METALLIC MINERALS SURVEY
CIDA PROJECT 504/12713
DIAMOND DRILL LOG

HOLE NUMBER: CON - 1

PROJECT BELLAS GATE	JMG COORDINATES __	UNIT OF MEASUREMENT Feet	DATE STARTED 11/3/69
PARISH ST. CATHERINE	GRID COORDINATES -	NUMBER OF SAMPLES 45	DATE FINISHED 29/3/69
LOCATION CONNORS	ELEVATION (Metres) 399	FOOTAGE SAMPLED 206.0	CORE SIZE NX/BX/AXT
EPL NUMBER 400	AZIMUTH -	TOTAL DEPTH 497.0	DRILLED BY S.T.E Ltd (JA)
EPL HOLDER TREVCORP Ltd.	INCLINATION Vertical		LOGGED BY S. Amor

NOTES: Core relogged and resampled by SA in May/June 1991; only quartered core remains. Samples analysed at Activation labs, Ancaster, Ontario by Neutron Activation and at TSL by ICP. Analyses of additional elements, not included in this log, are attached on separate sheets. The log incorporates XRD information taken from Fenton, A.D., 1974 "Geology of the Connors Porphyry Copper Prospect, St. Catherine, Jamaica" M. Sc Thesis, Univ. Toronto, 167p.

PERCENTAGE OF CORE AVAILABLE FOR LOGGING AND SAMPLING

BOX	FROM	TO	%	BOX	FROM	TO	%	BOX	FROM	TO	%	BOX	FROM	TO	%	BOX	FROM	TO	%	BOX	FROM	TO	%	BOX	FROM	TO	%	BOX	FROM	TO
1			0	22	358.0	368.0	100																							
2			0	23	368.0	378.0	100																							
3			0	24	378.0	387.0	100																							
4			0	25	387.0	497.0	0																							
5			0	26	397.0	407.0	100																							
6			0	27	407.0	418.0	91																							
7			0	28	418.0	428.0	100																							
8			0	29	428.0	436.0	100																							
9			0	30	436.0	446.0	100																							
10	241.0	251.0	100	31	446.0	456.0	100																							
11	251.0	261.0	100	32	456.0	466.0	0																							
12	261.0	268.0	100	33	466.0	476.0	100																							
13	268.0	278.0	100	34	476.0	486.0	0																							
14	278.0	288.0	100	35	486.0	496.0	0																							
15	288.0	296.0	0	36	496.0	497.0	100																							
16	296.0	308.0	58																											
17	308.0	318.0	100																											
18	318.0	328.0	100																											
19	328.0	338.0	100																											
20	338.0	348.0	0																											
21	348.0	358.0	100																											

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HOLE NUMBER: CON-1 SUMMARY LOG

FROM	TO	DESCRIPTION	No	%SUL	FROM	TO	TOTAL	ANALYSES										
								Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
0	241.0	CORE MISSING. (Information comes from GE & SL log)																
0	34.0	Overburden																
34.0	74.0	Granite																
74.0	75.5	Contact Zone																
75.5	101.0	Andesite Ave. 0.1% Cu																
101.0	147.0	Granite Ave. 0.2% Cu																
147.0	212.5	Andesite Ave. 0.3% Cu																
212.5	241.0	Tuff Ave. 0.1% Cu																
241.0	260.5	FELSIC VOLCANICLASTIC Max 3% sulphide; Cu >0.1% from 256.0-260.5																
260.5	268.0	FAULT ZONE Max 0.5% sulphide																
268.0	271.3	FELSIC VOLCANICLASTIC 2% sulphide. >0.1% Cu																
271.3	278.0	ANDESITE 1% sulphide.																
278.0	282.7	FELSIC VOLCANICLASTIC 5% sulphide																
282.7	283.1	ANDESITE Trace sulphide																
283.1	287.1	FELSIC VOLCANICLASTIC 3% sulphide																
287.1	287.8	ANDESITE Trace sulphide																
287.8	302.0	FELSIC VOLCANICLASTIC Trace sulphide. >0.1% Cu from 287.8-302.0																

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FROM	TO	DESCRIPTION	No	%SUL	FROM	TO	TOTAL	ANALYSES										
								Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
302.0	425.2	ANDESITE Max 5% sulphide. >0.1% Cu from 318.0-323.0, 333.0-338.0, 402.0-407.0 Mo >50ppm from 308.0-313.0, 323.0-328.0, 402.0-407.0 Mag susceptibility >50 gammas (~5% magnetite) from 404.0-412.0																
425.2	426.0	FAULT ZONE Trace sulphide																
426.0	497.0	DIORITE/MONZONITE Max 0.2% sulphide. >0.1% Cu from 438.0-497.0. >0.1 g/t Au from 448.0-453.0																
	497.0	END OF HOLE																

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FROM	TO	DESCRIPTION
0	241.0	No Core
241.0	260.5	FELSIC VOLCANICLASTIC Grey and rather bleached-looking. Original composition may have been more mafic. Model Percent: Quartz (Eyes and patches) 10% Feldspathic mat'l 90% Clasts up to 0.3mm but most fragments are << 0.05mm. Very crumbly from 253.6 to 254.8 and 257.3 - 260.5 XRD scan of sample from 249 revealed the following minerals: Andesine, quartz, biotite, abundant chlorite, minor sericite, minor clays, possible pyrophyllite, minor K-feldspar. XRD scan of sample from 256.0 revealed plagioclase (undefined), quartz, chlorite, minor sericite, carbonate, minor clays, possible pyrophyllite, pyrite. Alteration Intermittent silicification throughout interval. Altered rock is weakly magnetic. Weakly altered rock contains veins of Py and Mt, some with thin chloritic selvedge and siliceous fringes. Where alteration is more pervasive (e.g. 246.4 - 250.5) texture is obscured and rock assumes pinkish colour, with greenish patches (chlorite) Mineralization Py, Mt veins, <1mm, making angles of up to 20° with CA. Mt forms fringe to Py core. Dissem, Py forms <1mm patches assoc. with chlorite patches. Trace Cpy on crack surface.
260.5	268.0	FAULT ZONE Greyish green, very clayey, may be advanced argillic alteration, or fault gouge. Mineralization 0.5% dissem. Py
268.0	271.3	FELSIC VOLCANICLASTIC Composition and texture similar to interval from 241.0 - 260. Very broken at top of interval, gradually assuming greater competence. Interval of fragile clayey material at 270.6 - 270.8 Mineralization 2% dissem. Py and Mt.

No	% SUL	FROM	TO	TOTAL	ANALYSES Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
C002	1	241.0	246.0	5.0	30	0.4	897	3	51	0.6	11	<2	0.3	9	<5
C003	3	246.0	251.0	5.0	21	0.3	789	11	39	0.6	5	<2	0.3	11	<5
C004	2	251.0	256.0	5.0	22	<0.2	885	4	45	<0.5	<5	2	<0.2	<5	<5
C005	1	256.0	260.5	4.5	35	0.5	1581	4	48	1.3	12	<2	<0.2	<5	<5
C006	0.5	260.5	264.3	3.8	23	<0.2	968	2	48	0.6	17	<2	0.5	<5	<5
C007	0.5	264.3	268.0	3.7	21	0.5	814	4	66	1.1	12	<2	0.3	<5	<5
C008	2	268.0	271.3	3.3	19	0.7	1067	4	71	2	<5	4	0.6	<5	6

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FROM	TO	DESCRIPTION	No	% SUL	FROM	TO	TOTAL	ANALYSES										
								Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
271.3	278.0	ANDESITE Dark green though looks more greyish under microscope Model percent: Mafic (Probably Amphibole) 15% Plagiclase (Phenocrysts) 10% Plagioclase (groundmass) 75% Grain size about 0.1mm, with plag. phenocrysts up to 1 mm. Intervals of clayey material at 271.8 - 272.1, and 274.5 - 276.0. Many unmineralized carbonate veins up, to 45° to CA. Mineralization 1% dissem. Py, no Mt. Sulphide/Carbonate veining from 275.0 - 275.7, no Mt.	C009	1	271.3	278.0	6.7	<5	0.3	383	2	62	<0.5	<5	<2	0.3	<5	<5
278.0	282.7	FELSIC VOLCANICLASTIC Greyish green Modal percent: Quartz (eyes and patches) 25% Feldspathic groundmass 70% Chlorite 5% Quartz eyes and patches up to 0.2 mm, groundmass << 0.05 mm. Alteration Chlorite patches, up to 5mm across, throughout interval. Patches of pinkish discolouration at 280.2 - 280.8 and 282.0 - 282.7. Mineralization Py veins, up to 15° to CA, and patches, associated with chlorite patches and on crack surfaces with carbonate. Fault surface at 281.5 - 282.0, lined with carbonate, sulphide and black amorphous material. Rock is generally very weakly magnetic, veins in alteration zone at 282.0 - 282.7 are more strongly so.	C010	5	278.0	282.7	4.7	17	0.5	766	2	53	0.7	<5	2	<0.2	<5	<5
282.7	283.1	ANDESITE Similar to previous andesite interval. Relatively unaltered. A few carbonate veinlets < 0.5mm, 30 - 40° to CA	C011	Tr	282.7	283.1	0.4	7	<0.2	91	5	64	<0.5	<5	3	0.5	8	5

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FROM	TO	DESCRIPTION	No	% SUL	FROM	TO	TOTAL	ANALYSES										
								Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
283.1	287.1	FELSIC VOLCANICLASTIC Similar compostion and texture to previous volcaniclastic interval. Alteration Silicified from 284.0 - 286.8. Pink and green discoloration assoc, with Py veining; green (chlorite) forms 1mm inner fringe, pink forms outer fringe of variable thickness. Chlorite also forms patches often associated with Py, as above. Mineral causing pink coloration cannot be identified. Mineralization Py/carbonate veins < 0.5 mm, mostly < 20° to CA, though one vein is perpendicular to it. Heaviest veining is in most highly altered material. 3% sulphide overall. Py also occurs as blebs in chlorite patches	C012	3	283.1	287.1	4.0	<5	<0.2	256	9	53	<0.5	16	<2	0.5	6	<5
287.1	287.8	ANDESITE Composition and texture as above.	C013	Tr	287.1	287.8	0.7	<5	<0.2	94	8	54	<0.5	<5	<2	0.3	<5	<5
287.8	302.0	FELSIC VOLCANICLASTIC Composition and texture as above. Major core loss in this interval Alteration Pink and green silification at 287.8 - 288.0, and in single fragment from interval between 296.0 and 302.0 Mineralization Py vein in altered fragment from interval between 296.0 and 302.0; 1 - 3mm thick, parallel to CA, weakly magnetic.	C014	Tr	287.8	302.0	14.2	33	0.6	1079	2	49	1.0	19	<2	0.4	9	<5
302.0	425.2	ANDESITE Composition of unaltered rock is similar to units higher in hole. Volcaniclastic intervals from 308.0 -318.0, 378.0 - 380.6. Large phenocrysts at 319.6 and 322.4. XRD scan of sample from 347.0: Andesine, minor quartz, biotite, minor amphibole, chlorite, minor carbonate, minor clays, possible pyrophyllite, minor pyrite. Slickensiding on faces subparallel to CA at 303.1, 312.3, 313.1 - 313.3, 313.6 - 314.0, making angle of 70° to CA consistently.	C015	0.5	302.0	308.0	6.0	<5	0.3	401	7	78	<0.5	24	<2	<0.2	6	<5
			C016	4	308.0	313.0	5.0	15	0.3	608	5	48	<0.5	68	<2	<0.2	<5	<5
			C017	4	313.0	318.0	5.0	32	0.2	942	10	47	0.9	44	<2	0.3	9	5
			C019	3	318.0	323.0	5.0	27	0.2	1161	3	45	1.4	9	<2	0.4	<5	7
			C020	3	323.0	328.0	5.0	27	0.3	800	6	47	0.5	51	3	0.3	<5	<5
			C022	3	328.0	333.0	5.0	31	0.2	928	4	47	1.6	19	<2	<0.2	<5	9
			C023	5	333.0	338.0	5.0	41	0.5	1071	7	84	1.8	17	3	0.4	<5	11
			C024	2	348.0	353.0	5.0	<5	<0.2	416	5	55	<0.5	<5	<2	<0.2	<5	<5
			C025	2	353.0	358.0	5.0	13	<0.2	266	6	51	<0.5	<5	<2	0.2	6	<5
			C026	4	358.0	363.0	5.0	20	<0.2	645	2	53	<0.5	7	<2	<0.2	<5	<5

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FROM	TO	DESCRIPTION
		Alteration Most of unit is altered to varying extents. Alteration follows a general pattern of a thin (0.2 - 2mm) chlorite fringe on both sides of a carbonate/sulphide/magnetite vein, with an outer, sometimes discontinuous fringe of pinkish or greyish discoloration. When veins are numerous, these fringes coalesce. Chlorite also occures as patches up to 3mm, often associated with disseminated sulphide. Unaltered rock occurs at 316.7, 337.3, 348.4, 349.5, 352.1 - 353.0, 367.7, 368.0 - 371.7, 373.6 - 374.6, 378.0 - 380.6, 401.7 - 403.0, 418.5 - 418.7, 419.4 - 419.7, 420.8 - 421.2. Some crack and fracture surfaces have a clayey feel, e.g. at 303.3, 325.8, 331.0 - 333.4. Mineralization 302.0 - 407.0 Sulphide (mostly Py) occurs throughout interval in veins and on crack surfaces with Mt and carbonate. Veins are 0.2 - 5mm thick, and most make angles of < 15° to CA. Most veins have a thin chloritic inner fringe, and pink or grey outer fringe. Some suphide also occurs in patches up to 3mm across, associated with Mt and carbonate. 304.0 - 305.6 Carbonate vein with trace of Cpy. 356.7, Vuggy quartz in sulphide vein 360.7 - 361.2 324.4 and 326.2 Limonite staining, trace Mc. Magnetite increases from 1% to 3% onwards, as sulphide tenor decreases. 407.0 - 418.0 Only trace sulphide present, though Mt/Carbonate veins persist, <20° to CA. 418.0 - 425.2 Sulphide 0.1%, Mt/Carbonate veins persist. Hematite on crack surfaces at 408.3 and 408.8
425.2	426.0	FAULT ZONE Mostly crushed rock. Hematite on crack surface
426.0	97.0	DIORITE/MONZONITE Rock name varies because of varying amounts of K-feldspar Model Percent (at 432.0) Grey feldspar 60% Pink feldspar 30% Biotite 10% (at 496.0) Grey feldspar (mostly phenocpts) 60% Biotite (fine matrix) 35% Quartz 5%

No	% SUL	FROM	TO	TOTAL	ANALYSES										
					Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
C027	5	363.0	368.0	5.0	<5	0.3	449	5	52	<0.5	<5	<2	<0.2	<5	<5
C028	1	368.0	373.0	5.0	<.5	<0.2	465	6	47	<0.5	6	<2	<0.2	<5	<5
C029	4	373.0	378.0	5.0	15	0.3	431	7	49	0.5	13	<2	0.3	7	<5
C030	4	378.0	383.0	5.0	8	<0.2	382	2	54	<0.5	<5	3	<0.2	5	<5
C031	5	383.0	387.0	4.0	<5	0.5	813	4	54	<0.5	<5	4	0.5	10	<5
C033	1	397.0	402.0	5.0	12	0.5	616	7	57	0.8	5	4	0.3	<5	<5
C034	1	402.0	407.0	5.0	39	0.6	1015	4	62	0.5	58	<2	0.3	13	<5
C035	Tr	407.0	412.0	5.0	<5	0.6	595	7	93	1.9	10	<2	<0.2	<5	<5
C036	Tr	412.0	418.0	6.0	15	0.2	673	6	66	<0.5	20	<2	0.4	<5	<5
C037	Tr	418.0	422.0	4.0	14	0.2	401	10	51	<0.5	15	4	0.5	<5	<5
C038	Tr	422.0	425.2	3.2	21	0.3	479	8	51	<0.5	29	3	0.2	<5	<5
C039	Tr	425.2	428.6	2.4	16	0.3	580	13	72	<0.5	14	5	0.8	<5	<5
C040	Tr	425.6	428.0	2.4	<5	<0.2	410	6	51	<0.5	7	3	0.5	<5	6
C042	Tr	428.0	433.0	5.0	<5	0.6	399	2	43	<0.5	<5	3	0.5	<5	<5
C043	Tr	433.0	438.0	5.0	9	0.6	978	11	51	<0.5	11	<2	<0.2	<5	<5
C044	Tr	438.0	443.0	5.0	33	0.5	1258	6	32	<0.5	13	<2	<0.2	<5	<5
C045	Tr	443.0	448.0	5.0	62	0.7	2578	5	42	0.7	13	<2	0.3	<5	<5
C047	Tr	448.0	453.0	5.0	116	0.5	3943	13	55	0.9	6	<2	0.4	<5	<5
C048	Tr	453.0	456.0	3.0	40	0.6	2606	11	43	0.7	<5	<2	0.3	<5	<5
C049	0.2	466.0	471.0	5.0	31	0.5	1864	18	65	0.6	13	4	2.2	<5	<5
C050	0.2	471.0	476.0	5.0	47	0.7	1952	16	72	0.8	17	3	1.6	<5	<5
C051	Tr	496.0	497.0	1.0	21	0.3	1068	8	40	<0.5	<5	<2	<0.2	<5	<5

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								Au	Ag	Cu	Pb	Zn	Cd	Mo	As	Sb	Bi	Se
		XRD scan from 457.0: Plagioclase, quartz, abundant biotite, chlorite, K-spar, pyrite. Grain size varies from 0.2 - 1mm. Plag Phenocrysts up to 1mm Alteration 426.0 - 428.0 Dark green altered material of uncertain derivation. In general, alteration is similar to overlying andesite, but less intense, that is, the siliceous fringes of the veins do not coalesce to the same extent. 428.0 - 428.5, 429.3 - 429.7 and 439.9: Greyish colour from pervasive silicification: Chlorite patches up to 3mm. 430.0 - 433.2: Rock is unaltered, except carbonate vein at 430.8 with 0.5mm chloritic fringe 468.0 - 476.0: Intensely altered to 3mm patches and veinlets of chlorite in a grey to white matrix. 476.0 - 497.0 Relatively unaltered. Mineralization Sulphide mineralization is very scarce in this unit, though magnetite persists. 429.3 - 429.7 Trace dissem sulphide, including some Cpy 430.0 Carbonate vein with Mt, trace Py 431.5 - 433.3 Discontinuous carbonate veinlets carrying specks of sulphide 433.3 0 436.0 Mt/carbonate veins with chloritic selvedge. Sulphide is absent 436.0 - 446.0 Isolated dots and patches of Py assoc. with chlorite 439.0 - 439.3 Many fragments are Mt rich with specks of limonite <1mm 446.0 - 456.0 Mt/quartz/carbonate veins; trace sulphide in these and in chlorite patches. Hematite at 451.1 466.0 - 476.0 Mt/carbonate/chlorite veins. Py more abundant in this interval (0.2%). Vein at 475.1 is anomalously Py-rich and Mt-poor, though still weakly magnetic.																
	497.0	END OF HOLE																