

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

PAPOOSE 1&2 mineral claims

MINERAL TITLES BRANCH
Rec'd.
APR 23 1997
L.I. # _____
File VANCOUVER, B.C.

CLINTON MINING DIVISION

NTS 92P\15W

BY

D.W. RIDLEY (owner-operator)

General Delivery

Eagle Creek, BC

VOK 1LO

JANUARY 1997

WORK APPROVAL NUMBER KAM-96-0300389-168

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,952

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ROCK SAMPLE DESCRIPTION SHEETS AND LAB ANALYSIS CERTIFICATES ARE
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SUMMARY

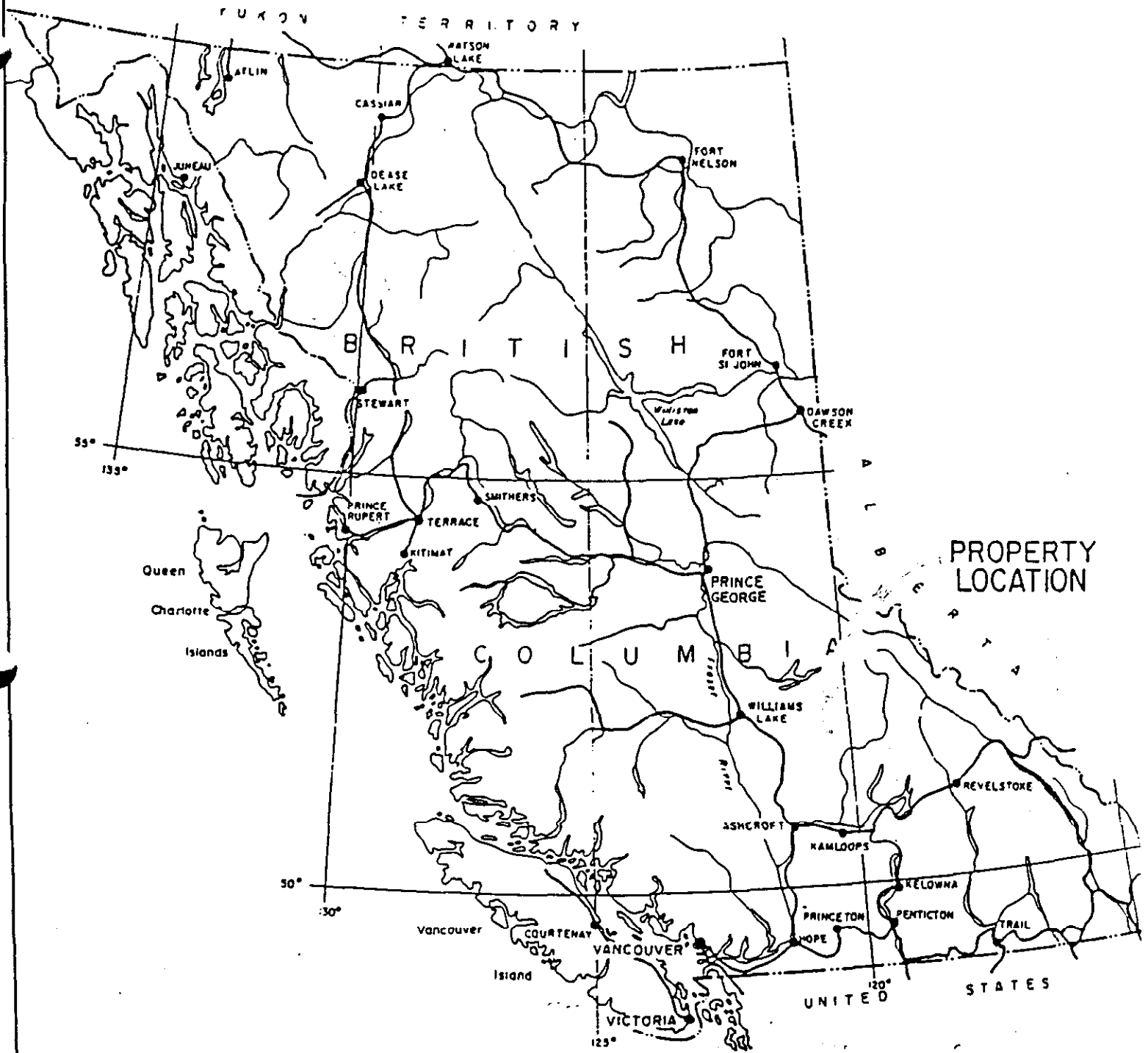
The **PAPOOSE** property is situated approximately 53 kilometers northeast of 100 Mile House, BC. The claims are underlain by mafic to intermediate-felsic volcanics, volcanoclastic sediments, and volcanic breccias and related tuffs which are intruded by diorite, gabbro, and feldspar porphyry bodies of Triassic to Cretaceous(?) age.

The area of the **PAPOOSE** property was held for a number of years by Imperial Metals Corp. who performed extensive soil sampling surveys prior to optioning the ground to Eastfield Resources Ltd. who conducted detailed silt sampling, geological mapping, geophysical surveys and some caterpillar trenching. Imperial performed IP surveys prior to allowing the ground to lapse. The present property was staked in 1993 after a review of past data. Logging had progressed in a portion of the claims which contained some interesting geochemical values. Prospecting of these areas led to the discovery of several mineralized and altered zones which contained highly anomalous arsenic, copper, and gold values. The **Cate** showing shows the most promise in light of the 1996 work program.

Mineralization consists of gold, arsenic, and/or copper values in quartz-carbonate vein breccias, hornfelsed shear zones, and a narrow, sulphide-rich shear zone (manto?) that contains up to 2.18 oz/ton gold at the **Cate** showing. The **Cate** showing consists of pyrite-pyrrhotite-arsenopyrite, and lesser chalcopyrite within a broader zone of quartz-ankerite alteration which appears to be associated with a feldspar porphyry dyke trending 030'. The dyke can be traced northwards across the lake where anomalous gold, arsenic, and copper values appear to be roughly associated with it. To the south the dyke was traced onto the Christmas property of Homestake Canada Ltd. The **Cate** showing is on apparent strike with Homestake's **Lisa** showing, some 1.5 kilometers south. The **Lisa** showing consists of subcrop rubble which is quartz-ankerite altered, pyrite-arsenopyrite bearing and returned up to 3510 ppb gold. Outcrop in the vicinity is said to strike 030' and dips moderately to the west.

Homestake Canada was contacted in mid-November, 1996, about the apparent relationship between the **Cate** and **Lisa** showings. They offered to analyze my rock and soil samples from the 1996 work program with the possibility of optioning the **PAPOOSE** property if results prove significant. To date I'm still awaiting the sample results which will be appended when they arrive.

The 1996 work program was conducted sporadically between July 15 to November 3, 1996 and resulted in the collection and subsequent analysis of 33 rock and 38 soil samples. This program required nineteen prospecting days.



PROPERTY LOCATION FIG. 1	
PAPOOSE GROUP	
Clinton Mining Division	
N.T.S. 92P/15W	
D.W. Ridley.	
Jan 1997	

LOCATION AND ACCESS

The **PAPOOSE** property is located approximately 58 kilometers northeast of 100 Mile House, BC, and is easily reached by paved and gravel roads. Access from highway 97 is via the Canim Lake road to Eagle Creek bridge thence the Hendrix Lake road northerly about five kilometers to the junction with the Lang Lake forest access road. This road is followed for about one kilometer to a small arterial which leads to the **Gate** showing. The LCP for the **PAPOOSE 1** lies above the Succour Lake campsite while that for the **Papoose 2** is in a clear-cut south of Catherine lake. Several logging arterials provide access to the center and peripheries of the claim. The center of the property is within two kilometers of a hydro transmission line.

The claims are adjacent to the west side of the Interior Dry belt bioclimatic zone and are situated in the Quesnel Highlands physiographic region. Topography on the property is relatively flat with elevations ranging from 3300-3600 feet. Several lakes and small ponds provide ample water for exploration purposes.

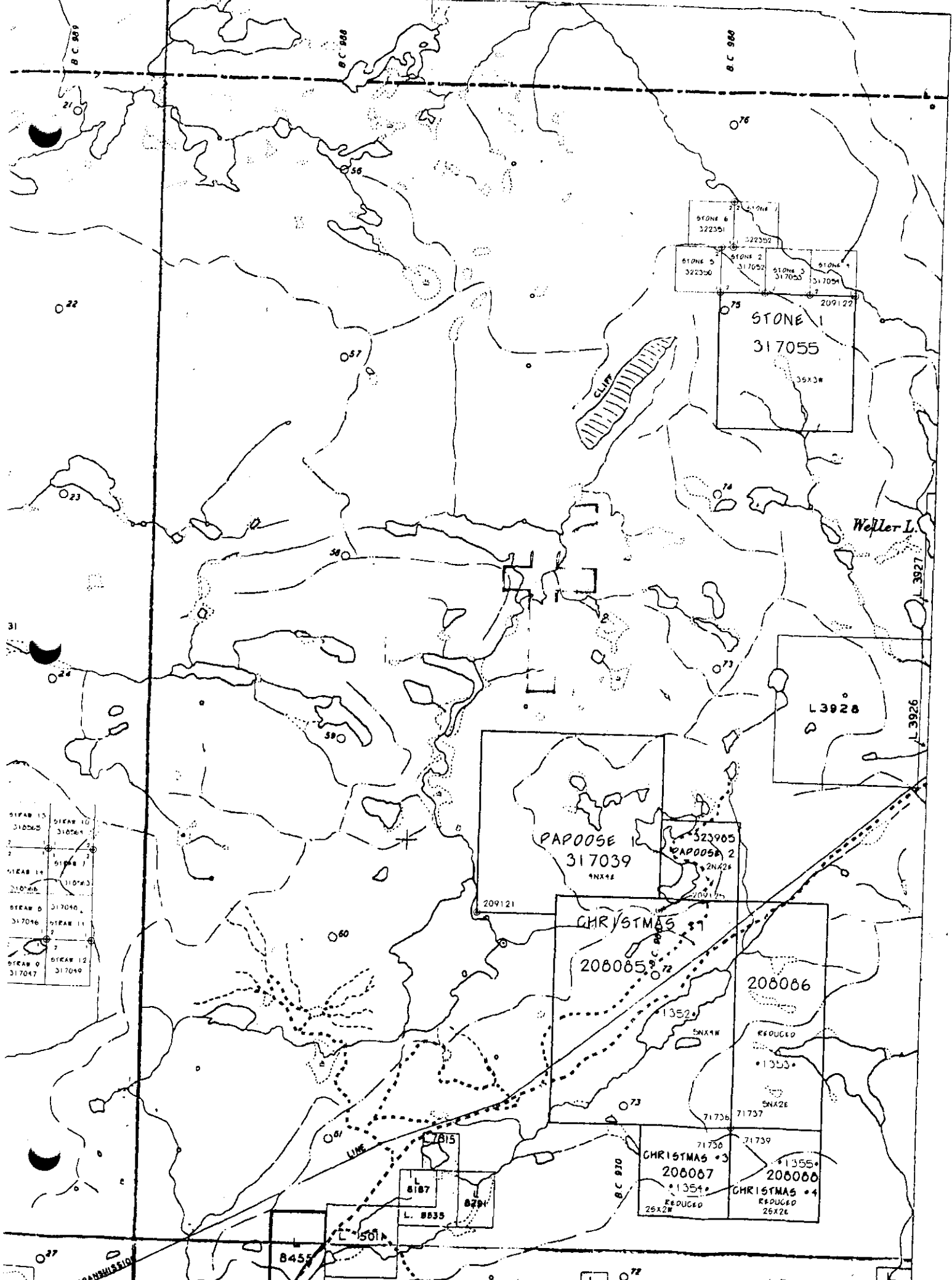
Most of the property is covered by a dense second-growth forest consisting of pine, douglas fir, spruce, balsam, poplar and birch with local willow, alder, and swamp birch thickets. Three recent logging clear-cuts in the southeast, central, and northeast portions of the property provide access and greater outcrop exposure than the forested areas. In addition, most of the known showings are clustered within them.

CLAIM STATUS

The **PAPOOSE** property consists of twenty units staked by the modified grid system and situated in Clinton Mining Division. They are held 100% by D.W. Ridley of General Delivery, Eagle Creek, BC, VOK 1LO. Pertinent claim data is listed below:

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>DATE STAKED</u>	<u>**EXPIRY DATE**</u>
Papoose 1	3171039	Apr. 5, 1993	Apr. 5, 1998
Papoose 2	323985	Mar. 8, 1994	Mar. 8, 1999

*** PENDING ASSESSMENT REPORT approval***



STRIP 13 317045	STRIP 10 317044
STRIP 14 317046	STRIP 11 317043
STRIP 9 317046	STRIP 11 317046
STRIP 8 317047	STRIP 12 317049

PROPERTY HISTORY

The only previous claim to cover the current **PAPOOSE** property were the Senicar claims staked by Imperial Metals Corporation in late-1983 following reconnaissance soil sampling which returned highly anomalous arsenic, and sporadic copper and gold values. A small grid was sampled and limited geological mapping was conducted in 1984. Further recon-scale sampling and mapping was conducted in 1985 and 1986. Results from these preliminary surveys, along with indications of favourable results being obtained on nearby properties were sufficient evidence to justify a more thorough examination of the property in 1987. Two additional claims were added to the land package because of favourable results returned during this work program. In June, 1988, an Induced Polarization survey was followed by machine trenching of the more accessible targets.

The **Christmas** property of E&B Explorations (Homestake Canada?) adjoins the **PAPOOSE** property to the south. Gold values to 6290 ppb, with the majority in the 210-500 ppb range, were obtained during rock sampling of sulphide-bearing hornfels zones in green andesites, tuffs, and sediments of Jurassic age adjacent to a partially un-roofed quartz diorite stock of Cretaceous age. A large hornfels aureole extends outward 1-2 kilometers from the intrusive. Sulphide content (pyrite-pyrrhotite) is generally less than 1-2% with local zones of 2-10% which host the higher gold values. Subsequent work identified several anomalous gold values in soil samples and the hornfels zones showed a good Induced Polarization response. Prospecting uncovered the **Lisa** showing which is on apparent strike with the **Cate** showing on the **PAPOOSE** property. Although several drill targets were located no further work has been recorded for the **Christmas** claims, however, an extra five years work credit was applied to the claims in 1994.

The **PAPOOSE 1&2** claims were staked by the author in 1993 and 1994 following a review of data from past operators. An option was signed with Pioneer Metals Corp. who initiated a prospecting survey of anomalous zones delineated by past operators, especially those within recent logging clear-cuts. This work identified several small, low grade arsenic-copper-gold occurrences as well as discovering the **Cate** showing. Pioneer dropped its option in 1995 and the property reverted to D.W. Ridley. The property was included in a regional prospecting proposal submitted to the Ministry of Mines for application to funding under the Prospectors Assistance Program. The application was accepted and work began June 15, 1996. This work program forms the basis of this report.

REGIONAL GEOLOGY

The **PAPOOSE** property lies in the Quesnel Trough, a subdivision of the Intermontane tectonic belt, which is composed of Triassic to Jurassic volcanic, volcanoclastic, and sedimentary rocks which are intruded by various plutons ranging in age from Triassic to Cretaceous.

The oldest rocks in the region comprise augite andesite-basaltic flows, breccias and agglomerate, tuff, argillite, phyllite, greywacke, and black to grey limestone of the Triassic Nicola Group which is intruded by the upper-Triassic-Jurassic Takomkane batholith. The Takomkane batholith is a composite granodiorite intrusion with hornblende-biotite quartz diorite and granodiorite, hornblende diorite, monzonite, gabbro, and hornblendite. Phases may be syenodiorite-diorite or quartz monzonite in composition and locally K-feldspar porphyritic, and quartz-rich (Blann, 1993).

A large magnetic high, northwest of the **PAPOOSE** property is visible on GSC Geophysics Paper 5231. Much of this area is underlain by magnetite-rich hornblendite, pyroxenite, gabbro and diorite. It is not clear whether this represents a border phase of Takomkane batholith or the emplacement of a younger, more mafic intrusion within it.

The **PAPOOSE** property is underlain by andesitic arenite, siltstone, grit, breccia and tuff, greywacke, minor argillite and flows of Jurassic age. These rocks are in apparent fault contact with all other rocks in the area. Jurassic and older rocks are intruded by Takomkane batholith as well as several small satellite stocks consisting of biotite-quartz monzonite and granodiorite of Cretaceous age.

South of Canim lake, dacite, trachyte, basalt, andesite, rhyolite, and related breccias of the Eocene to Oligocene Skull Hill Group form the higher hills. Miocene and/or Pliocene plateau lava, olivine basalt, basaltic andesite, and related ash and breccia beds of the Chilcotin Group are found in the lower lying areas and form extensive exposures on the Fraser Plateau immediately west of the property.

The region has been extensively glaciated resulting in a relatively subdued topography, several lakes and swamps, and a generally thin mantle of overburden. The last ice movement appears to be generally towards the southeast, likely flowing into Canim lake. Extensive gravel deposits along the lower valleys indicate that the basic drainage pattern seen today has been in effect at least as long as the last major glaciation perhaps 8,000 years ago.

1996 WORK PROGRAM

The 1996 work program consisted of detailed prospecting, soil and rock sampling of the area surrounding the **Cate** showing. This work was targeted at determining whether the mineralization at the **Cate** showing continued northwards across the lake. Examination of the **Lisa** showing resulted in discovering similarities between the two showings and development of a new target on the **PAPOOSE** claims. Subsequent work led to the present exploration model for the property. In late November I contacted Homestake Canada about the **Cate-**

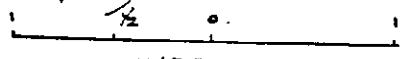
PIONEER METALS CORP

PAPOOSE CLAIMS DEC. 1993

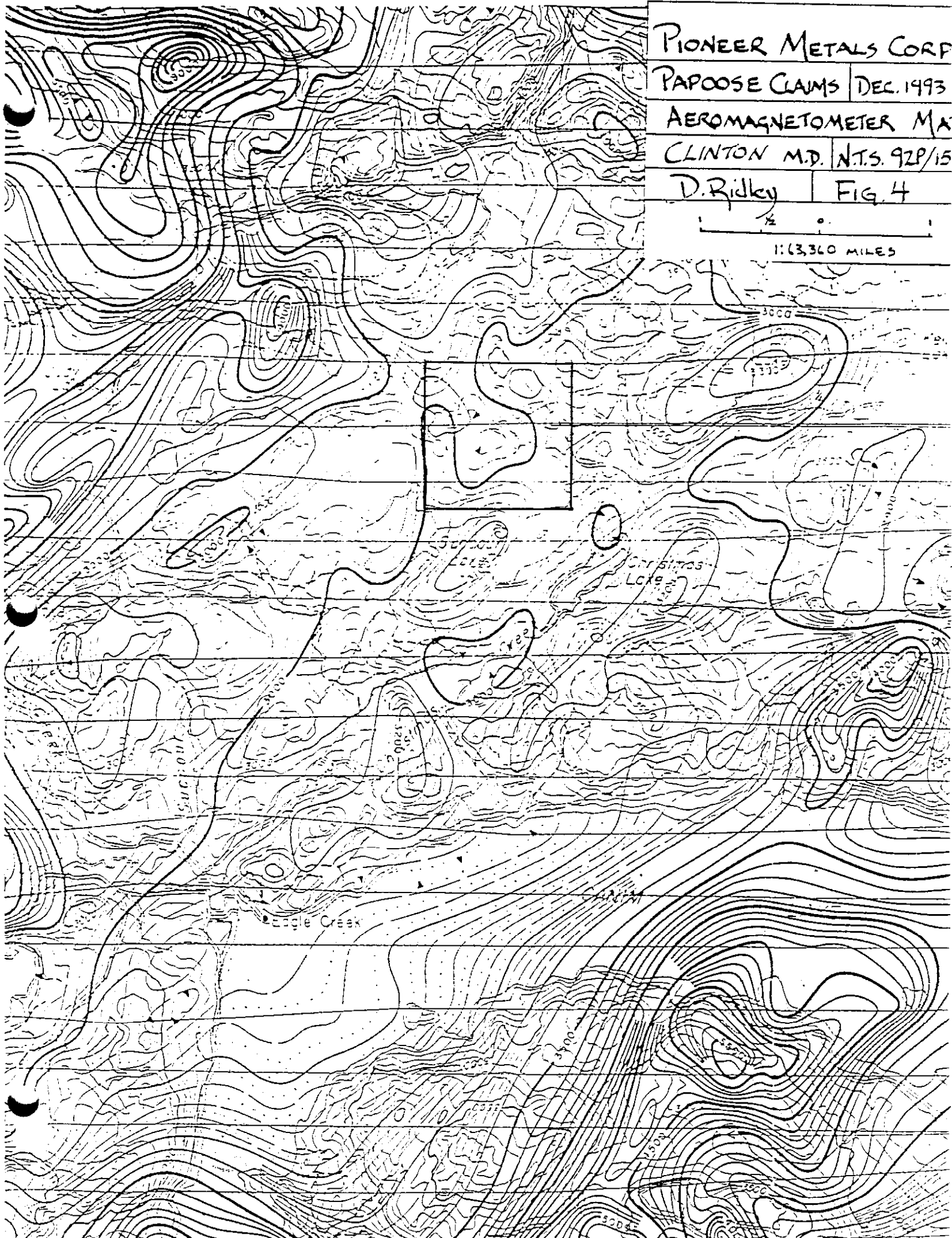
AEROMAGNETOMETER MA

CLINTON M.D. N.T.S. 92P/15

D. Ridley FIG. 4



1:63,360 MILES



Lisa connection who offered to analyze my samples with a view to possibly optioning the property. The samples were shipped to Homestake in December, 1996 and I am currently awaiting the results and a decision from them.

GEOLOGY AND ROCK SAMPLING

Outcrop on the **PAPOOSE** property is best exposed in areas of recent logging clear-cuts, otherwise, hilltops and slopes provide relatively good exposures covered by a thin mantle of overburden. On many of the ridgetops a thick mantle of moss and lichens with little or no soil, mask the underlying bedrock. Past operators had identified two main anomalous zones. These areas are near the approximate center of the **Papoose 1** claim and in the southeast adjoining Homestake's **Christmas** property. Recent logging activities in these areas resulted in much more extensive outcrop exposures than were available to previous workers and several low grade gold occurrences were discovered including the **Cate** showing. The 1996 work program concentrated on the area of the **Cate** showing due the previously mentioned **Cate-Lisa** connection. Outcrop is estimated to be about 30% in the area of the grid with more extensive exposures on the steeper hills, particularly the southeast faces.

The **PAPOOSE** property is underlain by Triassic-Jurassic mafic to intermediate volcanics, volcanoclastic breccias and sediments, that have been intruded by diorite, gabbro, and feldspar porphyry dykes and plugs of Triassic-Cretaceous (?) age. Mineralization consists of gold, arsenic, and/or copper in quartz-carbonate vein breccias, hornfelsed shear zones, and a narrow, sulphide-rich, shear-hosted vein which contains up to 2.18 ounce/ton gold (**Cate** showing). Rock sampling during the 1996 work program returned generally disappointing results although this may be more a reflection of outcrop density rather than the lack of significant mineralization in the area. The rock sampling was successful in discovering two additional zones of interest on the grid and although the values may be low the showings are poorly exposed and therefore are of unknown extent. It is possible that these zones may be peripheral to more substantial mineralization. It is interesting to note that these occurrences are on either side of a highly anomalous soil sample which occurs in an area of little outcrop exposure. This soil sample returned values of 5.16 gram/ton gold, 1.6% arsenic, and 664 ppm zinc (PAP L7N:13+50E).

Detailed prospecting and rock sampling was carried out on a small grid situated between two lakes and extending an older grid from previous operators to the east. All outcrops in the area were examined and rock samples were taken where applicable. Rock sample locations, geological observations, and a compilation of past data are plotted on **FIG. 6**.

A zone of intense quartz-ankerite alteration, trending 155\90, and exposed for six meters along the shoreline of Catherine lake returned no anomalous values where sampled (**PAP96 DR1-4**). However, a highly anomalous soil sample, situated about 50 meters northwest, is on apparent strike with the alteration zone (**PAP L7N;17E**). A second zone of ankeritic alteration, trending 194\90, found along the lakeshore returned 186 ppb gold, 1395 ppm copper, and 1907 ppm arsenic across one meter of poorly exposed outcrop (**PAP96 DR6**). This zone lies immediately east of, and has a common attitude with, the feldspar porphyry dyke east of the **Cate** showing. A sample from the ankerite altered feldspar porphyry dyke approximately 30 meters northerly returned anomalous copper and correlates well to past sampling in the **Cate** vicinity (**PAP96 DR12**). Quartz-carbonate subcrop rubble with trace pyrite-chalcopyrite, lying about twenty meters eastward, returned 50 ppb gold, 294 ppm copper, and 562 ppm arsenic (**PAP96 DR7**). All the rocks in this area are more or less highly fractured and broken which results in regressive weathering and a lack of good exposures. The strongest fractures trend north-northeasterly, roughly paralleling the feldspar porphyry dyke, and dip vertically or steeply to the west. These are cut by later easterly trending fractures which dip vertically to moderately northward. Local variations occur which are likely indicative of faulting and possibly "stopeing" by underlying intrusions.

Hand-trenching was conducted on a zone of quartz veining with high pyrite content near **L8N;19+86E**. The zone remains poorly exposed and requires blasting or machine trenching to fully uncover it for sampling. A chip sample across 50 cms. in the floor of the trench, consisting of a 15 cms. wide quartz vein enclosed in highly chlorite-altered mafic volcanic, returned 165 ppb gold, 304 ppm copper, and 1910 ppm arsenic (**PAP96 DR17**). The vein trends 140\50SW and lies approximately 150 meters northwest of the highly anomalous soil sample at **L7N;18+50E**. The vein structure could not be traced beyond the confines of the hand trench due a great depth of colluvial material from the hillside above. A grab sample of material dug out of the trench returned 168 ppb gold, 1283 ppm copper, and 2662 ppm arsenic (**PAP96 DR18**). Several samples were taken in the area and no further anomalous values were found. The outcrops consist of mafic volcanics, in places brecciated, and are more or less chlorite-carbonate-quartz-pyrite altered. Epidote is mainly restricted to the diorite bodies which commonly are cut by epidote-quartz stringers and blobs of epidote which preferentially replace breccia clasts.

A small shear zone, trending 010\90, at **BL20E;4+20N**, consisting of quartz-carbonate stringers in highly chloritic mafic volcanic containing 1-2% disseminated pyrite returned anomalous values of 599 ppm copper across an exposed width of 40 cms (**PAP96 DR14**). This zone is poorly exposed and requires machine trenching to fully expose it. An outcrop of augite porphyry breccia with heavy chlorite-carbonate-quartz alteration and no visible sulphides occurs ten meters southeast. A sample across 1.5 meters returned no discernible anomalous values (**PAP96 DR15**). This outcrop trends 360\70W and is cut by strong fractures at 105\75N. A small outcrop consisting of dark green diorite which is cut by an epidote stockwork occurs thirty meters east of the **DR14** shear zone. This diorite may be part of other similar bodies mapped in scattered exposures roughly following the baseline and likely represents a dyke. Many of the mineralized outcrops are situated near, and appear to emanate from, the postulated trace of the dyke.

SOIL GEOCHEMISTRY

A small soil sampling program was initiated on the **Papoose** claims to extend past sampling over an area of favourable geology. A north-south baseline was established in the landing west of Catherine lake, and lines were run east-west at 100 meter intervals for 500 meters north to another lake and 100 meters south to the claim boundary. Soil sampling was carried out to the east only at 50 meter intervals. Lines **4N** and **6N** were sampled at 25 meter intervals due their proximity to the **Cate** showing. Samples were dug utilizing a soil auger which was supplemented by digging with a mattock in areas covered by thick talus accumulations. In general soil development is good and the "BF" horizon was collected for analytical purposes. This horizon was generally bright orange-red in colour and is less than thirty centimeters below the surface. A total of 38 soil samples were collected and submitted for geochemical analysis. One sample was taken of soil lying directly on top of the **Cate** showing in order to have some idea of its geochemical signature (**PAP CATE1**) and another was taken from a previous soil hole on the old TR grid for the sake of continuity (**PAP L7N;18+50TR**). The latter sample did not contain results similar to the previous sampling in 1987 although it is possible that the old hole was not found.

A grab sample of soil lying directly on the **Cate** showing returned the highest geochemical results of this program (**PAP CATE1**). This material was bright red-orange in colour, situated within 30 centimeters of surface and returned 12.42 gram\ton gold, 2.1 ppm silver, 973 ppm copper, 1.5% arsenic, 124 ppm cobalt, 129 ppm nickel, and 16% iron. The high values here were expected and illustrate the general effectiveness of geochemical soil sampling in the area.

A strong, unexpected anomaly found at **L7N;18+50E** returned 5.16 gram\ton gold, 4.6 ppm silver, 109 ppm copper, 97 ppm lead, 664 ppm zinc, 1.6% arsenic, and 38 ppm antimony. The sample was taken in an area of little outcrop and no geology is available to explain the anomaly although it appears to lie on the southern flank of an Induced Polarization chargeability high depicted in previous work (**Ass. Rpt. #17590**). Sampling density in this area is in-sufficient to determine true trends although low gold values appear to occur throughout the grid. Detailed soil sampling and hand trenching are required to determine the true significance of this zone.

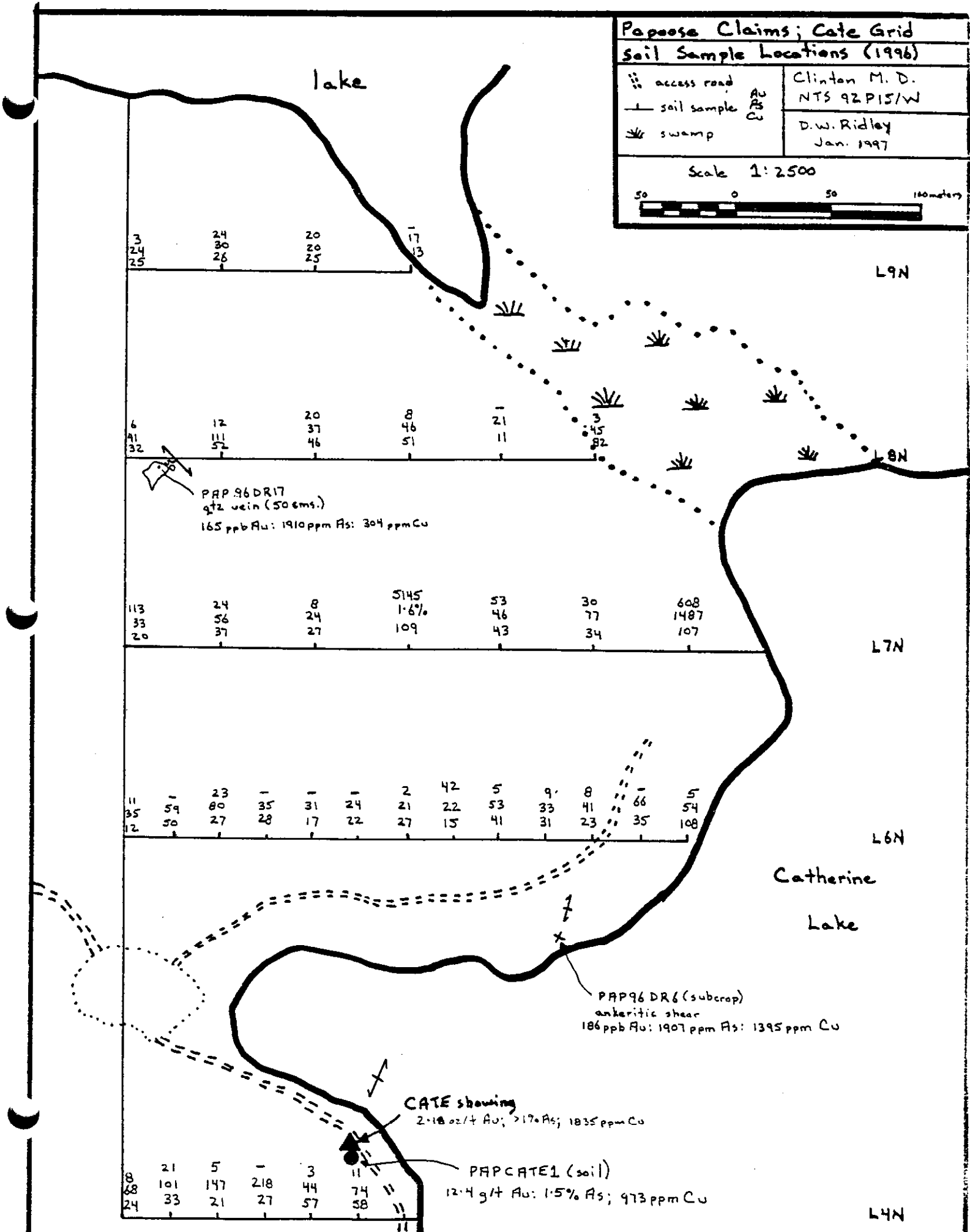
A second strong anomaly occurs at **L7N: 17+00E** and returned values of 608 ppb gold, 107 ppm copper, and 1437 ppm arsenic. This sample is situated near an outcrop of feldspar porphyry which contains minor pyrite and epidote and returned non-anomalous values in rock sampling (**PAP96 DR27**). This soil anomaly lies approximately 60 meters north-northwest of, and on apparent strike with, a zone of quartz-ankerite alteration at least 12 meters wide which returned non-anomalous values where sampled along the lakeshore (**PAP96 DR1-4**).

Several other soil samples produced anomalous gold values, however, they were not associated with either copper or arsenic and are generally lowly-anomalous. Several samples

Papoose Claims; Cate Grid
Soil Sample Locations (1996)

<ul style="list-style-type: none"> ⋯ access road — soil sample ⋆ swamp 	Au As Cu	Clinton M. D. NTS 92 P15/W D.W. Ridley Jan. 1997
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Scale 1:2500



3	24	20	17
24	30	20	13
25	26	25	

6	12	20	8	21	3
41	111	37	46	11	45
32	52	46	51		82

PAP 96 DR17
qtz vein (50 cms.)
165 ppb Au; 1910 ppm As; 304 ppm Cu

113	24	8	5145	53	30	608
33	56	24	1.6%	46	77	1487
20	37	27	109	43	34	107

11	23	31	24	2	42	5	9	8	66	5
35	80	35	17	21	22	53	33	41	66	54
12	59	27	28	22	15	41	31	23	35	108

PAP96 DR6 (subcrop)
ankeritic shear
186 ppb Au; 1907 ppm As; 1395 ppm Cu

CATE showing
2.18 oz/t Au; >17% As; 1835 ppm Cu

PAPCATE1 (soil)
12.4 g/t Au; 1.5% As; 973 ppm Cu

8	21	5	3	11
68	101	147	218	44
24	33	21	27	57

on **L4N** are anomalous in arsenic but the southern trace of the **Cate** structure was not located. Additional soil sampling is required to the south to determine the significance, if any, of these anomalies.

CONCLUSIONS

Based on the 1996 work program and a compilation of data from past operators it can be concluded that the **Papoose** property has good potential to host a "propylitic gold" type deposit similar to the **QR** mine near Likely BC. This is due the following points:

- Existence of mafic to felsic breccias and tuffs with subordinate argillite and finely laminated, carbonate-rich argillaceous sediments which are intruded by feldspar, diorite to gabbro, and hornblende porphyry plugs and dykes. This may represent a Jurassic volcanic center.
- Geochemical association of gold-arsenic-antimony, with or without copper in many of the exposures, as well as, widespread quartz-ankerite and propylitic alteration (chlorite-carbonate-quartz-pyrite and minor epidote).
- Sulphide-rich fracture fillings, veins, and shear zones which are anomalous in copper, arsenic, gold, with sporadic antimony, zinc, and cadmium. These zones may be peripheral to more substantial mineralization.
- Existence of soil samples which are highly anomalous in arsenic, gold, and copper, with lesser zinc, molybdenum, antimony, and cadmium.

RECOMMENDATIONS

Further work is definitely warranted for the **Cate** area of the **Papoose** claims and should be directed at the high soil anomalies found during this work program. Detailed geological mapping, hand trenching, rock and soil sampling, VLF-EM16 and magnetometer surveys should be carried out in the next phase of exploration. Machine trenching and/or diamond drilling would be carried out if the initial phase was favourable

FINANCIAL STATEMENT
ON THE
PAPOOSE 1 & 2 MINERAL CLAIMS
CLINTON MINING DIVISION
NTS 92P\15W
MARCH 2, 1997

PERSONNEL:

D. Ridley, prospector; 12D @ \$200\day	\$ 2400.00
D. Black, helper; 4D @ \$100\day.....	\$ 400.00
C. Ridley, prospector; 3D @ \$150\day	\$ 450.00

TRAVEL:

Truck Rental; 12D @ \$35\day	\$ 420.00
Gas;	\$ 100.00

SAMPLE ANALYSIS:

ROCKS; 33 @ \$19.08 each	\$ 629.64
SOILS; 38 @ \$19.08 each	\$ 725.04

SHIPPING: \$ 35.40

FIELD SUPPLIES: \$ 65.00

REPORT PREPARATION: \$ 400.00

TOTAL EXPENDITURES FOR 1996 WORK PROGRAM **\$ 5625.08**

BIBLIOGRAPHY

Campbell RB; Tipper HW; 1971; Geology of the Bonaparte Lake Area, 92P; GSC Memoir 363.

GSC Geophysics Paper 5231; Canim Lake, 92P15; Aeromagnetic Survey, 1968; Map #5231G.

Morton JW; 1954; Reconnaissance Geochemical Survey of the Senicar claims; Ass. Rpt. #12650

1984; Soil Geochemistry on the Senicar claims; Ass. Rpt. # 13230.

1985; Soil Geochemistry-Detailed Grid on the Senicar claims; Ass. Rpt. #14040.

1988; Trenching and I.P. Survey on the Senicar claims; Ass. Rpt. #17590.

Ridley DW; Dunn D; 1993; Prospecting Report on the Papoose property; Ass. Rpt. #23269.

Ridley DW; 1995; Prospecting Report on the Papoose 2 mineral claims; Ass. Rpt. #23925.

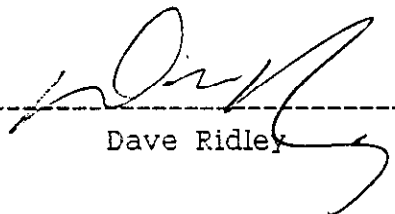
Saunders CR; 1987; Geological-Geochemical-Geophysical Report on the Senicar property; Ass. Rpt. #16199.

STATEMENT OF QUALIFICATIONS

I, David Wayne Ridley, of General Delivery, Eagle Creek, BC, VOK 1LO, do hereby certify;

- 1) That I completed the "Mineral Exploration for Prospectors" course, held by the BC Ministry of Mines at Mesachie Lake, BC, in 1984.
- 2) That I completed the short course entitled "Petrology for Prospectors" held in Smithers BC and hosted by the Smithers Exploration Group, in 1990 and 1994.
- 3) That I have prospected independently since 1982 and have been employed as a prospector by various exploration companies in BC, Alaska, and Yukon Territory since 1984.
- 4) That I have qualified for and successfully completed several "Prospecting Assistance Grants" awarded by the provincial government and regulated by the BC Ministry of Mines.
- 5) That I conducted the work set out in this report.
- 6) That I currently own an un-divided 100% interest in these claims.

Dated at Hawkins Lake, BC,



Dave Ridley

Sampler D. RidleyDate June - July 1996Property PapooseNTS 92P/15

SAMPLE NO.	Sample Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS			
		Rock Type	Alteration	Mineralization		As	Co	Ag	
PAP96 DR1	1m	mafic volcanic	carb-chlorite	trace pyrite	poorly exposed outcrop along lake north of Cate showing: trend appears to be 155/90	5	78	81	
PAP96 DR2	1.5m	"	calcite veins to 2cms	minor pyrite	grab from outcrop + float \approx 5m S of DR1: a little more pyrite than at DR1	-	77	46	
PAP96 DR3	G	"	intense propylitic	pyrite to 1% trace cpy	grab from angular float + subcrop: 5m S of DR2; alteration much more intense than previous two.	3	115	56	
PAP96 DR4	1.6m	feldspar porphyry	carbonate chlorite	trace pyrite	\approx 5m South of DR3: end of outcrop.	2	49	42	
PAP96 DR5	G	mafic volcanic	hornfels	up to 3% pyrite on fracture surfaces	SW of DR4; grab from poorly exposed subcrop.	-	64	12	
PAP96 DR6	1m	ankerite shear	calcite ankerite \pm quartz	1-2% pyrite minor cpy	on lakeshore \approx 30m S of L6N: 17+75E; grab from outcrop + subcrop rubble; poorly exposed: shear trends 194/90	186	138	187	
PAP96 DR7	F	quartz	calcite	trace py-cpy	\approx 20m on 230° to DR6: beside lake: angular float possible subcrop: highly fractured + limonite stained	50	294	562	
PAP96 DR8	F	augite porphyry	chlorite	up to 2% py	\approx 20m South of L6N: 17E: along lake: possible subcrop: on North side of diorite dyke	-	125	86	
PAP96 DR9	2m	shear zone	limonite hornfels	up to 1% py	\approx 25m South of L7N: 17+75E: North side of feldspar porphyry dyke??	3	62	70	
PAP96 DR10	2m	tuff + augite porphyry	minor calcite veins	minor pyrite	on skid road N side of lake on approximate strike to Cate showing: major fractures 024/80W: augite porphyry dykes? to 3cms wide trend 105/90:	-	53	39	
PAP96 DR11	G	altered feldspar porphyry	ankerite quartz chlorite	minor pyrite siderite veinlets	poorly exposed subcrop: \approx 15m to L6N: 17+75E: similar to carb altered zone immediately east of Cate showing on opposite side of lake:	5	235	28	
PAP96 DR12	1m	"	"	minor pyrite trace chalcopryite	5m Easterly from DR11: small zone appears to trend 105/70N: zone \approx 20cms wide.	6	652	37	
PAP96 DR13	F	breccia	silicified qtz stockwork	pyrite to 7%	South side access road \approx 20m East BL20E: 5N	11	68	21	
PAP96 DR14	40cm	shear zone	carb veinlets heavy chlorite	2-3% pyrite	BL20E: 4+20N: subcrop: poorly exposed	5	699	92	
PAP96 DR15	1.5m	augite porphyry breccia	heavy chlorite-carbonate	no visible sulphides	L4N: 19+19E: bedding?? 360/70W: strong fractures @ 105/75N	2	104	19	

C-CHIP G-GRAB F-FLOAT

ROCK SAMPLE SHEET

Pg 2 of

Sampler D. Ridley
Date July 1996

Property Papoose

NTS 92P/15

SAMPLE NO.	Sample Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS				
		Rock Type	Alteration	Mineralization		Ag	Cu	As		
PAP96 DR16	F	quartz breccia	quartz clay?	trace pyrite	≈ 20 m N of L4N: 18+75E; float train trend 020°; following west side of feldspar porphyry dyke @ Cate showing	2	41	42		
PAP96 DR17	50cm	quartz vein	limonite chlorite carbonate	upto 15% pyrite	5 m S of L4N: 19+66E; poorly exposed subcrop, vein trends 32°/50SW	165	304	1910		
PAP96 DR18	G	altered mafic volcanic?	chlorite limonite pyrite	trace cpy-malachite	3m West of DR17; subcrop rubble from hand trench. requires machine trenching or blasting to fully expose zone. includes mineralized quartz vein from DR17 (only 15cm wide)	168	1283	2662		
PAP96 DR19	G	"	"	massive pyrite blobs to 2cm diameter + matrix to 1/2 cm wide.	@ DR18; pyrite-rich wallrx from in handtrench @ DR18	19	700	146		
PAP96 DR20	F	volcanic breccia	hornfels silica diopside, etc carbStkuk	1-3% pyrite	very angular probable subcrop. bus de lake; exposed by recent blowdown;	10	226	116		
PAP96 DR21	50cm	qtz-carb stockwork	qtz-carb chlorite	minor py-malachite	≈ 20 m S of L4N: 17125E; wallrx contain upto 2% py; poorly exposed subcrop?? (6.4 ppm Ag)	4	272	79		
PAP96 DR22	1m	mafic tuff	qtz-carb stockwork chlorite	minor py	hanging wall side (west) of feldspar porphyry dyke. these weathered like: 25m west of PAP96 DR1.	2	87	43		
PAP96 DR23	2m	intermed. tuff + breccia	minor qtz vein, limonite chlorite	nil to + 5% py trace cpy	top of ridge immediately above PAP96 DR6. ≈ 10m N of L7N: 17150E; quartz veining appears to be contained within E-W fractures	3	70	96		
PAP96 DR24	1m	altered breccia	ankerite siderite quartz	nil to trace py	3m S of DR23; rock wall silicified + carbonized	-	48	86		
PAP96 DR25	40 cm	shear zone	limonite ankerite	minor pyrite	≈ 20 m West of Cate showing along access road.	-	44	39		
PAP96 DR26	F	felsic tuff	carb veinlets	" "	beside lake ≈ 7m South of L7N; probable subcrop	-	110	18		
PAP96 DR27	F	feldspar porphyry	limonite	1/2 cm cubes of py u.f.g. py.	≈ 5 m west of L4N: 17E. rubble probable subcrop	-	142	19		
PAP96 DR28	50cm	feldspar porphyry diorite	quartz epidote chlorite	trace cpy-malachite	≈ 12 m South of L7N: 21+35E; strongest fractures @ 082/60S	5	93	109		
PAP96 DR29	G	intermed tuff breccia	qtz-carb stkuk chlorite	minor pyrite	@ TL grid L7N: 18+75E; random grab of a very + subcrop in vicinity of A	-	35	21		
PAP96 DR30	F	"	"	trace f.g. pyrite	@ TL grid L7N: 18+50E;	4	26	97		

C-CHIP G-GRAB F-FLOAT

ROCK SAMPLE SHEET

Pg. 1 of 1

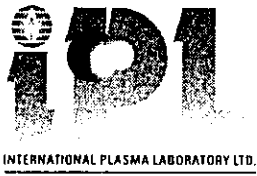
Sampler D. Ridley
 Date Oct. 1998

Property Papoose

NTS 92P/15'

SAMPLE NO.	Sample Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS			
		Rock Type	Alteration	Mineralization		A ₀	C ₀	A _s	
PAP94 DR31	G	andesite porphyry	epidote carbonate	up to 17% f. sp. py	7m East of DR30: feldspars altered to epidote, subcrop rubble; requires machine trenching to fully expose zone	-	115	39	
PAP94 DR32	G	intersect tuff breccia	limonite weak chlorite carbonate	1-3% disse. py	≈ 12 m East of BL20E (A+75N) subcrop rubble; 1.5m sample width	9	43	20	
PAP94 DR33	G	"	chlorite carbonate quartz + kfs	minor py	≈ 8m South of TRL7N: 19+00E: weak soil anomaly (Ab) in early work; just inside forest; easy machine access.	-	80	37	
PAP CATE1	-	soil sample	limonite		soil taken above Cate showing to obtain soil geochem signature of showing. (16% Fe)	12.42 g/t	973	1.5%	

C-CHIP G-GRAB F-FLOAT



CERTIFICATE OF ANALYSIS

iPL 96L1301

2036 Columbia Street
 Vancouver, B.C.
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 Phone (604) 879-7878
 Fax (604) 879-7898

Homestake Canada Inc

Out: Dec 24, 1996 Project: 90621
 In : Dec 18, 1996 Shipper: Keith Patterson
 PO#: Shipment: ID=C034301

71 Samples 71= Rock 0= Soil 0= Core 0=RC Ct 0= Pulp 0=Other [130116:06:39:69122496]
 Raw Storage: 03Mon/Dis -- -- -- -- -- Mon=Month Dis=Discard
 Pulp Storage: 12Mon/Dis -- -- -- -- -- Rtn=Return Arc=Archive

Msg: Au(FA/AAS 30g) ICP(AqR)30
 Msg: Au(FA/Grav 1AT) for Au > 1 g/mt
Document Distribution

1 Homestake Canada Inc EN RT CC IN FX
 1000 - 700 W Pender St 1 2 1 0 1
 Vancouver DL 3D 5D BT BL
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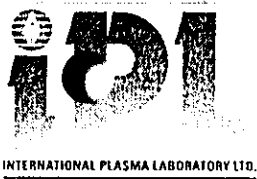
ATT: Dave Kuran Ph:604/684-2345
 Fx:604/684-9831

2 Homestake Mineral Development Co EN RT CC IN FX
 1000 - 700 West Pender St 2 2 1 2 1
 Vancouver DL 3D 5D BT BL
 BC V6C 1G8 0 0 0 1 0

ATT: Keith Patterson Ph:604/684-2345
 Fx:604/684-9831

Analytical Summary

##	Code	Met Title	Limit	Limit	Units	Description	Element	##
		hod	Low	High				
01	313P	FAAA Au	2	9999	ppb Au	FA/AAS finish 30g	Gold	01
02	364PFAGrav	Au	See Data	Pg	g/mt Au	FA/Grav in g/mt	Gold	02
03	721P	ICP Ag	0.1	100	ppm Ag	ICP	Silver	03
04	711P	ICP Cu	1	20000	ppm Cu	ICP	Copper	04
05	714P	ICP Pb	2	20000	ppm Pb	ICP	Lead	05
06	730P	ICP Zn	1	20000	ppm Zn	ICP	Zinc	06
07	703P	ICP As	5	9999	ppm As	ICP 5 ppm	Arsenic	07
08	702P	ICP Sb	5	9999	ppm Sb	ICP	Antimony	08
09	732P	ICP Hg	3	9999	ppm Hg	ICP	Mercury	09
10	717P	ICP Mo	1	9999	ppm Mo	ICP	Molybdenum	10
11	747P	ICP Tl	10	999	ppm Tl	ICP 10 ppm (Incomplete Digest	Thallium	11
12	705P	ICP Bi	2	999	ppm Bi	ICP	Bismuth	12
13	707P	ICP Cd	0.1	100	ppm Cd	ICP	Cadmium	13
14	710P	ICP Co	1	999	ppm Co	ICP	Cobalt	14
15	718P	ICP Ni	1	999	ppm Ni	ICP	Nickel	15
16	704P	ICP Ba	2	9999	ppm Ba	ICP (Incomplete Digest	Barium	16
17	727P	ICP W	5	999	ppm W	ICP (Incomplete Digest	Tungsten	17
18	709P	ICP Cr	1	9999	ppm Cr	ICP (Incomplete Digest	Chromium	18
19	729P	ICP V	2	999	ppm V	ICP	Vanadium	19
20	716P	ICP Mn	1	9999	ppm Mn	ICP	Manganese	20
21	713P	ICP La	2	9999	ppm La	ICP (Incomplete Digest	Lanthanum	21
22	723P	ICP Sr	1	9999	ppm Sr	ICP (Incomplete Digest	Strontium	22
23	731P	ICP Zr	1	999	ppm Zr	ICP	Zirconium	23
24	736P	ICP Sc	1	99	ppm Sc	ICP	Scandium	24
25	726P	ICP Ti	0.01	1.00	% Ti	ICP (Incomplete Digest	Titanium	25
26	701P	ICP Al	0.01	9.99	% Al	ICP (Incomplete Digest	Aluminum	26
27	708P	ICP Ca	0.01	9.99	% Ca	ICP (Incomplete Digest	Calcium	27
28	712P	ICP Fe	0.01	9.99	% Fe	ICP	Iron	28
29	715P	ICP Mg	0.01	9.99	% Mg	ICP (Incomplete Digest	Magnesium	29
30	720P	ICP K	0.01	9.99	% K	ICP (Incomplete Digest	Potassium	30
31	722P	ICP Na	0.01	5.00	% Na	ICP (Incomplete Digest	Sodium	31
32	719P	ICP P	0.01	5.00	% P	ICP	Phosphorus	32



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Client: Homestake Canada Inc
Project: 90621 71 Rock

iPL: 96L1301

Out: Dec 24, 1996
In: Dec 18, 1996

Page 1 of 2
[130116:06:40:69122496]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	Mg %	K %	Na %	P %
PAP 96 DR 1	2.81	0.17	0.04	0.07
PAP 96 DR 2	2.66	0.11	0.05	0.11
PAP 96 DR 3	3.92	0.06	0.02	0.06
PAP 96 DR 4	2.32	0.10	0.05	0.08
PAP 96 DR 5	1.17	0.16	0.13	0.07
PAP 96 DR 6	1.68	0.14	0.02	0.05
PAP 96 DR 7	0.35	0.02	0.02	0.01
PAP 96 DR 8	1.51	0.10	0.07	0.09
PAP 96 DR 9	1.45	0.09	0.23	0.04
PAP 96 DR 10	1.43	0.04	0.09	0.07
PAP 96 DR 11	0.87	0.32	0.04	0.24
PAP 96 DR 12	0.71	0.35	0.02	0.20
PAP 96 DR 13	0.78	0.12	0.06	0.05
PAP 96 DR 14	0.64	0.27	0.02	0.10
PAP 96 DR 15	2.23	0.09	0.03	0.10
PAP 96 DR 16	0.66	0.02	0.02	0.03
PAP 96 DR 17	0.45	0.14	0.04	0.05
PAP 96 DR 18	0.38	0.02	0.02	0.07
PAP 96 DR 19	0.87	0.06	0.02	0.16
PAP 96 DR 20	0.98	0.08	0.12	0.10
PAP 96 DR 21	0.76	0.19	0.07	0.06
PAP 96 DR 22	0.89	0.11	0.18	0.08
PAP 96 DR 23	1.09	0.20	0.03	0.04
PAP 96 DR 24	1.46	0.14	0.02	0.08
PAP 96 DR 25	0.67	0.02	0.04	0.07
PAP 96 DR 26	0.82	0.07	0.10	0.06
PAP 96 DR 27	1.34	0.09	0.06	0.16
PAP 96 DR 28	1.06	0.11	0.05	0.06
PAP 96 DR 29	0.95	0.10	0.11	0.04
PAP 96 DR 30	1.43	0.07	0.06	0.03
PAP 96 DR 31	1.80	0.03	0.03	0.08
PAP 96 DR 32	1.43	0.04	0.06	0.04
PAP 96 DR 33	1.33	0.06	0.03	0.23
PAP CATE 1	0.69	0.01	0.01	0.23
PAP L4N 18+75E	0.31	0.06	0.02	0.13
PAP L4N 19+00E	0.51	0.07	0.02	0.09
PAP L4N 19+25E	0.16	0.04	0.02	0.08
PAP L4N 19+50E	0.24	0.08	0.02	0.23
PAP L4N 19+75E	0.35	0.09	0.02	0.13

Min Limit 0.01 0.01 0.01 0.01
Max Report 9.99 9.99 5.00 5.00
Method ICP ICP ICP ICP

--No Test 1ns-Insufficient Sample S-Soil P-Pow G-Corp L-Silt P-Pulp H-Undefined m-Estimate/1000 % Estimate % Max No Estimate



INTERNATIONAL PLASMA LABORATORY LTD.

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Vancouver, B.C.
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Page 2 of 2
[130116:06:41:69122496]

Section 1 of 2
Certified BC Assayer: David Chiu

Handwritten signature

Table with columns: Sample Name, Au (ppb, g/mt), Ag (ppm), Cu (ppm), Pb (ppm), Zn (ppm), As (ppm), Sb (ppm), Hg (ppm), Mo (ppm), Tl (ppm), Bi (ppm), Cd (ppm), Co (ppm), Ni (ppm), Ba (ppm), W (ppm), Cr (ppm), V (ppm), Mn (ppm), La (ppm), Sr (ppm), Zr (ppm), Sc (ppm), Ti (%), Al (%), Ca (%), Fe (%). Rows include various sample IDs like PAP L4N 20+00E BL, PAP L6N 17+00E, etc.

Summary table with columns: Min Limit, Max Repor, Method, and various numerical values corresponding to the elements in the main table.



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Page 2 of 2
[130116:06:41:69122496]

Section 2 of 2
Certified IC Assayer: David Chiu

Sample Name	Mg %	K %	Na %	P %
PAP L4N 20+00E BL	0.26	0.05	0.02	0.08
PAP L6N 17+00E	0.41	0.05	0.03	0.05
PAP L6N 17+25E	0.31	0.06	0.03	0.07
PAP L6N 17+50E	0.30	0.07	0.02	0.13
PAP L6N 17+75E	0.44	0.11	0.03	0.10
PAP L6N 18+00E	0.58	0.14	0.03	0.15
PAP L6N 18+25E	0.22	0.09	0.03	0.09
PAP L6N 18+50E	0.45	0.13	0.03	0.09
PAP L6N 18+75E	0.39	0.11	0.03	0.08
PAP L6N 19+00E	0.39	0.08	0.03	0.18
PAP L6N 19+25E	0.62	0.08	0.02	0.08
PAP L6N 19+50E	0.58	0.07	0.02	0.15
PAP L6N 19+75E	0.59	0.09	0.02	0.17
PAP L6N 20+00E BL	0.28	0.07	0.02	0.17
PAP L7N 17+00E	0.74	0.05	0.03	0.16
PAP L7N 17+50E	0.46	0.08	0.03	0.05
PAP L7N 18+00E	0.65	0.08	0.03	0.05
PAP L7N 18+50E	0.37	0.09	0.03	0.20
PAP L7N 18+50E TR	0.48	0.07	0.03	0.13
PAP L7N 19+00E	0.25	0.05	0.03	0.07
PAP L7N 19+50E	0.44	0.12	0.03	0.05
PAP L7N 20+00E BL	0.27	0.06	0.02	0.07
PAP L8N 17+50E	0.03	0.07	0.03	0.02
PAP L8N 18+00E	0.07	0.03	0.03	0.07
PAP L8N 18+50E	1.17	0.11	0.03	0.08
PAP L8N 19+00E	0.56	0.08	0.03	0.12
PAP L8N 19+50E	0.64	0.10	0.03	0.27
PAP L8N 20+00E BL	0.27	0.04	0.03	0.10
PAP L9N 18+50E	0.27	0.03	0.02	0.03
PAP L9N 19+00E	0.45	0.07	0.02	0.10
PAP L9N 19+50E	0.38	0.10	0.02	0.16
PAP L9N 20+00E BL	0.43	0.08	0.02	0.08

Min Limit	0.01	0.01	0.01	0.01
Max Repc *	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP