

DIAMOND DRILLING
CANOVA RESOURCES LTD.
Osoyoos Mining Division

NTS 82-E-5

Owned by: Canova Resources Ltd.

Work by: Placer Development Ltd.

S.J. Tennant

October 1986

A.R.

09/18/7

15,244

09/18/7

KAMLOOPS



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
Drilling	\$40,748.00

AUTHOR(S) S. Tennant SIGNATURE(S) *S. Tennant*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED July 30, 1986 YEAR OF WORK 1986

PROPERTY NAME(S) LAKE, NOVA

COMMODITIES PRESENT _____

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN _____

MINING DIVISION Osoyoos NTS 82 E/5W

LATITUDE 49° 23.6' LONGITUDE 119° 56.7'

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property: (Examples: TAX 1-4, FIRE 2 (12 units), PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims inventoried))

NOVA 5-12 (8 units total), ROY 1-2 (2 units total), LAKE 1-4 (4 units total), RICK FR. (1 unit), BLAKE FR. (1 unit)

OWNER(S) (1) Canova Resources Limited (2) _____

FILMED

MAILING ADDRESS 500-455 Granville Street Vancouver B.C., V6C 1V2

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

OPERATOR(S) (that is, Company paying for the work) (1) Placer Development Limited (2) _____

15,244

MAILING ADDRESS P.O. Box 49330 Bentall Postal Stn., Vancouver B.C., V7X 1P1

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):
The claims are underlain by Upper Triassic Nicola Group sedimentary and volcanic rocks which have been intruded by igneous rocks of later Mesozoic and early Tertiary ages. Drill core analyses returned low gold values.

REFERENCES TO PREVIOUS WORK _____

STATEMENT OF EXPENDITURE

Diamond Drilling Cost

535.51 m NQ drilling @ \$56.00/m \$29,988.00

Sample Preparation and Assay Cost

165 drill core samples @ \$14.00/sample
Analysis for Au, As, Cu and Ag \$ 2,310.00

Labour Cost

S. Tennant	12 days @ \$400/day	\$4,800.00	
S. Price	10 days @ \$135/day	<u>1,350.00</u>	
		\$6,150.00	\$ 6,150.00

Camp Operation

22 days @ \$55/day/man \$ 1,100.00

Transportation

3/4 Ton Chev 4x4 pick up for 10 days
@ \$50.00/day \$ 500.00

Report Preparation

2 days @ \$350/day \$ 700.00

Total Costs \$40,748.00

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Summary

During June - July, 1986, Placer Development Limited carried out a four hole diamond drill program on the Nova and Lake claims. The holes were drilled to test geophysical anomalies previously outlined.

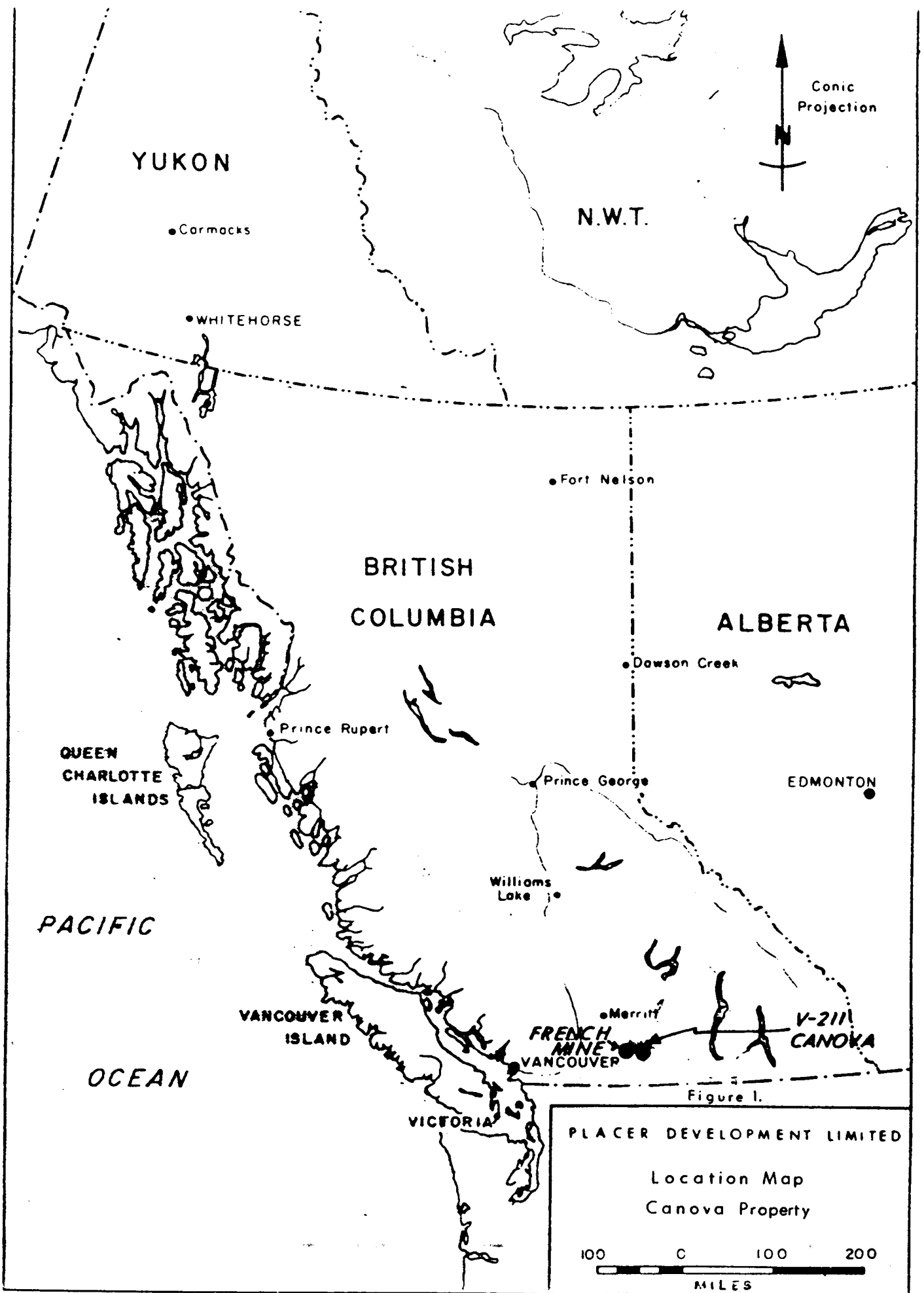
Results of the drilling gave no encouragement for further work.

Introduction

Four NQ diamond drill holes totalling 535.51 m (1757 ft) were drilled to test geophysical anomalies which had been delineated in 1985. The drill holes were designated 86-14, 86-17, 86-18 and 86-19.

Location and Access

The property is located 6 km from the Apex Alpine ski resort. Access is by two wheel drive forestry access road from the resort.



Claim Ownership

A total of 16 located mineral claims were optioned by Placer Development Limited from Canova Resources Limited. The property consists of the following claims:

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Anniv. Date</u>
Nova 5	1	2067	August 1
Nova 6	1	2068	August 1
Nova 7	1	2069	August 1
Nova 8	1	2070	August 1
Nova 9	1	2071	August 1
Nova 10	1	2072	August 1
Nova 11	1	2073	August 1
Nova 12	1	2074	August 1
Roy 1	1	2065	August 1
Roy 2	1	2066	August 1
Lake 1	1	797	July 30
Lake 2	1	798	July 30
Lake 3	1	799	July 30
Lake 4	1	800	July 30
Rick Fr.	1	2299	September 4
Blake Fr.	1	2298	September 4



NICKLE PLATE LAKE

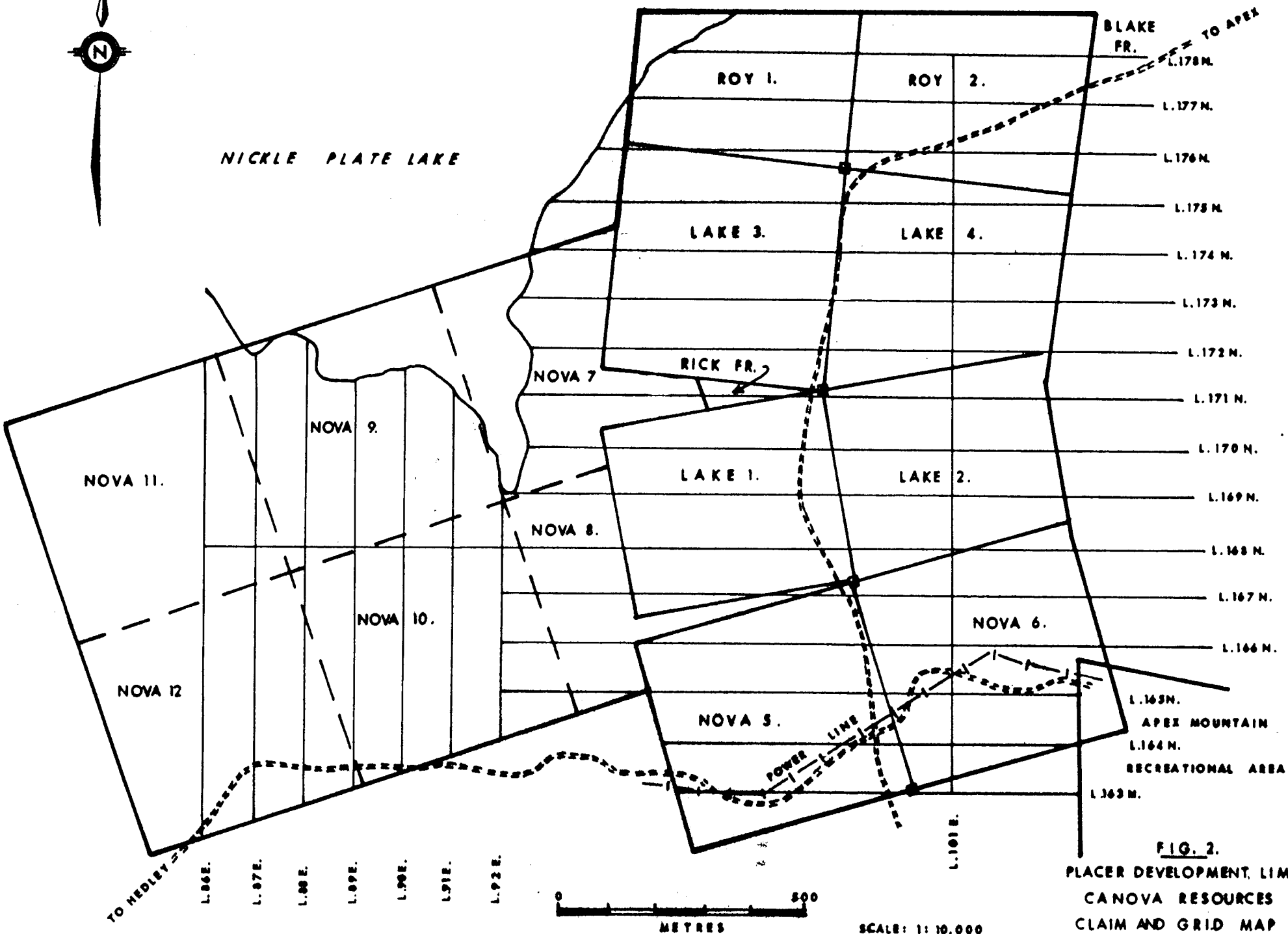


FIG. 2.

PLACER DEVELOPMENT, LIMITED
CANOVA RESOURCES
CLAIM AND GRID MAP

Diamond Drilling, Sampling and Assaying

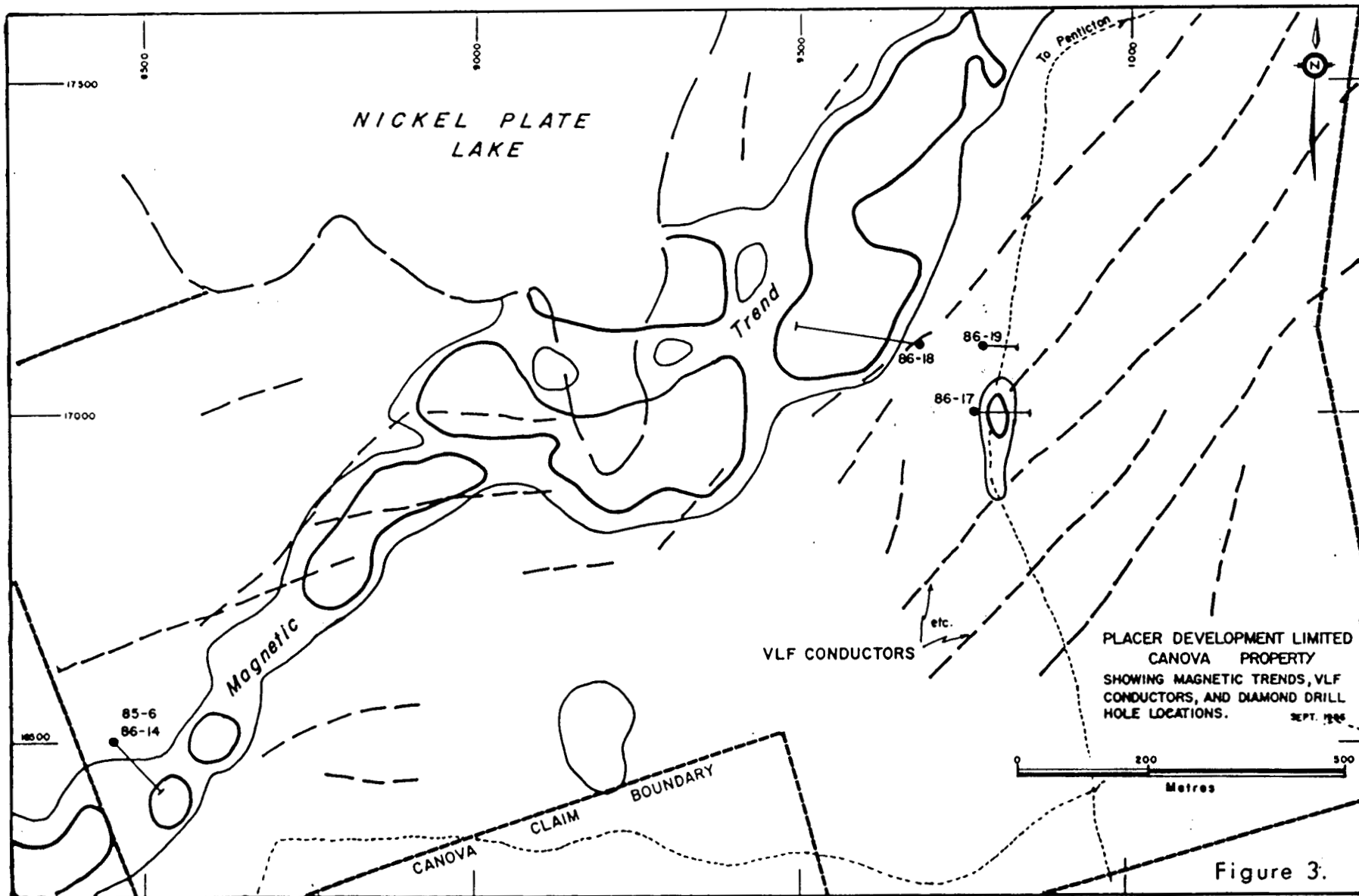
During June - July, 4 diamond drill holes totalling 535.51 m (1757 ft) were drilled to test geophysical anomalies. The location of the drill holes, designated 86-14, 86-17, 86-18 and 86-19 are shown on figure 3. All drill core was logged, split, sampled and analyzed for Au, Ag, As and Cu.

The NQ diamond drill core was sampled on 3 meter intervals. The core was split with one half remaining on the property, the other half was bagged and dispatched to the Placer Development Research Laboratory in Vancouver.

At the laboratory all core samples were dried, crushed, split and a 300 gram subsample pulverised to provide an aliquot for analysis.

Gold in the core samples was determined at the Placer Development Research Laboratory by fire assay/AA finish on a 30 gram sample of pulverised material. Gold abundances are reported in parts per million (grams per tonne).

Copper, Arsenic and Silver were determined in the Placer Research Geochemical Laboratory by a nitri-perchloric acid/AA finish technique on a 0.5 gram sample of pulverised material. Element abundances are reported in parts per million.



Results

Diamond drill hole locations are shown on Fig 3. Original logs for the holes and listings of the gold, arsenic, copper and silver values obtained from analysis of the core are provided in Appendix I.

A summary of each drill hole follows.

86-14 Map Grid Co-ordinates 16,500 N, 8450 E
Bearing 135°
Dip -50°
Length 166.72 m (547 ft)

Target - Magnetic anomaly immediately south of carbonaceous shear (VLF conductor and chargeability high) which contained skarn mineralization.

Geology - 0 - 7.6 m overburden
- 7.6 - 33 m mixed bands of siliceous sediment and siliceous limestone
- 33 - 60 m mainly dark brown siliceous sediment
- 60 - EOH greenish-grey medium grained siliceous sediment

Alteration

- Very occasional minor skarn
- Upper section pervassive biotite
- Lower section - greenish-grey color - chlorite development
- Some chloritic bands and veinlets

Mineralization

- Pyrite throughout - some sections 2-3%
- Minor quartz veins
- Some fine carbonate veining
- Carbonate with some chlorite on most fractures
- 80-150 m fine magnetite (2-3%)

86-17 Map Grid Co-ordinates 17,000 N, 9770 E
Bearing 090°
Dip -50°
Length 126.79 m (416 ft)

Target - Skarn zone beside the Apex - Hedley road.

Geology - Mainly quartz (up to 95% in sections), contains some patches/fragments of dark sediment.
- From 101.5 m to EOH - granodiorite.

Alteration

- Some minor biotite
- Chlorite on fracture and micro fractures
- Several strong skarn zones with good garnet diopside and epidote development. Some massive skarn eg. 71-74 m.

Mineralization

- Pyrite, most abundant sulphide (throughout)
- Pyrrhotite, patchy
- Several heavy sulphide sections (47-62 m up to 20%)
pyrite - pyrrhotite - trace chalcopyrite
- Patches and blebs of epidote

86-18 Map Grid Co-ordinates 17,100 N, 9680 E
Bearing 280°
Dip -50°
Length 191.10 m (627 ft)

Target - Magnetic anomaly NW of VLF conductor. This is also an airborne mag. anomaly.

Geology - Generally mixed fine to medium grained dark siliceous meta sediment - contains scattered fragments.

- From 134 m grades into fragmental Lapilli Tuff (at time up to 25% fragments)
- Scattered narrow granodiorite dykes (dykes tend to be bleached)

Mineralization

- Very minor sulphides - some fine pyrite
- From 140 m some fine diss. magnetite
- Chlorite on fractures and micro fractures

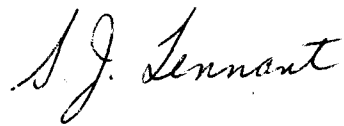
86-19 Map Grid Co-ordinates 17,100 N, 9785 E
Bearing 090°
Dip -50°
Length 50.9 m (167 ft)

Target - Check out the good looking skarn found in 86-17.

Geology - Granodiorite all the way (40% mafics). Some chloritic veins and minor scattered pyritic stringers. Low in sulphides.

Conclusions

The diamond drill results appear to have fully explained the geophysical and geochemical anomalies which were being tested. Assays for gold in these holes gave no encouragement for further work.

A handwritten signature in cursive script that reads "S.J. Tennant".

S.J. Tennant

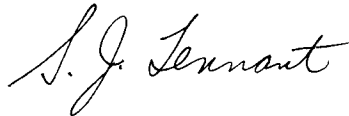
SJT/stm

10.03.86

STATEMENT OF QUALIFICATIONS

I, Stuart J. Tennant of Placer Development Limited do hereby certify that:

1. I am a Geologist.
2. I am a graduate of the University of British Columbia with a B.Sc. in Geology in 1959.
3. From 1959 until the present, I have been engaged in exploration primarily in Western Canada.
4. I personally supervised and participated in the field work and have compiled, reviewed and assessed the data resulting from the work.



S.J. Tennant

Appendix I

Diamond Drill Hole Logs

86-14

86-17

86-18

86-19

GRID: CANOVA.

PLACER DEVELOPMENT LIMITED

HOLE No. 86-14
SHEET No. 1 of 9

LOCATION: _____ BEARING: 135° LATITUDE: 16500 N PROPERTY: CANOVA
 DATE COLLARED: 7 July 1986 LENGTH: 166.72 (547 ft) DEPARTURE: 8450 E CORE SIZE: NQ LOGGED BY: Stennant
 DATE COMPLETED: _____ DIP: -50° ELEVATION: _____ SCALE OF LOG: _____ DATE: July 1986

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
							SAMPLE No.	Au	As	Cu	Ag
Very broken black fine sediment - Slightly silicious - heavy limonite ex. fractures.	OVERBURDEN limonite on fractures few fine carbonate veinlets fine carbonate throughout	7.62	SM-5 0.1 Some finely scattered pyrite throughout	792 8.84 10.06 10.57 11.58	80%		78921	0.02	19	58	0.5
12-12.6 fine carbonaceous black sediment. (10% carbonate veining) - Grades gradually into silicious fine-med. grained sediment. Appears banded (light - dark)	Very silicious - chlorite increases to pervasive. Dark sections - black sediment Bands right angles to C.A.	15	finely scattered pyrite	SM-5 0.1 - 0.04 (1) 4.2	14.32	92%	78922	0.12	12	42	0.5
Generally light colored silicious limestone - slightly banded	Trace chlorite for asm. Limestone + silica (white-grey)	18	No visible sulphides	SM-5 0.1 - 0.2	17.37	95%	78923	0.01	3	13	0.3
In and out of silicious limestone and silicious sediment Some bands chlorite and pyrite. few veinlets chlorite	Partly limy - some Chloritic sections	21	Some veinlets pyrite and chlorite	SM-5 0.1 - 0.2	20.42	95%	78924	0.01	5	11	0.3
Generally silicious limestone - whitish - dirty grey Gets progressively more greenish	Some stann developed with garnet, diopside and chlorite.	24	Trace pyrite	SM-5 0.1 - 0.2	23.47	92%	78925	0.01	10	19	0.4
Well broken up by several shears - some limonite on fracture faces. Large (>10cm) fragments limestone, silicious sediment, etc.	Some limy sections, very silicious at times, sediment up to 20% chlorite at times	27	Trace pyrite	SM-5 0.1 - 0.2	25.91	90%	78926	0.01	124	80	0.3

PLACER DEVELOPMENT LIMITED

GRID: _____

 HOLE No. 86-144
 SHEET No. 2 of 9

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
Bands (up to 15cm) of silicious limestone and some light fine grained silicious sediment Bands almost right angles to C.A.	Limestone bands Some chlorite with silicious sediment. Some separations of chlorite.	27 30			Diss pyrite	SM-S 0.1-0.2 RQD 15	28.95	90%		78927	0.01	340	143	0.3
30-31.6m Generally white to dirty grey silicious limestone (carbonate getting less). Contains fragments (5cm) of brown silicious sediment. 31.6- Mixture of med. grained greenish and brown silicious sediment.	Limestone decreases, silica increases. Chlorite increasing Some fine random fracturing	33			Diss pyrite	RQD 55	32.00	95%		78928	0.03	71	334	0.5
Generally dark silicious sediment Shattered and healed in several places @ 35m - sheared for 15cm Mixture of fine to med. grained silicious sed. fragments	Some biotite and chlorite Some fine carbonate stringers Few chlorite stringers.	36			Diss pyrite	RQD 55	35.20	95%		78929	0.01	111	37	<0.2
Appears to be mixed Lapilli Tuff - ie. mainly fragments up to 10cm of light and dark fragments Fragments subrounded to rounded matrix fine grained	Some biotite/chlorite Carbonate veining Appears shattered?	39			Diss pyrite. (Some fragments contain more than others).	RQD 55	38.40	97%		78930	0.02	95	224	0.3
To 40-4m. Lapilli Tuff - Very mixed type of fragments. Very fine grained matrix. Couple of minor shears - slight amount of limonite on fragments	Some biotite/chlorite Slight carbonate veining Couple narrow qtz veins.	42			Diss pyrite	RQD 45	41.45	95%		78931	0.02	113	24	<0.2
Mottled grey-green silicious sediment 43.5 - Broken - sheared - limonitic gouge	Some separations of chlorite Minor carbonate stringers	45			Some fine diss pyrite	RQD <15	42.97 44.34	90%		78932	0.02	32	11	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-14
SHEET No. 3 of 9

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Feet Type Alteration Footage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
								SAMPLE No.	Au	As	Cu	Ag
Short sections light - dark fine - med grained silicious sediment. (Could be large fragments (20-30cm) Several short faulted zones Some broken up - some healed.	Mainly some chlorite also biotite in short sections	45	Diss pyrite	SM-5 0.0-0.1 ROD <15	47.85	90%		78933	0.03	227	227	0.5
Generally dark brown silicious sediment Well fractured (30° to C.A.)	Pervasive biotite with some spotty chlorite Some clots of chlorite	48	Trace diss pyrite	SM-5 0.0-0.1 ROD 15	49.98	93%		78934	0.01	12	124	<0.2
Generally dark brown silicious sediment Broken-up - fractured (30° to C.A.)	Pervasive biotite with spotty chlorite. Minor carbonate veining	51	Trace diss pyrite	SM-5 0.0-0.1 ROD <15	52.12 52.88	93%		78935	0.03	35	440	0.3
Dark brown silicious sediment Fractures and thin chlorite/carbonate veins at (30° to C.A.) Random stringers of chlorite	Pervasive biotite Chlorite spots, segregations and stringers increasing.	54	Minor diss pyrite	SM-5 0.0-0.1 ROD 40	56.08	95%		78936	0.01	10	43	<0.2
Dark brown - slightly greenish silicious sediment. Chlorite eyes (bleached light)?	Some biotite and chlorite. Numerous hairline veinlets (mainly qtz)	57	Minor diss pyrite	SM-5 0.0-0.1 ROD 45	59.13	95%		78937	0.03	10	30	<0.2
Dark greenish - brown silicious sediment. Gradually biotite decreasing and chlorite increasing. Core appears spotty in sections	Minor biotite - increasing Chlorite. Fine veinlets (all angles) qtz with chlorite	60	Minor diss pyrite	SM-5 0.0-0.1 ROD 45	62.18	97%		78938	0.01	8	49	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-14
SHEET No. 4 of 9

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Feoage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
								SAMPLE No.	Au	As	Cu	As
Generally greenish-brown silicious sediment Dark green (chlorite) eyes. Fractured in places (minor shears)	Minor biotite - chlorite increasing. Minor fine carbonate veinlets.	63 64	Minor diss pyrite. Some fine magnetite.	SM-5 0.2-2.2 ROD 45	65.22	95%		78939	0.04	8	488	0.7
Greenish black silicious sediment Fine pyrite veinlets 66.4 - More chlorite - mottled appearance	Mainly chlorite Some carbonate	64 69	Diss and veins of pyrite (2-3%) finely diss magnetite.	SM-5 0.4-3.2 ROD 50	68.42	97%		78940	0.10	3	106	<0.2
Greenish-grey med grained silicious sediment - Mottled appearance 70.4-70.6 - sheared, contorted Vugs with clear qtz fillings	Some calc-silicate alteration chlorite very patchy Pyrite veins	69 72	Diss and veins of pyrite (2-3%)	SM-5 0.1-0.4 ROD 60	71.32	97%		78941	0.01	6	84	0.2
To 73.2 Greenish-grey med grained silicious sediment 73.2 - Dark blackish-green silicious sediment Some spotty chlorite visible	Some calc-silicate alteration Dark sediment contains much chlorite and fine pyrite veinlets and stringers	72 75	Diss and veins of pyrite 1-2% Fine diss magnetite increasing	SM-5 0.3-5.0 ROD 60	73.45	97%		78942	0.01	5	28	<0.2
Generally dark silicious sediment Some spotty chlorite - short section concentrations of chlorite. Some fine carbonate stringers	Very chloritic Some chlorite eyes, stringers Short shattered sections	75 78	Diss and vein pyrite 1-2% Diss magnetite	SM-5 2.5-6.9 ROD 40	75.28	95%		78943	0.01	5	27	<0.2
Dark med grained silicious sediment Chloritic bands Short section various fragments (up to 2cm) Some shattered sections	Very chloritic chloritic bands, veins Carbonate on fracture faces	78 81	Diss and vein pyrite 1-2% Diss magnetite	SM-5 4.4-7.4 ROD 25	78.33 80.77	95%		78944	<0.01	5	10	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-14
SHEET No. 5 of 9

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG			MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
		Rock Type Alteration	Footage	Structure JOINT OR CONTACT ANGLES						% PYRITE	SAMPLE No.	Au	As	Cu
Generally dark med. grained silicious sediment with mottled green sections 83.8 - 84 - Brecciated fault. - healed	Patchy chloritic alteration Some minor fine veining Carbonate on fractures.	91			Diss and veins Pyrite 1-2% Diss magnetite	SM-5 5.0-7.4 RDD 55	83.82	97%		78945	0.01	11	36	<0.2
Dark med grained silicious sediment with patch green chlorite. Veinlets/stringers chlorite generally 30° to C.A.	Patchy chlorite Veinlets chlorite	84			Diss and veins pyrite Diss magnetite	SM-5 3.7- 7.7 RDD 65	85.64	97%		78946	0.02	11	23	<0.2
Slightly mottled dark med grained silicious sediment Couple fine (<1cm) slips (slight gouge) Veinlets of chlorite/carbonate	Some biotite/chlorite - chlorite bands and veinlets Carbonate on most fractures	87			Diss and veins pyrite Diss magnetite	SM-5 3.4- 7.4 RDD 65	87.67	97%		78947	0.03	11	53	<0.2
Slightly mottled dark med grained silicious sediment. Patchy chlorite along with veinlets	Minor biotite - mainly chlorite Chlorite in veinlets/patchy	90			Diss and veins pyrite Diss magnetite	SM-5 4.8- 10.0 RDD 70	90.52	97%		78948	0.01	24	40	<0.2
To 95 - slightly mottled dark med grained silicious sediment. - Patch chlorite From 95- 75° to C.A. - chlorite bands then greenish - much softer sediment with fine (2-3m) carbonate spots.	Patchy chlorite Softer rock (less silica) Carbonate spots - many rimmed by fine chlorite. Slight lineation at 45° to C.A.	93			Fine diss pyrite Some magnetite for 2m.	SM-5 1.5- 8.4 RDD 60	93.57	97%		78949	0.01	20	11	<0.2
Med to dark green sediment with Carbonate "spots" (up to 1cm) - quite often rimmed by chlorite Some empty yugs/others filled by carbonate?	Pervasive chlorite Carbonate filling yugs. Much less silica.	96			Some diss pyrite	SM-5 0.01- 0.09 RDD 50	96.62	97%		78950	0.01	3	<2	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-14
SHEET No. 6 of 9

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
99-99.4 Dark green with carbonate spots. 99.4 Grades back to dark mottled green silicious sediment chlorite veinlets. Some qtz veins	Patchy chlorite Chloritic bands and stringers.	99 102			Diss and veins pyrite. Magnetite increase	SM-S 0.2-9.5 RQD 50	99.66	97%		78951	0.02	20	21	<0.2
Dark mottled green - med grained silicious sediment Patchy chlorite - appears at times like fragments (all the same composition)	Patchy chlorite fine qtz veins and chlorite veins	105			Diss and veins pyrite Diss Magnetite	SM-S 2.6-9.6 RQD 40	102.71	97%		78952	0.01	51	33	<0.2
Dark mottled green-grey silicious sediment. Some fragments (subrounded) of same material but with different degrees of alteration	Patchy chlorite Chlorite halos round some fragments. Chlorite/carbonate veinlets	108			Diss and veins pyrite Diss. Magnetite	SM-S 4.6-10.0 RQD 45	115.76	97%		78953	0.01	95	22	<0.2
Dark mottled greenish-grey fragmental Tuff Fragments angular - rounded Various degrees of alteration	Patchy chlorite Trace epidote Some chlorite stringers	111			Pyrite and magnetite	SM-S 6.0-11.0 RQD 50	108.81	97%		78954	0.01	139	4	<0.2
Dark mottled greyish-green fragmental Tuff Fragments angular - rounded up to 6cm. Matrix hard to distinguish	Patchy chlorite. Minor epidote (in some fractures and stringers)	114			Pyrite and magnetite.	SM-S 5.8-10.5 RQD 50	111.86	97%		78955	0.01	164	4	<0.2
Dark mottled greyish-green fragmental Tuff Angular to rounded. All dark including matrix.	Chlorite more pervasive Epidote increasing (patchy and stringers)	117			Pyrite and magnetite	SM-S 1.8-8.1 RQD 50	114.90	97%		78956	<0.01	198	4	0.4

PLACER DEVELOPMENT LIMITED

HOLE No. 86-14
SHEET No. 7 of 9

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Foot Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				Ag
										SAMPLE No.	Au	As	Cu	
117-118 - Fragmental Tuff From 118 - Very dark silicious sediment 119.6 Healed fault 30° to C.A. about 9cm wide.	Patchy chlorite Some epidote and chlorite stringers. Carbonate veinlets.	117 120			Some pyrite and magnetite	SM-5 3.7-9.0 RQD Ad	117.95	96%		78957	0.02	221	5	0.6
Med. to fine grained black silicious sediment Fairly broken-up. Few chlorite veinlets. At 121 - 6cm band epidote-chlorite 15° to C.A.	Minor chlorite and carbonate veinlets	123			Minor Pyrite Diss Magnetite	SM-5 0.6-9.1 RQD < 15	121.00 122.37	96%		78958	0.01	209	7	0.6
Generally fine grained black silicious sediment Chert section some fragments	Patches and bands of epidote and chlorite Some carbonate veinlets	126			Minor Sulphides	SM-5 0.3-4.7 Sample with red hematite? RQD 15	124.03	92%		78959	0.03	50	2	0.5
Generally med grained dark silicious sediment. Slightly massive looking	Some veinlets epidote Few chlorite stringers	129			Minor Sulphides	SM-5 2.6-7.4 RQD 35	127.10	96%		78960	0.02	45	4	0.6
Dark med grained silicious sediment few qtz veins/stringers	Minor patchy epidote and chlorite Some chlorite veinlets	132			Minor pyrite Diss magnetite	SM-5 3.9-8.6 RQD 20	130.14	96%		78961	0.01	50	7	0.2
Slightly mottled med. grained silicious sediment Some fragments (up to 5cm) Not quite as dark looking.	Some chlorite throughout Minor chlorite veining	135			Minor pyrite	SM-5 2.1-4.9 RQD 30	133.19	96%		78962	0.01	40	30	0.3

GRID: CANOVA

PLACER DEVELOPMENT LIMITED

HOLE No. 86-17
SHEET No. 1 of 7

LOCATION: _____ BEARING: 90° LATITUDE: 17000 N PROPERTY: CANOVA
 DATE COLLARED: 16 July 1986 LENGTH: 126.79 (416 ft) DEPARTURE: 9770 E CORE SIZE: NQ LOGGED BY: S Tennant
 DATE COMPLETED: _____ DIP: -50° ELEVATION: _____ SCALE OF LOG: _____ DATE: July 1986

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
							SAMPLE No.	Au	As	Cu	Ag
Mainly qtz - light colored - fairly broken Limonite on fractures. Abundant micro fractures with chlorite.	OVERBURDEN Qtz with chlorite on micro fractures	8	4-88 Some diss pyrite as well as on micro fractures	RQD 15	5.79 7.31 7.62	85%	5653	0.01	3	56	<0.2
Mainly qtz with some fine wisps of sediment. Major and minor fracturing. Abundant micro fractures	Qtz - slight amount of dark sediment. Core appears faintly green from chlorite in all micro fractures	11	Minor diss pyrite.	Bare trace carbonate SH-5 0.01 av. RQD 15	8.53 10.36	90%	5654	0.01	7	78	0.2
Qtz with slightly more traces of sediment. Generally dark with some greener sections. Major - minor and abundant micro fractures.	Mainly qtz. Some dark sediment. Chlorite on micro fractures gives core a greenish tinge	14	Minor diss pyrite. Some pyrite on micro fractures	RQD 35	13.56	93%	5655	0.01	<2	60	<0.2
14-15m. Greenish colored - mainly qtz with chlorite on micro fractures. 15-17 - Dark brown med. grained silicious sediment. Fairly broken	Chlorite and trace epidote Mainly biotite with some patches chlorite. Some chlorite veinlets	17	Pyrite diss as well as in patches of chlorite and on micro fractures	RQD 15	15.54 16.46	90%	5656	0.01	9	98	0.2
17-18 Dark brown - very broken silicious sediment. 18-19.75 - Slightly porphyritic bleached dyke (feldspar porphyry?) Broken contacts 70° and 20° to core axis. 19.75 - dark brown sediment.	Biotite with chlorite patches. Dyke very fractured with light green envelopes on most fractures. Majority of mafics bleached	20	Some diss pyrite	Core RQD <15	17.68 18.90 19.81	90%	5657	0.01	12	70	<0.2
20-22. Mixed (almost banded) dark brown - greenish brown med grained silicious sediment 20.4 - 5cm granodiorite dyke (No alteration) right angles to C.A. 22-23 Mainly qtz with dark wisps of sediment	Biotite and chlorite. Abundant micro fractures generally with chlorite	23	Diss and micro fractures with pyrite.	Core very micro fractured RQD 15	22.25 23.00	90%	5658	<0.01	19	205	0.3

PLACER DEVELOPMENT LIMITED

HOLE No. 86-17
SHEET No. 2 of 7

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS EST. CORE REC.	COMPOSITES	ASSAY RESULTS					
							SAMPLE No.	Au	As	Cu	A _g	
Mainly qtz with numerous dark thin bands. Very broken up. Major and minor fractures. Abundant micro fractures.	Mainly qtz. Fine chlorite on micro fractures.	25		Diss pyrite Pyrite on fracture faces.	24-38 25-91	88%		5659	0.01	31	124	0.6
Mainly qtz. dark looking with wisps and shivers of dark sediment. Very broken up. Abundant fractures - micro fractures.	qtz - fine chlorite on micro fractures. Remnants of dark brown sediment.	26		Diss. pyrite	28-04	88%		5660	0.01	5	82	0.2
Similar to above. At 32m - fragments - soft gouge fault 20-30cm. No contacts visible.	qtz - fine chlorite on micro fractures. Clay and gouge at fault zone.	29		Diss. pyrite.	30-48	85%		5661	0.01	275	326	1.8
To 32.6 - faulted gouge. 32.6-35.6 Dark greenish black dyke. Feldspar phenocrysts (2-4mm). Faint trace of mafic aligned.	chlorite alteration. Some chlorite veinlets. Faint appearance of some banding.	32		Minor disc. pyrite	32.61 33.53	85%		5662	0.01	23	29	0.4
From 35.6 Mainly darkish looking qtz with wisps and shivers of dark sediment. Some patches of chlorite and trace of epidote. Total sulphides increasing.	qtz and fine chlorite. Couple patches chlorite and trace epidote.	35		Diss and patchy pyrite. Total Sulphides increasing 1-2%.	35.66 37.49	95%		5663	0.01	20	182	1.0
Mainly qtz with sediment content increasing. Patchy chlorite and veinlets/stringers increasing. Very micro fractured.	qtz with chlorite and minor epidote. Fair amount fine sulphides	38		Fine diss. pyrite as well as patches and stringers pyrite 2%.	38.71	95%		5664	0.01	19	181	0.3

PLACER DEVELOPMENT LIMITED

HOLE No. 86-17
SHEET No. 3 of 7

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG			MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
		Rock Type Alteration	Footage	Structure						JOINT OR CONTACT ANGLES	% PYRITE	SAMPLE No.	Au	As
41-42.7 Mainly dark brown silicious sediment. (Not fractured-no micro fr. 42.7-44 Back to mainly qtz Contain 2 5cm dykes (Hb porphyry) contacts 60° to C.A.	Very silicious - section of brown sediment Chlorite on micro fractures	41	44			Diss and blebs pyrite No micro fr. in brown sediment.	41.76	95%		5665	0.01	<2	184	0.4
Mainly Qtz - some larger fragments of sediment. From 45.3-47.2 A series of white bull qtz veins? no sharp contacts Some sediment mixed in	Mainly qtz some qtz veins Chlorite patches with trace diopside Very micro fractured Some calc-sil Alt. with garnet skarn	47				Patches, blebs and diss. pyrite	44.9	95%		5666	0.01	312	196	2.2
Mottled appearance - qtz - some sediment - large patches qtz-chlorite some epidote Main fractures 45° to C.A Micro fracturing much less	Abundant Qtz Fair amount of chlorite development with some epidote and diopside. Minor garnet skarn	50				Total sulphides greatly increased Mainly pyrite Some pyrrhotite 10-12%.	47.24	98%		5667	0.03	550	703	5
Some dark silicious sediment with patches white qtz - other patches chlorite - (quite extensively developed) Epidote increases.	Abundant Qtz and chlorite some epidote and minor diopside Garnet skarn scattered in places	53				Pyrite/pyrrhotite throughout. 15-20%.	50.20	98%		5668	0.05	2	882	1.4
Very similar to above. (Much qtz - brownish mineral in qtz at times (garnet?))	Qtz sections (whitish) Extensive chlorite development along with sulphides -	56				Pyrite/pyrrhotite throughout. 15-20%.	53.34	98%		5669	0.02	<2	894	1.3
Mottled - large patches white qtz with patches of chlorite + epidote also sections of garnet skarn	Qtz - and chlorite + epidote with trace diopside	59				Pyrite in blebs, diss. minor pyrrhotite. 10-12%.	56.39	98%		5670	0.02	3	280	0.5

GRID: _____

PLACER DEVELOPMENT LIMITED

HOLE No. 86-17
SHEET No. 4 of 7

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Feet Type Alteration Footage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS EST. CORE REC.	COMPOSITES	ASSAY RESULTS				A ₃
							SAMPLE No.	A _u	A _s	Cu	
Mottled with white qtz sections Abundant chlorite + epidote Couple garnet + diopside Some greenish-grey silicious sediment	Qtz with chlorite + epidote Garnet and diopside	59 62	Concentrations, blebs Pyrite + some pyrrhotite 10-12%	ROD 70	59.43 98%		5671	0.01	<2	156	0.3
Very silicious (no qtz patches) dark grey-green silicious sediment Some chlorite minor epidote sections At. 64.9 - 6cm hornblende Porphyry dyke?	Very silicious - Chlorite + minor epidote few chlorite veinlets	65	Mainly diss and blebs pyrite Minor pyrrhotite	ROD 60	62.48 98%		5672	0.01	4	131	0.2
Mainly dark grey-green very silicious sediment. 65.25-65.35 - hornblende porphyry dyke? Some chlorite sections Garnet diopside 66.3-66.7m.	Very silicious ? Some chlorite + epidote Some chlorite veinlets Garnet and diopside	68	Diss, blebs and some stringers pyrite.	ROD 65	65.53 98%		5673	0.01	5	233	0.3
Dark grey-green very silicious sediment. Some chlorite patches as well as pervassive chlorite.	Very silicious Pervassive chlorite.	71	Diss pyrite	ROD 55	68.12 95%		5674	0.01	4	109	<0.2
71-71.5 Mainly qtz with chlorite and epidote. Fairly broken up 71.5-74 Garnet + diopside with patches of quartz	Patches qtz. Abundant garnet with diopside - chlorite + epidote	74	Abundant pyrite some pyrrhotite 12-15%	Best garnet zone seen ROD 40	71.16 95%		5675	0.20	25	760	2.6
Mainly qtz with some sediment remnants. Slight garnet - chlorite and epidote slightly mottled	Mainly qtz. - Some garnet - chlorite and epidote in short sections	77	Diss and blebs sulphides	ROD 40	74.21 95%		5676	2.20 1.10	<2	92	17.0

PLACER DEVELOPMENT LIMITED

HOLE No. 26-17
SHEET No. 2 of 7

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
Greater than 50% qtz. Some minor sediment Garnet skarn - chlorite - epidote sections	Very silicious. Sections almost pure qtz. Sections garnet - diopside Chlorite - epidote	77			Heavy sulfide sections some chalc. pyrite/pyrrhotite 12-16%	RD 50	77.11	95%		5677	0.04	< 2	358	0.5
Some qtz sections Sediment with qtz - garnet chlorite - epidote Very broken - slightly bleached Fault zone at 82.8 @ 45° to CA	Some qtz veins? Bleached sections of garnet chlorite - epidote Chlorite veinlets	80			Diss and blebs pyrite. Some chalc. Some pyrite on fractures & veinlets	RD < 15	80.16 81.38	90%		5678	0.07	333	319	0.7
83-84.6 - qtz - garnet - chlorite - epidote. Fairly bleached. Couple narrow shears with gouge 84.6-86 Mainly qtz (mottled) - some "sediment" - Abundant micro fractures "crackled" - many healed with qtz	Very silicious Bleached garnet - chlorite - epidote sections Some chlorite stringers	83			Diss - blebs and stringers with pyrite - minor pyrrhotite. Trace chalc.	RD 20	83.21 84.43	92%		5679	0.09	10	194	0.3
Very silicious (some white sections) Some meta sediment Fairly dark (chlorite) Abundant micro fractures - most healed with qtz	Qtz. Fair amount of chlorite. Few faint patches chlorite/epidote Some Chlorite on micro fractures	86			Diss - blebs and micro fractures with pyrite.	RD 30	87.47	90%		5680	0.07	2	145	< 0.2
Very silicious (core very light colored at times) Couple narrow shears with gouge Sections with abundant micro fractures	Abundant qtz and concentrations of chlorite in sections Trace epidote chlorite stringers	89			Diss and blebs pyrite. Chlorite/pyrite on fractures.	RD 30	90.52	90%		5681	0.04	2	105	< 0.2
Very silicious (can see free qtz) Abundant micro fractures (throughout) Mottled with light qtz and dark chlorite	Abundant qtz and chlorite Fine qtz stringers and chlorite on micro fractures	92			Fine diss pyrite (mainly on micro fractures)	RD 40	93.57 94.74	92%		5682	0.05	15	177	< 0.2

GRID: _____

PLACER DEVELOPMENT LIMITED

HOLE No. 86-17
SHEET No. 2 of 2

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Mett. Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
Very silicious (mottled - whitish qtz. and some dark meta-sediment and chlorite. Abundant micro fractures - with chlorite	Mainly qtz and chlorite Few fine carbonate veinlets Some chlorite stringers and on micro fractures	98			Some diss pyrite		98.62	90%		5683	<0.01	50	173	0.3
Similar to above only slight bleaching giving overall lighter appearance. 99-101m. Couple of sheared sections rehealed. Core appears concenter 100m. 5cm granodiorite dyke	Mainly qtz and chlorite. Some fine carbonate veinlets Short sections sheared and finely brecciated	101			Diss and some blebs pyrite.	RDD 20	99.66	93%		5684	<0.01	39	164	2.4
From 101-101.5 appears to grade into granodiorite. (Some hornblende and biotite) 20-30%.	Intrusive has been fractured and healed with chlorite. Some movement on some fractures (slight bleaching of mafics)	104			Minor fine diss pyrite	RDD 50	101.49	95%		5685	0.03	7	113	0.2
Granodiorite. Some bleached sections (around the odd qtz vein. Some chlorite "clots"		107				RDD 70	104.54 105.76	98%		5686	<0.01	6	71	<0.2
Same as above		110				RDD 75	108.81	98%		5687	<0.01	3	92	0.3
Same as above.		113				RDD 75	111.86	98%		5688	<0.01	<2	40	0.2

GRID: CANOVA

PLACER DEVELOPMENT LIMITED

HOLE No. 86-18
SHEET No. L of 10

LOCATION: _____ BEARING: 280° LATITUDE: 17100 N PROPERTY: CANOVA
 DATE COLLARED: _____ LENGTH: 191.10m (627 ft) DEPARTURE: 9680 E CORE SIZE: NO LOGGED BY: S Tennant
 DATE COMPLETED: _____ DIP: -50 ELEVATION: _____ SCALE OF LOG: _____ DATE: July 1986

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG				MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS					
		Rock Type	Alteration	Footage	Structure						JOINT OR CONTACT ANGLES	% PYRITE	SAMPLE No.	Au	As	Cu
Very broken dark brown silicious sediment. Series of narrow slips or shears. Slight gouge on some. Some faint chlorite stringers.	OVERBURDEN Not overly silicious (not real hard.) Pervasive biotite					9.2m Minor fine diss pyrite.		10.67				5694	0.01	11	110	0.3
Very broken - partly bleached dark silicious sediment. 12.3-13.4 fault gouge (few soft fragments) Contact $\approx 60^\circ$ to C.A.?	Fairly soft (faulted area) Bleached. Some biotite. Few patches light chlorite							12.49 13.41				5695	0.05	18	116	0.6
Gradually grades into greenish-grey silicious sediment. Couple of narrow shears. Main fractures at 60° to C.A.	Slightly mottled - chlorite increased. Hairline stringers of chlorite.					Minor fine diss. pyrite Maybe some fine magnetite.	SM-5 up to 3.2	16.15 17.37				5696	0.02	36	92	0.5
Greenish-grey slightly mottled silicious sediment. 20.42-20.7 - faulted section. Well micro fractured fractures 60° to C.A.	Mainly chlorite. Some faint epidote with chlorite in places. One small section garnet.					Diss and blebs of pyrite Some fine magnetite		18.90 20.42				5697	0.02	22	130	0.4
Very broken, generally dark silicious sediment. Well fractured at 60° to C.A.	Some chloritic patches and bands \pm epidote One band garnet with some diopside					Diss and blebs pyrite		23.16				5698	0.01	20	129	0.4
Broken, dark silicious sediment Couple short shattered sections which are bleached lighter.	Some chloritic patches. Some chlorite stringers.					Diss pyrite.		26.82				5699	0.04	23	79	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-18
SHEET No. 2 of 10

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure JOINT OR CONTACT ANGLES % PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS EST. CORE REC.	COMPOSITES	ASSAY RESULTS					
							SAMPLE No.	Au	As	Cu	Ag	
Dark med grained silicious sediment Well fractured. 27.50-28.75 - Bleached granodiorite? dyke. Mafics altered partly to chlorite Feldspars very light. Contact $\approx 20^\circ$ to C.A. (broken contacts)	Some biotite but chlorite with trace epidote dominant in patches.	27 28 29 30	Minor diss pyrite	ROD <15	28-65 29-56	85%		5700	0.25	8	137	0.3
Dark med. grained silicious sediment. Some fine chlorite veinlets.	Mainly chlorite. Slight chlorite "eyes" in sections. Chlorite stringers	31 32 33	Minor diss pyrite	SM-5 1.1-2.2 ↓ ROD 20	31-70 32-92	90%		5701	0.02	7	190	0.5
Mainly dark med grained silicious sediment. Not quite so broken. Chlorite increasing	Mainly chlorite. Patches and some bands. Stringers and on fractures	34 35 36	Minor diss pyrite	ROD 40	35-66	92%		5702	0.08	12	122	0.5
Mainly dark med. grained silicious sediment. Some fine grained fragments (up to 1cm) scattered throughout.	Chlorite in patches and some bands. Chlorite on fractures	37 38 39	Minor diss pyrite.	ROD 60	38-71	95%		5703	0.15	7	156	0.6
Mainly dark med. grained silicious sediment. Some fracturing along the core. Some fragments scattered throughout.	Chlorite in patches. Chlorite on fractures. (barely to carbonate)	40 41 42	Minor diss. pyrite.	ROD 35	41-76	95%		5704	0.01	11	114	0.4
Mainly dark med. grained silicious sediment. Few fine grained fragments	Chlorite more pervasive (some chlorite "eyes"?) Minor chlorite stringers	43 44 45	Minor diss pyrite	ROD 45	44-80	95%		5705	0.02	8	145	0.5

PLACER DEVELOPMENT LIMITED

HOLE No. 36-18
SHEET No. 3 of 12

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG				MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS					
		Rock Type Alteration	Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE						SAMPLE No.	Au	As	Cu	Ag	
Mainly dark med. grained silicious sediment. Some odd fragments.	Chlorite throughout. Some minor stringers			45		Fine disc. pyrite										
				48			RD 60	47.85	95%			5706	0.02	7	169	0.5
Dark med grained silicious sediment. Fairly uniform (massive looking) Some fracturing along the core.	Pervasive chlorite. Slightly more silicious			51		Fine disc pyrite	MS-5 0.5-1.5 ↓									
				51			RD 35	50.90	95%			5707	0.02	12	114	0.4
Dark med. grained silicious sediment. (Small fragments - Ash Tuff?) One small shear @ 51.8 (2cm) at 70° to C.A. Small amount of gouge.	Pervasive chlorite. Chlorite on fractures.			54		Fine disc pyrite		51.81								
				54			RD 60	53.95	95%			5708	0.01	4	72	0.3
Same as above, except two sections (30cm) of fine grained slightly green sediment. (Well fractured)	Pervasive chlorite. Chlorite stringers Chlorite on fractures.			57		Minor disc pyrite.										
				57			RD 35	56.39 56.99	95%			5709	0.04	3	156	0.6
Dark fine grained silicious sediment @ 58.2 70° to C.A. - Granodiorite? Mafics slightly bleached. Bleached chlorite on fractures.	Bleached intrusive fair amount of chlorite development.			60		No visible sulphides		57.91								
				60			RD 35		95%			5710	0.01	2	39	<0.2
Slightly bleached granodiorite	As above.			63		No visible sulphides		60.04								
				63			RD 55		95%			5711	0.01	4	14	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-18
SHEET No. 4 of 10

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
Dark med grained silicious sediment Two short sections (30cm) of fine grained sediment Some fragments (up to few)	Pervasive chlorite Some patch light colored chlorite Chlorite on fractures + veinlets	63			Minor diss pyrite		63-09	98%		5712	0.03	4	134	0.4
Mixed fine and med. grained silicious dark sediment Few fragments in med. grained section Fairly fractured also micro fractures	Pervasive chlorite Chlorite on veinlets, stringers and micro fractures	66			Minor diss pyrite	RDD 65	66-04 67-05 67-66	90%		5713	0.01	8	83	0.2
Same as above		69				RDD 30	69-24	95%		5714	0.03	6	90	0.2
Same as above		72				RDD 30	71-32	95%		5715	0.02	5	67	0.2
Same as above		75				RDD 35	73-76 74-52	92%		5716	0.01	6	65	0.2
Same as above		78				RDD 30	75-43 77-11	95%		5717	0.04	4	125	0.5
Same as above		81				RDD 35	80-16							

PLACER DEVELOPMENT LIMITED

HOLE No. 26-18
SHEET No. 6 of 10

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
From 99.6 - slightly bleached granodiorite dyke? Mafics bleached + chlorite develop gives greenish color to intrusive General fractures @ 45° to C.A.	Mafics altered to chlorite Some distal bleaching of some fractures	99			No visible Sulfides		99.66	95%		5724	0.01	3	20	<0.2
Same as above 104.9 - 105.3 Section of siliceous sediment	Some carbonate	102			—		102.10	95%		5725	0.01	<2	12	<0.2
Intrusive to 107.9 Contact 75° to C.A. back to med grained siliceous sediment	Pervasive chlorite	105			—		105.15	95%		5726	<0.01	6	21	<0.2
109.1 - 108.2m. granularite (right angle core) Dark med. grained med to coarse grained siliceous sediment. Grades into fine greenish-grey sediment at 109.3	Pervasive chlorite Slightly mottled depending on chlorite	108			—		108.20	98%		5727	<0.01	3	55	<0.2
@ 111.9 ≈ 70° to C.A. - granodiorite slightly bleached (mafics) Fracture pattern 20-25° to C.A. with light bleaching on fractures	Chlorite development	111			—		111.25	95%		5728	<0.01	4	27	<0.2
Intrusive to 116.3 Contact broken ≈ 70° to C.A. From 116.3 - Back to dark med grained slightly mottled siliceous sediment	Pervasive chlorite. Chloritic stringers concentrated in chert areas	114			—		114.29	95%		5729	<0.01	6	16	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-17
SHEET No. 1 of 10

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	A _u	A _s	C _n	A _g
Mainly dark med. grained silicious sediment Slightly mottled due to coarse epidote, quartz and minor biotite	Ferussieve chlorite Minor epidote biotite Fine chlorite veinlets	117			116-117 SM-C 0.7-2.7	SM-C 0.7-2.7	117.34	96%		5730	<0.01	4	8	<0.2
Same as above Some epidote development with the chlorite.	As above.	120			—	—	120.69	96%		5731	0.01	3	9	<0.2
Dark med. grained silicious sediment Some lighter soft med. silicious more chlorite + epidote Appears like an old Tuff at times	Ferussieve chlorite lighter sections chlorite plus epidote	123			—	SM-S 1.7-3.5 ↓ RQD 70	123.72	97%		5732	0.01	5	6	<0.2
Dark med grained silicious sediment At times looks like fine Ash Tuff Chlorite concentrated at times Fracture + drainage of brownish soft clay	Ferussieve chlorite	126			—	—	126.74	96%		5733	0.01	3	6	<0.2
Dark med to coarse grained silicious sediment From 130.4-132m Broken up by series of fractures 75° to C.A.	Broken section appears lighter - more chlorite with epidote.	129			—	—	129.54	88%		5734	0.01	26	9	<0.2
Dark med to coarse grained silicious sediment. (Almost a Lapilli Tuff) Large fragments (up to 3cm) throughout Fragments different color, grain size and degrees of Alteration.	Fragments have chlorite ± epidote. (can be light colored. Some fine carbonate veinlets.	132			—	—	131.97	98%		5735	0.01	10	10	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 76-18
SHEET No. 9 of 10

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	Ag
Fragmental lapilli Tuff 10-15 fragments Some fragments with fine magnetite Less epidote but visible garnet in places	Chlorite Visible garnet Chlorite veins Minor carbonate veining	153 154			Fine diss magnetite	SM-5 4.1 - 6.8 ↓ RD 70	154-53	98%		5742	0.01	<2	262	<0.2
Fragmental lapilli Tuff Very dark - Some fragment barely visible. One lighter section with minor epidote	Pervasive chlorite Minor carbonate veins	156 159			Fine diss magnetite		157-57	98%		5743	0.01	4	27	<0.2
Fragmental lapilli Tuff Couple sections no fragments. one 35cm. band with chlorite/epidote and some garnet. Trace diopside	Pervasive chlorite Some epidote + diopside and minor garnet	162			Fine diss magnetite		160-62	98%		5744	0.08	5	78	0.4
Fragmental lapilli Tuff. Generally very dark. Lighter greenish-grey bands and fragments.	Pervasive chlorite. Some fragments have minor epidote developed	165			Fine diss magnetite		163-67	98%		5745	0.02	4	41	<0.2
Appears not as fragmental as above. 165.2-165.6 Band chlorite/epidote/garnet Few small bands the same Minor fault (seuge) @ 167.7.	Chlorite some bands epidote/garnet Minor carbonate veining	169			Fine diss magnetite		166-72	98%		5746	0.01	3	20	<0.2
Fragmental lapilli Tuff. Several short sections epidote/garnet also some fragments the same. Generally very dark with lighter patches.	Very silicious Chlorite some epidote/garnet Minor carbonate veining	171			Fine diss magnetite		169-71	98%		5747	0.02	<2	68	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-18
SHEET No. 10 of 10

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				Ag
										SAMPLE No.	Au	As	Cu	
Fragmental Lapilli Tuff 10-15% fragments Some light sections with epidote and light garnet. Generally very dark frag. 1-2cm.	Peroxyside chlorite Some epidote/garnet Some carbonate veining	171 174			Some fine diss magnetite	SM-5 4-6.5 ↓ RD 75	172.20	98%		5748	0.01	5	78	<0.2
Fragmental Lapilli Tuff 2 short (20cm) faulted sections broken contacts @ 45° to C.A. Some patches epidote/garnet.	Chlorite - some epidote/garnet. Carbonate veining	177			As above.	Core very brittle RD 45	175.25	95%		5749	0.02	4	14	<0.2
Fragmental Lapilli Tuff Minor epidote patches Core much lighter and getting broken up at 179.8.	Chlorite - minor epidote Tendency to be broken and softer from 179.8	180			As above	Rd 60	178.30	98%		5750	0.01	7	16	<0.2
Faulted shear zone to 183.8. Core very broken up - soft gouge - generally fragments of core.	chlorite and some carbonate.	183					180.74 181.96	82%		5851	0.02	9	16	<0.2
Less smaller fragments. Sections no fragments One band (15cm) with chlorite trace garnet.	Mainly chlorite Minor garnet. Some carbonate veins	186			Fine diss magnetite	SM-5 4.5-6.5 RD 45	183.03	80%		5852	0.01	6	73	0.2
Fragmental Lapilli Tuff Some patches and bands epidote and garnet. Couple of narrow shear with some gouge	Mainly chlorite with some epidote and garnet. Minor carbonate veining	189					186.53 187.45	95%		5853	0.02	11	114	0.2

19110 E.O.F.

5854 0.02 6 149 0.2

GRID: CANOVA

PLACER DEVELOPMENT LIMITED

HOLE No. 86-19
SHEET No. 1 of 3

LOCATION: _____ BEARING: 90° LATITUDE: 17100 N PROPERTY: CANOVA
 DATE COLLARED: _____ LENGTH: 50.90 (167 ft) DEPARTURE: 9785 E CORE SIZE: NR LOGGED BY: S Tennant
 DATE COMPLETED: _____ DIP: -50° ELEVATION: _____ SCALE OF LOG: _____ DATE: July 1986

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Footage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	A ₃
Granodiorite fragments 3.5-5.4m 5.4-7.9 Dark silicious sediment 7.9 Granodiorite (Contact 60° to C.A.)	3.35 Chlorite limonite on all fractures.				OVERBURDEN No visible sulphides	SM-S Sediment 2.2 Intrusion 0.4-0.2 RQD 30	4.88	80%		5855	0.01	<2	37	<0.2
Granodiorite - well fractured Some vuggy veins (narrow) in Granodiorite. ≈ 40% mafics	Some limonite on some fractures. Chlorite/sericite on others				No visible sulphides	RQD 45	8.07	90%		5856	0.01	3	91	<0.2
Granodiorite From 12.2. Some bleaching + Mafics light green (chlorite) Tends to be fine grained.	Bleaching generally Chlorite veins have bleached sides				As above	RQD 50	11.28	95%		5857	0.01	24	95	0.3
Granodiorite Some dark chloritic veins (some slight bleaching on sides) Couple narrow shears (minor gouge)	Slight bleaching on some veins Main fractures 75° to C.A.				As above.	RQD 65	14.32	97%		5858	0.01	<2	99	<0.2
Granodiorite few chlorite and qtz veins	Not much alteration				As above	SM-S 0.5-1.8 RQD 65	17.37	97%		5859	0.01	<2	95	<0.2
As above	As above				As above	RQD 65	20.42	97%		5860	<0.01	<2	86	<0.2

PLACER DEVELOPMENT LIMITED

HOLE No. 86-19
SHEET No. 2 of 3

GRID: _____

LOCATION: _____ BEARING: _____ LATITUDE: _____ PROPERTY: _____
 DATE COLLARED: _____ LENGTH: _____ DEPARTURE: _____ CORE SIZE: _____ LOGGED BY: _____
 DATE COMPLETED: _____ DIP: _____ ELEVATION: _____ SCALE OF LOG: _____ DATE: _____

ROCK TYPES AND TEXTURES	ALTERATION	GRAPHIC LOG Rock Type Alteration Feetage Structure	JOINT OR CONTACT ANGLES	% PYRITE	MINERALIZATION	REMARKS	FOOTAGE BLOCKS	EST. CORE REC.	COMPOSITES	ASSAY RESULTS				
										SAMPLE No.	Au	As	Cu	A ₃
Granodiorite Some chlorite veinlets Odd size vein Mafic 40%	Certain amount of chlorite development	25			Trace pyrite	SM-5 .05 - 2:1	23.47	95%		5861	<0.01	<2	113	<0.2
As above few thin chnrs @ 28" (broken-up)	As above	26			Trace pyrite		26.52	95%		5862	<0.01	4	88	<0.2
Granodiorite Some chlorite veinlets running along the core Few patches of chlorite.	As above	29			Trace pyrite		29.56	95%		5863	<0.01	<2	54	<0.2
Granodiorite Some chlorite veinlets 30-40" thick Some narrow lighter sections (slight banded appearance)	As above	32			Trace pyrite		32.41	98%		5864	<0.01	<2	62	<0.2
As above. Couple 2cm. of veins	As above	35			Trace pyrite		35.66	98%		5865	0.01	<2	81	<0.2
Granodiorite Patches + veinlets of chlorite. Few pyrite stringers	Slightly overall more chlorite. Slight greenish color to core at times	41			Some pyrite stringers		38.71	98%		5866	<0.01	<2	133	0.2

