M.-dk. gy-grn., Fsp.-Horn-Bslt. f. → v. f. xtl. T.	563	61.65	61.88	0.014	0.03	77	11	88			
				713	61.88	63.7	<0.002	<0.01	28	1	36			
63.7	64.6		(Amg'l) Bslt. dyke?: M.-dk. brwn-gy/v. v. f. opaq. wht. speckled, v. v. f. xtl., Fsp.-Maf-Bslt.: maf. is v. pale, translucent honey brwn; aprx. 4%, v. v. f., opaq. wht. leucoxene dits ; up to aprx. 3%, chl.-filled amgs. to 1x3 mm, in centre of dyke?. Contact relations not distinct.	714	63.7	64.6	<0.002	<0.01	44	1	46			
64.6	66.1		(Horn, Fsp. P.), Fsp. (Horn) Micro P., "glassy" Bslt. T.L.A. or T.A.L.: clsts. loc.	715	64.6	65.9	<0.002	<0.01	62	1	47			

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 15 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
64.6	66.1	(cont)	v. distinct; gen. var. Ep., or chl.-altr'd, and M. → M.-lt. (→M.-dk.) gy-grn→grn-gy; var. % Horn. of Fsp. phenos. amongst clsts. but gen. less than 7% Horn. phenos; Matrix loc. distinct, appears to be M.-dk., gy-grn, mod. chl.-altr'd., (Horn, Fsp. P.), Fsp. (Horn) Micro P., "glassy" Bslt. lithic and xtl. T. Base of unit marked by 16 cm long layer of bx'd., M-dk., gy-grn. cht. apparently in sharp contact w/ next down-hole unit; upr. contact of cht. layer at 45° to C.A..	716	65.91	66.07	<0.002	<0.01	81	1	44		
66.1	70.1		Sub-glassy, (Horn. Micro P.) Bslt.: M.-dk.(→M.) gy-grn; upr. 1.9 m, w/ aprx. 3→6%, sub-subtranslucent wht., "fuzzy", devitrification?? spots to 4 mm Ø. Textures v. poorly distinct; Bslt. has "foggy", sub-subtranslucent look; loc. few % Horn. Micro phenos. apparent.	564	66.07	66.25	0.012	0.11	810	19	202		
			At 66.25 m., msv. → semi-msv. py. occupying v. irreg. volume w/ width from 4 to 12 cm, and possibly frcr.-controlled. Consists of v. f. → M.(→C.) grn'd py. w/ few%	565	66.25	66.33	0.284	0.60	1200	37	120		
			v. v. f. grn'd. interstitial cal. w/in msv. py. zone, 2, v. irreg. inclusions of "glassy" Bslt., in part cored by, in part surrounded by wht. qtz: inclusions 1x2 and 2x4 cm. Contact of msv. py. & flanking "glassy" Bslt. v. sharp but v. irreg. in detail; lower contact, moderately planar and at 30° to C.A.	563	66.33	66.59	0.018	0.28	64	18	112		
			At 67.0, 2nd band of msv. py., 1.5 - 2.5 cm tk., at 30° to C.A.. py.: v. f. → f. (→M.→C.) grn'd; w/ aprx. 2→3%, cal.-altr'd.?, Bslt.? matrix. Py. cut by numerous	717	66.59	67.0	0.006	0.01	174	1	187		
				567	67.0	67.02	0.254	0.63	7300	100	145		
				718	67.02	67.9	0.009	0.03	320	1	213		

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 16 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
66.1	70.1	(cont)	stg.-like zones from 0.5 → 5 mm tk. of v. v. f. grn'd py. in v. aprx. 50% Ep??											
			matrix. Up-hole contact between msv. py. & "glassy" Bslt. marked by 2 mm tk.											
			zone of v. fine, stg.-like vnlt.s. of ultra fine grn'd. Ep..Lwr.. contact w/ "glassy"											
			Bslt., somewhat irreg. & interpenetrating. This py. band probably frcr.-controlled.											
			At 67.9 m: another band of frcr.-py.; 1.2 → 2.5 cm tk., at 30° to C.A.. Py. msv.	568	67.9	68.0	0.226	1.91	4.03%	42	2.22%			
			except for few thin irreg. lenses of qtz. + cal. and a few, wispy lams. of Hem?	719	68.0	69.8	0.007	0.09	650	6	830			
			Down-hole contact between msv. py. band and "glassy" Bslt. in part marked by 6 mm tk.											
			zone of v. v. f. grn'd py. w/ Ep?? matrix.											
			At 68.3 m, irreg. band of frcr.-py., aprx. 11→12 mm tk., at aprx. 50° to C.A.; py.:											
			v. f. → f.(→M.) grn'd., & w/ few %, v. f. grn'd. Ep?? matrix. Contact of msv.											
			py. w/ "glassy" Bslt. very irreg. in detail, w/ patchy py. occurring w/in Bslt.,											
			up to 2 cm up-hole from main py. band.											
			Basal contact of unit at aprx. 15 cm long zone of sub-pervasive, olv-grn. Ep. stg.-											
			like vnlt.s. and one Ep. vnlt, 1 cm tk., at 60° to C.A. & adjoining 1cm tk. qtz. +											
			cal. vnlt. at 60° to C.A.											
			At 69.8 m, 19 cm long intrvl. of broken, "glassy" Bslt. w/ aprx. 6, v. irreg. bands	569	69.8	69.99	0.056	0.50	6600	18	1.27%			
			of msv. py. (frcr.-controlled) from 0.5 → 1.5 cm tk., bands appear bx'd & sheared &											
			quite irreg. shaped. One band at 50° to C.A.											

(0.65%)

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 18 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
110.8	112.0		'Diabase': v. s. sauss?- (Pumpellyite?) altr'd., splotchy & patchy lt. blue-grn-gy- M. brwn-gy., M. xtl. (Horn. P.), Fsp.-Horn-'Diabase'. At 111.7 m, 10 cm wide zone of wk. chl.-altrn. + 5% Ep., and qtz. vnlts. (irreg.) + 2% patchy py..	723	111.7	112.0	0.002	0.01	720	1	49		
112.0	113.6		Thin?, (Py'c.) Bslt. flows??: perhaps 4 flows, perhaps 50, 30 25 & 50 cm wide. Textures gen. v. poorly distinct (due to chl. altrn.). Most of Bslt. may be (Horn, Fsp. P.) Fsp. Micro P., "glassy" Bslt., gen. dk. gy-grn. & mod. chl.-altr'd; Flows? w/ 3, 3 & 16 cm wide cores? of lt. → M.-lt. (grn)buff-gy, (Horn, Fsp. P.), Fsp. Micro P., "glassy" Bslt. that is s. sauss?-altr'd.. Selvages? consist of s. sheared or foliated (non-pervasive), v. s. chl.-altr'd., v. dk. gy-grn. Bslt. (possibly same texture as cores) w/ few %; diss., patchy, stg., and lensy py. as described below: at top of interval: 4 cm zone w/ aprx. 4% py.. At 45 → 64 cm from top of intrvl.: aprx. 5% py. (in lenses up to 4 mm tk., of diss. & patchy). At 74 cm from top of intrvl: 3 → 4 mm tk. band w/ aprx. 6%, v. f. diss. py. in Ep. matrix. At 110 cm from top, 5 cm zone w/ 5% py. in patches to 3x15 mm. At 137 → 148 cm from top of intrvl. (10→21 cm from base of intrvl.), aprx. 8% py. in few lensy patches to 4x40 mm & one large, very irreg. patch 2→40 mm wide. Upr. selvage? at 70° to C.A..	570	112.0	113.6	0.008	0.29	323	1	115		

DIAMOND DRILL RECORD

Hole No. 84-4 Sheet 19 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
113.6	123.7		Complex Bslt. T.L.A.: clsts. predom. variations of var. chl.-, sauss?-altr'd., dk.→M.-dk.(→M.-lt.) gy-grn. → grn-gy., (Horn, Fsp. P.), Fsp. Micro P., "glassy" Bslt. (w/ var. % of "glassy" grndms. & phenos.) & secondarily?: dk. grn-gy., (Horn P.) v. f. xtl. Bslt.; few A. clsts of Amg'l.?, v. f. xtl., Fsp.-Horn-Bslt. w/ 10→12%, v. irreg., olv-grn. Ep. filled Amgs. to 1x2 mm.; clsts' boundaries only loc. distinct. Matrix? in 2 places appears to be M.→dk., gy-grn, Horn P. Bslt. F. → v. f. xtl. T.?. In 2 places Matrix? appears as xtl. & "glassy" rx. frags. (F.→M. T.-sized) w/ "glassy" coatings & contains aprx. 1-2% patchy diss. py. At 123.3 m: 3→6 cm tk. zone of mod., chl.-altr'd Bslt. w/ 40% py. patches up to 1 cm tk. x 2.5 cm wide. Zone at 35° to C.A. Base of T.L.A. unit difficult to pick because of gen. Bxn. & var. Ep. altrn. of Bslt. At 118.0 (top), 30 cm of mod. broken core.										
123.7	132.5		(Horn P.), Fsp., Horn. Micro P., "glassy" Bslt. may be semi-msv., but subtle varia- tions in % Horn. phenos. (gen. 3%, 1x1 → 2x3 mm) and in % of "glassy" grndms.; Bslt. is M.-dk. → dk. grn.-buff-gy; somewhat bx'd & var. Ep.-altr'd.. Between 126.5 and aprx. 128.1; Bslt. cut by aprx. 0.5%, frcr.-py., py. forms aprx. 20→100% filling along 0.5 mm tk. frcrs. (frcr.-clvg.?) that are relatively consistent in orientation (60-75° to C.A.) and spaced gen. 0.5 → 2 cm apart (but to 20 cm).	571	127.0	127.5	0.003	0.01	33	1	48		

DIAMOND DRILL RECORD

Hole No. 84-5 Sheet 2 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
13.96	28.8		((Py'c.)), Horn., Fsp.P., Fsp. MicroP., "glassy" Bslt. T.L.A.: clsts. distinct; matrix appears to be ((Horn.P.)) Bslt. F.xtl.T.; aprx. 1 → 3%, irreg. distributed, patchy, diss. Py. (patches to 3x3mm), in upr. 4.2m.; largest distinct clst. 17cm. long. Basal contact is indistinct; rx. appears to become more msv. or clsts. become v. large. Matrix in one piece: ((Horn.P.)), Fsp. - (Horn.-) Bslt. F.xtl.? T..	575	13.96	14.3	<0.003	0.10	450	10	43	
			At 16.2m, 20 cm. long zone of nearly complete olv.grn. Ep.altrn. w/ 20 → 30%, irreg. distributed, patchy Py.: largest patch of semi-Msv. Py., 3x5cm and greater than 2.5cm tk..	576	16.2	16.4	0.012	0.17	385	13	39	
			At 14.6m (top), 50cm. intrvl. of mod. → s. broken core w/ mod.wthring. and mod. shearing.									
28.8	36.5		(Horn., Fsp.P.), Fsp. MicroP., "glassy" Bslt. flows?? : M.-dk. → dk. (→ M.) (blue-grn.-) mauve-gy; somewhat var. sauss? - pumpellyite? - altr'd; loc. wk. → mod. (→ s.) magt'c.; gen. 0.5 → 1%, irreg. distributed diss., patchy Py. At 21.9 (top), 80 cm. intrl. of M. (blue-grn.-) gy., sub-subtranslucent, F.? xtl., Fsp. - ((Horn.-)) Bslt..									
			Zones of chl.-altrn.: @24.2m., aprx. 25cm. intrvl. of wkly, sheared, v.dk. gy.-grn. mod. chl.-altr'd. Bslt. (as above?) w/few %, olv.grn. Ep. stgs..	726	31.3	32.05	0.002	0.03	250	1	46	

DIAMOND DRILL RECORD

Hole No. 84-5 Sheet 3 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
28.8	36.5	(cont.)	At 31.3m., aprx. 20cm. long intrvl. of chl.altrn. as described above.	577	32.05	32.3		0.034	0.15	2450	12	205		
			At 32.0m., 25 cm. intrvl. of wkly. chl-altr'd. Bslt. w/ 4%, v.irreg. distributed, patchy Py. in patches to 1.5x2.5cm., elongated at aprx. 50° to C.A. + patchy wht. → lt. pink Cal. + Qtz., loc. w/ Py. + one irreg. patch of v.F. grn'd Cpy., 1.5x8mm. Base of unit marked by 25cm. of lt. creamy-olv.-grn., nearly pervasive, Ep. altrn..	727	32.3	33.0	<0.002	0.03	167	1	32			
36.5	37.9		Thin → v. thin bedded?, graded, Fsp.-Horn.-(-Uralite?-altr'd-Horn?-) Bslt.? F. → v.F. xtl.T?; M. → M-dk. mauve-gy. → M-lt. olv-grn-gy/blk. speckled. Peculiar rx; all Fsp. xtls. v.s. sauss? -altr'd; few thin intrvls. w/ few % Horn. porphyroclsts?; upr. and lower 2cm., v.v.F. grn'd. Rx. could be banded dyke or flow. Bdnng? gen. at 30 → 45° to C.A.. Basal contact appears sharp.	728	36.5	37.9	<0.002	0.03	51	1	45			
37.9	57.4		(Horn., Fsp.) P., Fsp. (Horn) MicroP., sub-glassy, sub-trachytic andesite? flow??:dk. → M.-dk. (→ M) mauve-gy/blk.spotted/pale blue-grn. speckled (pumpellyite?- altr'd. Fsp. phenos.) → M. blue-grn.-mauve-gy.. Horn. and Fsp. pheno. % and distribution relatively irregular (2→3% → 10%) but no evidence for clsts.; Horn. phenos.: 0.5 → 4mm square, Grndms. may be loc. v.v.Extln? but gen. sub-sub-transluscent.	729	37.9	38.6	<0.002	0.01	103	1	23			

DIAMOND DRILL RECORD

Hole No. 84-6 Sheet 2 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
4.6	57.3	(cont.)	At 25.0m., msv. Magt. patch 5 → 10cm. wide. Magt. is v.v.dk. mauve-brwn. and v.v.F. grn'd.; boundaries of patch v. irreg. and Magt. becomes patchy (but loc. sharp-bounded) at contact zone w/ Bslt.. Magt. patch contains aprx. 3%, v. irreg. inclusions of lt. creamy gy. → near blk. (and s.chl-altr'd), v.F.grn'd. Bslt. + aprx. 2%, irreg. distributed, diss., patchy Py. (largest patch: 1x8mm.) Uphole-Bslt. in contact w/ Magt. patch is v.s. → mod. chl.-altr'd. (strongest chl.altrn. w/in 1 → 1.5cm. of Msv. Magt.). Bslt. w/in 10 → 17cm. uphole of Magt. patch also appears micro Bx'd, or sheared and w/ 5%, irreg. olv-grn. Ep. stgs. and vnlt. to 3mm tk.. Within 2→4cm. downhole of Magt. patch., Bslt. is wk→mod→s. chl.-altr'd. w/ strongest chl.-altrn. adjacent to Magt.. Bslt. above and below Magt. patch resembles (loc.) Bslt. of unit, but com. Micro Bx'd. and textures indistinct. At 26.26m., or 14cm downhole from base of Magt. patch at 25.0m., second zone w/ Magt. patches: zone 18cm long (within intrvl. of broken core) w/ v. aprx. 5 → 7%, v.v.F.grn'd. Magt. v. irreg. distributed as disseminations in v.irreg. patches; Bslt. w/in this intrvl. is mod. → s. chl-altr'd. and w/ 1% diss. Py. and contains aprx. 3%, v. irreg. patchy, discontinuous vnlt. of Cal. + Qtz. (late). Part of uphole Magt. patch (at 25.0M) contact w/ Bslt. (uphole) at 35° to C.A. - uphole contact chl.-altrn. zone + Magt. patches at 26.26m. w/ Bslt. at 25° to C.A.. Between 37.3 → 39.1m., zone of mod.-sauss? altrn. and Bslt. M. (blue-olv.-)grn-gy. speckled w/ olv.-grn. Ep-altr'd Fsp. phenos; Bslt. nearly same texture as above but grndms. appears Micro-xtln. (devitrified glass); zone cut by 4%, irreg. olv-grn. Ep. vnlt. & stgs.	580	25.0	25.46	<0	.003	0.01	240	1	40

DIAMOND DRILL RECORD

Hole No. 84-6 Sheet 4 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
63.1	94.6	(cont.)	Degree of Magt'c. quite variable over short intrvls; at 74.7m, base of last Magt'c. intrvl.. Minor patches of wk. → s. Magt'c. Bslt. below this (frcr-controlled). Rx. texturally resembles 57.3 → 63.1m. 63.1 → 64.3m: mod. → s. broken, sheared, somewhat wthr'd. core. At 65.1m: 30cm. intrvl. of Bslt. (as above) w/ aprx. 2 → 4% v.v.F. diss. Magt. + aprx. 3%, discontinuous Py. bands and stgs. from 0.2 → 5mm tk. (one band w/ aprx. 65% Py. in band 1cm. tk. x 10cm long) gen. at 20° to C.A. Non. Magt'c intrvl. 69.3 → 71.6m. 70.3 → 83.2m: Bslt. w/ aprx. 0.5 → 1.5% v.F. → F.diss.Py.. Bslt. gen. M. (→ M. - lt.) (grn.-) gy. and non-magt'c. w/2 intrvls. 12cm. and 1.45m long of dk. mauve-grn-gy., Bslt. w/ 1→2% (→ 3%), v.v.F. diss. Magt. down to 74.7m. at 70.45 → 70.66M: M.(grn-)gy. Bslt. w/ 1→2%, v.F. → F. diss. Py.. at 73.3 → 74.7m: dk. mauve-grn-gy. Bslt. w/aprx. 1→3%, v.v.F. diss. Magt. + 0.5 → 2%, diss. patchy Py. (in patches to 3x6mm) and at 74.0m., v. irreg., 0.5 → 3cm. tk. zone w/ 5% Py. in sev. patches (largest 1.2 x greater than 4cm.) + aprx. 25% v.v.F.grnd., dk. mauve Magt. in v.thin, branching and parallel stgs. + Cal.+Qtz; zone probably frcr-, or shear-controlled.										
				583	65.1	65.4	<0.003	0.08	30	1	40		
				584	70.45	70.65	<0.003	0.04	114	1	34		
				585	73.7	74.06	<0.003	0.12	590	1	50		
				736	75.3	76.06	<0.002	0.03	425	1	39		

DIAMOND DRILL RECORD

Hole No. 84-6 Sheet 6 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
94.6	102.7		(Horn., Fsp.P.), Fsp., (Horn., Magt.) MicroP., "glassy" Bslt.: M. → M-dk. (grn.-) mauve-gy., gen. wk. → mod. (→ non.) Magt'c., Horn. phenos., irreg. distributed, 1 → 4%, up to 2x2mm; grndms. appears ultra-fine grn'd. (devitrified?-glass) w/ tiny diss. of olv-grn. Ep.-altr'd Fsp?; loc. appears that grndms forms large % of rx. (aprx. 75%).										
			At 96.6 → 97.0m; dk. grn.-gy. wkly. chl.-altr'd., v.F.xtln. Bslt. w/ aprx. 2 → 3%, v.v.F. diss. Magt..	738	96.6	97.0	<0.002	0.05	88	1	32		
			Basal 2.8m of unit becomes increasingly micro bx'd. and veinlt'd. w/ 3→5%, v.irreg. discontinuous, straight to stepped to curved to patchy vnlts. of Cal. (+Qtz.), gen. less than 2mm tk. and often 0.2mm tk. + 2 frcrs. w/ discontinuous Py. lams. to 2mm tk. at 15° to C.A..										
102.7	103.55		Schistose, ((py'c.)), "andesite" F. xM.T.: streaky, wispy, v. delicately lam'd - lam-d, M. v. drab army grn./M-dk. gy-grn/opaq., drab army-grn/ opaq. M. purple-brown-gy. wek. + mod. schistose (or mylonitic), wkly. seri? - schl.-altr'd., Fsp. - 'andesite' F. xtl.T.: gen. 0.5 → 1%, v.v.F. diss. Py. in purple-brwn-gy. bands of v.v.s. Ep? altrn. and diss. (to 2%) in tuff; also few % irreg. patches of Cal.. Schistosity decreases in degree of pervasiveness down hole. Schistosity wavy (and loc. crenulated) but at gen. 25 → 40° to C. A..	588	102.7	103.55	<0.003	0.16	105	1	40		
				739	103.55	104.4	<0.002	0.03	108	1	54		

DIAMOND DRILL RECORD

Hole No. 84-7 Sheet 4 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
47.6	53.3	(cont.)	var. Ep.-altr'd.; few thin intrvls. where wk. → mod. Magt'c.. Com. zones of micro bxn.. Intrvls. 10, 30, 10 and 5cm. long of mod. (→ s.) broken, somewhat wthr'd., wkly. sheared core w/ some rust on shears & frcrs..											
			Basal 30cm. appears to become increasingly F. grn'd.downhole and marked by increasing (downhole) micro bxn. and w/ aprx. 1 → 3%, v.v.F. grnd. Py. along micro frcrs. (between? Fsp. xtls.).	591	53.0	53.3	<0.003	0.08	121	3	57			
			Basal contact poorly distinct due to Micro bxn., but picked where individual Fsp. xtl. frags.become apparent.											
53.9	54.9		Lam'd. → v. thin bdd., 'andesite' v.F. → v.v.F. T. (→ Chty., v.v.F.T. →'andesitic'Cht.): Colour-lam'd.and banded: drab M. → M.-dk. army-grn., M. → M.-lt. gy-grn., M. drab army-grn.-gy.-buff (→lt. creamy, opa. gy.-olv-grn. (Cht.)) and at 54.0 → 54.25m, w/ aprx. 10%, irreg. wispy lams.of v. dk. gy-grn., mod.→ s. chl'c.? altrn.. Textures poorly distinct because of mod. schistosity or v.s. micro bxn. (pseudo mylonitic), and loc. nearly pervasive altrn. to ultra-fine grnd., v. drab olv.-grn. Ep. altrn.. Distinct Chty., 'andesite' T. → 'andesitic' Cht. lams. 0.5 → 2mm tk., gen. at 50 → 75° to C.A. (parallel to fabric imparted by "mylonitization"). Tuff w/ aprx. 0.5 → 2%,	592	53.3	54.2	0.012	0.07	79	1	57			
				743	54.2	54.9	<0.002	0.04	254	1	53			

DIAMOND DRILL RECORD

Hole No. 84-7 Sheet 6 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
56.1	128.9	E.O.H.	core that has wthr'd. frcrs. (somewhat rusty) down to about 79m.											
	(423')	cont.	Loc. in coarser grn'd. intrvls. minor to perhaps 1/2% Qtz. grns. up to	744	57.0	58.05	<0.002	0.03	163	1	39			
			0.5mm. dia., and minor altr'd. Horn? grns.. More Chty. lams. and	594	58.05	58.03	0.010	0.01	72	1	52			
			beds com. appear micro-faulted (up to 4cm. offset apparent),											
			discontinuous and wavy.											
			At 58.3m. (top): 7→10cm. long intrvl. w/aprx. 70%, v.F. (→F.) grn'd,	595	58.3	58.41	0.018	0.04	1400	30	65			
			Msv. Py. patches that appear Bx'd., w/ aprx. 10%, irreg., patchy, wht.	596	58.41	58.71	<0.003	0.06	87	1	84			
			Qtz. + Cal. matrix and 20% patchy (to 1 x greater than 4cm.) irreg.											
			matrix. of s. Chl.-altr'd. 'andesite'? v. F. T.; contacts of											
			py'c. intrvl. v. irreg. and diffuse, though basal contact overall											
			at 50° to C.A.. Py'c. intrvl. probably frcr-controlled, but occurs											
			in intrvl. of mod. broken, somewhat sheared core & contact relations											
			obscure.											
			In coarsest bds. (F.xtl.T.) which only form aprx. 3% of succession,											
			tuff comprises mostly Fsp. (and "glass"??) (+ minor → 1% Horn.) xtl.											
			frags. + minor (→ 1%) Qtz. grns. w/ an opaq., "glass" coating or											
			ash matrix of 1 → 2%. Very loc., coarser bds. w/ minor → 1.5%,											
			v.F. → F. diss. Py..											
			Between 72.1 and 73.58m., interval of bdd. 'andesite' T. (wkly. schistose)	597	72.1	73.58	<0.003	0.12	76	1	90.			

DIAMOND DRILL RECORD

Hole No. 84-7 Sheet 7 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
56.1	128.0	(cont.)	w/ aprx. 10%, graphitic? lams., 1 to 8mm tk. (part of intrvl. from											
			66.2 → 73.9m w/ aprx. 8% graphitic? lams. gen. 2 → 4mm. loc. → 15mm	746	83.4	84.4	<0.002	0.03	95	1	43			
			tk.).											
			At 84.4 to 84.48m., aprx. 8cm. intrvl. w/2 intrvls. of diss., v.F - F.	598	84.4	84.49	0.008	0.11	480	9	55			
			grn'd. Py: one intrvl. 1 → 2cm. tk., at 55° (to 10°) to C.A.;	747	84.49	85.2	<0.002	0.03	70	1	39			
			w/ 20% diss. Py in basal, s. Cal.-altr'd., part of dk. gy-grn.,											
			v. F. T. bd., grading to aprx. 5% in upr. part of bd.; second interval											
			0 → 10mm tk. and within micro bx'd., 'andesitic' chert. bd. downhole from											
			first Py'c. interval 1.5 to 4cm., contains aprx. 5% diss. Py.											
			Py. probably fracture-controlled.											
			S. broken, and somewhat wthr'd. and sheared, core: 78.9 → 80.0m,											
			80.2 → 80.8m., 85.5 → 85.7m, 86.5 → 86.8m, 87.8 → 87.9m, 89.0 → 89.2m,											
			111.6 → 116.2m & 116.6 → 117.3m. 'Gougey, or clay-wthr'd intervals:											
			72.8m (8cm. wide), 74.1 (6cm. wide), 75.4m (13cm) and 78.6m (7cm).											
			Downhole from 79m, 'andesite' tuff, in gen. appears somewhat chertier and											
			in gen. finer grnd.. In addition, bdng. more reg. (than uphole) and											
			rx. not deformed, but 'micro-faulting' of chertier lams. still com.;											
			grading also more conspicuous (shows tops point uphole).	748	127.0	128.0	<0.002	0.05	68	1	49			

DIAMOND DRILL RECORD

Hole No. 84-7 Sheet 8 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	
56.1	128.9	(cont.)	At 128.0 → 128.8m., 'andesitic' tuff. mod. sheared (micro bx'd.)	599	128.0	128.8	0.010	0.11	1550	8	57		
			and w/ aprx. 2% Py., gen. w/in Qtz + Cal. vnlts. (to 2mm of Py.) and patches (to 13x25mm of Py.); intrvl. w/ aprx. 3→4% Qtz. + Cal. (+Py.) vnlts.: irreg. → sub-planar, gen. 1 → 5mm tk, but one zone of nearly 100% vnlts. (w/ 5% stg. Py.), at base of intrvl. 2 cm. tk., vnlts. (and shearing) gen. at 45 → 50° to C.A.. Also few % v.F. Ep. vnlts. and stgs..	749	128.8	128.9	<0.002	0.08	390	8	54		
			Graphitic? intrvls.: between 56.1 → 79.0m., gen. wispy, discontinuous, loc. contorted, and com. w/ minor → 1%, v.v.F. → F. diss. Py.. Below 79m. graphitic? intrvls. more reg., form tops to bds. (gradational increasing in % up bd.) and show ripples? at top. Graphitic? intrvls. occur at: 61.3 → 61.85m (5% graphitic? lams. to 5mm tk), 66.2 → 73.9m (8%, 2 → 4mm → 15mm (one zone 13cm long w/ 85% graphitic? lams)), 80.1 → 80.45m (20%), 84.6 - 86.4m (aprx. 7%; to 11cm tk. intrvl.), 90.0 → 90.4m (5%), 94.0 (5cm., 100%), 95.8 → 99.4m (5%), 103.9 → 108.6m (3%, 1mm → 2cm tk), and 111.6 → 126.9m (3%, 1mm to 2.5cm (to 11cm)).										
			Sev. floating? slump? blocks of Chty., graphitic?, lam'd. tuff to 4cm. tk. (gen. occurring at base of coarser grnd. tuff bd.).										
				745	66.2	67.2	<0.002	0.05	67	1	78		

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 1 Started October 21, 1984 Completed October 24/84 Logged by G. Benvenuto Property Thistle (NTS 92F/2E)
 Length: 199m Dip: 00° Bearing: 062° Latitude: 5440080N Departure: 580397E (UTM grid coordinates)
 Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
			Elev. Collar: 728M Location: East side of Thistle Main Road; 154.5m. south of D.D.H. 84-4, 156m along 283° Az. from 300 adit of Thistle mine; 52m along 211° Az from D.D.H. - #3 of Vananda Exploration (1965). Object: To test area just below (aprx. 30m) intersections in D.D.H. - #3, drilled by Vananda Exploration (1965) of 3, 6" sections of Py., that were not assayed; also to test broad zone of high chargeabilities and lower resistivities on trend with Thistle mine.											
0	6.4		overburden (hole made 1.2 to 1.8m of water at collar)											
6.4	27.1		Bdd., Bslt. T. → Chty. T. : M. - tk. → thin → v. thin bdd. (→ lam'd), interbedded → graded, M.-dk. → M. buff-gy.-grn. → grn.-buff-gy. (→ M.-lt. → lt. drab, creamy army-grn. → yel.-gy.-buff), ((Py'c.)), ((Horn.P.)), Fsp. - (Horn.-) Bslt. F.xtl.T. →) (Chty.) Bslt. v.F.T. → Cherty., Bslt. v.v. F . T. (→ Bslt'c. Cht. → Cht.): distinct bdng. fairly com.; appears loc. "micro-faulted"; chertier intervls. com. Bx'd.. F. xtl. T. intrvls. (6.4 → 6.8m; 16.2 → 17.7m) w/ minor → 1% Horn. porpyroclsts. + few %, M.T. → F.L. clsts. of opaq. M. → M.-lt. gy.-grn. → lt. creamy yel. Bslt'c. Cht? → Cht.. Py: aprx. 1 → 1.5%, v.v.F. → v.F. → F. diss., appears uniformly distributed throughout. "representative" sample at 10.6 → 11.2 of thin. → v. thin bdd. (→ lam'd), Chty., Bslt. v.F.T. (→ Bslt'c.Cht.). Bdng: 60, 55, 40, 25, and 55° to C.A.. Grading (coarser grnd.T.- Bslt'c. Cht. contacts) suggests tops of bds. point downhole.	600	10.6	11.2	<0.003	0.14	145	1	42			

SPERRY-SUN TESTS
 (m)
 Depth Inclin. Direction
 10 2 tries-both failed
 76.2 00° 300° ???*
 137.2 +0.3° 132° ???*
 199.0 +3.4° 100° *
 *should be aprx. 062° Az; magnetic rock in hole.

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 4 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
50.3	61.5	(cont.)	+ Py ± Cpy. vnlts..											
			Intrvls. are as follows: at 50.3m: 1 → 2cm. tk., 15 - 45° to C.A.;	750	50.3	51.45	40.002	0.03	23	1	45			
			at 50.45m, 15cm wide, at 45° (upr. contact) and 70° (lower contact)											
			to C.A.; at 50.9m, 14 → 7cm wide, at 20° (upr.) and 60° (lwr.) to C.A.,											
			w/2 zones, 2mm tk. and 3mm apart, of patchy, v.F. → F. grn'd. Py., in											
			centre of intrvl., at 85° to C.A.; at 51.35m, 1.5 → 3.5 cm. tk. intrvl.											
			at 65° (upr.) and 45° (lwr. contact) to C.A. w/ aprx. 1.5%, F. diss. Py;	601	51.45	51.65	0.010	0.09	100	1	70			
			at 51.45m, 15cm. wide intrvl., at 45° to C.A. (lwr. contact), w/ aprx.	501	51.65	52.8	0.002	0.05	272	7	41			
			2% F. → M. diss. Py. & one discontinuous lam. of Py., 1.5x30mm + aprx.	502	52.8	54.07	40.002	0.01	153	8	32			
			1 → 2%, v.F. dits of M.-dk. brick-red; at 51.62m.,											
			3 cm. tk. intrvl. (2cm below last uphole one) at 50° (upr.) and 45°	602	54.07	54.4	(diab)	0.008	0.05	52	2	35		
			(lwr. contact) to C.A.. At 54.4m (top), 50cm wide intrvl.; at 70° to	603	54.4	54.9	((py'c Horn Diab.)	0.010	0.07	80	1	87		
			C.A. (upr. and lwr. contacts), w/ 2% (to 4% in upr. 7cm), v.F. → F.	604	54.95	55.16	(Diab)	0.006	0.07	14	1	33		
			diss. Py. + at 8cm from top of intrvl., 1 → 2.5cm tk. irreg. zone of	503	55.16	58.1		40.002	0.01	59	1	30		
			msv. → semi-msv., patchy Py., at aprx. 80° to C.A. w/ aprx. 5% Cal.											
			matrix; At 58.3m, 63cm zone of wk. → s. Magt'c 'diabase' w/ 4 intrvls.,	605	58.1	58.3	(dia- base)	0.006	0.15	5	1	25		
			12, 4, 21 and 3cm. wide, 4 and 6 cm apart, of 'diabase' w/ aprx. 10 →	606	58.3	58.95	(py'c)	40.003	0.08	3300	1	50		
			15% Horn. (at 75° (lwr. contact, 12cm intrvl.), 45° (lower contact	607	58.95	59.13	(diabase)	0.006	0.15	163	1	42		

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 6 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
61.5	72.9		Msv. 'diabase': M. → M-lt. → M-dk. (blue-grn, olv-grn-) gy./blk. → dk. grn. speckled, non-Magt'c., M. → F.xtln., Fsp.-Horn.-((leucoxene?-)) 'diabase': aprx. 5 → 10% interstitial (to Fsp.) Horn. (com. Chl.? - or Chl? + Ep? -altr'd.), 1 → 2% v.F., opaq. wht. leucoxene? dits (M. pastel orange where s. → v.s. sauss'c.). Tr. → minor v.F. diss. and frer. Py.; at 61.5 → 63.3m, 'diabase' mod. → v.s. sauss?-altr'd.. 'Diabase' is gen. mod. sauss? - ((pumpellyite?-)) altr'd. down to 69.6m; below 69.6m, 'diabase' is M.-dk. gy.-grn. and appears wkly. Chl?-altrd..	507	72.2	72.9	0.004	0.02	210	6	44	
72.9	73.36		Horn.P., (Amg'l?), "glassy" Bslt. (flow? selvage): splotchy M. → M-dk grn.-gy. - blk., var. Chl. -, Sauss? -, and Ep-altrd.; loc. to 12% Horn. phenos. to 3 x 4 mm apparent; few % of Horn.? phenos. appear completely altr'd. to M. brick-red., Hemt.?-stained, v.v.F.grn'd. mineral w/ 2 → 3% v.F.diss.Py. (outline of Horn. phenos. preserved, up to 3x6mm); 2%, sub-round, wht. Qtz.(+Cal.)-filled amgs. to 3x5mm. Minor → 2%, v.v.F. → F.diss.Py. (greatest % Py. in patches of s. Chl.-altrn. (2 patches aprx. 4 cm. wide)); one, 0 → 3cm. tk. vult. 'zone' w/ aprx. 5% diss., patchy Py. in wht. (→ brick-rd.) Qtz+Cal. matrix. 3 patches of v.F. grn'd. Cpy. to 2x4mm. Bslt. appears v.v.F. grn'd. (devitrified glass?). Upr. contact appears sharp but irreg. at 35° to C.A.	609	72.9	73.36	0.006	0.17	238	1	73	

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 7 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
73.36	81.3		(Horn.P.) → Horn., (Fsp.)P., Fsp. MicroP., "glassy" Bslt.: M. → M.-dk. →dk. gy.-grn., var. sauss?-altr'd; non. → wk. → mod. (→s.) Magt'c. (highly var.); var. % and size of Horn. phenos.: gen. 4 → 7%, loc. in clusters of up to 20%, 2x3cm. area; in part may be flow Bx. but no obvious frags.; textures gen. poorly distinct due to altrn. of Fsp., but loc. apparent that low % of "glassy" grndms. (5 → 10% aprx.). Minor → 1%, irreg. distributed, diss. (patchy) and frcr-Py.; at 73.5m, irreg. patch of Py., 1x2cm.	508	73.36	74.4	<0.002	0.02	316	5	42	
			At 76.3m, 3cm tk., wht. Qtz+Cal. vmlt. at 35° to C.A.. At 78.7m, 40cm. wide intrvl. w/ aprx. 50%, v.v.s. olv.-grn. Ep.altrn..	509	78.6	79.27	<0.002	0.03	293	11	46	
			At 79.5m (top), 40cm. wide intrvl. of s. → v.s. Chl.altrn. (to nearly 100%?) and w/ 0.5→2%, F. → M.diss.Py. + aprx. 3%, frcr.-Py.: frcr-Py. in continuous lams. to discontinuous lenses (and aligned patches) gen. 1 → 4mm tk. (5 main lams. & strings of lenses), at 55° to C.A., loc. w/ adjoining patches of Cal. (+Qtz.).	610	79.27	79.5	0.014	0.13	210	1	38	
			Basal contact of intrvl. appears to be at 50° to C.A..	611	79.5	79.9	0.020	0.20	630	1	80	
			At 80.4m., 1 → 2.5cm tk., irreg. intrvl. of s. Chl.altrn. (at 50 → 75° to C.A.) w/ aprx. 7% patches Py., largest patch 4x15mm.	612	79.9	80.1	0.010	0.13	53	1	54	
			Basal contact appears gradational over aprx. 50 → 60cm.	510	80.1	81.3	<0.002	0.01	67	1	47	

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 8 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
81.3	86.8		F.xtln., Fsp.-Horn.-((leucoxene-)) Bslt. (grading into intrvls. of (Horn.P.).., Fsp. MicroP., "glassy" Bslt. (w/ 5→10% "glassy" grndms)): M.-dk.gy-grn. - appears wkly. Chl:altr'd., somewhat var. Sauss?-altrd. (wk.→mod.), gen. 1%, vF.→F. diss. (loc. patchy) Py.. May have gradational? basal contact but in part obscured by 25cm wide intrvl. of s. Sauss? -, and Ep=altrn..											
86.6	94.5		F. → M.xtln., ((Horn.P)), Fsp.-Horn. - ((leucoxene? - uralite?-)) 'diabase': M.→dk. gy. - (blue-)grn., blk. speckled; loc. intrvls. w/ few % uralite? altrn. of Horn. grns.; gen. minor diss. and frcr-Py., but 2 intrvls. aprx. 20 and 60cm. long w/ 1 → 2%, vF.-F. (patchy) diss. Py.. At 94.45m. irreg. zone 5→6 cm. wide, w/ 10% Py. in irreg. stg-like patches in zone 1 → 1.5cm. tk. w/ Qtz. + Cal. matrix; Py. patches up to 0.5 → 1 cm. wide.	511	93.8	94.5	0.002	0.02	154	11	44			
94.5	95.4		(Horn., Fsp.P.), Fsp. MicroP., "glassy" Bslt. w/ 2 intrvls., 94.5 → 94.95m and 95.3 → 95.5m, of mod.→ s. Chl.atrn., w/ 2→3%, irreg. distributed, irreg. patchy Py. (largest patch in 94.5 → 94.95m. intrvl. 1x2.5cm; intrvl. w/ 13cm long zone w/ 7% Qtz+Cal. and few Ep.-vnltts..	613	94.5	94.95	0.014	0.07	170	1	72			
				614	94.95	95.3	0.014	0.19	65	1	55			
				615	95.3	95.5	0.020	0.08	670	1	100			

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 9 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
94.5	95.4	(cont.)	Lwr. intrvl. (95.3 → 95.5M) w/ few % Hemt.-stained, (Py'c.), altr'd. Horn. phenos.. Intervening Bslt. (94.95 → 95.3m) is M.-dk. gy-grn. and wkly. Chl.? altr'd..											
95.4	96.0		F.xtln., Fsp.-Horn;-Bslt.: M-dk. gy-grn., mostly micro bx'd. (pseudo-mylonitic) at 60° to C.A.; minor → 1% diss. and frcr-Py.; var. Ep.- and Chl:altr'd.. Base marked by 20cm wide zone (at 50° to C.A.) of nearly pervasive Ep. altn. + 6% irreg. Qtz+Cal. vnlts..	512	95.5	96.0	<0.002	0.04	378	1	59			
96.0	96.8		Thin → v. thin bdd., graded, Fsp.-Horn;-Bslt. F.xtl.T. → Chty., Bslt. v.F.T. → Bslt'c. Cht.: textures poorly distinct because of shearing, bxn. and vnlts. and broken core. Bslt. T. M-dk. gry-grn; Bslt'c. Cht. : M. → M-dk. (→lt.) grn-buff-gy; Bdnng. at 50 → 65° to C.A. (gen. poorly distinct).	513	96.0	96.8	<0.002	0.03	182	2	46			
96.8	97.4		(Horn., Fsp.P.), Fsp.MicroP., "glassy" Bslt. L. xtl.T.: clsts. (M.T. → M.L.-sized), loc. v. distinct; var. % & size of Horn. and Fsp. phenos. and var. Sauss? - , or Chl.? - altn. of "glassy" grndms. (varies from opaq. wht. → M.gy-grn.). Matrix appears to be Fsp. (Horn-) F. xtl.T.. Basal contact sharp.	514	96.8	97.4	<0.002	0.02	428	1	44			

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 10 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
97.4	97.7		(Horn., Fsp.P.), (Horn., Fsp.MicroP.), "glassy" Bslt. (flow? base?): dk.gy.-grn., aprx. 3%, Horn. phenos. to 4x6mm, and sev. %, poorly distinct (Chl?-altr'd.) Fsp. phenos.; Bslt. mostly sub-opaq. "glass". Basal 'contact', gradational and irreg. (w/increase in Chl.-altrn.).	616	97.4	97.7	0	0.012	0.03	36	1	55
97.7	98.55		s. → v.s. Chl.-atr'd., (py.'c., cpy'c), (Horn., Fsp.P.), Fsp. Micro P. "glassy?" Bslt.: textures v. poorly distinct due to Chl.-altrn. (rx. name is approximation); Bslt.: dk.gy.-grn. → near blk; gen. v. aprx. 1 → 2%, v.F. → F. diss. and stg. Py and Cpy.; however, within 98.0 → 98.26m. intrvl. aprx. 3→4%, v.v.F. → F.grnd. Py. (about half) and Cpy. (about half), v.irreg. distributed from disseminated grns. to patches (to 13x32mm) w/ Cpy. and/or Py. disseminated in v.F. grn'd. Ep. matrix., to along discontinuous frers. Sharp lwr. contact at 45° to C.A..	617	97.7	98.55	0	0.008	0.15	2300	1	108
98.55	109.0		(Horn., Fsp.P.), Fsp.-Horn.-Bslt. F.xtl.T. w/ few → 5%, M.T. → F.L. clsts. of opaq. wht. Fsp., Horn. Micro P., "glassy" Bslt.; T. is M. grn-gy.; sev. F.L. clsts. (to 1.5cm long) of dk. gy.-grn., (Fsp.P.), Fsp., Horn. MicroP., "glassy" Bslt.; Loc. minor → 1%, v.F. diss. Py. in xtl.T.	618	98.55	98.8	<0	0.003	0.01	375	1	52

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 13 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
115.1	117.35	100%	(Fsp., Horn.P.), Fsp.(Horn.) MicroP., "glassy" Bslt. (flow?): highly var. Sauss? -, and Chl.-altr'd.; colours: patchy zones, M.-dk. → M.gy. - grn. → lt. tan-gy./dk.grn. splotchy → dk.grn. speckled (altr'd Horn. grns.) : at 116.0M, 14cm. wide intrvl. (at 75 → 80° to C.A.) of v.s. Sauss?-altrn. (irreg., Chl.?altr'd. Horn. grns. diss. throughout (aprx. 6%) gives rx. appearance of C. grn'd. diabase, but Fsp. Micro phenos. and "glassy" grndms. still loc. apparent); at 116.5 → 117.2M, also v.s. Sauss'e. altrn; 7 or 8 intrvls., 1 → 10cm wide, of mod. Chl.-altrn. gen. accompanied by 1 → 4% diss. and frcr.-Py.; at 115.3 → 115.7m., aprx. 2 → 3%, v. irreg., patchy frcr.- Py. (up to 0.7 cm. wide). Aprx. 3%, irreg., stg-like to planar., Ep.-, and Qtz+Cal. vnlts. throughout. At base of unit, aprx. 6cm. of mod. → s. Chl.-altr'd. Bslt..	515	115.1	117.13	40	0.002	0.01	151	1	43
			Basal contact sharp but v. irreg. in detail; at aprx. 60° to C.A.	619	117.13	117.35	0	0.008	0.09	55	1	58
117.35	117.62	100%	Py.-Cal.-Qtz.-Chl.-altr'd. Bslt. - Cpy.-Magt. intrvl.: irreg. banded or layered, as follows, from uphole: (1) 0.5 → 4cm wide band of Bx'd, lt. → dk. brick-rd., Hemt.-stained, Qtz.+Cal. w/ 1 → 2% diss., v.v.F. grn'd. Magt. and irreg. patch w/ aprx. 50% v.F. grn'd. Cpy., 0 → 1.5 cm. wide in wht. Qtz + Cal. matrix.	620	117.35	117.62	0	0.158	0.18	<0.01%	15	60

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 15 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
117.2	121.0		(Aug.? or diopside→Horn., Fsp.P.), Fsp., (Aug.?) MicroP., "glassy" 'andesite' w/ aprx. 10% ((py'c)), wk.→mod.→s. Chl.-altrn.-zones. Rx. mod. Bx'd., gen. opaq. lt.→M.-lt. (blue-grn-)buff (→M. buff-gy.), var. Sauss?-altr'd. (s.→v.s.), w/ most of Horn.phenos. completely altr'd. to sub-translucent, pale M.army grn. Aug.? or diopside (Horn.loc. preserved), and Fsp. phenos. wkly. Pumpellyite?-altr'd. (v.pale aqua-grn.). Chl.-altrn. gen. wk, → mod., in v. irreg. patchy zones from 1 → 40cm. wide; 5 main intrvlis. of s.→ v.s. Chl.-altrn. of 'andesite' (these may be flow? selvages??) (gen. w/ 1 → 2%, irreg., patchy Py. and frcr-Py.) as follows: at 117.62 (top 8 cm. wide; at 118.8m, 16cm wide, at 119.8m. 16cm. wide; at 120.0m, 6cm wide; at 120.8m, 10cm wide; contacts of Chl.-altrn. zones both sharp and gradational - where relatively sharp, contacts at from 55 → 75° to C.A.. Base of unit placed at base of last Chl.-altrn. zone and aprx. start of T.L.A..	621	117.62	117.89	0	0.12	0.13	65	1	61
				516	117.89	119.8	<0.002	0.01	39	1	30	
				622	119.8	120.1	0.016	0.01	345	1	74	
				517	120.1	121.0	<0.002	0.01	30	1	37	
121.0	137.8		'andesite' T.L.A.: clsts. com. distinct, variations of Aug.? or diopside (→Horn.) Fsp.P → Fsp.P., Fsp.(Aug.?) MicroP., "glassy" 'andesite', w/ var. % of maf. and Fsp. phenos.: Aug.? phenos. (altr'd. product of Horn. phenos. v. loc. preserved) up to 12% and up to 3x6mm in some clsts.	518	121.0	121.7	<0.002	0.01	24	6	27	

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 17 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
121.0	137.8	(cont.)	Dyke? cut by aprx. 2→3%, irreg.→planar. Qtz+Cal.(+Ep.) and Ep. vnlts. and loc. thin (to lcm wide) zones of F. bxn. and Ep.altrn.. Upr. contact at 6cm wide intrvl. of mod.broken,ground core; basal contact marked by 2cm zone (at 55° to C.A. of micro bxn. and shearing. Qtz.+Cal. and Ep. vnlts.w/ minor v.F.diss.Cpy.. Basal 4.2m of unit (133.6 → 137.8M) marked by patchy, irreg., wk. → v.wk. (loc. v.s.) Chl.-altrn. and aprox. 50% intrvls. where un-altr'd.Horn. phenos. in clsts..	519	133.9	134.6	0.002	0.01	50	4	31	
			At 134.6m (top), 26cm wide intrvl. of v.s. Chl.altrn. w/aprx. 2%, diss., patchy and frcr-Py.; within intrvl., 2 mod. distinct L. clsts. (v.s. Chl.-altr'd); one clst: (Fsp.P.), Horn., Fsp. MicroP., "glassy" Bslt.; other clst. of Horn.P., "glassy" Bslt.; contacts of zone appear gradational over 1 → 4cm.	623	134.6	134.86	0.012	0.01	1050	1	135	
			At 135.13m, 18cm wide intrvl. of mod. → s. Chl.-altr'd.Horn.(Fsp.)P., Fsp. MicroP., "glassy" Bslt. T.L.A. (aprx.) w/ aprx. 0.5% diss. and frcr. Py; upr. contact appears gradational over aprx. few cms; lwr. contact appears sharp at 65° to C.A.	624	134.86	135.13	0.008	0.07	83	1	47	
			At 135.7m., dyke 24cm wide of, v.dk. gy.-grn.(/v.finely, lt.olv-grn. speckled), F. → v.F. xtl., Fsp.-Horn.-Bslt.:w/ v.v.F.xtl.→"glassy"	625	135.13	135.31	0.008	0.07	105	1	88	
				520	135.31	135.7	0.002	0.01	320	6	29	

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 17 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
121.0	137.8	(cont)	selvages. Horn. appears relatively unaltr'd.; Fsp. wkly.-altr'd., has micro-"salt and pepper" appearance; upr.contact irreg. (dyke truncates Qtz+Cal.+Ep.vnlts.); lwr. contact sharp, at 70° to C.A..											
137.8	150.3		Horn., Fsp.P. → Fsp.(Horn.)P., Fsp.MicroP., "glassy" Bslt. T.L.A.: clsts. com. mod.(→v.) distinct: vary in colour from dk.gy-grn. → M. grn.-gy.→loc., M.-lt.gy-buff. and are var. Sauss?-, or Chl-altr'd; clsts. w/ var. % and size of Horn. and Fsp. phenos; darkest clsts. (v. aprx. 5→7% of unit) are gen. mod → s. Magt'c; clsts.w/ up to 12% Horn. phenos. up to 3x6mm; Fsp. phenos. wkly-Chl.-altr'd. in darker clsts. → v.pale aqua-grn., Pumpellyite?-altr'd. in more s. Sauss?-altr'd.clsts.. Matrix appears to be Fsp.(Horn.)MicroP., "glassy" Bslt. lithic and xtl.T., loc. w/ "glass" coating rx. and xtl. frags..	626	140.25	140.4	<0.003	0.01	20	3	33			
			At 140.4m., 15cmwide intrvl. of near blk., v.s.→s. Chl.-altrn. w/ aprx. 4%, v.F. → M. diss.Py.; upr. and lwr. contacts appear sharp but irreg. (lwr. contact at 65° to C.A.).	627	140.4	140.55	<0.003	0.06	19	1	108			
			Between 140.55 → 141.75m sub-sub-translucent, M.(aqua blue-grn.-)gy. Bslt. T.L.A. w/ aprx. 2 → 4%, diss., patchy Py.; Py. diss. (aprx. 50%)	628	140.55	141.15	0.006	0.25	77	1	49			
			in irreg. patches to 4mm dia.. Base of unit marked by 12cm zone of v.s. micro bxn. (pseudo-mylonitic) and nearly pervasive Ep. altrn..	521	141.15	141.75	<0.002	0.01	61	4	30			

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 19 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
152.4	157.0		clsts. only loc. distinct; clsts. wk.→mod.→v.s. Magt'c; var. % & size range of Horn. and Fsp. phenos.; clsts. somewhat var. Chl.-, Sauss?-altr'd; gen. M.-dk.→dk. grn:gy. (wk.→non→mod.Magt'c) → v.dk.gy.→v.dk. maroon (and v.s. Magt'c.). Smallest clsts.v.F.L. → C.T.-sized; largest clsts.apparent, up to 8cm. wide, but one? clst. may be 70cm wide. Clsts. ang.→sub-ang. and irreg. in outline. Some clsts. w/ v.pale aqua-blue pumpellyite?-altr'd. Fsp. phenos.; others w/ wkly.Chl.?-altr'd. phenos.. Overall aprx. 5%, v.dk. maroon→v.dk.gy., v.s. Magt'c., (Fsp,Horn.P.), Fsp.MicroP., "glassy" Bslt. clsts. (v.F.L.→F.A. (up to at least 6cm wide)), w/ up to aprx. 20→25%, v.v.F. grn'd. Magt. diss. w/in, or forming completely, the "glassy" grndms. between phenos. and microphenos. (one clst. w/ 10% microscopic, irreg. patches w/out Magt.; matrix surrounding magt'c. clsts. without diss. Magt. but w/ C.T.→v.F.L. clst. of Magt.-Bslt.)). Between 154.0 and 156.0m., aprx. 30 → 50% of rx. is v.F.L.→M.A. clsts. of v.dk. maroon → v.dk. gy., v.s. Magt'c. Bslt.. % of v.s. Magt'c., dk. maroon clsts. appears to decrease downhole from 156.0, to perhaps 5%; many clsts. w/ aprx. 3→5%, F. patches of Magt.. At 155.1m, 3.5cm dia. clst of lt. creamy. yel., v.s. Sauss-altr'd.									
				522	152.7	152.89	<0.002	0.05	376	1	105	
				523	152.89	154.1	<0.002	0.03	405	1	61	
				629	154.1	154.56	0	0.10	0.11	15	4	120
				524	154.56	156.0	<0.002	0.01	18	1	51	

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 20 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
152.4	157.0		Bslt. (as described above); At 161.1m, 7.5cm wide clst. of lt. sub-sub-translucent, (tan-)gy., Fsp.P., Fsp.(Horn.)MicroP., "glassy" Bslt.?											
		(cont.)	(Sauss?-altr'd., mod. hard). At 156.1m, 1x1.5cm clst. of M.grn-gy., (Bslt'c.) Cht..											
			Matrix: (Horn., Fsp.P.), Fsp.(Horn.) MicroP., "glassy" Bslt. F→v.F. xtl.T. (and lithic T.): var. Chl.?-, Sauss?-altr'd., M.-dk.grn-gy.→gy-grn.→loc. lt.→M.-lt gy-grn., composed of xtl. frags (loc. w/"glass"?											
			coating), few % ash? and few % F. → C.T.-sized rx. frags.; matrix gen.?											
			somewhat lighter coloured than clsts. due to Ep.altrn. of ash?.											
			At 152.7m, 19cm long intrvl. of s. Chl.-altrn. of T.L.A., w/ aprx. 1% patchy, diss. (and frcr.) Py.: upr. contact marked by 2 → 10mm tk. zone	522	152.7	152.89	<0.002	0.05	376	1	105			
			of micro bxn. and pervasive, stg.-like Ep. altrn. at aprx. 25° to C.A..	630	162.12	162.3	<0.003	0.44	195	1	120			
			At 162.3m, 5 → 7.5cm wide intrvl. of (py.'c, Cpy'c.), s. Cal.-altr'd, Bx'd. and Micro bx'd. Bslt. (T.L.A.): aprx. 3%, irreg. diss. and frcr. Py. to 3x15mm + aprx. 0.25% diss., patchy Cpy., (largest patch 2x2mm) in "matrix" of patchy Cal. and dk.gy.-grn. Bslt. (aprx. 30%); in basal part aprx. 1.5cm., mostly M. maroon (→ creamy wht.), mod. Magt'c., v.s. Cal.-altr'd. Bslt.; upr. contact of intrvl. irreg. and 'diffuse',	631	162.3	162.37	0.020	0.14	1800	3	140			

DIAMOND DRILL RECORD

Hole No. 84-8 Sheet 21 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
152.4	187.0	(cont)	at 45° to C.A.; lwr. contact sharp, at 80° to C.A.; intrvl. overlain (uphole) by aprx. 18cm of Bslt. T.L.A. w/ 2%, irreg. patchy diss. Py. (to 2x6mm) and frcr.-stg. Py.; intrvl. underlain (downhole) by 15cm. of Bslt. T.L.A. w/ aprx. 1.5%, F → M. diss. Py. (and frcr.-Py.).	632	162.37	162.52	0.010	0.09	145	22	75	
			Between 164.1 and aprx. 165.0m, intrvl. of aprx. A.L.T. or A.T.L. w/ mostly mod. → v.s. Magt'c. clsts..	525	162.52	163.7	<0.002	0.01	136	1	52	
			At 163.7m (top), aprx. 15cm wide intrvl. of wkly. sheared ((py'c.)), s. → v.s. Chl.-altr'd. Bslt. (T.L.A. or A.T.L.): few F. L. clsts. poorly distinct), w/ aprx. 2 → 3%, diss.; patchy Py. + minor frcr.-Py.; basal contact marked by 7mm tk. intrvl. of s. Bxn. and Ep. -altrn. at 65° to C.A..	633	163.7	163.85	0.026	0.05	55	38	140	
			Downhole from aprx. 162.4m, aprx. 0.5 → 1% ((→2%)), irreg. distributed, diss. patchy Py. (patches gen. 0.5→2mm dia.); at 166.8m, w/in 3cm wide zone, 2, v. irreg. patches of v.F.→M.grn'd. Py., 2x4cm and 1→2x3.5cm, in part w/ Cal. matrix.	526	163.85	164.8	<0.002	0.02	22	1	55	
			Next downhole intrvl., below 165.0m, w/ mod.→vs. Magt'c. Bslt. clsts. at 181.3 to 183.8m.	527	178.6	179.3	<0.002	0.01	19	1	32	

DIAMOND DRILL RECORD

Hole No. 84-9 Sheet 4 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis					
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	B ppm
19.8	22.1	1 (cont.)	Upr. 10cm. of unit M. → M:lt. brick rd.. At 21.4 and 21.8m. aprx.	533	20.4	21.4	< 0.002	0.01	44	12	112		
			2 → 3cm tk. lam. of Blk. Cht. (in broken core) and 5cm. intrvl. of dk. gy. Cht., respectively. Between 20.7 and 22.1m. aprx. 1 → 3% graphite?-filled frcrs. from 0.3 → 4mm tk.: frcrs. vary from sub-planar to much more com., v. irreg. (strolitic-appearing) and as mesh-like network between Bx. frags. of Cht. These graphite-filled frcrs. appear conductive (as low as 400 ohms resistance over 7cm).	638	21.4	22.1	< 0.003	0.20	38	7	70	20	
22.1	23.0	0	(Py'c.), v. delic. lam'd. → aprx. thin-bdd., Blk. Cht.: gen. mod. Bx'd w/ textures poorly preserved; one piece shows v. delic. lam'd., Blk. Cht. w/ v.dk. brwn. (py'c.) lams. (at 30° to C.A.), w/ aprx. 4%, v.v.F.diss. Py. (varies in % between lams: 1 → 5% aprx.) overlain (uphole) by v.dk. brwn.-gy. Cht. w/ aprx. 1 → 2%, v.v.F. diss. Py.. 5 intrvls., aprx. 3 cm. tk., 7 cm. wide, 2 cm. wide, 3 cm. tk. and 4 → 8cm wide, w/ v. aprx. 30% diss. and patchy → semi-msv., v.F. → M.? grn'd. Py. w/in F. Bx'd. zones of Cht. (2 of Bx'd. Py'c. zones at 40° and 45° to C.A.); Py., where semi-Msv., also appears v.F. Bx'd (loc. cut by Qtz. (+Cal.) discontinuous vnlt.. One piece shows semi-Msv. Py. band. (1.8 → 3cm tk.) bounded, top and bottom, by v. delic lam'd.	639	22.1	23.0	0.012	0.33	69	23	335	50	

DIAMOND DRILL RECORD

Hole No. 84-9 Sheet 5 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm	B ppm	
22.1	23.0	0 (cont.)	blk. Cht. w/ lams. parallel to contact between Blk. Cht. and Py. band; thus some semi-Msv. Py. appears strata-bound. Basal 20cm of unit is M.→lt. gy. Cht. w/aprx. 10% ang. frags.? of Blk. Cht. (up to 1x3cm, down to 0.5x1mm). Cht. cut by few irreg., loc. polished, graphite?-lined frcrs..											
23.0	24.1		Bx'd., splotchy dk.-lt. gy.-creamy wht. Cht." aprx. 3 - 4% irreg. Qtz. units; few v. irreg. (meandering) graphite-filled frcrs. at top and base. Basal contact in part v. irreg. in part at 45° to C.A.	534	23.0	24.1	<0.002	<0.01	33	4	113			
24.1	30.5		v. delicately lam'd.→lam'd→v. thin(→M.-thin) bdd., (py'c), blk. cht.: predom. near blk. → v. dk. brown-gy, opaq., loc. M. brwn.-gy.; lams., where apparent, vary from 0.5 → 10 mm; sev. intrvls. to 15-20 cm wide where lams. not apparent (single beds?). Py % gen. difficult to estimate because of blk. or v. dk. colour but aprx. 2→4% overall, v. v. F. - v. F.(→F.) diss.; % of diss. py varies from lam. to lam. or w/in individual lams.: gen. the more brwn. the lam. the more diss. py., w/ % up to aprx. 50% and v. loc. to 100% (prom. lams. of msv. - semi-msv. py as follows: at 24.11 m, 3mm tk. lam. of msv. v. v. F. - v. F. py.; at 24.4 m, 2 cm tk. layer w/ aprx. 60% msv. py patches; at 27.8 m (top), 25 cm wide intrvl. w/ 5, 1.5 mm tk. lams. of semi-msv., v. v. F. - v. F. grn'd py, at 28.5 m, 15 cm intrvl w/ 1, 2-10 mm, and											
				535	24.1	27.8	0.002	0.02	64	18	383			
				640	27.8	28.7	0.006	0.01	52	18	190	150		
				536	28.7	29.8	<0.002	0.01	50	16	220			
				641	29.8	30.4	0.008	0.29	60	50	130	70		

DIAMOND DRILL RECORD

Hole No. 84-9 Sheet 6 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

m	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
24.1	30.5		2, 1-4 mm tk. lams. of msv. py (2 thinner lams. 10 mm apart and broadly - tightly folded parallel to delicate lams. adjoining py. lams.); at 27.6 m, 1.6 mm tk. lam.; 28.1, 1 mm tk. lam.; at 28.8 m, 25 cm wide intrvl. w/ 10 py. lams., 0.5 → 2mm tk.; at 29.8 m, 60 cm intrvl. w/ 16 py. lams. 1 → 2.5 mm tk. At 25.1 m and 26.5 m, 1.3 & 3.5 cm tk. bds. of lt. → M. gy./blk. speckled, (py'c) Fsp.? - 'andesite' v. F. → F. xtl. T. w/ aprx. 3-6%, v. F. → F. diss. py., and aprx. 5%, v. F. → F. (→M.) T.-sized clsts. (to 1x3 mm) of blk. cht. Bdng. at 75, 60, 60, 55, 50, 50, 45, 45, 45, 60, 55, 50, 25 & 35° to C.A. (from top unit, down); gen. relatively reg. and planar, loc. contorted and tightly folded. At 26.4m, dyke, 5.5 cm tk. of opaq., lt. creamy tan-gy., v. s. sauss? - altr'd., Horn? P., Fsp. Micro P., "glassy" Bslt.?: Horn? phenos. completely altr'd to lt. pink-beige sauss? but relic hexagonal clvg. traces and hexagonal outline; dyke cross-cuts bdng. at aprx. 80°; dyke w/ sharp but irreg. boundaries (loc. w/ small blk. chert xenoliths) at 45-55° to C.A.. Dyke w/ minor F. diss. py. Cht. cut by aprx. 2%, wht. qtz. + cal. vnltts.com. forming criss-crossing network; vnltts. 0.1 → 5 mm tk. (one, 15 mm tk. at 40° to C.A.). Cht. cut by aprx. 0.5% graphitic? frcrs., com. polished & slickensided & some of w/ patches of smoothed v. v. F. grn'd py. One graphitic? frcr. measured 400 ohms. resistance across 3 cm.	537	30.4	31.1	0.002	0.01	52	13	345	

DIAMOND DRILL RECORD

Hole No. 84-9 Sheet 7 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								As oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
24.1	30.5	(cont)	At 29.5 m, 8 cm wide intrvl. of bx'd., lt. → M. gy. cht. Base of unit picked at down-hole start of predom. M. gy. cht. w/ small % blk. cht., and concomitant decrease in % diss. py.											
30.5	44.2		Delicately lam'd. → lam'd. → v. thin(→thin) bdd., gy.→blk., (Py'c) cht.: predom. M. gy., colour interlam'd., w/ &/or gradational into M.-lt. gy. → v. dk. gy., → brwn.-blk. (aprx. 5→7% overall); at 31.0 m, 12 cm intrvl. of interlam'd. (1 mm → 0.1 mm tk.) blk. and v. lt. gy. w/ lams. folded to resemble tree rings (of half a tree trunk). Overall, v. aprx. 1→3%, v. v. F. diss. py., but % quite variable over narrow thicknesses; gen. greatest % of diss. py. in blk. → brwn. - blk. lams.; v. aprx. 3% lams. w/ greater than 50% (loc. to 90%) v. v. F. diss. py.; these lams. gen. 0.5 → 3 mm tk.; most also show increase in % of py. in up-hole direction (younging direction); one distinct layer (v. delic. lam'd) shows gradation (up-hole) from aprx. 1% v. v. F. diss. py. to aprx. 100% v. v. F. grn'd. py. over tkns. of 5 mm (lam. w/ 100% py., 3 mm tk.; top (up-hole) of msv. py. lam. wavy & irreg. & depressed 5 mm beneath a dropstone? 1x1.5 cm, of lt. gy. (/blk. spotted) cht. suggesting tops point up-hole and greatest % of py. at tops of lams. and bds). Appears to be only v. minor frcr.-py. At 36.6 m, 3 cm tk. bd. of M. buff-gy. (py'c.), s. seri?-altr'd., Fsp.? - 'andesite'	537	30.4	31.1	0.002	0.01	52	13	345			

DIAMOND DRILL RECORD

Hole No. 84-9 Sheet 9 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

m	To	Core Recovered	Description	Sample No.	From meters	To	Recovery %	Analysis				
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm
30.5	44.2	(cont)	less than 3 mm tk. (loc. to 3 cm tk.). % of diss. py. w/in basal interval, however, not less than that in upr. part of unit, and appears to average overall aprx. 2→3(→5) %, v. v. f. diss. py., w/ aprx. 2%, thin. lams. (0.5 → 2 mm tk.) w/ up to 50 → 75%, v. v. f. diss. py. Unit cut by aprx. 1%, graphitic? shears or slips, com. w/ polish and slickensided; decrease in abund. down-hole. Unit also cut by 1→2%, irreg. to planar. Qtz. + cal. vnlt.s., paper thin to 5 mm tk., com. discontinuous appearing, loc. as complex, criss-crossing network of X's. Basal contact of unit taken at last apparent dk. gy. → blk., chty. lam. in down-hole direction.									
44.2	47.4		Lam'd. → v. thin(→thin) bdd., graded, (py'c.), seri?-altr'd., (Qtz. P.), Fsp.-(Horn?), 'andesite', v. f. - v. v. f. xtl. T: subtle colour lam'd. & colour-graded, M.→M.-lt. (tan-)gy. → M. gy.-buff → M.-dk. buff-gy.. Overall T. becomes gradually coarser grnd. down-hole; lams. appear to result, not from individual graded intrvls. but from slightly var. altrn. of Fsp. xtls. of T., and also loc. due to increase in % of diss. py. Appears to be v. aprx. 1%. Qtz. porphyroclsts thruout unit, gen. clear v. lt. gy., gen. sub-elliptical in outline (but some appear to have jagged edges).	644	44.5	44.9	<0.003	0.08	20	6	45	

DIAMOND DRILL RECORD

Hole No. 84-9 Sheet 10 Started _____ Completed _____ Logged by G. Benvenuto Property Thistle (NTS 92F/2E)

Meters

From	To	Core Recovered	Description	Sample No.	From meters	To meters	Recovery %	Analysis						
								Au oz/t	Ag oz/t	Cu ppm	Pb ppm	Zn ppm		
44.2	47.4	(cont)	Overall appears to be minor v. v. f. diss. py., but 7 or more lams., 2-5 mm tk., where diss., v. v. f. → v. f. (→F.) grn'd py. concentrated to 30-50%. Lams. gen. relatively planar & regular (one place somewhat kinked), and at 60, 60, 60, 60, 65 and 60° to C.A. Basal contact gradational over aprx. 15 cm (w/ decrease in apparent lams.).											
47.4	49.1		Graded, M. (buff-)gy., Fsp.-(Horn-altr'd. Horn?, qtz.-) 'andesite' v. f. → f. → M. xtl. T.: grain size increases down-hole; Fsp. xtl. frags. v. soft and may be wkly. seri?-altr'd; aprx. 2-4% Horn grns., gen. altr'd. to Aug? or diopside?; minor, clear gy. qtz. grns. distinguished; gen. aprx. minor → 0.5% v. f. diss. py. At 10 cm up-hole from base of unit, 2 clsts., 2x14 mm & 8x16 mm, of dk. gy., py'c. cht. w/ 5% and 20% v. f. diss. py.; w/in basal 15 cm of unit aprx. 3%, M. → C.T. → v. f. L. sized clsts. of dk. gy., py'c. cht. resembling larger clsts. described above. Basal contact sharp but somewhat irreg. in detail, at 50° to C.A.											
49.1	53.8		Lam'd. → delicately lam'd. → v. thin-bdd., weakly graded, (py'c.), 'andesite' v. v. f. T. → cherty, 'andesite' v. v. f. T. (→'andesitic' cht. → blk., graphitic? cht.): colour lam'd and colour graded: M.-dk. → M. buff-gy. (predom.) → M.-lt. buff → M. buff-gy.- seafoam grn. → near blk. (aprx. 2-3% lams., overall; 1-12 mm tk.), % py. quite variable: from minor % to loc. 2-3%, w/ rare lams. w/ to 25%, gen. v. v. f. → v. f. diss.	645	50.2	50.56	<0	003	0.10	42	4	63		

APPENDIX D

TABLE OF ANALYSES FOR AU, AG, CU, PB, AND
ZN, AND SAMPLE DESCRIPTIONS FOR ALL SAMPLES
OF DIAMOND DRILL CORE, HOLES 84-1 TO 84-9.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-1	34.14- 34.84	70	<0.002	0.05	44	1	65		P.'C., "glassy" basalt w/ 1-3% diss. py.
"	39.3 - 40.0	70	<0.002	0.04	151	1	56		'diabase': wk.→mod. magnetic.
"	55.54- 56.24	70	<0.002	0.03	38	1	34		P.'C., "glassy", seri.-ep.-altered basalt.
"	77.1 - 79.1	200	<0.002	0.05	142	1	57		'diabase' w/3 chl. altrn. zones (or flow selvages?), 3-5 cm wide, w/ 1-2%, diss. py.
"	82.0 - 82.7	70	<0.002	0.05	530	1	40		P.'C., "glassy" basalt → v. f. xtl. ? basalt: 2-3%, diss. patchy py.
"	114.6-116.6	200	0.002	0.04	108	1	41		'diabase': 1% diss. py.; loc. mod. magnetic; 3 chl. altrn. zones 5 cm wide w/ few % diss. py.
"	135.9-136.6	70	0.002	0.03	181	1	24		'diabase': 1-2%, diss. patchy py. + to few % frcr.-py.
"	166.2-167.2	100	0.002	0.05	211	1	27		P.'C., "glassy" basalt T.L.A.: 1-3% diss. py. + 4-5.5 cm of ep. altrn. w/ 7% patchy py.
"	175.9-176.1	20	0.006	0.06	850	1	45		Seri.-ep.-altered, P.'C., "glassy" basalt flow? Bx.: 0-1 cm band of msv. py.
"	176.1-176.5	40	0.002	0.05	520	1	44		P.'C., "glassy" basalt w/ chl'c. shears
"	178.0-178.7	70	0.004	0.05	357	1	36		Seri.-ep.-altered, P.'C., "glassy" basalt flow? Bx.
"	178.7-178.9	20	0.514	0.64	>10,000	10	125		P.'C., "glassy" basalt w/ chl'c. shears + 1-1.8 cm

APPENDIX D

TABLE 4: Analyses for Au and Ag (fire assay) and Cu, Pb and Zn (A.A.) and sample descriptions of all drill core samples from DDHs 84-1 to 84-9, Thistle Mine area, 1984

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-1									band semi-msv. py.
"	178.9-179.2	30	0.010	0.07	204	1	53		Seri.-ep.-altered, P.'C., "glassy" basalt flow? Bx.
"	179.2-179.55	35	0.022	0.09	850	1	100		Chl.-altered, P.'C., "glassy" basalt w/ few % diss. & frcr.-py.
"	179.55-180.05	50	0.002	0.05	363	1	37		Var. seri.-ep.-altered, P.'C., "glassy" basalt
"	182.2-182.9	70	<0.002	0.05	41	1	46		P.'C., "glassy" basalt w/ 1-3% diss. Py. (25 cm)/chl.-altered basalt w/few % diss. py. (13 cm)/ P.'C., glassy basalt w/ 1-3% diss. Py. (30 cm).
"	182.9-183.6	70	<0.002	0.05	43	1	37		P.'C., "glassy" basalt
"	203.0-203.7	70	<0.002	0.04	118	1	27		P.'C., v.f.->f. xtn. ((& "glassy")) basalt: 0.5-2% diss. py.
"	203.7-204.5	80	0.020	0.08	1350	7	115	110 ppm	Chl.-altered, P.'C., basalt w/ 2-3% diss. & frcr. py. & minor cpy.
"	204.5-205.6	110	<0.002	0.03	191	1	25		P.'C., "glassy" basalt T.L.A.; 30 cm w/ 1-2% diss. & frcr. py.
"	210.7-211.4	70	0.002	0.05	1050	1	52		P.'C., "glassy" andesite? flow??: minor -> 2% diss. py.
"	217.3-218.0	70	<0.002	0.04	103	1	41		v.f.->v.v.f. xtn., (P.'C.) andesite? or basalt?:

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-1									minor → 0.25% diss. py.
"	226.0-226.6	60	<0.002	0.04	78	1	29		P.'C., "glassy" basalt A.L.T. (aprx.)
"	226.6-227.35	75	<0.002	0.05	103	1	42		P.'C., "glassy" basalt A.L.T. w/ 2→4% diss. (& frcr.)
									py; tr. frcr. - cpy.
"	227.35-228.1	75	<0.002	0.05	124	1	35		P.'C., "glassy" basalt A.L.T.
84-2	6.1- 6.8	70	<0.002	0.03	37	1	42		bedded, basalt v.f. tuff to cherty tuff (to basaltic chert)
"	15.3- 16.0	70	0.002	0.03	13	1	39		P.'C., (Amg'l.), sub-glassy basalt
"	30.5- 31.2	70	<0.002	0.05	78	1	46		basalt xtl. tuff w/ 1→5% V.F.L. clasts of P.'C., "glassy" basalt
"	34.6- 35.3	70	<0.002	0.05	194	1	51		bedded, basalt xtl. tuff to cherty tuff (to P.'C., "glassy" basalt L. tuff)
"	40.8- 41.5	70	<0.002	0.06	48	1	63		P.'C., "glassy" (to v.f. xtl.) basalt flows?
"	41.5- 41.66	16	0.035	0.31	5200	184	472		P.'C., "glassy" basalt flow base and basalt T.A.L. w/ 0→1 cm band of msv. py. & 3→4% diss. py. & 3 x 5 mm patch cpy.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-2	41.66-42.7	104	0.002	0.07	100	1	100		P.'C., sub-glassy (to "glassy") basalt T.A.L.
"	42.7- 42.72	2	0.112	1.45	2.44%	16	240		msv. frcr. - py, 1→2 cm thick band
"	42.72-43.7	98	0.004	0.07	137	1	55		P.'C., sub-glassy (to "glassy") basalt T.A.L.; 2 x 3 cm patch semi-msv. py. & 4% specks Cu-staining
"	60.5- 61.2	70	<0.002	0.05	11	1	45		P.'C., "glassy" basalt: 0.5 → 1% diss. py.
"	82.7- 83.4	70	<0.002	0.03	24	1	33		Seri.-ep.-altered, P.'C., "glassy" basalt
"	84.6- 85.6	100	0.008	0.06	630	1	46		'diabase': minor → 0.25%, diss. py. & 3 cm w/ msv. py. patches
"	89.5- 90.2	70	<0.002	0.03	144	1	44		'diabase': minor → 0.25% diss. py.
"	90.2- 90.45	25	<0.002	0.03	135	1	50		'diabase': 4% diss. py; 3, 0.2→1.3 cm zones w/ 25% patchy py.
"	90.45- 91.5	105	0.002	0.05	109	1	53		'diabase': minor → 0.25%, diss. py.
84-3	16.8- 17.5	70	<0.002	0.04	178	1	84		basalt xtl. tuff w/ 1→3% tuff-sized clasts of P.'C., "glassy" basalt; minor diss. py.
"	17.5- 18.2	70	0.002	<0.01	208	1	51		P.'C., "glassy" basalt: minor diss. py.
"	29.4- 29.9	50	<0.002	<0.01	39	1	43		basalt v.f. xtl. tuff: minor → 0.25% diss. py.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-3	29.9- 30.9	70	<0.002	0.03	128	1	99		(P.'C.), sub-"glassy" to v.v.f. xtl. basalt
"	30.9- 31.2	30	<0.002	<0.01	161	2	42		thin bedded basaltic chert & cherty, basalt v.v.f. tuff
"	58.8- 59.4	60	<0.002	<0.01	28	1	64		P.'C., "glassy" basalt T.L.A.
"	73.1- 73.8	70	<0.002	<0.01	28	1	72		P.'C., sub-glassy andesite? lithic L.? tuff w/ 3% basaltic chert clasts & layers
"	77.4- 78.1	70	<0.002	<0.01	200	1	86		P.'C., sub-glassy andesite?, P.'C., "glassy" basalt, (basaltic chert) T.L.A.
"	88.2- 88.9	70	<0.002	<0.01	13	1	84		P.'C., sub-glassy andesite? lithic tuff
"	94.3- 95.0	70	<0.002	<0.01	74	1	82		P.'C., "glassy" (Amg'l) andesite?? flow: near black; s. magnetic
84-4	1.5- 2.2	70	<0.002	<0.01	237	1	32		P.'C., "glassy" basalt. loc. wk. (to S.) magnetic; 1-2% diss. & fr. py.
"	6.0- 8.2	220	0.007	0.01	930	1	35		P.'C., "glassy" basalt: var. seri.-ep.-altered; 2% diss. patchy py. w/ 15 cm chl. alteration zone w/ 5% diss. & fr. py; 2, 4.5 & 3 cm thick veinlets

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-4									of cal.-qtz.-py.-cpy. w/ to few % cpy. & 5-10% py.
"	8.2- 8.8	60	0.005	<0.01	1140	1	37		P.'C., "glassy" basalt w/ 1-2% diss. & frcr. py.
"	8.8- 9.05	25	0.016	0.13	3790	1	67		Chl.-altered, P.'C., "glassy" basalt w/ 2% diss. & frcr. py. & 1 cm veinlet of semi-msv. py.
"	9.05- 9.75	70	<0.002	<0.01	112	1	39		P.'C., "glassy" basalt w/ 1-2% diss. & frcr. py.
"	20.0- 21.1	110	0.005	<0.01	465	1	21		P.'C., "glassy" basalt w/ 1-2% diss. & frcr. py; w/ 2 cm & 1-2 cm chl.-alteration zones w/ 1-2% and 10% diss., patchy and frcr. py.
"	21.1- 21.3	20	<0.002	<0.01	33	1	12		Seri.-ep.-altered; P.'C., "glassy" basalt
"	21.3- 22.8	150	0.002	<0.01	300	1	24		P.'C., "glassy" basalt w/ 1-2% diss. & frcr. py.
"	22.8- 24.5	170	0.014	<0.01	320	1	37		P.'C., "glassy" basalt w/ 1-2% diss. & frcr. py. w/ 3 cm & 7 cm zones of chl. alteration w/ 4% py, and 1-3% diss. magnetic & 2-3% py, respectively
"	24.4- 26.4	200	<0.002	<0.01	202	6	26		Seri.-ep.-altered, P.'C., "glassy" basalt: 40 cm w/ 1-2 diss. py; 20 cm w/ 3-4% diss., patchy py.
"	26.4- 27.75	135	<0.002	<0.01	200	1	26		P.'C., "glassy" basalt w/ 1-2% diss. & frcr. py.
"	27.75-28.6	85	0.020	0.06	505	6	39		P.'C., "glassy" basalt w/ 1-2% diss. py. & 3 cm of

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-4									chl.-alteration & 4% of diss. py. at base
"	28.6- 28.75	15	0.046	0.23	1600	3	38	160 ppm	Msv. py. layer: 8 cm true thickness (aprx.)
								As	
"	28.75-28.94	19	0.012	0.11	385	16	48		P.'C., "glassy" basalt: minor → 0.5% diss. py, At top 1.2 cm of chl. alteration & 4% diss. py.
"	28.94-29.5	56	<0.002	<0.01	55	1	23		P.'C., "glassy" basalt: minor → 0.5% diss. patchy py.
"	29.5- 29.7	20	0.008	0.07	87	15	35		P.'C., "glassy" basalt: minor → 0.5% diss. patchy py.
"	29.7- 29.9	20	0.234	0.73	2.16%	7	140	190 ppm	Chl.-altered, P.'C., basalt w/ 15% diss. & veinlet py.
								As	
"	29.9- 30.1	20	0.008	0.11	470	3	42		Seri.-ep.-altered, P.'C., "glassy" basalt flow Bx.
"	30.1- 33.3	320	<0.002	<0.01	77	1	37		Seri.-ep.-altered, P.'C., "glassy" basalt flow Bx.
"	33.3- 34.4	110	<0.002	<0.01	51	1	17		Seri.-ep.-altered, P.'C., "glassy" basalt T.A. or flow Bx.
"	34.4- 35.1	70	<0.002	<0.01	115	1	19		P.'C., "glassy" basalt T.L.A. or flow Bx.: aprx. 10-15% v.s. magnetic clasts; gen. 1% diss. patchy py.
"	40.1- 40.8	70	<0.002	<0.01	73	1	14		Seri.-ep.-altered, P.'C., "glassy" basalt T.L.A. or flow Bx.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-4	48.6- 49.3	70	<0.002	<0.01	31	1	15		'diabase': 1-3% diss. py.
"	57.2- 59.4	220	0.002	<0.01	140	1	21		Seri.-ep.-altered, P.'C., "glassy" basalt: micro bx'd 1-3% diss. py.
"	59.4- 60.9	150	<0.002	<0.01	63	1	18		Seri.-ep.-altered, P.'C., "glassy" basalt; 40 cm, f.→ v.f. xtln. basalt at base
"	60.9- 61.2	30	0.008	0.09	35	12	48		P.'C., "glassy" basalt: basal 7 cm chl.-altered w/ 3-4% patchy py.
	61.2- 61.42	22	0.014	0.11	36	18	28		Py-qtz.-cal.-basalt layer (vein?); 8-10% patchy & stg. py.
"	61.42-61.6	18	0.012	0.01	148	10	135		Chl.-altered, P.'C., "glassy" basalt
"	61.6- 61.65	5	0.020	0.26	91	18	94		Chl.-altered "glassy"? basalt: 25-30% veinlet and stg. py.
"	61.65-61.88	23	0.014	0.03	77	11	88		P.'C., "glassy" basalt T.L.A.
"	61.88-63.7	182	<0.002	<0.01	28	1	36		P.'C., "glassy" basalt T.L.A.
"	63.7- 64.6	90	<0.002	<0.01	44	1	46		dyke: v.v.f. xtln. bslt.
"	64.6- 65.91	131	<0.002	<0.01	62	1	47		P.'C., "glassy" basalt T.L.A. or T.A.L.
"	65.91-66.07	16	<0.002	<0.01	81	1	44		chert: grey-green

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-4	66.07-66.25	18	0.012	0.11	810	19	202		sub-glassy basalt
"	66.25-66.33	8	0.284	0.60	1200	37	120		msv. py: frcr. - controlled; 4-12 cm wide
"	66.33-66.59	26	0.018	0.28	64	18	112		sub-glassy basalt
"	66.59-67.0	41	0.006	0.01	174	1	187		sub-glassy basalt
"	67.0- 67.02	2	0.254	0.63	7300	100	145		msv. py. band-fracture controlled
"	67.02-67.9	88	0.009	0.03	320	1	213		sub-glassy basalt
"	67.9- 68.0	10	0.226	1.91	4.03%	42	2.22%		sub-glassy basalt w/ 1.2-2.5 cm thick band of msv., frcr. - py. at 30° to C.A.
"	68.0- 69.8	180	0.007	0.09	650	6	830		sub-glassy basalt
"	69.8- 69.99	19	0.056	0.50	0.65%	18	1.27%		6 bands of msv., frcr. - py., 0.5 - 1.5 cm thick, in "glassy" basalt
"	69.99-71.0	101	0.002	<0.01	123	1	69		sub-glassy basalt (10 cm) + 'diabase' (90 cm)
"	91.9- 93.4	150	0.012	<0.01	11	1	41		'diabase': 1% diss. patchy & frcr. py.
"	101.6-103.2	160	<0.002	<0.01	355	1	26		P.'C., "glassy" basalt: 4 bands of msv. to semi-msv. py. to 0.5 cm thick
"	111.7-112.0	30	0.002	<0.01	720	1	49		seri.-ep.-altered 'diabase': 10 cm of wk. chl. alteration & 2% patchy py.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-5	112.0-113.6	160	0.008	0.29	323	1	115		(P.'C.), "glassy" basalt w/ 4, chl. alteration zones, 4, 19, 5 and 11 cm wide, w/ 5-8% patchy diss. py.
"	127.0-127.5	50	<0.003	0.01	33	1	48		P.'C., "glassy" basalt w/ 0.5% frcr. - py.
"	132.5-134.3	180	<0.002	<0.01	54	1	35		basaltic chert interbedded w/ basaltic v.v.f. tuff
"	134.3-134.6	30	<0.003	0.22	79	1	49		basaltic xtl. tuff w/ 2% diss. py.
84-5	13.2- 13.7	50	<0.003	0.32	127	5	44		f. → v.f. xtl. basalt? w/ 1%, patchy diss. py.
"	13.7- 13.96	26	0.020	0.04	3000	3	48		(P.'C.), f. xtl. ? basalt w/ 6% diss. py. in 2 patches
"	13.96-14.3	34	<0.003	0.10	450	10	43		P.'C., "glassy" basaltic T.L.A. w/ 1-3% diss. py.
"	15.2- 16.2	100	<0.002	0.03	204	1	43		P.'C., "glassy" basaltic T.L.A. w/ 1-3% diss. py.
"	16.2- 16.4	20	0.012	0.17	385	13	39		v.s. ep. alteration zone w/ 20-30% patchy py; cuts basaltic T.L.A.
"	31.3- 32.05	75	0.002	0.03	250	1	46		P.'C., "glassy" basalt: loc. wk.→mod. magnetic; w/ 20 cm of mod. chl. alteration
"	32.05-32.3	25	0.034	0.15	2450	12	205		wk. chl.-altered, P.'C., "glassy" basalt w/ 4% patchy py; one patch cpy.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-5	32.3- 33.0	70	<0.002	0.03	167	1	32		P.'C., "glassy" basalt: loc. wk.→mod. magnetic
"	36.5- 37.9	140	<0.002	0.03	51	1	45		bedded basaltic? f. → v.f. xtl. tuff? (or banded flow or dyke)
"	37.9- 38.6	70	<0.002	0.01	103	1	23		P.'C., sub-glassy, andesitic? flow?: minor → 1% diss. py.
"	72.6- 73.3	70	<0.002	0.03	94	1	29		P.'C., "glassy" basalt: minor → 1%, irreg. diss. (& frcr.) py.
"	73.3- 73.41	11	0.020	0.01	97	1	39		P.'C., "glassy" basalt: 1→3%, micro-frcr. py.
"	73.41-74.4	100	<0.002	0.05	47	1	76		same as 72.6 - 73.3 m
"	85.7- 86.07	37	<0.003	0.10	29	2	30		'diabase' w/ 3% diss. py. & 1% frcr. - py.
84-6	25.0- 25.46	46	<0.003	0.01	240	1	40		msv. magnetite as irreg. patch 5→10 cm thick, w/ 2% patchy py. & 3% basalt; bounded by 2→4 cm of chl.- altered, P.'C., "glassy" basalt
"	38.7- 39.7	100	<0.002	0.01	20	1	31		P.'C., "glassy" basalt: loc. wk.→mod. magnetic
"	39.7- 40.23	53	0.016	0.01	38	2	49		(P.'C.), "glassy" basalt w/ to 1%, v.f. diss. magnetite and minor diss. & frcr. py.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-6	40.23-41.2	97	<0.002	0.03	14	1	37		P.'C., "glassy" basalt
"	51.4- 52.1	70	<0.002	0.01	16	1	26		P.'C., "glassy" basalt: few %, v.v.f. diss. magnetite
"	52.1- 53.2	110	<0.002	0.01	13	1	24		seri.-ep. altered, P.'C., "glassy" basalt
"	53.2- 53.9	70	<0.002	0.01	19	1	22		P.'C., "glassy" basalt: few %, v.v.f. diss. magnetite
"	57.9- 58.33	43	<0.003	0.04	24	1	40		(P.'C.), "glassy" → f. xtn. basalt w/ 0.5→1% diss. py.
"	65.1- 65.4	30	<0.003	0.08	30	1	40		f. xtn. basalt w/ 2-4% diss. magnetite & 3% py. bands & stgs.
"	70.45-70.65	25	<0.003	0.04	144	1	34		f. xtn. basalt w/ 0.5→1.5% diss. py.
"	73.7- 74.06	36	<0.003	0.12	590	1	50		f. xtn. basalt w/ 1→3% diss. magnetite & 0.5-2% diss. py.
"	75.3- 76.06	76	<0.002	0.03	425	1	39		f. xtn. basalt w/ 0.5→1.5% diss. py.
"	76.06-76.74	68	0.006	0.15	3200	4	40		wk.→mod. chl.-altered, f. xtn. basalt (32 cm) w/ 2% patchy & frcr. cpy.; 36 cm of basalt w/ 2→3% diss. py.
"	76.74-77.4	66	<0.002	0.03	223	1	41		f. xtn. basalt w/ 0.5→1.5% diss. py.
"	85.3- 85.68	38	<0.003	0.08	198	14	48		wk.→s. chl.-altered, f. xtn. basalt w/ 1→2% diss. (& frcr.) py

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-6	96.6- 97.0	40	<0.002	0.05	88	1	32		wk. chl.-altered, P.'C., "glassy" basalt w/ 2→3% v.v. f. diss. magnetite
"	102.7-103.55	85	<0.003	0.16	105	1	40		seri.-ep.-altered, basaltic f. xtl. tuff: wk.→mod. schistose, 0.5→1% diss. py. in maroon, ep.? alteration zones & to 2% diss. py. in tuff
"	103.55-104.4	85	<0.002	0.03	108	1	54		seri.-ep.-altered, basaltic f. xtl. tuff: v. wk.→wk. schistose, 1.5% → minor diss. py.
"	106.85-107.45	60	<0.003	0.04	67	2	68		bedded, seri.-ep.-altered, basalt xtl. tuff to cherty tuff (to basaltic chert) w/ 15%, graphitic? tuff laminations w/ minor → 2%, diss. py.
84-7	23.0- 24.0	100	<0.002	0.05	760	1	58		hornblende P., f. xtl. basalt: 13 cm w/ 4% patches cal. + qtz. w/ 1→4% patches of cpy. (& py.)
"	38.3- 39.0	70	<0.002	0.03	61	1	37		'diabase': wk.→mod. magnetic; minor → 0.5% diss. py.
"	39.0- 39.22	22	0.008	0.15	11	1	35		wk.→mod. chl.-(cal.-) altered, 'diabase': mod. magnetic; 1→2% diss. py.
"	39.22-40.0	78	<0.002	0.02	47	1	36		'diabase': wk.→mod. magnetic; minor → 0.5% diss. py.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-7	53.0- 53.3	30	<0.003	0.08	121	3	57		'diabase': wk.→mod. magnetic loc.; micro-bx'd; 1→3% micro-frcr. py.
"	53.3- 54.2	90	0.012	0.07	79	1	57		bedded, seri.-ep.-altered basaltic v.f. → v.v.f. tuff (to cherty tuff to basaltic chert): mod. schistosity; 0.5→2% diss. py.
"	54.2- 54.9	70	<0.002	0.04	254	1	53		same as above (53.3-54.2 m)
"	54.9- 55.5	60	<0.003	0.10	133	1	48		msv., seri.-ep.-altered basalt f. → v.f. xtl. tuff w/ 1→3% micro-frcr. py.
"	57.0- 58.05	105	<0.002	0.03	163	1	39		bedded to laminated, seri.-ep.-altered basalt v.f. xtl. tuff to cherty tuff (to basaltic chert): wk. schistosity; loc. to 0.5% qtz. grains; minor → 1% diss. py.
"	58.05-58.3	25	0.010	0.01	72	1	52		as above (57.0-58.05 m)
"	58.3- 58.41	11	0.018	0.04	1400	30	65		msv. py. (70%) w/ qtz. + cal. (10%) & chl.-altered basaltic tuff (20%) matrix. Frcr.? - controlled
"	58.41-58.71	30	<0.003	0.06	87	1	84		same as 57.0-58.05 m
"	66.2- 67.2	100	<0.002	0.05	67	1	78		same as 57.0-58.05 m w/ 8% graphitic? laminations

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-7									2→4→15 mm thick
"	72.1- 73.58	148	<0.003	0.12	76	1	90		same as 57.0-58.05 m w/ 10% graphitic? laminations
									1→8 mm thick
"	83.4- 84.4	100	<0.002	0.03	95	1	43		same as 57.0-58.05 m
"	84.4- 84.49	9	0.008	0.11	480	9	55		same as 57.0-58.05 m w/ 2 intervals, 1→2 cm and
									0→1 cm thick w/ 5→20% diss. py. in cal.-altered,
									tuff & bx'd chert
"	84.49-85.2	71	<0.002	0.03	70	1	39		same as 57.0-58.05 m, but w/ 5→7% graphitic?
									laminations
"	127.0-128.0	100	<0.002	0.05	68	1	49		same as 57.0-58.05 m
"	128.0-128.8	80	0.010	0.11	1550	8	57		same as 57.0-58.05 m but w/ 2% py-qtz.-cal. veinlets
"	128.8-128.9	10	<0.002	0.08	390	8	54		same as 57.0-58.05 m
84-8	10.6- 11.2	60	<0.003	0.14	145	1	42		bedded, graded, basaltic xtl. tuff to cherty tuff
									(to basaltic chert to chert) w/ 1→1.5% diss. py.
"	50.3- 51.45	115	<0.002	0.03	23	1	45		'diabase': tr.→minor diss. py.; 4 hornblende-rich
									(15→20%) mod. chl. alteration zones, 1→2, 15, 14→7

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8									& 1.5→3.5 cm wide, w/ 0.5→2% diss. py.: loc. s. magnetic
"	51.45-51.65	20	0.010	0.09	100	1	70		mod. chl.-altered 'diabase' w/ 2% diss. py.; about 15-20% hornblende
"	51.65-52.8	115	0.002	0.05	272	7	41		'diabase': tr.→minor (to 0.5%) diss. py.
"	52.8-54.07	127	<0.002	0.01	158	8	32		'diabase': tr.→minor (to 0.5%) diss. py.
"	54.07-54.4	33	0.008	0.05	52	2	35		'diabase': tr.→minor (to 0.5%) diss. py.
"	54.4-54.9	50	0.010	0.07	80	1	87		mod. chl.-altered 'diabase': 15→20% hornblende; 2 (to 4)% diss. py. and 1→2.5 cm zone of semi-msv. to msv. py.
"	54.9-55.16	26	0.006	0.07	14	1	33		'diabase': tr.→minor (to 0.5%) diss. py.
"	55.16-58.1	294	<0.002	0.01	59	1	30		'diabase': tr.→minor (to 0.5%) diss. py.
"	58.1-58.3	20	0.006	0.15	5	1	25		'diabase': tr.→minor (to 0.5%) diss. py.
"	58.3-58.93	63	<0.003	0.08	3300	1	50		'diabase': wk.→s. magnetic; 4 intervals, 12, 4, 21 & 3 cm wide, of mod. chl.-altered 'diabase' w/ 10→15% hornblende & 1% diss. py. & 20 cm w/ 2% diss. magnetite & 0.8→2.1 cm thick qtz.-cal.-py.-

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8									cpy. veinlet.
"	58.93-59.13	20	0.006	0.15	163	1	42		'diabase': wk.→s. magnetic; minor (to 0.5%) diss. py.
"	59.13-59.8	67	<0.002	0.01	144	11	71		'diabase': wk.→s. magnetic; minor (to 0.5%) diss. py.
"	59.8-61.05	125	<0.002	0.01	151	4	52		'diabase': wk.→s. magnetic; minor (to 0.5%) diss. py.
"	61.05-61.38	33	0.018	0.28	820	1	54		mod. chl.-altered 'diabase': hornblende rich (to 20%), 2% diss. py., 2% frcr.-py. (-qtz.-cal.-cpy.)
"	61.38-62.1	72	0.002	0.04	1540	5	41		'diabase': minor (to 0.5%) diss. py.
"	72.2-72.9	70	0.004	0.02	210	6	44		wk. chl.-altered 'diabase'; tr.→minor diss. & frcr. py.
"	72.9-73.36	46	0.006	0.17	238	1	73		var. chl.-, or seri.-ep.-altered, P.'C., (Amg'l?), "glassy" basalt w/ minor to 2% diss. py. & 3 patches of cpy. (to 2 x 4 mm).
"	73.36-74.4	104	<0.002	0.02	316	5	42		P.'C., "glassy" basalt: var. seri.-ep.-altered; non→ mod. magnetic; minor→1%, diss. & frcr.-py.; 1 x 2 cm patch msv. py.
"	78.6-79.27	67	<0.002	0.03	293	11	46		same as 73.36-74.4 m (w/out msv. py. patch); 40 cm w/ 50%,v.s. olive green ep. alteration.
"	79.27-79.5	23	0.014	0.13	210	1	38		same as 73.36-74.4 m

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8	79.5-79.9	40	0.020	0.20	630	1	80		chl.-altered (to 100%), P.'C., "glassy" basalt w/ 0.5%→2% diss. py. & 3 % frcr.-py.
"	79.9-80.1	20	0.010	0.13	53	1	54		same as 73.36 - 74.4 m
"	80.1-81.3	120	<0.002	0.01	67	1	47		same as 73.36 - 74.4 m
"	93.8-94.5	70	0.002	0.02	154	11	44		'diabase': minor (to 1%) diss. & frcr.-py.; 5→6 cm w/ 10% py. patches to 1 cm
"	94.5-94.95	45	0.014	0.07	170	1	72		chl.-altered, P.'C., "glassy" basalt w/ 2→3% patchy py.
"	94.95-95.3	35	0.014	0.19	65	1	55		wk. chl.-altered, P.'C., "glassy" basalt.
"	95.3-95.5	20	0.020	0.08	670	1	100		chl.-altered, P.'C., "glassy" basalt w/ 2→3% patchy py.
"	95.5-96.0	50	<0.002	0.04	378	1	59		f. xtl. basalt: minor→1% diss. & frcr. py.
"	96.0-96.8	80	<0.002	0.03	182	2	46		bedded, graded, basaltic f. xtl. tuff to cherty v. f. tuff to basaltic chert
"	96.8-97.4	60	<0.002	0.02	428	1	44		P.'C., "glassy" basalt L. xtl. tuff: var. seri.-ep.-, and chl.-altered
"	97.4-97.7	30	0.012	0.03	36	1	55		wk. chl.-altered, (P.'C), "glassy" basalt

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8	97.7-98.55	85	0.008	0.15	2300	1	108		s. chl.-altered, (P.'C.), "glassy"? basalt w/ 1→2% (26 cm w/ 3→4%) diss., stg. & frcr.- py. & cpy.
"	98.55-98.8	25	<0.003	0.01	375	1	52		(P.'C), basalt xtl. tuff w/ to 5%, L. clasts of micro- P.'C., "glassy" basalt; loc. minor to 1% diss. py.
"	115.1-117.13	203	<0.003	0.01	150	1	43		P.'C., "glassy" basalt var. chl.-, seri.-ep.-altered, P.'C., "glassy" basalt: 7→8 zones, 1→10 cm wide of mod. chl. alteration w/ 1→4% diss. & frcr. py.; 2 zones, 14 & 17 cm wide of v.s. seri.-ep. alteration; 40 cm w/ 2→3%, patchy frcr.-py.
"	117.13-117.35	22	0.008	0.09	55	1	58		(P.'C.), "glassy" basalt: basal 6 cm w/ mod.→s. chl. alteration & 1→4% diss. & frcr. py.
"	117.35-117.62	27	0.158	0.18	<0.01%	15	60		py.-cal.-qtz.-chl.-altered basalt-magnetite-cpy. layer (vein?): crudely banded; 40% py. overall (9cm w/ 85% py); 0.25% cpy. overall. True thickness aprx. 25.5 cm. Somewhat resembles Thistle mine mineralization.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8	117.62-117.89	27	0.012	0.13	65	1	61		seri.-ep., and chl.-altered, P.'C., "glassy" basalt w/ 8 cm wk.→s.chl. alteration w/ 1→2% patchy, diss. & frcr. py. at top
"	117.89-119.8	191	<0.002	0.01	39	1	30		seri.-ep., and chl.-altered, P.'C., "glassy" basalt: 16 cm of chl. alteration w/ 1→2%, patchy & frcr.-py.
"	119.8-120.1	30	0.016	0.01	345	1	74		wk.→s. chl. altered, seri.-ep.-altered, P.'C., "glassy" basalt w/ 1→2% patchy diss. & frcr. py.
"	120.1-121.0	90	<0.002	0.01	30	1	37		seri.-ep.-altered, & chl.-altered, P.'C., "glassy" basalt: 6 cm & 10 cm of s.→v.s. chl. alteration w/ 1→2% patchy, diss. & frcr. py.
"	121.0-121.7	70	<0.002	0.01	24	6	27		seri.-ep.-altered, P.'C., "glassy" basaltic T.L.A.
"	133.9-134.6	70	<0.002	<0.01	50	4	31		seri.-ep.-altered, P.'C., "glassy" basaltic T.L.A.: 50%, patchy, wk. →v. wk. chl. alteration
"	134.6-134.86	26	0.012	0.01	1050	1	135		chl.-altered, seri.-ep.-altered, P.'C., "glassy" basalt T.L.A. w/ 2% diss., patchy & frcr. py.
"	134.86-135.13	27	0.008	0.07	83	1	47		seri.-ep.-altered, P.'C., "glassy" basalt T.L.A., (as 133.9-134.6 m)

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8	135.13-135.31	18	0.008	0.07	105	1	88		mod.→s. chl.-altered, P.'C., "glassy" basalt T.L.A.:
									0.5% diss. & frcr. py.
"	135.31-135.7	39	0.002	0.01	320	6	29		seri.-ep.-altered, P.'C., "glassy" basalt T.L.A. (as
									133.9-134.6 m)
"	140.25-140.4	15	<0.003	0.01	20	3	33		P.'C., "glassy" basalt T.L.A.
"	140.4-140.55	15	<0.003	0.06	19	1	108		chl.-altered, P.'C., "glassy" basalt T.L.A. w/ 4%
									diss. py.
"	140.55-141.15	60	0.006	0.25	77	1	49		sub-translucent med. grey, P.'C., "glassy" basalt w/
									2→4% diss. py.
"	141.15-141.75	70	<0.002	0.01	61	4	30		sub-translucent med. grey, P.'C., "glassy" basalt w/
									2→4% diss. py.
"	152.7-152.89	19	<0.002	0.05	376	1	105		chl.-altered, P.'C., "glassy" basaltic T.L.A.: 1%,
									diss., patchy py.
"	152.89-154.1	121	0.002	0.03	405	1	61		P.'C., "glassy" basaltic T.L.A. w/ 5% overall, clasts
									of v.s. magnetic, P.'C., "glassy" basalt.
"	154.1-154.56	46	0.010	0.11	15	4	120		same as 152.89-154.1 m but w/ 30→50%, v.s. magnetic,
									P.'C., "glassy" basalt clasts (w/ up to 20→25%, v.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8									f. diss. magnetite in groundmass)
"	154.56-156.0	144	<0.002	0.01	18	1	51		same as 154.1-154.56 m
"	162.12-162.3	18	<0.003	0.44	195	1	120		same as 152.89-154.1 m
"	162.3-162.37	7	0.020	0.14	1800	3	140		s. cal.-altered, bx'd., basalt T.L.A. (as 152.89-154.1 m), w/ 3% diss. & frcr.-py. & 0.25% diss. patchy cpy.
"	162.37-162.52	15	0.010	0.09	145	22	75		same as 152.89-154.1 m, but w/ 1.5% diss. (& frcr.) py.
"	162.52-163.7	118	<0.002	0.01	136	1	52		same as 152.89-154.1 m, but w/ generally 0.5-1% (loc. to 2%), diss. patchy py.
"	163.7-163.85	15	0.026	0.05	55	38	140		chl.-altered, basaltic T.L.A. or A.T.L. as 152.89-154.1 m, but w/ 2-3% diss., patchy py.
"	163.85-164.8	95	<0.002	0.02	22	1	55		same as 152.89-154.1 m w/ gen. 0.5-1% diss., patchy py.
"	178.6-179.3	70	<0.002	0.01	19	1	32		same as 152.89-154.1 m w/ gen. 0.5-1% diss., patchy py.
"	179.3-179.44	14	0.018	0.14	39	2	70		wk. chl. altered, basaltic T.L.A. as 152.89-154.1 m,

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8									w/ 2→4% diss. patchy py. & 0.7→1 cm thick bank w/ 25→60% py. in frcr.
"	179.44-181.0	156	<0.002	0.01	17	1	26		same as 152.89-154.1 m, w/ gen. 0.5→1% diss., patchy py.
"	181.0-182.4	140	<0.002	0.01	23	1	48		same as 152.89-154.1 m, w/ gen. 0.5→1% diss., patchy py.
"	182.4-182.57	17	0.012	0.55	2800	1	885		mod.→s. chl.-altered basaltic T.L. as 152.89-154.1 m but w/ 1.3→3.2 cm wide band w/ 85% py. (& 15% cal.) & 0.5 x 3.5 cm patch w/ 5% patchy cpy.
"	182.57-184.7	213	0.002	0.02	83	12	128		same as 152.89-154.1 m w/ gen. 0.5→1% diss., patchy py.
"	184.7-186.8	210	<0.002	0.03	39	2	45		same as 152.89-154.1 m w/ gen. 0.5→1% diss., patchy py.
"	186.8-186.98	18	0.018	0.01	1350	3	130		mod. chl.-altered, basaltic T.L.A. as 152.89-154.1 m, w/ 3→6 cm band of msv. py. (w/ 10→20% cal. matrix) & 1.5 → 3 cm zone w/ 7%, patchy py. & cpy. (1.5%).
"	186.98-187.7	72	0.002	0.03	89	1	64		basaltic f. xtl. & ash tuff w/ 5→10% M.→C. tuff to F.

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-8									L. clasts of P.'C., "glassy" basalt. Gen. minor diss. & frcr. py.
84-9	9.6-9.83	23	<0.003	0.10	72	24	113	70 ppm B	chert: laminated, black (6 & 5 cm wide) and grey (6 & 13 cm wide). 0.25% v.f. diss. py. & few py- filled frcrs. w/ selvages to 1 cm w/ 5-15% diss. py.
"	20.4-21.4	100	<0.002	0.01	44	12	112		chert: Bx'd., buff-grey to creamy white; minor to 0.5% diss. py; 1-3% graphite-filled frcrs. 0.3- 4 mm thick.
"	21.4-22.1	70	<0.003	0.20	38	7	70	20 ppm B	same as 20.4-21.4 m
"	22.1-23.0	90	0.012	0.33	69	23	335	50 ppm B	chert: black, laminated, few % laminations w/ 1-5% v.f. diss. py.; 5 intervals, 2-8 cm wide, w/ 30% patchy, diss. to semi-msv. py; few graphitic frcrs.
"	23.0-24.1	110	<0.002	<0.01	33	4	113		chert: white, Bx'd; few graphitic frcrs.
"	24.1-27.8	370	0.002	0.02	64	18	383		chert: black to dark brown; laminated to very thin bedded: overall about 2-4% v.v.f. to v.f. diss. py to 50-100% py. in laminations 1-3 mm thick; 0.5%

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-9									graphitic frcrs.
"	27.8-28.7	90	0.006	0.01	52	18	190	150 ppm B	as 24.1-27.8 m but w/ 25 cm interval w/ 5, 1.5 mm thick laminations of semi.-msv. py.; 15 cm w/ 3 laminations of msv. py., 1→10 mm thick.
"	28.7-29.8	110	<0.002	0.01	50	16	220		as 24.1-27.8 m but 25 cm interval w/ 10, msv. py. laminations 0.5→2 mm thick.
"	29.8-30.4	60	0.008	0.29	60	50	130	70 ppm B	as 24.1-27.8 m but w/ 16, msv. py. laminations, 1→2.5 mm thick
"	30.4-31.1	70	0.002	0.01	52	13	345		chert: laminated to v. thin bedded, grey (to brown-black); overall 1→3% v.v.f. diss. py.; aprx. 3% laminations, 0.5→3 mm thick w/ 50 (to 100)% py.
"	38.4-39.1	70	0.002	<0.01	59	7	67		as 30.4-31.1 m but w/ 3% laminations of seri.?-altered, cherty, basaltic v.f. → v.v.f. tuff
"	39.1-39.55	45	0.008	0.13	49	9	52		as 38.4-39.1 m but w/ 3→4%, v.v.f. diss. py & few laminations, to 2 mm thick w/ 50→60%, diss. py.
"	39.55-40.2	65	<0.002	<0.01	40	5	48		as 39.1-39.55 m

HOLE	INTERVAL (m)	LENGTH	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	OTHER	LITHOLOGY
84-9	42.3-42.8	50	<0.003	0.24	33	10	55		chert: grey w/ few % black; laminated to thin-bedded;
									few % interbeds, 0.2-3 cm thick, of grey, graded,
									cherty, seri.-ep.-altered basalt v.f. tuff w/
									3-5% diss. py.; overall, 2-3% diss. py; w/ 2%,
									0.5-2 mm thick laminations w/ 50-70% diss. py.
"	44.5-44.9	40	<0.003	0.08	20	6	45		laminated to v. thin bedded, graded seri.-ep.-altered;
									basaltic v.f. xtl. tuff: 1% qtz. porphyroclasts?;
									minor diss. py.; few laminations, 2-5 mm thick, w/
									30-50% diss. py.
"	50.2-50.56	36	<0.003	0.10	42	4	63		laminated to v. thin bedded, graded, seri.-ep.-
									altered, basaltic v.f. tuff to cherty tuff (to
									basaltic chert, to black, graphitic? chert): minor
									to loc. 2-3% diss. py.; rare laminations w/ to 25%
									py.
"	55.1-56.1	100	<0.002	0.01	61	1	66		trachytic, seri.-ep.-altered, P.'C., (Amg'l),
									"glassy" basalt flow or sill?

APPENDIX E

LIST OF ABBREVIATIONS USED IN DRILL CORE
LOGS AND ASSAY TABLES.

APPENDIX E

ABBREVIATIONS USED IN DRILL CORE LOGS, HOLES 84-1 TO 84-9,
AND IN NOTES TO PLATE I, THISTLE PROPERTY, 1984

A.	agglomerate	clvg.	cleavage
abund.	abundant	com.	common(ly)
altr'd.	altered	conglom.	conglomerate
altrn.	alteration	cont.	continued
Amg'l.	amygduloidal	Cpy.	chalcopyrite
Amgs.	amygdules	Cren.	crenulation
'Andesite' or 'And.'	sericite-epidote altered basalt	Cu	copper
ang.	angular	Dac.?	dacite(?)
Ank.?	ankerite(?)	delic.	delicately
aprx.	approximately	dia.	diameter
Arg.	argillite	'Diab.'	diabasic textured flow
Argl.	argillaceous	diss.	disseminated
Aug.?	augite? or diopside	dk.	dark
bdd.	bedded	E.O.H.	end of drill hole
bdng.	bedding	Ep.	epidote
bldr.	boulder	F.	fine
blk.	black	F.C.	fresh colour
brwn.	brown	frags.	fragments
Bslt.	basalt	frcr.	fracture
Bx.	breccia	Fsp.	feldspar
Bx'd	brecciated	Fuch.	fushsite(?)
Bxn.	brecciation	gen.	generally
C.	coarse	grdd.	graded
C.A.	angle to core axis	grn.	green
Cal.	calcite	grn'd.	grained
Chl.	chlorite	grndms.	groundmass
Carb.	carbonate	grns.	grains
Cht.	chert	gy.	grey
chty.	cherty	Hemt.	hematite
clsts.	clasts	Horn.	hornblende

intrvl.	interval	s.	strong(ly)
irr. } irreg. }	irregular	Sauss.?	sausserite? (or sericite- epidote)
jspr.	jasper	sch.	schist
J.S.	joint surface	sch'ty.	schistosity
L.	lapilli	Seri.	sericite
lam'd.	laminated	sev.	several
lams.	laminations	stg.	stringer
loc.	locally	sulp.	sulphide
Ls.	limestone	T.	tuff
lt.	light	tk.	thick
lwr.	lower	tr.	trace
M.	medium	upr.	upper
Maf.	mafic	v.	very
Magt.	magnetite	var.	variable
Magt'c.	magnetic	vn.	vein
MicroP.	microporphyritic	vnlt.	veinlet
mod.	moderate(ly)	w/	with
msv.	massive	W.C.	weathering colour
Musco.?	read as uralite?	wht.	white
o/c	outcrop	wk.	weak
olv.	olive	W.S.	weathered surface
opaq.	opaque	wthr'd	weathered
org.	orange	wthrng.	weathering
P.	porphyritic	xtln.	crystalline
P. & G.	purple and green	yel.	yellow
P.clsts.	porphyroclasts	zn.	zone
phenos.	phenocrysts	±	plus or minus
pil.	pillowed	+	exposed
predom.	predominantly	(....)	less than 10%
purp.	purple	((...))	minor to few %
Py.	pyrite	~	approximate
Qtz.	quartz	≡	equivalent to rock at ...
Qtz. Kerato?	quartz keratophyre(?)	#	station number
rd.	red	∅	diameter
reg.	regular	→	ranging to
rx.	rock		