

M O R A N D A		E X P L O R A T I O N C O M P A N Y L I M I T E D	
STARTED:	Sept. 29/85	FIELD CO-ORDINATES	DIP TESTS
FINISHED:	Sept. 30/85	L 23 + 25E	Bearing Dip
LENGTH:	75.29 metres	20 + 87M	010 -53.5
CORE SIZE:	NO		

N.T.S. 105 D/4
PROJECT NO. 611
LOGGED BY: M. Webster/B. Thomas
SHEET 1 of 4

[illegible]

METRES			Recovery %	DESCRIPTION OF UNITS	Mineralization	Sample No.	METRES			ASSAYS					
From	To						From	To	Length	Au	Ag	Pb	Zn	Cu	As
				124.2-25.3: very gossanous, py grain casts containing Fe oxide boxwork <4 mm dia.	2x Py & casts	96312	24.2	25.3	1.2	10	1.0	114	252	18	20
				125.3-26.4: Py & Ga occur disse (v.f.g.) in very tiny stringers or fracture planes.	1x Py & 1x Ga	96313	25.3	26.4	1.1	10	3.6	1840	356	8	30
				126.4-27.4: Py & Ga occur disse in tiny veinlets concentrated along fracture surfaces. More consolidated core.	1.5x Py & 1x Ga	96314	26.4	27.4	1	10	.8	162	260	8	30
		25		129.4-32.2: Fault Zone											
				129.4-30.8: Heavily clay altered granodiorite with mafic phases. Very poor recovery, no visible sulphides											
		0		130.8-31.7: No core recovered over this interval.											
		33		131.7-32.2: As 29.4-30.8 interval, no visible sulphides.											
		60		132.2-33.0: Qtz vein, rusty brown to white, v.f.g. pitted surface, gossanous. Poor recovery. Ga @ ~32.25 m up to 50% of core over .05 m. Also solid Ga gravel size rounded chunk recovered. Top & bottom of Qtz vein is sheared; pliable clays obscure contact margins, clay alt'n pervasive through host granodiorite 2 cm either side of contact.	Blebs of Ga & 1 cm wide vein give sample ~3-4% Ga overall, Possible tr. Py	96315	32.2	33	.8	1200	200.0	>40000	402	82	6
		95		133.0-43.0: local fracture zones in granodiorite, minor jarosite and goethite on fracture surfaces & decreases toward end of hole.		96316	33	34	1	10	1.6	468	1260	26	6
				133.0-33.03: yellow brown clay											
43.0	46.0	100		1GRANODIORITE-Qtz-DIORITE: c.g., chloritic and sericitic gradational phase change to diorite from 40 m. Extensive white clay alt'n.		96318	43.4	44.5	1.1	30	3.2	218	118	42	2
				144.5: some py cubes locally and on fracture surfaces											
				1Mafic xenoliths or fraction of dyke material up to 5 cm width											
46.0	47.5	100		1MAFIC DYKE: dark green to dark grey, f.g. matrix with c.g. quartz phenocrysts & plagioclase. Moderately chloritized, sericitized. Epidote on fracture surfaces. Moderately magnetic. Minor Fe oxide on fracture surface (Up to 30% Qtz phenocrysts)		96319	46	47.5	1.5	20	.6	22	40	8	2
		100		147.5-47.95: fractured zone, rusty brown to yellow oxides on fracture surfaces. Dark green-grey overall colour due to chlorite alt'n. Gradational contact to granodiorite from 47.95-48.1 m.	Tr. fracture Py visible	96390	47.5	48	.5	40	1.0	204	530	38	50
48.1	52.1	100		1GRANODIORITE: c.g. moderate to extensive epidote alt'n and veinlets, moderate chlorite alt'n. Hb's partially altered to chlorite ~30%. Hb subhedral to euhedral crystals up to 1 cm length. Py finely crystalline occurs in blebs throughout rock and is concentrated on epidote altered fracture surfaces. Chlorite dioritic xenoliths present, 4 cm dia., <2% of interval. Also epidote altered. Subrounded gradational transition to less altered Py. poor granodiorite at 52.4 m.	1.5x Py	96391	48.7	49.2	.5	10	.4	16	92	28	72
						96392				20	.6	26	92	34	52

METRES			Reco- very %	DESCRIPTION OF UNITS	Mineraliza- tion	Sample No.	METRES			ASSAYS					
From	To						From	To	Lgth	Au	Ag	Pb	Zn	Cu	As
52.41	63.21	85		GRANODIORITE: containing intermittent subangular aefic rich diorite xenoliths up to 6 cm diam., fine grained chlorite rich matrices containing med. gr. plag, qtz ilath-like crystals, minor py, clay altered margins. Xenoliths make up 2% of this interval.											
				153.55: aplite veinlet 2 cm wide. Up to 70% qtz. Light to med. grey. Minor f.g. Hb's ~5%, Plag ~20% coarser grained. Vein is ~25 deg from core vertical. No visible sulphides.											
				155.34: aplite veinlet 1 cm wide, no sulphides or clay alt'n.											
				156.7-56.72: c.g. granodiorite with malachite stain local Cp crystal with malchite filling py cube boxwork. Does not occur within rock at upper & lower intervals.	3x Cpy & Py	96393	56.62	56.8	.18	30	5.6	64	144	540	64
				156.9-56.92: qtz veinlet (1 cm width. Contains f.g. cry- stalline py blebs also lens of py. Sulphides make up ~3% of vein, ~60 deg to core vertical. Fracture filling chloritization on surfaces, sausseritization and chlo- rite alt'n throughout up to 40% of rock.	3x Py with Qtz vein	96394	56.85	57.05	.2	30	.2	20	84	14	24
				159.2-59.22: med. grey aplite veinlet which has been displaced along tiny fracture surface, ~width of vein 12 cm, unclear contact.											
				162.3-62.45: med. green. chlorite altered with epidote veinlets and alt'n. Silicified zone. Dark brown oxides in tiny specs throughout rock on fresh and fractured surfaces. Appears to be a phase change with granodio- rite. No sharp contacts.											
				162.87-62.92: ~3.75 cm thick aplite dyke. Thin chlorite @ margins, clear cut contacts to 65 deg from core ver- tical. Lt. to med. grey colour, appears quite fresh. Minor sulphides, py locally @ contact (upper). Possible Ga or finely disse. magnetite in dyke.	Local Py @ contact	96395	62.87	63.07	.2	10	2.6	920	88	20	24
63.21	63.41			GOSSANOUS GRANODIORITE: Fe-oxide stain especially on fracture surfaces. Partially chlorite altered. Jarosite (lt. yellow) and goethite. Appears siliceous. Pyrite boxwork gossans. Intensely Fe-oxidized in places, ~1.5% py visible locally.	1.5x Py	96396	63.2	63.4	.4	10	.2	46	78	8	22
63.41	75.21			Xenoliths form 3% of interval. Subangular to subrounded Clearly distinct contacts. Up to 10 cm dia. Hb plagio- cline subhedral crystals (porphyritic) with fine gr. crystalline matrix of similar composition. Mafic dio- rite xenoliths in granodiorite host.											
				164.1-64.16: Aplite Dyke (2 cm width) granitic-rhyolitic dyke, med. to lt. grey chlorite alt'n along margins (contacts), 60 deg fro core vertical. Qtz ~75%, Plag ~10%, K-spar ~5%, magnetite or galena? finely disse within dyke.		96397	64	64.2	.2	10	.2	34	44	14	16

[illegible]