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Consultants

February 12, 1991

Geological Survey of Canada 100 West Pender Street Vancouver, BC V6B 1R8

> Attention: Ken Dawson Re: PGE in Alkaline Porphyry Systems

Dear Ken,

Thanks for the information at the Roundup.

Please find enclosed the following:

- a). Rock assays from the Sappho Property from 1981. I thought I had other results but can't locate any.
- b). Assays & logs of drill core from the Friday Creek Property west of Similco (see location map). Also note the PGE in soils.

I trust these may be of some use.

Yours truly,

DISCOVERY CONSULTANTS

W.R. Gilmour

Encl.







Co-Ords: Azimuth: Dip: Elevation: Length: Section: Purpose:	110 deg. -45 121.92r Test Gold	Discovery Consultants Drill Log n d - Platinum Geochemical Anomaly	Drill type & size: NQ lex Drilling Dip tests: Dip tests: Dip tests: Dip tests: Dip tests: Dip tests: Dip tests: Date St.: Date Fin: Logged by: D.C. Miller Date Logged: Nov 23-28/87											
Interval From	(Metres) To	Description	Sample ID	Sample In From	nterval To	Length %	Recovery	Au ppb	Pd ppb	Pt ppb	Ag ppm	Cr ppm	Cu ppm	Zn
0	(3.0)*	Casing, no core *(Start of Bedrock not marked-estimated).											•	
(3.0)	11.60	GABBRO Dark grey-green to black; generally fine- grained with prominent fine to coarse black biotite as vein-like clots and disseminations; strongly magnetic; cut by a number of fine white calcite veinlets mainly at 30-70 degrees, average 10/m and about 1mm thick; core breaks average 1/15cm commonly along fractures at 20-70 degrees, mainly 45-70 degrees.	42801 42802 42803	(3.0) 5.0 8.0	5.0 8.0 11.6	2.0 3.0 3.6	(95) 99 80	4 2 -2	40 36 8	20 25 20	-0.2 -0.2 -0.2	117 152 112	17 18 39	65 57 60
		(8.40-9.10)- Lighter grey, more fine grained anhedral feldspar, dioritic.												
11.6	13.1	GABBRO (FAULT ZONE) Broken, brownish colored with some brown mud.												
13.1	23.3	GABBRO As (3.0-11.6), generally better core in pieces up to 1m: cut by a number of lighter colored dykes and orange colored K-feldspar stringers and alteration patches starting at 15.0.												
			42804	11.6	13.1	1.5	60	-2	12	5	-0.2	93	43	81

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Interval From	(Metres) To	Description	Sample ID	Sample I From	nterval To	Length	% Recovery	Au ppb	Pd ppb	Pt ppb	Ag ppm	Cr ppm	Cu ppm	Zr ppr
		(13.1-16.0) Broken core with gouge at (15.0-15.2)	42805	13.1	16.0	2.9	70	2	10	20	-0.2	98	44	72
			42806	16.0	18.5	2.5	99	8	10	10	-0.2	122	756	62
			42807	18.5	21.5	3.0	99	-2	4	15	-0.2	135	30	6
		(16.0-23.3)- Good core in pieces averaging 30cm, breaks at 15 degrees, 45 degrees and 60- 70 degrees most common, often on white carbonate and quartz-carbonate healed fractures, average about 10/m.	42808	21.5	23.3	1.8	99	-2	-2	20	-0.2	125	56	59
		 17.6- 2cm grey-orange quartz-feldspar stringer at 50 degrees, barren. 18.6- 4cm orange K-feldspar stringer at 45 degrees, carries some fine biotite and possibly bornite (bn). (18.7-19.2)- Pale orange-grey monzonite? dyke, sharp 40 degree contacts; broken at (18.7- 18.9). 												
23.3	25.0	GABBRO (ALTERED) Medium grey, gradational contact with preceding unit 4cm; veined and replaced by orange K-feldspar; contains fair disseminated bn and cp in grains often associated with anhedral biotite; cut by a number of fine white calcite-quartz veinlets, approximately 15/m; fault at (24.9-25.0) at 50 degrees.												
25.0	25.6	MONZONITE DYKE Light orangey grey, very fine grained to aphanitic, sharp contact at 25.6 at 10-70 degrees; sparse auhedral fine biotite with traces of bn.												
25.6	37 -	3 GABBRO								.				
23.0	JJ.,	As 13.1-23.3 some by associated with orange	42809	23.3	26.0	2	7 95	60	34	15	1.6	67	2390	3
		value at (05 C 0C 0)	42010	26.0	20.0	2.	, 55	00	, , ,	10		105	117	, ,

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Interval	(Metres)	Description	Sample ID	Sample Interval		Length % Recovery		Au	Pd	Pt	Ag	Cr	Cu	Zn
From	То			From	То			ppb	ppb	ppb	ppm	ppm	ppm	ppm
······································			42811	29.0	32.0	3.0	99	-2	6	10	-0.2	177	90	74
		29.7 1cm white carbonate at 15 degrees. (30.0-30.5)- Monzonite dyke, broken, with orange K-feldspar veining, sparse cp-bn. (30.5-33.0)- Six K-feldspar stringers from 1 to 10cm. (32.5-33.3)- Some prominent coarse black biotite associated with soft greenish grey alteration; fault gouge at (33.2-33.3).	42812	32.0	33.3	1.3	95	4	10	5	-0.2	131	296	76
33.3	35.3	K - FELDSPAR ALTERATION ZONE Orange, fine grained to aphanitic, broken, about 1% pyrite-cp with pyrite equal to cp as disseminations with grains up to 3mm; also some fine anhedral honey colored mineral (sphalerite)?; core weakly to non-magnetic. (33.3-33.5)- Soft, shattered with gouge-fault. 35.3-45 degrees contact with 3mm gouge on fault with coarse black biotite.	42813	33.3	35.3	2.0	85	4	90	25	0.4	144	1425	45
35.3	37.8	GABBRO As (13.1-23.3) minor k-feldspar veining, broken at 38.7 with coarse black biotite.	42814	35.3	37.8	2.5	95	4	24	10	-0.2	220	519	88
37.8	39.0	K-FELDSPAR ALTERATION ZONE As (33.3-35.3); broken core; less than 1% cp- py, py equal to cp.	42815	37.8	39.0	1.2	90	34	1665	215	0.2	143	941	33
39.0	42.0	GABBRO Dark to pale grey green, generally broken core with a soft, bleached section at (40.7-41.1), soft and sheared at 70 degrees at (41.1-41.5), with reddish-brown 70 degree banding; this section at (40.7-41.5) may be an inclusion of Nicola volcanics; minor K-feldspar veining (2mm veinlets). (41.5-42.0)- Chloritized, massive.	42816	5 39.0	42.0	9 3.0	95	40) 134		5 -0.2	66	i 70:	3 56

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Interval From	(Metres) To	Description	Sample ID	Sample In From	iterval To	Length % R	ecovery	Au ppb	Pd ppb	Pt ppb	Ag ppm	Cr ppm	Cu ppm	Zn ppm
42.0	44.3	GABBRO												
		As (13.1-23.3)- Prominent coarse black biotite with greenish altered bands, minor K-feldspar veining.	42817	42.0	44.3	2.3	99	70	8	-5	0.4	119	1580	61
		(42.0-42.1)- Monzonite dyke- 45 degree contacts, sharp.												
44.3	52.8	DIORITE												
		Now lighter grey colored, more felspar fine	42818	44.3	47.3	3.0	95	24	8	10	-0.2	43	954	65
		medium grained anhedral feldspars and mafics;	42819	47.3	50.3	3.0	99	44	10	10	0.4	30	1755	60
		fractured blocky core in pieces averaging 10cm; breaks along fractures at 30-70 degrees, few at 0-15 degrees; some fine white carbonate	42820	50.3	52.8	2.5	95	36	16	-5	0.4	27	1140	64
		K-feldspar/monzonite stringers up to 4cm												
		thick; minor bn and cpy, much less than 1%, bn												
		at 49.4 as 2mm discontinuous veinlet, minor hematite on fracture faces; core strongly megnetic												
		75 degree contacts with shearing over 0.10 m at 52.8.												
		(49.0-49.4)- Monzonite dyke, broken,												
52.8	63.8	GABBRO												
		As 13.1-23.3, good core, several (about 6/m)												
		than 2 cm thick at 30-80 degrees: also several	42821	52.8	55.8	3.0	99	34	12	5	-0.2	220	447	7
		white calcite-guartz veinlets (about 10/m):	42822	55.8	58.8	3.0	99	24	8	10	-0.2	212	329	6
		minor disseminated, bn and cp, best at (61.7-	42823	58.8	61.8	3.0	99	14	4	-5	-0.2	313	145	7
		63.8).	42824	61.8	63.8	2.0	99	92	14	5	0.4	291	1320	5
		(58.3-58.9)- 1mm calcite veinlet at 0 degrees												
		with purple-red oxide plus minor pyrite.							-					
63.8	106.	D MONZONITE												
		Grey to pink; medium to coarse grained anhedral												

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From To	Description	Sample ID	Sample 1 From	interval To	Length %	Recovery	Au ppb	Pd ppb	Pt ppb	Ag ppm	Cr ppm	Cu ppm	Zn ppm
	aggregate of feldspars and mafics; cut by several irregular orange to pinkish veins and patches associated with fractures at 20-70 degrees; core breaks on fractures with core in 20cm pieces to 71.5m and then in 5cm pieces to 81.1, mafics are partly chloritized; occasional red hematite coating some												
	fractures; moderately magnetic. Several fine,	42825	63.8	66.8	3.0	99	14	46	-5	-0.2	37	153	57
	often discontinuous white calcite veinlets	42826	66.8	69.8	3.0	99	2	32	-5	-0.2	15	55	74
	healing some fractures average about 12/m;	42827	69.8	72.8	3.0	99	-2	60	-5	-0.2	18	51	62
	occasional calcite-quartz veinlet to 1cm	42828	72.8	75.8	3.0	95	-2	4	-5	-0.2	12	99	64
	thick at 60.0-70.0.	42829	75.8	78.8	3.0	95	2	8	-5	-0.2	20	118	96
	(64.5-65.5)- Some leaching on fractures.	42830	78.8	81.8	3.0	95	-2	10	-5	-0.2	10	46	58
		42831	81.8	84.8	3.0	95	2	6	-5	-0.2	33	226	59
	(73.0-73.15)- Bleached, crushed with fault	42832	84.8	87.8	3.0	95	2	4	-5	-0.2	28	227	71
	gouge.	42833	87.8	90.8	3.0	95	-2	10	-5	-0.2	39	751	68
		42834	90.8	93.8	3.0	99	-2	6	-5	-0.2	11	74	67
	73.4- Minor cp with 5mm white carbonate vein	42835	93.8	96.8	3.0	99	42	32	-5	-0.2	33	160	63
	at 60 degrees and orange K-feldspar	42836	96.8	99.8	3.0	99	8	8	10	-0.2	29	357	55
	alteration.	42837	99.8	102.8	3.0	99	4	18	-5	-0.2	40	130	77
	 (73.40-81.70)- Broken core, chlorite on fracture faces, also some purple-red hematitic mineral. 79.5- More orange K-feldspar alteration, minor cp and py associated with K-feldspar. 83.4- 5cm fault gouge (82.8-106.0)- 30% orange K-feldspar alteration with fair cp at (87.3-93.8), generally sparse cp associated with K-feldspar alteration elsewhere, also occasional bleb of cp in monzonite. (87.3-87.8)- Cp associated with angular grey quartz veining-prominent fracture with 5mm quartz at 187.5 at 45 degrees. 89.4- 7cm crushed with gouge. (89.4-106.0)- Good core in pieces to 0.5m 	42838	102.8	105.8	3.0	99	4	-	-5	-0.2	26	264	71

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Interval From	(Metres) To	Description	Sample ID	Sample From	Interval To	Length %	Recovery	Au ppb	Pd ppb	Pt ppb	Ag ppm	Cr ppm	Cu ppm	Zn ppm
		94.5 - epidote with 60 degrees fractu	ure.											
		(102.2-102.8), (104.9-105.1)- Red her	matite 42839	105.80	108.80	3.00	99	50	42	-5	-0.2	33	355	77
		coating fractures at 60 degrees with	broken 42840	108.80	111.80	3.00	99	16	12	-5	-0.2	39	605	65
		core.	42841	111.80	114.80	3.00	99	12	16	5	-0.2	33	225	70
		(101.2-102.0)- Several dark inclusion	ns to 4cm. 42842	114.80	117.80	3.00	99	6	16	-5	-0.2	41	169	62
			42843	117.80	120.40	2.60	99	20	16	-5	-0.2	30	199	57
106.0	121.92	DIORITE	42844	120.40	121.92	1.52	99	4	32	-5	-0.2	32	42	59
		Medium grey fine to medium grained, a more finer-grained than previous sec contact sharp and undulating at 0-25 cut by numerous aphanitic orange K-f alteration stringers, commonly less and mainly at 45-70 degrees; also so aphanitic to medium grained monzonit stringers generally good core in pie averaging 20cm; blocky and broken at (114.0-116.5) and (120.8-120.6); cor magnetic.	darker and tion; degrees; eldspar than 1cm me pink e cces re strongly											
		Fair cp associated with orange K-fel (106.5-106.7), otherwise very sparse	dspar at e.											

END OF HOLE

A "-" symbol for any geochem value refers to a result less then detection limit.

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