

ASSESSMENT REPORT

ON THE 1995

DIAMOND DRILLING PROGRAM AND INDUCED POLARIZATION/RESISTIVITY SURVEY

ON THE JEAN PROPERTY  
(JW 162, 201, 300-308, 309 FR)

NATION LAKES AREA,

NORTHCENTRAL BRITISH COLUMBIA

OMINECA M. D.

LATITUDE: 55 deg. 05' NORTH

LONGITUDE: 124 deg. 55' WEST

N.T.S. 93N/2W

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORTS
DATE RECEIVED AUG 27 1996

**RECEIVED**  
AUG - 8 1996  
Gold Commissioner's Office  
VANCOUVER, B.C.

FILMED

24,518

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

REPORT BY  
RAGNAR U. BRUASET BSc  
RAGNAR U. BRUASET & ASSOCIATES LTD.  
AND  
ALAN SCOTT, P.GEOS.  
SCOTT GEOPHYSICS LTD.

PROJECT CARRIED OUT UNDER THE DIRECTION OF  
DAVID L. COOKE PhD, P. ENG  
D.L. COOKE & ASSOCIATES LTD.

REPORT DATE: DEC. 28, 1995

FIELD WORK DONE: August 9-October 17, 1995  
CLAIMS WORKED: JW 300-303, 305-308

OWNER AND OPERATOR: INTL. FOCUS RES. INC.  
GARY SCHELL, P. Eng, PRESIDENT

TABLE OF CONTENTS

	PAGE
SUMMARY	1
INTRODUCTION	2
LOCATION, ACCESS AND PHYSIOGRAPHY	3
PROPERTY AND OWNERSHIP	3
REGIONAL GEOLOGY	4
PROPERTY GEOLOGY AND MINERALIZATION	4
DIAMOND DRILLING	7
1995 DIAMOND DRILLING SUMMARY FOR COPPER	FOUR PAGES
SUMMARY OF HOLE LENGTHS AND CORE RECOVERIES	ONE PAGE
CONCLUSIONS	9
RECOMMENDATIONS	10
REFERENCES	11
STATEMENT OF QUALIFICATION	12
COST STATEMENT	13
PLATE 1: PROPERTY LOCATION MAP	SCALE BAR
PLATE 2: CLAIM MAP	1: 50,000
PLATE 3: IP ANOMALIES AND DRILL PLAN	(IN POCKET) 1: 5,000
PLATE 5: DISTRIBUTION OF Cu IN DRILL HOLES. (IN POCKET) DIAGRAMMATIC	
PLATE 6:           "       " Ag   "   "       "       "       "	"
PLATE 7:           "       " Pb   "   "       "       "       "	"
PLATE 8:           "       " Au   "   "       "       "       "	"

APPENDIX 1.

DIAMOND DRILL LOGS (Two parts: Lithology, Sample sheets)

APPENDIX 2.

ANALYTICAL RESULTS, SAMPLE PREP. AND ANALYTICAL PROCEDURES

APPENDIX 3

SCOTT, A. LOGISTICAL REPORT INDUCED POLARIZATION/RESISTIVITY  
SURVEY JEAN PROPERTY SEPT. 14, 1995

## SUMMARY

The Jean property is a porphyry copper-molybdenum-gold prospect situated on the southern contact of the Jean Marie stock, an intrusive outlier of the southern Hogem batholith in northcentral B. C. The property is centered about 15 km south of Tchentlo Lake in the Nation Lakes area (1:50,000 NTS sheet CHUCHI LAKE 93N/2).

Fracture controlled chalcopyrite, pyrite, molybdenite and bornite occur variously in three drill-indicated zones located astride the faulted contact of the Early Cretaceous Jean Marie stock with the Upper Triassic volcanics of the Takla Group. This fault is locally known as the Contact fault (Plate 3).

The Induced Polarization method has historically been an effective guide to copper mineralization on the Jean property. Existing IP coverage, about 160 km in total, indicates an IP anomaly of +10 millivolt/volt chargeability located generally along the southern contact of the Jean Marie stock. This anomaly is about 8 km in length and extends up to 2.5 km south of the Contact fault.

Substantial portions of this large anomalous area are characterized by chargeabilities of +15 mV/volt, or equivalent percent frequency effect. Interesting porphyry potential is seen in this system which has to date undergone only scant testing. The overall results to date are very encouraging: On the basis of the size and strength of known mineralized structures and the extent of the overall IP anomaly, potential is believed to exist in this area for a major new porphyry camp.

The occurrence of very large, strong unexplained geochemical anomalies for copper and, or, molybdenum on the Jean property have attracted the attention of explorationists. The vendors began to relocate the Jean prospect in 1991 after its former owners, the N.B.C. Syndicate, had abandoned most of the key claims. After relocating two of the principal showings, the vendors purchased a 100 % interest in the remaining 14 units. Intl. Focus Res. Inc. optioned the property in 1994.

Prior to the commencement of the 1995 IP survey and drilling program, most of the vendors' JW claims, which included a large number of 2 Post claims, were abandoned and relocated under Sections 32 and 33 of the Mineral Tenure Act. Currently, the property consists of eleven 4 Post and one fractional mineral claims totalling 181 units.

The 1995 program included 24.9 line km of 4-separation reconnaissance IP and resistivity. This survey extended the so-called B induced polarization anomaly, or B Anomaly, which was described in Assessment Reports No. 4774 and 5590. Also further defined were the H and the N anomalies. In the course of the 1995 survey, the B anomaly, within which the B Zone mineralization is located, was extended 400m grid east from L 32 W at the 2nd separation chargeab-

ility and a further 600 m at the 3rd and 4th separation levels. This IP survey also extended the N anomaly at the 15 mV/v level for an additional 1.5 km to grid west and defined the anomaly on the south side. The N anomaly is now in excess of 2 km in length by about 0.6 to 0.8 km in width based on the 15 mV/v contour. This anomaly also appears to connect with the H anomaly (Plate 3). The most recent survey also defined the south edge of the H anomaly as well as the overall southern limits of the 10 mV/volt chargeability contour (Plate 3).

The untested portion of the H anomaly measuring about 1 Km by 1.5 km at +15 mV/v chargeability, or equivalent, for  $n=2$ , lies immediately south of the Contact fault and adjacent to a strong coincident copper-molybdenum soil anomaly. One of this year's diamond drill holes tested the southeastern edge of the H anomaly. This season's drilling was plagued by shortage of water which severely restricted areas where drilling could take place.

The 1995 diamond drilling program consisted of a total of 838.40 m in 5 NQ holes. Most of this drilling was carried out in the general A and B Zones areas which were discovered by the former owners in 1974 in the course of percussion drilling of blind IP anomalies.

#### INTRODUCTION

The Jean property was discovered in 1969 in the course of reconnaissance stream silt sampling carried out by Cam J. Stephen, prospector, working for the N. B. C. Syndicate. The exploration history of the Jean prospect is discussed at some length in Cooke and Bruaset, 1991.

The objectives of the 1995 program were:

1. To determine by IP surveying the southern limits of the H anomaly. This anomaly was extended about 400 m to the SW along L 80E.
2. To determine by IP surveying the western and southern extensions of the N anomaly. This sizeable chargeability anomaly was first indicated in the 1994 survey. Our initial interest in that area resulted from a 1993 biogeochemical survey which included copper analyses. The current survey extends the N anomaly 1.5 km westerly thereby indicating an anomaly of overall approximate dimensions 2 km by 0.6 to 0.8 km for 15 mV/volt chargeability.
3. To evaluate with IP the unsurveyed area between the B, C and the N anomalies (Plate 3). The resulting eastern extension of the B anomaly measures 1 km for  $n=2$  to 4 at +15 mV/v chargeability. The Cu-Mo mineralization of the B Zone, and its western extension, the A Zone, comprise a total drill-indicated mineralized strike length

of about 2km. Thus, this possible eastern extension of the B Zone of 1 km adds significantly to the overall potential along the Contact fault.

4. Diamond drilling was intended to test the H and N IP anomalies as well as the known mineralization of the A and B Zones. Due to shortage of water, it became necessary to modify the drilling program extensively. Four vertical holes, totalling 809.44m were drilled. For details, please refer to the section on drilling.

#### LOCATION, ACCESS AND PHYSIOGRAPHY

The Jean property is situated near the headwaters of Jean Marie Creek.

Access is via about 100 km of logging roads northwesterly from Fort St. James. Miscellaneous logging roads occur in the broad valley to the south of the Jean property. A major access improvement on the east side of the property this fall resulted from Apollo Forest Products extending a logging road to within about 1 km of the NE edge of the H anomaly. However, because of the steepness of the terrain in this part of the H anomaly, and because of the road building regulations now in effect, the construction of a road to serve this part of the property is likely to be a fairly substantial undertaking. A route from the north up the west side of the H anomaly offer the best road prospects for this target. Such a route could connect with the N. B. C. road.

The Small Business Group of the Fort St. James Forestry is planning to upgrade an existing winter logging road extending onto the south-eastern portion of the Jean property and to build an extension for all-season log hauling as far as Airline Lake. This proposed road will run along the south side of the N anomaly and cross Jean Creek a short distance to the west of the existing road. Plate 3 shows part of this proposed route in relation to the Jean grid. We have discussed with the Fort St. James Forestry our own proposal for access to the N. B. C. Syndicate road via the N anomaly and they have indicated support for the 1996 construction of this proposed road.

The Jean property is characterized by gently rolling hills with elevations ranging from about 975m to 1597m. Maximum relief (450m) occurs in the NE part of the H Anomaly. Typical forest cover consists of white spruce, balsam fir and lodgepole pine.

Physiographically, the property is located in the northern portion of the division known as the Nechako Lowland (GSC map 1701A).

#### PROPERTY AND OWNERSHIP

The property consists of 12 claims totalling 181 units as per the attached claim list. The property is owned by Intl. Focus Res. Inc.

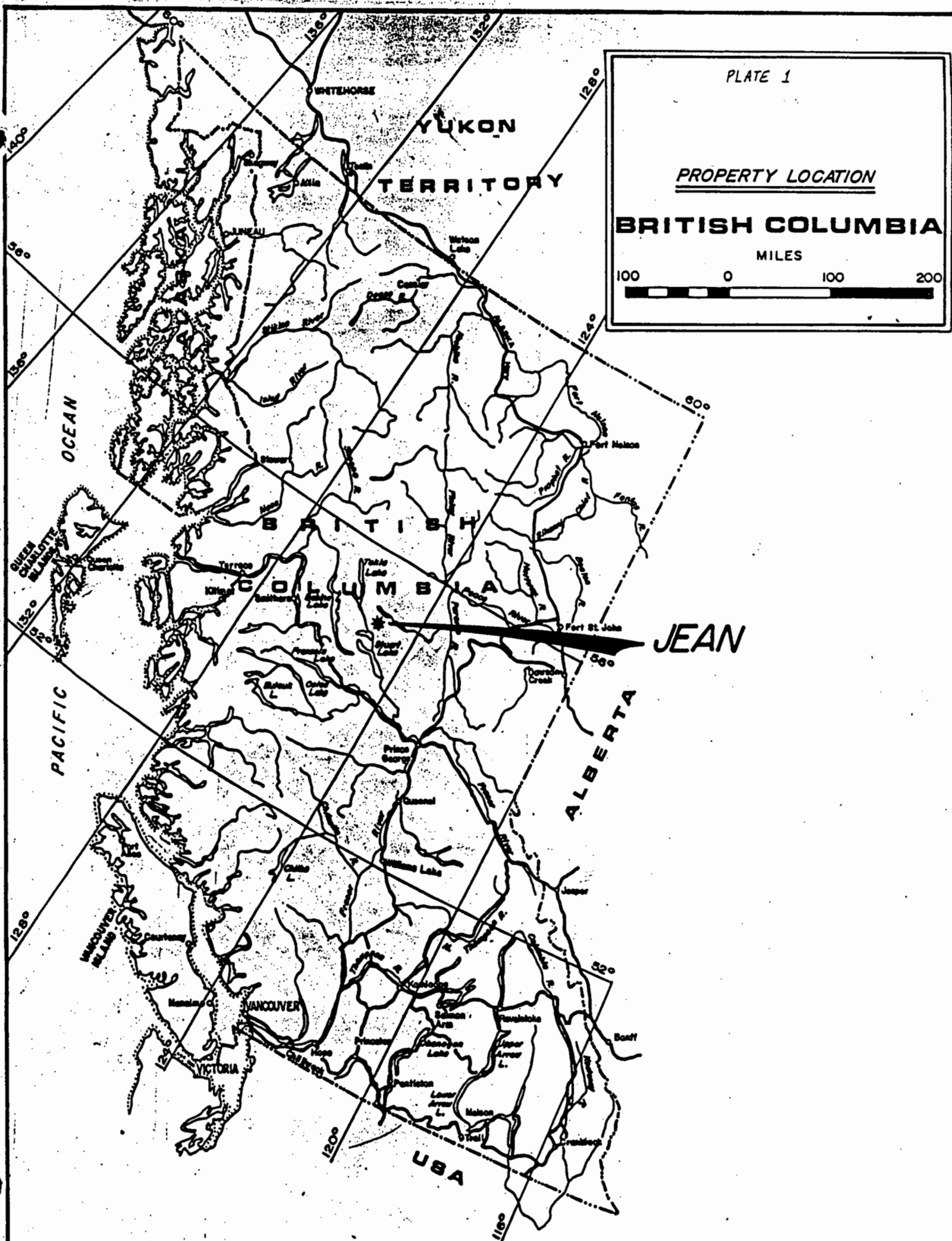


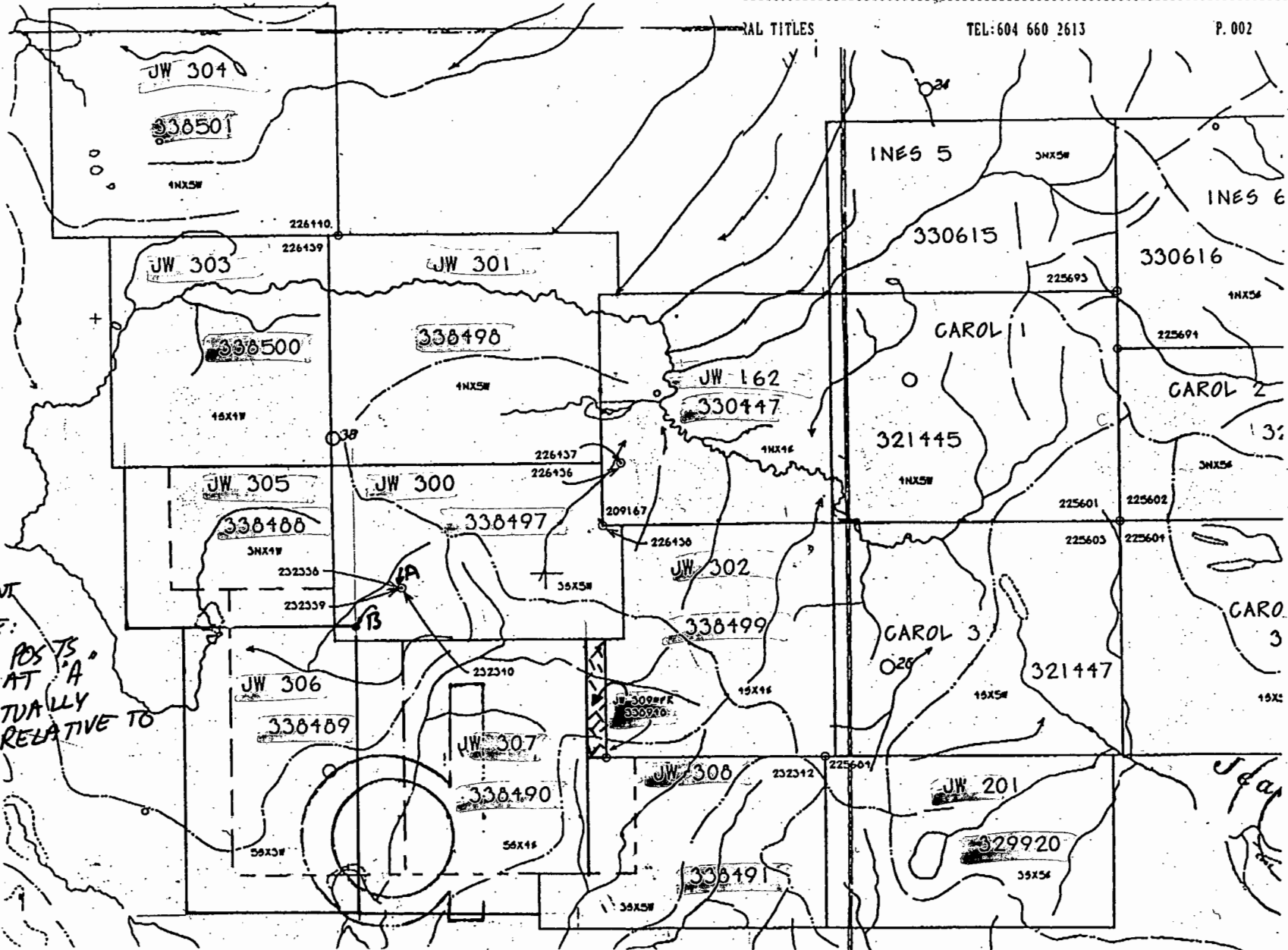
PLATE 1

PROPERTY LOCATION

**BRITISH COLUMBIA**

MILES

100 0 100 200



IMPORTANT  
NOTE:  
CLAIM POSTS  
SHOWN AT "A"  
ARE ACTUALLY  
AT "B" RELATIVE TO  
JW 300

THIS MAP REVISED AFTER GOVERNMENT'S MAP DATED FEB-22/96  
(NOTE THE REVISED POSITION OF LCP JW 305, 306, 307)



CLAIM LIST

CAUTION: THIS IS NOT AN OFFICIAL RECORD; PLEASE CONSULT SAME FOR ANY INFORMATION ON THIS SHEET.

CLAIM	TENURE NO.	UNITS	DATE COMPLETED
JW 162	330447	16	August 31, 1994
201	329920	15	August 10, 1994
300	338497	15	July 26, 1995
301	338498	20	July 29, 1995
302	338499	16	July 31, 1995
303	338500	16	August 3, 1995
304	338501	20	August 4, 1995
305	338488	12	August 5, 1995
306	338489	15	August 5, 1995
307	338490	20	August 5, 1995
308	338491	15	August 6, 1995
309 FR	338948	1	August 6, 1995
-----		-----	
12 claims		181 units	

and is subject to an option agreement with Ragnar U. Bruaset & Associates Ltd. and D. L. Cooke & Associates Ltd., as vendors.

#### REGIONAL GEOLOGY

The Jean Property occurs in the western part of a belt of mainly Upper Triassic Takla volcanics and coeval intrusions bounded by highly deformed Proterozoic and Paleozoic strata to the east and deformed Upper Paleozoic strata to the west. The western boundary of the Upper Triassic belt is the Pinchi Fault which occurs about 7 km west of the N anomaly. The Jean property area lies in the so-called Quesnellia Terrane which extends southeasterly into southern B. C. and northwesterly into the Yukon. This is the most productive copper belt in B. C. and is widely known in pre-terranic terminology as the Quesnel Trough. Alkaline and calc-alkaline porphyry camps such as Nation Lakes (Jean, Mt. Milligan), Quesnel River (Mt. Polley, ), Iron Mask (Afton, Ajax), Highland Valley (Bethlehem Copper, Lornex, Valley Copper, J-A), Copper Mtn. (Copper Mtn., Ingerbelle) and others, occur in this belt.

The Jean stock is the southern-most outlier of the southern Hogem batholith (Garnett, 1978). It is located about 9 km east of the Pinchi fault; a structure of regional extent paralleling the western contact of the Hogem batholith. A hornblende date for Jean granodiorite is 131 +/- 4 Ma (Garnett, 1978). This is comparable to the age of mineralization in the Endako molybdenum system at 135 Ma (K. Dawson, pers. comm.)

#### PROPERTY GEOLOGY AND MINERALIZATION

A description of the geology and mineralization of the Jean property is provided in Cooke and Bruaset, 1992 PART 1. Through the purchase from Chevron of certain key claims in the original N. B. C. Syndicate group, the vendors acquired a nearly complete data base of the Syndicate's exploration activity which spans the period 1969 to 1982. This has allowed us to build on the old data. Reports by Cooke and Bruaset, 1991, Bruaset, 1993, and Bruaset 1995 contain some previously unreleased geological information on the Jean property.

The Jean property covers the southwest portion of the Jean Marie stock and adjacent Takla volcanic rocks. The stock is a composite intrusion consisting of a granodiorite core with a diorite and quartz diorite border phase. Locally, both intrusive and volcanic rocks are intruded by dikes and sills of monzonite composition. The Takla volcanics consist mainly of augite andesite and lapilli tuff.

Thermal metamorphism of basic volcanics of the Takla Group to hornblende-hornfels facies extends at least 500 m away from the Contact fault which trends about 300 degrees and dips southerly.

Petrographic studies carried out by Ian Paterson of Cominco while the property was under Cominco's management indicated that the pyroxene hornfels facies is absent in the volcanic rocks nearest to the granodiorite contact of the Jean stock and that the metamorphic grade within the volcanics does not change with depth within a few hundred meters of the surface. This substantiates the existence of a fault at the southern granodiorite contact of the Jean stock. An angle hole drilled across this contact in 1975 confirmed the fault hypothesis. A variety of models have been proposed to explain the position of the granodiorite core of the Jean stock in contact with hornfels, and the indicated absence of pyroxene hornfels at this contact. The Contact fault appears to be a fundamental mineralizing structure on the property based on the occurrence of several mineralized zones located astride this fault. Zoning of sulphides and alteration as well as thickening of mineralization towards the contact fault has been widely accepted as implying a genetic relationship between the mineralization and the Contact fault. To date, only a small portion of the Contact fault has been tested but a remarkably high incidence of significant mineralization in holes drilled in IP anomalies along it is apparent.

A second fault, the Centre Creek fault, trending about 280 degrees is postulated to follow a series of aeromagnetic lows in the 1981 N. B. C. Syndicate survey (Walker, 1981). This possible fault trends through the southern parts of the N and H anomalies and intersect the Contact fault near the east side of the H anomaly.

JoAnne Nelson has commented on a suite of rocks, including thin sections, from the 1994 Jean map area (Letter by Ms. Nelson, dated 14 Feb. 1995). The mapping of Nelson in the Nation Lakes area includes the Witch Lake area a short distance east of the Jean. The mapping of Nelson extends eastwards to the Mt. Milligan area. Nelson's comments on the Jean biotite are of particular interest. She indicates that the volcanics in the property area are somewhat hornfelsed. She notes that the distribution of biotite is suggestive of a large potassic alteration system. She sites the texture of biotite, as well as its distribution in hornfelsed and non-hornfelsed rocks, as support for a metasomatic origin for the biotite. She holds the view that a large K-halo, similar to other porphyry properties in the district such as Mt. Milligan and BP Chuchi may be present on the Jean.

Based on information from known areas of significant mineralization on the property, chalcopyrite, pyrite, molybdenite and bornite occur variously in the intrusives of the Jean stock, mainly in granodiorite. This mineralization is frequently associated with quartz and potassium feldspar. Mineralization within the volcanic host tends to be chalcopyrite filled hairline fractures and seams of massive chalcopyrite with or without associated quartz. The principal known mineralized zones on the Jean form broad sub-

horizontal sheet-like deposits about 1 km in length, about 0.5 km in width and 15-30 m in thickness, straddling the Contact fault. The copper grades in the volcanic portion of the mineralized zones are typically higher than in the intrusive. In the intrusive portion, molybdenum is higher than in the volcanics. The Cu equivalent grades of the intrusive and volcanic portions of the mineralized zones are approximately equal. A notable characteristic of the mineral zoning in two of the Jean deposits is the fact that in the hanging walls, the chalcopyrite to pyrite ratio is  $\ll 1$ . Within the mineralized zones, this ratio is reversed. Copper mineralization in the hanging wall of these tabular zones tend to be very spotty. The tabular mineralized zones are characterized by high degrees of continuity in grade and thickness based on systematic percussion drilling at 400-foot centres variously on 400 and 800-foot spaced sections including step out holes between sections.

## DIAMOND DRILLING ON THE JEAN PROPERTY 1995

A light-weight Long Ranger flyable drill was employed in this project.

The drilling equipment was flown in from the 4 km point of the so-called 100 Road off the Leo Creek Forest Service Road.

The drilling was carried out by a contractor on a two shift basis between the dates September 15 and 28.

The drilling was preceded by a dry period and this continued for the duration of the program. Consequently some of the usual sources of water became inadequate to support a diamond drill. Andesite Creek in the B Zone area did not contain any visible running water during the program and Centre Creek in the H anomaly area contained barely enough for DDH J 95-1 and a week later, this creek contained no running water in the N anomaly area.

Table 1 contains general data on drilling, including core recoveries. The drill logs are to be found in Appendix 1. Except for holes J 95-4 and 5, core recoveries are acceptable. Most of the drilling was done without the benefit of mud. The core recovery in DDH J 95-5 in the interval where the B-Zone was expected to occur was less than 60%, even though the drilling was being carried out with mud. Accordingly, the results in these holes are inconclusive.

Sampling and core logging was carried out at Jean Camp situated in the A Zone area.

The core was logged by the author. The data was recorded on forms of the type utilized in the 1975 drilling program (Assessment Report 5633). Drill logs are found in Appendix 1. The ICP data are presented in Appendix 2 and the copper values are summarized in the tabulations following this section.

The sampling was carried out by a geochemist with more than 25 years of field experience including project management. All samples were double-bagged and flown out to the camp on back-hauls. Samples were stored under lock and key in a pick-up truck. When the truck contained a full load, the sampler would drive it to the prep. laboratory of Min-En at Smithers. Here samples were crushed and split to 250-300 g. All of the analytical work was carried out by Min-En Vancouver.

The four 11X17 inch maps in the pocket depict the distribution of certain elements that are anomalous in this data. These are copper, silver and lead. Gold is include for completeness. Each plot shows the normal levels of the element in question in comparable rocks based on data presented in Levinson, 1980. The broadly anomalous

TABLE 1

DDH	ORE SIZE	ANGLE	TOTAL LENGTH	CORE RECOVERY	NO. OF SHIFT ON SITE
95-1	NQ	-90 deg.	231.70m	97.67%	5
95-2	"	-90 deg.	240.85m	93.35%	6
95-3	"	-90 deg.	141.77m	98.34%	4
95-4	"	-55 deg.	28.96m	6.81%	2
95-5	"	-90 deg.	195.12m	77.62%	4
			----- 838.40		

1995 DIAMOND DRILL SUMMARY  
 COPPER IN  
 DDH J 95-1

THE OVERALL CORE RECOVERY IS 97.67%.

INTERVAL. m	LENGTH m	RANGE IN VALUES ppm	MEAN COPPER ppm
5.63- 21.34	15.71	33-85	49
21.34-36.59	15.25	18-45	35
36.59-50.61	14.02	20-88	61
50.61-60.98	10.37	51-93	70
60.98-72.87	11.89	65-101	87
72.87-85.37	12.5	75-165	100
85.37-97.56	12.19	25-91	48
97.56-109.76	12.2	36-84	63
109.76-125.00	15.24	82-102	92
125.00-134.15	9.15	83-108	92
134.15-149.39	15.24	73-118	88
149.39-164.63	15.24	67-120	83
164.63-179.89	15.26	92-103	98
179.89-195.12	15.23	54-111	95
195.12-210.37	15.25	18-41	29
210.37-225.61	15.24	13-33	19
225.61-231.70	6.09	4-24	16
	-----		
	226.07		

1995 JEAN DIAMOND DRILL SUMMARY  
 COPPER IN  
 DDH J 95-2

- NOTES: 1. Overall core recovery in this hole is 93.35%.  
 2. Core recovery in B Zone is 96.5%.  
 3. Core recovery in "New" Zone is 95.5%.

INTERVAL (m)	LENGTH (m)	RANGE IN VALUES; ppm, EXCEPT WHERE %	MEAN COPPER EXCEPT WHERE WEIGHTED AVERAGE (W) IS GIVEN
12.50-26.69	14.19	54-1434	523 (W)
B 26.69-36.59	9.9	8546-1.750%	1.2 % (W)
NOTE: The corresponding interval in nearby PH 74-6, the B Zone, averaged 0.46% Cu from 90-180 ft.			0.61%(W) ----- 28.19m
Z O N E 36.59-54.88	18.29	1862-4668	2987 (W)
54.88-82.32	27.44	505-2048	1005
82.32-94.51	12.19	1780-4543	3186
94.51-100.61	6.1	271-936	604
100.61-106.31	5.70	1567-5368	3468
106.31-155.18	48.87	127-1697	471
155.18-164.33	9.15	1157-1888	1628 (W)
	----- 109.45		1167ppm(w) ----- 109.45
N E W 164.33-173.78	9.45	4425-15.1%	1.43% (W)
Z O N E 173.78-182.93	9.15	563-2428	1203
E 182.93-200.00	17.07	481-1.650%	0.299% (W)
200.00-240.85	40.85	20-2131	344
	----- 228.35m		0.562%(W) ----- 35.67m

J 53. RPT



1995 JEAN DIAMOND DRILL SUMMARY  
 COPPER IN  
 DDH J 95-3

INTERVAL m	LENGTH m	RANGE IN VALUES ppm	MEAN COPPER ppm
6.1-12.20	6.1	208-1332	770
12.20-27.44	15.24	11-220	109
27.44-42.68	15.24	20-179	107
42.68-57.93	15.25	14-223	109
57.93-64.02	6.09	76-135	106
64.02-70.17	6.15	1625-1822	1724
70.17-88.42	18.25	12-196	72
88.42-94.51	6.09	10-38	24
94.51-97.56	3.05	554	554
97.56-118.90	21.34	13-136	59
118.90-141.77	22.87	10-186	69
	-----		
	135.67		

1995 DIAMOND DRILL SUMMARY  
COPPER IN  
DDH J95-5

NOTES: 1. Overall core recovery is 77.62%.

2. The core recovery in the interval 12.20 to 67.07m is 59.87%. The projection of the B Zone occurs within this interval based on the adjacent Imperial Cross sections 40W and 48W with hole J 95 -5 drilled at approximately the half-way point between the sections.

3. The core recoveries in the above average mineralized sections 76.22m to 94.51m and 131.10-149.39 are 92.2 and 89.78, respectively.

INTERVAL. m	LENGTH m	RANGE IN VALUES ppm	MEAN COPPER ppm
12.20-33.54	21.34	44-518	153
No core recovered between blocks 33.54 and 36.59.	3.05	-	-
36.59-64.02	27.43	135-889	450
64.02-76.22	12.2	51-90	67
76.22-94.51	18.29	372-1796	1222
94.51-106.71	12.2	298-685	526
106.71-109.76	3.05	1920	1920
109.76-131.10	21.34	185-733	379
131.10-149.39	18.29	826-8189	3385
149.39-161.59	12.2	292-1451	771
161.59-176.83	15.24	68-711	355
176.83-195.12	18.29	51-822	510
	----- 182.92		

levels in silver and lead from the H to A and B anomaly areas is interesting. These are typical halo elements in the porphyry environment.

The first hole tested the southern margin of the H anomaly intersecting pyrite as the main chargeable material. The second hole tested the B Zone encountering mineralogy typical of the B Zone but at a higher average grading, namely 0.61 % Cu over 28.19 m, which includes 9.9 m grading 1.2 %.

The third hole was a 40 m step-out from the so-called Apple Cot showing which is a tabular monzonite sill of unknown thickness exposed at the base of a steep cliff on the south-side of Jean Creek. This showing has yielded chip samples containing up to several percent Cu over more than one meter, including significant gold based on N. B. C. Syndicate data. The Apple Cot showing is a separate mineralizing structure occurring above the so-called A Zone. This hole intersected what appears to be the gently southerly dipping tail end of the A Zone with an intersection at 64.02 m of 0.17% Cu over 6.15 m. This is well below the average Cu grade of the nearest A Zone intersection.

DDH J 95-4, an angle hole, was collared in the B zone area. It was abandoned at about 29 m, due to poor core recovery. This site was re-drilled with DDH J 95-5, a vertical hole. Unfortunately, the core-recovery was about 59 % in the interval where the B Zone was postulated based on the percussion drilling intersections on adjoining sections. The results from this hole are very much inconclusive and it remains for further drilling to determine if the B Zone actually exists at this location.

Evidence point to the occurrence of several stacked copper zones separated by lower grade mineralization.

The thickness of the B Zone in percussion hole 74-6 on Section 48W (L48 W) was 27.44 m and in DDH 95-2 it is 28.19 m. These hole were drilled about 5 m apart. The weighted-average copper of the B Zone intercept in DDH 95-2 is 0.61 % whereas the percussion hole had a mean of 0.46 %. DDH 75-1, drilled at an angle of -55 degrees on Section 48W, intersected the B Zone near the half way point between PHs 74-6 and 74-7. The average of the B Zone intercepts in the two percussion holes is 0.42 % and the weighted-average of the B Zone samples in DDH 75-1 was 0.68 % Cu. Accordingly, the diamond drill indicated grade of the B Zone is potentially significantly above that indicated by the percussion drilling, although a great deal of additional drilling would be required to confirm this. It is notable that in the Highland Valley area, during the 1960's and 1970's there were general tendencies for diamond drill holes to yield overall copper grades in the range of 10 to 20 % higher than percussion grades. DDH 95-2 encountered a second mineralized zone at 164 m comparable to the B Zone. The New Zone averaged 0.56 %

over 35.67 m. In both of these zones, the chalcopyrite:pyrite ratios are  $\gg 1$  and in both cases mineralized fractures tend to have core angles of 60 to 80 degrees. The shallow dips are consistent with the subhorizontal attitude of the B Zone in cross-sections. The typical mineralized structures observed in core from these tabular zones including hairline fractures and seams containing mainly chalcopyrite.

The origin of the broad, tabular mineralized structures of the A and B Zones with total minimum combined mineralized length of about 1.7 Km remain unknown. Sub-horizontal fractures controlling chalcopyrite, molybdenite and pyrite are seen in outcrop in several locations along Jean Creek to the north of the B Zone. No evidence of a major sub-horizontal structure such as a thrust fault has been found on the property to date and no indications of the existence of secondary copper minerals beyond very rare occurrences of malachite are known.

#### CONCLUSIONS

1. The IP survey of 1995 extended the N anomaly of 1994 1.5 km towards grid west indicating a drill target at least 2 km in length and overall 0.6 to 0.8 km in width (+15 mV/v chargeability). There are no known surface indication, of the cause of this anomaly. Biogeochemical sampling in 1993 and 1994 has indicated the N anomaly area to be anomalous in copper, although this anomaly extends well beyond the limits of the 15 mV/v contour.
2. The IP survey of the southern extensions of Lines 80 E and 104 E in the H anomaly area defined the southern limits of that anomaly. A drill hole in the southeastern edge of this anomaly returned anomalous silver throughout but only weakly anomalous copper. This formidable anomaly which covers an area from .8 to 1.3 km in width and 1.5 km in length is considered to be one of the principal untested drill target on the Jean. This is a very attractive target based in part on its size, soil and bark geochemical expressions, and geological setting, including proximity to the Contact fault. This target also occurs close to the intersection of two possible fault structures, namely the Contact fault and the Centre Creek trend.
3. DDH 95-2 drilled in the B-Zone area intersected that zone at the projected depth. The diamond drilling confirms the width of the zone. The average copper grade of the diamond drill hole is about 32 % higher than in the nearby percussion hole. The B Zone intercept in this hole is followed by a 109.45 m section of 1167 ppm Cu then by 35.67 m of 0.56 % Cu. The hole bottomed in mineralization ranging from 20 to 2131 ppm Cu.
4. The results in DDH J 95-5 drilled about 120 m grid East of DDH 95-2 in the B-Zone area are inconclusive since the core recovery

was only 59 % in the projection of the B-Zone and about 78 % overall. However, it did return an intersection of 0.34 % Cu over 18.29 m near the bottom of the hole where the core recovery was above average.

5. A vertical hole about 40 m south of the Apple Cot copper-gold showing did not intersect mineralization of grade comparable to the nearby showing suggesting this mineralized zone may be terminated to the south, or could be more steeply dipping than surface exposures have so far indicate.

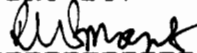
6. In geochemical terms, all of the areas tested this year appear to be anomalous in copper and silver. Spotty anomalous values were also obtained for gold, tungsten and arsenic.

7. A program of testing is recommended in the major IP anomalies such as the H and N. Testing is also warranted in the extensions and to depth within the A and B Zones and in the southern extension of the C Zone.

#### RECOMMENDATIONS

Comprehensive recommendations for ongoing work on the Jean property would include considerations of all geological, geochemical, and geophysical data as well as percussion and diamond drilling results and applicable mineralizing models. Because of the very large size of the targets indicated on this property, systematic fence-drilling of the broad anomalous pattern needs to be part of a comprehensive testing program. The overall IP pattern of the Jean should be considered in light of the experience at Gibraltar, as described in Rotherham, et al, 1972 and Cannon, et al, 1972. The overall anomalous pattern of the Jean is comparable in size to that of Gibraltar. At Gibraltar, major portions of the ore deposits had IP responses in the order of 1.5 to 3 % frequency effect or equivalent chargeabilities of 7.5 to 15 mV/v using a conversion factor of 5. On the Jean we have substantial areas of 10 to 15 mV/v chargeability surrounding areas of much higher chargeability. One of the challenges in the interpretation of this type of data is the recognition of possible halo patterns formed by pyrite marginal to deposits. Gibraltar is an example where such recognition aided in the discovery of the important deposits.

REPORT BY:



-----  
Ragnar U. Bruaset BSc  
Ragnar U. Bruaset & Associates Ltd.

December 28, 1995

## REFERENCES

Bruaset, R. U. Dec. 28, 1995. Assessment report on the 1995 diamond drilling program and IP/Resistivity survey on the Jean Property.

Bruaset, R. U., 1994. Assessment report on the 1993 biogeochemical survey of the Jean property.

Bruaset, R. U., July 1995. Assessment report on geology, biogeochemistry and IP covering the 1994 program on the Jean Property.

Cannon, R. W., Thornton, J. M. Rotherham D. C. Induced Polarization and Resistivity in the Gibraltar Area, B. C. in Transactions Vol. 252 Society of Mining Engineers, AIME p. 392 December 1972

Cooke, D. L., Bruaset, R. U. 1992. Assessment Report on JW AND WJ and JW CLAIMS. 2 parts: Geology, Biogeochemistry; covering 1991 surveys.

Garnett, J. A., 1978 Geology and Mineral Occurrences of the Southern Hogem Batholith B. C. D. M. Bull. 70

Hawkins, J. 1994 Scott Geophysics Ltd. Logistical Report. Induced polarization/Resistivity surveys Jean property August 29, 1994 APPENDIX 2 in Bruaset, 1994.

Levinson, A. A., 1980 Introduction to Exploration Geochemistry 2nd Edition.

Rotherham, D. C., Drummond, A. D., Tennant, S.J 1972. Exploration of Gibraltar Western Miner February, 1972 p. 25


Scott, A., Sept. 1995 Logistical Report IP/Resistivity Survey on Jean property August, September 1995. Appendix 3 in Bruaset, Dec. 28, 1995.

Walker, J. T., 1981 Airborne magnetometer and Electromagnetic survey Jean Property A. R. 9320.

STATEMENT OF QUALIFICATIONS

Ragnar U. Bruaset

1. I am a 1967 graduate of the University of British Columbia with a BSc degree in geology. I am a paid up member of the following technical societies: Geological Association of Canada (Fellow), The Association of Exploration Geochemists, Canadian Institute of Mining, Metallurgy and Petroleum, and Society of Economic Geologists.
2. I have supervised diamond drilling programs at various times in my geological career including a program on the Jean property in 1975.
3. I supervised programs involving geology, geochemistry, IP, percussion and diamond drilling and major access preparation on the former Jean Property on behalf of N. B. C. Syndicate over a 7-year period from 1973 to 1980 as an employee of Cominco Ltd.
4. I carried out geological and geochemical programs variously on the Jean Property in 1991, 1993, and 1994.

  
Ragnar U. Bruaset BSc  
Geologist

Dec. 28, 1995

JEAN PROJECT  
 COST STATEMENT  
 FOR COSTS  
 APPLICABLE FOR ASSESSMENT CREDITS

1. GROUND CONTROL. ESTABLISHING 27 KM OF CHAIN-SAWN LINE INCLUDING TIE-LINE	\$30,056
(HELICOPTER to be APPORTIONED: \$4228) ;	
(TRUCK RENTAL to be APPORTIONED: \$1375) ;	----- \$5,603
	-----
SUBTOTAL (ground control)	\$35,659
2. GEOPHYSICS. 24.9 KM OF INDUCED POLARIZATION AND RESISTIVITY SURVEYS	\$25,480
(HELICOPTER to be APPORTIONED: \$3247)	----- \$3,247
	-----
SUBTOTAL (geophysics)	\$28,727
3. DIRECT DIAMOND DRILLING COSTS. 838.40m TOTAL IN 5 HOLES	\$44,610
4. INDIRECT DIAMOND DRILLING COSTS. SALARIES, EXPENSES, FUEL, SAMPLING EQUIPMENT, DOMICILE, ANALYSES.	\$44,389
(HELICOPTER to be APPORTIONED: \$ 73,997) ;	
(TRUCK RENTAL to be APPORTIONED: \$2750) ;	----- \$76,747
	-----
SUBTOTAL (drilling)	\$165,746
5. FIELD SUPERVISION, REPORTING, REPRODUCTIONS	\$8,735
	-----
TOTAL	\$238,867

Jen56.rpt



APPENDIX 1

-----

DIAMOND DRILL LOGS

TWO PARTS:

1. Lithology
2. Sample Sheets

## DRILL LOG

DRILL LOG																	
Property: Jean		District: Omineca		Hole No.: J85-1		Elevation: -											
Commenced: Sept. 16/95 - total 5 shifts		Location: H Anomaly		Tests at: N/A		Hor. Comp.: Zero											
Completed: Sept. 18/95		Core Size: NQ		Corr. Dip: -90°		Vert. Comp.: 231.70											
Co-ordinates: 22.8 m @ 130° from 3+50S L80E (1995 extension)				True Brg.: -		Logged by: R.U. Bruaset											
Objective: To test IP anomaly				% Recov.: 97.67%		Date: September 1995											
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
0 - 5.63 m	Overburden																
5.63 - 23.17	Augite andesite. Generally massive and light green. Weak oxidation to 18.67 m. Clay and chlorite alteration seems to be increasing with depth. Chloritization is dominant alteration type occurring pervasively.								10.15 Chalcopyrite & pyrrhotite along a fracture @ 40°. The greatest amount of chalcopyrite seen so far in this hole.								
23.17 - 36.91	Lapilli tuff. Fragments are volcanics typically, maximum 3 cm. Traces of disseminated pyrite. Mafics range from fresh to weakly chloritized. Moderate clay alteration of feldspar.								12.00 Trace chalcopyrite with minor pyrite & heavier pyrrhotite in quartz chlorite vein @ 1.5 mm.								
30.48 - 31.37	Hornblende porphyry dyke characterized by well shaped fresh hornblende laths from 2-5 mm set in an aphanitic groundmass. Pyrite is disseminated (0.1%); no chalcopyrite seen.								14.15 Minor epidote and quartz with associated pyrrhotite, chalcopyrite, pyrite = 5:4:1  14.85 - 14.95 Bleaching and abundant chloritic fractures.								
36.91 - 43.55	Augite andesite as 5.63 - 23.17.								15.80 - 15.95 Bleaching. Fairly heavy chalcopyrite with pyr. (1:1) in quartz vein @ 0°.								

## DRILL LOG

Property:		District:		Hole No.: J95-1											
Commenced:		Location:		Tests at:		Hor. Comp.:									
Completed:		Core Size:		Corr. Dip:		Vert. Comp.:									
Co-ordinates:		True Brg.:		Logged by:											
Objective:		% Recov.:		Date:											
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AIL	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
43.55 -	Feldspar porphyry generally with aphanitic								18.93 Shearing @ 70°.						
44.63	groundmass. Prominent plagioclase laths to 4 mm. Plagioclase altered to clay and soft to knife.								17.39 Patchy epidote. 17.70 Shearing @ 25°. 19.17 Shearing @ 50°.						
44.63 -	Felsite. White. Intensely clay altered. Locally								20.76 Shearing @ 40°.						
46.61	brecciated and faulted as indicated by gouge @ 70°.								22.82 Gouge @ 50°. The first fault in this hole.						
46.61 -	Wacke including interbedded black siltstone. Wacke														
70.50	is variously massive to well bedded. Siltstone becomes dominant with depth. Pyrite occurs along bedding planes and in hairline fractures.								35.07 - 36.59 Very broken core. Several minor gouge and mylonitic zones @ 30-50°. 36.00 Fault @ 60°.						
	62.04 - 62.80 Augite andesite. Lower contact @ 40°, upper contact obscured by broken core. Disseminated pyrite 0.5%								36.22 Slickensides and gouge @ 55°.						
									40.75 Heavy pyrite and moly						
70.50 -	Light to medium grey volcanic breccia with augite								in border of calcite vein @ 55°.						
91.16	andesite fragments up to 16 cm. Sulphide in the form of disseminated pyrite. Chloritization common along fractures.								Py.mo = 1:3 44.63 Fault @ 0°, 30°. Gouge						

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-1											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:		True Brg.:				Logged by:									
Objective:		% Recov.:				Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AR.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
91.16 - 106.90	Light greenish grey lapilli tuff with dominant fragments to size 2-3 cm and rarely up to 5 cm.								45.00 Fault breccia @ 30°. Fine black sulphides present. 45.32 Fault gouge @ 30°.						
105.40 - 106.75	Intensely bleached and clay altered. Fragments are white and soft to knife. Minor emerald green sericite. Minor pyrite. Locally sheared and minor quartz veining including vuggy quartz.								48.07 - 48.27 Breccia. 51.75 Bedding @ 25°. 36.30 Bedding @ 60°.						
106.75 - 140.44	Sediment or volcanic sediment consisting of hard black aphanitic fragments set in aphanitic groundmass that appears to be arkosic. Thin bedding. Soft sediment deformation indicated. Trace disseminated pyrite.								59.10 Bedding @ 50°. 60.72 Bedding @ 50°. 63.92 Bedding @ 50°. 66.40 Bedding @ 40°. 76.61 Fault @ 10°. Slickensides. 78.96 Slickensides @ 60°. 83.70 Mylonite @ 40°. 85.91 Unusually heavy py @ 20°. 89.00 Fault @ 40°, 60°. Gouge and slickensides.						

## DRILL LOG

DRILL LOG																	
Property:		District:			Hole No.: J95-1												
Commenced:		Location:			Tests at:				Hor. Comp.:								
Completed:		Core Size:			Corr. Dip:				Vert. Comp.:								
Co-ordinates:					True Brg.:				Logged by:								
Objective:					% Recov.:				Date:								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
140.44 -	Chaotic breccia consisting of abundant felsic clasts								91.78 Fault @ 10°. Gouge and								
155.49	Including dark grey and black clasts. Dark fragments								slickensides								
	are occasionally thinly laminated. Abundant calcite																
	veining occurs with traces of pyrite.								91.90 Fault @ 30°. Gouge and								
									slickensides.								
155.49 -	Lapilli tuff with the largest fragments 4-5 cm.																
166.98	Greenish fragments predominate but dark grey to								92.34 Fault @ 30°. Mylonite.								
	black fragments also present. The principle								93.29 Fault @ 20°.								
	sulphide is pyrrhotite.								94.00 Fault @ 20°. Slickensides								
									and gouge.								
166.98 -	Massive hornblende porphyry with phenocrysts								101.32 Fault @ 10°. Slickensides								
168.73	of hornblende 2-3 mm. Sharp chilled lower and								105.40 Fault @ 20°.								
	upper contacts @ 80°. About 65% disseminated								112.10 Calcite-healed fault								
	pyrrhotite. About 50% of hornblende has altered								breccia.								
	to chlorite. Groundmass is fine grained and clay																
	altered.								117.62 - 118.27 Heavy calcite								
									veining in breccia section. No								
									sulphide.								

## DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-1												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:				True Brg.:				Logged by:								
Objective:				% Recov.:				Date:								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
168.73 - 225.40	Lapilli tuff generally with rare fragments to 12 cm - volcanic breccia (e.g. 197.70). A large proportion of the fragments are reddish brown perhaps due to fine grained secondary biotite. Abundant calcite stringers.								127.24 - 127.38 Unusually heavy pyrite in rare quartz-calcite veins @ 45°. No chalcopyrite seen.							
175.00 - 175.81	Fault breccia @ 80°. Heavy calcite veining.								131.71 Pervasive reddish brown alteration resembling secondary biotite.							
183.81 - 196.60	Feldspar porphyry with euhedral feldspars to 3 mm. Groundmass is fine grained. Mafica altered to chlorite.								141.60 - 141.92 Layering @ 80°.							
225.40 - 231.70	Generally tuff with dark reddish brown colour - secondary biotite produces colour? Trace pyrite.								143.94 Slickensides @ 30°. 147.38 Fault @ 60°. Gouge. 148.62 Fault @ 60°. Gouge.							
230.00 - 231.70	Variably greyish to dark reddish brown.								183.40 Layering @ 80°.  186.64 Fault @ 25°. Slickensided pyrite.							

## DRILL LOG

<b>DRILL LOG</b>																
Property:		District:		Hole No.: J95-1												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:				True Brg.:				Logged by:								
Objective:				% Recov.:				Date:								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									186.00 Minor fault. Slickensides @ 55°.							
									200.00 Fault. Slickensides @ 10°.							
									201.22 - 201.67 Heavy calcite veining.							
									212.00 - 214.70 Generally intensely bleached. Strongly clay altered. Above normal pyrite content.							
									218.80 Fault @ 30°. Slickensides							
									219.45 Fault @ 45°. Gouge.							
									219.51 - 220.1 Intense bleaching							
231.70 m	END OF HOLE								219.86 Fault @ 70°. Gouge.							

## SAMPLE SHEET

Property: Jean	District: Omineca M.D.	Hole No.: J95-1	Elevation: -	
Commenced: September 16/95	Location: H anomaly	Tests at: N/A	Hor. Comp.: Zero	
Completed: September 18/95	Core Size: NQ	Corr. Dip: -90°	Vert. Comp.: 231.70	
Co-ordinates: 22.8 m @ 130° from 3+50S Line 80E (1995 extension)		True Brg.: -	Logged by: R.U. Bruaset	
Objective: To test IP anomaly		% Recov.: 97.67%	Date: September 1995	

Note: Sampling diamond sewn core throughout

Analyses by MIN-EN Labs File No.: 5F-0149

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
0 -	5.63 OVERBURDEN																
5.63 -	9.15	trace	1:100		C	N/A	dissem			J-1	3.52	3.17					
9.15 -	12.20	<0.1	1:100		C	10,25,35, 40,45	fracts.			J-2	3.05	3.05					
12.20 -	15.20	<0.1	1:100		C	no data	fracts.			J-3	3.00	3.20					
15.20 -	18.29	<0.1	1:100		C	no data	fracts.			J-4	3.09	3.08					
18.29 -	21.34	<0.1	1:100		C	no data	fracts.			J-5	3.05	2.80					
21.34 -	24.39	<0.1	1:100		D	no data	fracts.			J-6	3.05	2.88					
24.39 -	27.43	<0.1	1:100		C	no data	fracts.			J-7	3.04	2.89					
27.43 -	30.48	<0.1	1:100		D	no data	fracts.			J-8	3.05	3.02					
30.48 -	33.54	<0.1	1:100		C	no data	fracts.			J-9	3.08	2.96					
33.54 -	36.59	<0.1	1:100		D	no data	fracts.			J-10	3.05	2.83					
36.59 -	39.63	<0.1	1:100		D	no data	fracts.			J-11	3.04	2.80					
39.63 -	42.68	<0.1	1:100	tr. Mo	D	55	fracts.			J-12	3.05	3.00					
42.68 -	45.72	<0.1	1:100		D	N/A	dissem			J-13	3.05	2.91					
45.72 -	48.78	<0.1	1:100		D	50, 65	fracts.			J-14	3.05	2.00					
48.78 -	50.61	3%	1:100		D	10	fracts.			J-15	1.83	2.12					
50.61 -	53.35	1%	1:100		C	20, 80	fracts.			J-16	2.74	2.71					
53.35 -	54.88	1%	1:100		C	10, 50	fracts.			J-17	1.53	1.37					
54.88 -	56.40	1%	1:100		C	45, 50	fracts.			J-18	1.52	2.15					
56.40 -	56.53	1%	1:100		C	20, 50, 80	fracts.			J-19	2.13	1.65					



## SAMPLE SHEET

Property:		District:	Hole No.: J95-1													
Commenced:		Location:	Tests at:		Hor. Comp.:											
Completed:		Core Size:	Corr. Dip:		Vert. Comp.:											
Co-ordinates:			True Brg.:		Logged by:											
Objective:			% Recov.:		Date:											
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
58.53 - 60.96		0.5	1:100		C	50, 65	fracts.			J-20	2.45	2.43				
60.96 - 64.02		0.5	1:100		C	10, 60	fracts.			J-21	3.04	3.00				
64.02 - 67.04		2%	1:100		D	0,15,40	fracts.			J-22	3.02	3.02				
67.04 - 69.51		2	1:100		D	20, 60	fracts.			J-23	2.47	2.88				
69.51 - 70.43		0.5	1:100		D	40	fracts.			J-24	0.92	0.81				
70.43 - 72.87		0.1	1:100		D	20, 40	fracts.			J-25	2.44	2.21				
72.87 - 75.92		<0.1	1:100		D	10,40,80	fracts.			J-26	3.03	3.10				
75.92 - 78.96		<0.1	1:100		D	N/A	dissem			J-27	3.04	3.00				
78.96 - 80.49		<0.1	1:100		D	N/A	dissem			J-28	1.53	1.62				
80.49 - 82.32		<0.1	1:100		D	N/A	dissem			J-29	1.83	1.64				
82.32 - 85.37		<0.1	1:100		D	10, 60	dissem			J-30	3.05	2.70				
85.37 - 88.11		2%	1:100		C	10,30,40, 50,80	dissem			J-31	2.74	2.70				
88.11 - 91.16		<0.1	1:100		D	N/A	dissem			J-32	3.05	2.90				
91.16 - 93.29		<0.1	1:100		D	N/A	dissem			J-33	2.13	2.33				
93.29 - 94.51		0.2	1:100		D	N/A	dissem			J-34	1.22	1.00				
94.51 - 97.56		0.1	1:100		D	N/A	dissem			J-35	3.05	3.00				
97.56 - 100.61		<0.1	1:100		D	N/A	dissem			J-36	3.05	2.98				
100.61 - 101.83		0.5	1:100		D	40	fracts.			J-37	1.22	0.94				
101.83 - 103.66		<0.1	1:100		D	N/A	dissem			J-38	1.83	2.16				
103.66 - 106.70		<0.1	1:100		D	N/A	dissem			J-39	3.04	2.78				

## SAMPLE SHEET

Property:	District:	Hole No.: J95-1	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
106.70 - 109.76		<0.1	1:100		D	N/A	dissem			J-40	3.06	2.80			
109.76 - 112.80		<0.1	1:100		D	N/A	dissem			J-41	3.04	3.00			
112.80 - 115.85		<0.1	1:100		D	0, 70	fracts.			J-42	3.05	2.70			
115.85 - 118.90		<0.1	1:100		D	50	fracts.			J-43	3.05	2.49			
118.90 - 121.95		<0.1	1:100		D	0,20,60	fracts.			J-44	3.05	2.80			
121.95 - 125.00		<0.1	1:100		D	10, 65	fracts.			J-45	3.05	3.00			
125.00 - 128.05		<0.1	1:100		D	30	fracts.			J-46	3.05	3.02			
128.05 - 131.10		<0.1	1:100		C	50, 70	fracts.			J-47	3.05	2.88			
131.10 - 134.15		<0.1	1:100		D	40, 50	fracts.			J-48	3.05	3.00			
134.15 - 137.20		<<0.1	1:100		D	15, 65	fracts.			J-49	3.05	3.20			
137.20 - 140.24		<<0.1	1:100		D	0,10,60	fracts.			J-50	3.05	3.00			
140.24 - 143.29		<<0.1	1:100		D	N/A	dissem			J-51	3.05	3.20			
143.29 - 146.34		<<0.1	1:100		D	N/A	dissem			J-52	3.05	2.89			
146.34 - 149.39		<<0.1	1:100		D	N/A	dissem			J-53	3.05	3.15			
149.39 - 152.44		<<0.1	1:100		D	N/A	dissem			J-54	3.05	3.00			
152.44 - 155.49		<<0.1	1:100		D	N/A	dissem			J-55	3.05	3.00			
155.49 - 158.54		<<0.1	1:100		D	N/A	dissem			J-56	3.05	2.96			
158.54 - 161.59		0.2	1:100		D	N/A	dissem			J-57	3.05	3.10			
161.59 - 164.63		0.2	1:100		C	N/A	dissem			J-58	3.04	2.92			
164.63 - 167.68		0.3	1:100		C	N/A	dissem			J-59	3.05	3.00			

## SAMPLE SHEET

Property:	District:	Hole No.: J95-1	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AIL	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
167.68 -	170.73	0.3	1:100		C	N/A	dissem			J-60	3.05	3.25			
170.73 -	173.78	0.1	1:100		C	40,45,60	fracts.			J-61	3.05	3.10			
173.78 -	178.83	0.1	1:100		C	N/A	dissem			J-62	3.05	3.00			
178.83 -	179.89	0.1	1:100		C	10	fracts.			J-63	3.08	2.94			
179.89 -	182.93	0.1	1:100		C	55	fracts.			J-64	3.04	2.86			
182.93 -	185.98	0.1	1:100		C	50	fracts.			J-65	3.05	3.02			
185.98 -	189.02	<<0.1	1:100		C	25, 50	fracts.			J-66	3.04	3.08			
189.02 -	192.07	<<0.1	1:100		C	10	fracts.			J-67	3.05	3.14			
192.07 -	195.12	<<0.1	1:100		D	N/A	dissem			J-68	3.05	3.10			
195.12 -	198.17	<<0.1	1:100		D	N/A	dissem			J-69	3.05	3.02			
198.17 -	201.22	<<0.1	1:100		D	N/A	dissem			J-70	3.05	3.04			
201.22 -	204.27	<<0.1	1:100		D	N/A	dissem			J-71	3.05	2.95			
204.27 -	207.32	<<0.1	1:100		D	N/A	dissem			J-72	3.05	3.02			
207.32 -	210.37	<<0.1	1:100		D	N/A	dissem			J-73	3.05	3.03			
210.37 -	213.41	<<0.1	1:100		D	N/A	dissem			J-74	3.04	3.04			
213.41 -	216.46	0.2	1:100		D	40,50,60	fracts.			J-75	3.05	3.09			
216.46 -	219.51	<<0.1	1:100		D	N/A	dissem			J-76	3.05	3.04			
219.51 -	222.58	<<0.1	1:100		D	N/A	dissem			J-77	3.05	3.08			
222.58 -	225.61	<<0.1	1:100		D	40, 50	fracts.			J-78	3.05	3.10			
225.61 -	228.66	<<0.1	1:100		D	45, 60	fracts.			J-79	3.05	3.20			

### SAMPLE SHEET

Property:	District:	Hole No.: J95-1	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AIL	Notes	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
228.66 -	230.49	<<0.1	100:1		D	N/A	dissem			J-80	1.83	1.83			
230.49 -	231.70	<<0.1	100:1		D	N/A	dissem			J-81	1.21	0.98			
231.70 m	END OF HOLE														

## DRILL LOG

Property: Jean	District: Omineca, M.D.	Hole No.: J95-2	Elevation: -		
Commenced: September 19/95	Location:	Tests at: N/A	Hor. Comp.: Zero		
Completed: September 22/95	Core Size: NQ	Corr. Dip: -90°	Vert. Comp.: 240.85		
Co-ordinates: Approx. 10+60N L48W (Ref. Map JP75-4 1" = 400') 4.7 m @ 353° from PH74-6		True Brg.: -	Logged by: R.U. Bruaset		
Objective: To test IP anomaly		% Recov.: 93.35%	Date: September 1995		

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
0 - 12.50 m	Overburden								21.50 Chalcopyrite starts to appear as fracture fillings.							
12.50 - 26.69	Fine grained augite andesite. Pyrite occurs as disseminations and as hairline fracture fillings. Sparse chalcopyrite. No oxidation.								These fractures frequently contain quartz gangue.							
26.69 - 45.73	Fine grained augite andesite hosting a copper bearing zone. Chalcopyrite is suddenly >> pyrite. Biotite has now been altered to chlorite. At the top of the mineralized zone, occurs a quartz vein @ 85° to the core axis and this vein contains fairly heavy moly. Typical copper mineralized structures are hairline fractures @ 60-70° to core. This pattern persists below this Cu mineralized zone but the fractures are there typically filled with pyrite. Rare feldspar selvages relative to mineralized fractures.								27.44 Feldspar selvage of 2 mm relative to quartz vein. 28.65 1 cm wide bleached zone.							
									46.30 - 46.68 Pervasive bleaching on section of moderately strong pyrite mineralization.							
									51.63 Moderately strong chalcopyrite in fracture in bleached section 4 cm thick.							

## DRILL LOG

DRILL LOG																	
Property:		District:		Hole No.: J95-2													
Commenced:		Location:		Tests at:				Hor. Comp.:									
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:									
Co-ordinates:		True Brg.:				Logged by:											
Objective:		% Recov.:				Date:											
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
45.73 - 189.07	Fine grained dark greenish grey andesite containing augite. Minor pyroclastics. Fine grained biotite sometimes gives the rock a dark reddish cast. The dominant fracture orientation is 50-70° to core axis. This is similar to the section above but now pyrite is dominant relative to chalcopyrite. The predominance of large core angles indicates the attitude of the drill hole is fairly well suited for testing this mineralization. Throughout major parts of this section the core is extremely broken.								59.25 - 59.35 Fault @ 40°. Gouge.  65.90 2 mm thick salmon pink feldspar selvage relative to pyrite fracture @ 60°.  67.00 Salmon pink feldspar in pyrite, chalcopyrite bearing fracture 2 mm thick @ 60°.  70.35 - 70.45 Fairly heavy pyrite in bleached zone @ 50°. Trace chalcopyrite.  70.46 - 70.60 Distinct layering in the volcanics @ 30°. A total of 8 fractures cut the layering & all contain pyrite but no visible chalcopyrite.								

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-2											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:				True Brg.:				Logged by:							
Objective:				% Recov.:				Date:							
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
									75.70 Fault @ 30°. Slickensides.						
									83.00 - 83.30 Fault. Slickensides @ 60° & shearing @ 50°.						
									Deformed quartz-calcite vein contains heavy moly & pyrite.						
									83.68 - 83.75 Quartz vein contains heavy cpy with lesser pyrite (5:1). Upper vein contact @ 65°. Lower contact is fault @ 60° (8 cm of gouge).						
									85.37 - 88.41 Above average Cu mineralization. Fractures containing cpy typically about 2-3 mm wide as opposed the normal fracture about 1 mm wide. Quartz is the common gangue in fractures.						

## DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-2												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:		True Brg.:				Logged by:										
Objective:		% Recov.:				Date:										
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF:	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									88.41 - 91.46 Crackle brecciated with calcite infills.							
									91.73 - 91.93 Two 5 cm long pieces of core with rounded core ends due to grinding. Heavy seam of chalcopyrite @ 75° & 90°. The chalcopyrite has associated pyrite occurring in quartz veins. Also associated feldspar. This quartz-feldspar association is similar to the Apple C of showing.							
									92.12 - 92.50 Faulting @ 0°, 10°. Hematite locally occurs in shears.							
									93.83 Heavy feldspar selvage relative to fracture @ 60° containing py-cp in ratio 4:1.							



## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-2											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:				True Brg.:				Logged by:							
Objective:				% Recov.:				Date:							
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
									98.83 - 100.40 Faults. Gouge @ 45° and 35°.						
									104.07 - 104.14 Kspar-rich section @ 60° contains very heavy cp in seams. The main seam is 3 cm thick and contains approx. 40% chalcopyrite.						
									109.17 - 109.72 White & salmon pink feldspar occur as dykelets. Minor pyrite and traces of cp present. Core angles average 65°.						
									111.50 - 112.81 Faulting @ 0°, 35°. Hematite in slickensided fractures.						

## DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-2												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:				True Brg.:				Logged by:								
Objective:				% Recov.:				Date:								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AIL	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									113.40 Fault @ 70°. Gouge.							
									2 cm vein of cp within the							
									faulted section has strong							
									feldspar selvage.							
									115.59 - 115.82 Faults @ 10°.							
									20°.							
									117.22 3 mm cp seam @ 70°.							
									118.24 2 cm thick magnetite							
									seam with feldspar selvage.							
									119.00 - 119.50 Fault @ 10-15°.							
									Slickensides.							
									123.64 Blebs of hematite. Cp in							
									2 cm wide calcite vein @ 60°.							
									131.85 Fault @ 30°. Slickensides							

## DRILL LOG

DRILL LOG																
Property:		District:			Hole No.: J95-2											
Commenced:		Location:			Tests at:				Hor. Comp.:							
Completed:		Core Size:			Corr. Dip:				Vert. Comp.:							
Co-ordinates:					True Brg.:				Logged by:							
Objective:					% Recov.:				Date:							
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									136.69 Magnetite vein 2 mm thick @ 80°. No pyrite or chalcopyrite							
									137.75 Pyrite fractures @ 75°, 85°. Contain epidote and have feldspar selvages. Slickensided pyrite @ 80°.							
									142.70 Fault @ 60°. Gouge.							
									148.90 - 149.49 Bleaching.							
									151.80 - 153.14 Bleaching.							
									155.70 Fault @ 0°. Slickensides.							
									158.30 Fault @ 30°. Gouge.							
									159.30 - 160.87 Fault is post mineral. Gouge and intense shearing @ 55°, 60°. Cp incorporated in the fault. Strong chlorite alteration.							

## DRILL LOG

Property:	District:	Hole No.: J95-2					
Commenced:	Location:	Tests at:	Hor. Comp.:				
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:				
Co-ordinates:		True Brg.:	Logged by:				
Objective:		% Recov.:	Date:				

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
178.92 - 179.48	Lapill tuff with fragments to 1.5 cm. Upper contact @ 70°. Lower contact obscured by broken core.								161.75 - 163.38 Faulting @ 30°, 50°, 60°. Gouge and slickensides.								
189.07 - 190.55	Coarse grained granodiorite dyke cut by dykelets of simple pegmatite. Upper and lower dyke contacts 60°. Both of rock types contain minor chalcopyrite and pyrite in fractures.								164.06 - 164.18 Strongly hematized quartz vein @ 50°. Minor chalcopyrite in fractures in the quartz and trace moly.								
									164.33 - 164.45 Faults. Gouge @ 60°, 70° including heavy chalcopyrite in a quartz stringer @ 65°. Relative age of faults and vein uncertain.								
									164.45 - 164.93 Heavy cp in quartz vein @ 70°. The contact is a fault. Minor moly in the fault contact. The lower contact of the vein is 70°.								

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J85-2											
Commenced:		Location:		Tests at:		Hor. Comp.:									
Completed:		Core Size:		Corr. Dip:		Vert. Comp.:									
Co-ordinates:				True Brg.:				Logged by:							
Objective:				% Recov.:				Date:							
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
									164.93 - 165.35 Fault.						
									Slickensides and gouge.						
									165.35 - 167.68 Well mineralized						
									section containing abundant						
									hairline fractures with						
									chalcopyrite. One 2 cm thick						
									quartz vein @ 70° contains						
									particularly heavy chalcopyrite.						
									Disseminated chalcopyrite						
									also in the wallrock.						
									167.68 - 170.73 Well						
									mineralized with a 3.5 cm						
									thick seam of heavy						
									chalcopyrite. Core angles						
									of mineralized structures						
									60°, 80°.						

## DRILL LOG

<b>DRILL LOG</b>															
Property:		District:		Hole No.: J95-2											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:		True Brg.:				Logged by:									
Objective:		% Recov.:				Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
									171.00 - 171.29 3 quartz veins @ 2 cm and 3 cm with chalcopyrite @ 70°, 85° to core. Locally heavy disseminated moly in the quartz. The quartz is locally hematized. Bleaching in margins of 2 of the veins.						
									172.57 1 cm thick quartz vein contains heavy chalcopyrite, minor pyrite and moly fractures.						
									174.00 Fault @ 50°. Slickensides, minor gouge.						
									175.50 - 176.33 Faults @ 10°, 40°. Gouge.						

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-2											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:				True Brg.:				Logged by:							
Objective:				% Recov.:				Date:							
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
									176.56 - 178.94 Intense bleaching @ 60°. Minor galena in 0.5 cm thick quartz vein @ 70°. Associated chalcopyrite and pyrite.						
									178.92 - 179.44 Bleached lapilli tuff. Moderately heavy chalcopyrite and pyrite with minor galena in quartz vein @ 60°.						
									182.93 - 183.40 Fault @ 10°, 20°. Slickensides						
									184.90 Minor fault @ 80°. Gouge						
									185.32 - 186.13 Well mineralized section including locally strong bleaching. Five veins ranging						

## DRILL LOG

Property:	District:	Hole No.: J95-2	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
190.55 -	Generally lapilli tuff with minor andesite. Typical								from 1 cm to 5 cm thick contain						
208.50	fragments in the lapilli tuff to 3 cm. Strong secondary biotite development throughout. Locally fairly well mineralized with chalcopyrite occurring in fractures and quartz veins typically about 60° to core.								moderate up to semi-massive chalcopyrite. The best mineralization is a 4 cm thick vein @ 80°.						
208.50 -	Augite andesite as 45.73 - 189.07. Very few of								188.62 Fault @ 10°. Gouge.						
240.85	mineralized structures present in this section with 50° to 70° core angles. About 90% of the copper mineralization of this section occur in 2 veins between 212.88 - 213.42 m.								183.50 - 200.00 Well mineralized section containing chalcopyrite in fractures and veins typically @ 60°.						
									194.80 - 195.12 Seams and blebs of chalcopyrite in quartz veins @ 80°-90°.						
									195.64 - 196.93 At least 70 hairline fractures containing cp approx. conformable @ 60°.						



## DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-2												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:				True Brg.:				Logged by:								
Objective:				% Recov.:				Date:								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									197.24 - 198.14 Faulting @ 50°.							
									65° Chloritic gouge.							
									Chalcopyrite occurring in a vein has been faulted.							
									203.67 Fault @ 55°. Heavy chloritic gouge.							
									211.24 0.5 cm thick dykelet of simple pegmatite is barren.							
									212.88 - 213.42 Unusually heavy chalcopyrite and pyrite in 2 quartz veinlets @ 5°. This is the first time in this drilling program where we have seen a well mineralized fracture trending semi-parallel to the drill core. A minor fracture @ 80° in this section contains chalcopyrite							

## DRILL LOG

Property:		District:	Hole No.: J95-2											
Commenced:		Location:	Tests at:		Hor. Comp.:									
Completed:		Core Size:	Corr. Dip:		Vert. Comp.:									
Co-ordinates:		True Brg.:		Logged by:										
Objective:		% Recov.:		Date:										

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
									and trace pyrite. One of the 5° fractures is offset by a series of barren quartz stringers @ 50°.								
									213.90 - 214.09 Simple pegmatite dyke @ 35° contains << .1% chalcopyrite and pyrite including traces of moly as disseminated material.								
									215.16 - 215.50 Pegmatite stringers 2 to 10 cm thick are barren.								
215.67 - 215.76	Dioritic dykelet with chilled contacts @ 60°, 70°. Biotite and feldspars are fresh. Barren.								217.77 - 219.00 Five pegmatite dykelets @ 30° to 80°. Barren.								

# DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-2												
Commenced:		Location:		Tests at:			Hor. Comp.:									
Completed:		Core Size:		Corr. Dip:			Vert. Comp.:									
Co-ordinates:				True Brg.:			Logged by:									
Objective:				% Recov.:			Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
240.85 m	END OF HOLE								220.20 - 222.67 Three barren pegmatite dykelets @ 3 to 8 cm @ 80° to core.							
									227.50 - 231.71 Hematitic fractures @ 40-50° common.							
									236.17 - 238.23 Felsic dyke contains 0.2% disseminated pyrite and minor fracture controlled. No chalcopyrite seen.							

## SAMPLE SHEET

Property: Jean	District: Omineca M.D.	Hole No.: J95-2	Elevation: -		
Commenced: September 18/95	Location: B Zone	Tests at: N/A	Hor. Comp.: Zero		
Completed: September 22/95	Core Size: NQ	Corr. Dip: -90°	Vert. Comp.: 240.85 m		
Co-ordinates: Approx. 10+60N on L48W (Ref. Map JP75-4 1" - 400') 4.7 m @ 353° from PH74-6		True Brg.: -	Logged by: R.U. Bruaset		
Objective:	% Recov.: 93.35%	Date: September 1995			

Note: Sampling diamond ~~sawn~~ core to 225.61 m thereafter the entire core taken for sample

Analyses by MIN-EN Labs File No. 55-0149, 0153

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	* mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
0 -	12.5 OVERBURDEN															
12.50 -	16.77	0.1	1:100		D	10, 20, 30, 45				J-82	4.27	2.14				
16.77 -	18.29	0.2	1:100		D	10, 20, 80				J-83	1.52	0.94				
18.29 -	21.34	0.5	1:75		D	15, 45				J-84	3.05	2.33				
21.34 -	24.34	1	1:50		C	10, 20, 70, 65				J-85	3.00	2.89				
24.34 -	26.69	2	1:10	tr. mo	C	10, 30, 50, 90				J-86	2.35	2.21				
26.69 -	27.44	2	100:1		B	10, 30, 60, 70				J-87	0.75	0.82				
27.44 -	29.57	2.5	100:1		B	40, 55, 60, 70				J-88	2.13	2.35				
29.57 -	33.23	2.5	50:1		B	10, 60, 65				J-89	3.66	3.12				
33.23 -	35.08	2	20:1		B	10, 45, 50, 65, 80				J-90	1.83	1.84				
35.08 -	36.59	2.5	30:1		B	60, 65, 70				J-91	1.53	1.83				
36.59 -	39.63	2.5	5:1		B	50, 60, 65, 70				J-92	3.04	2.82				
39.63 -	42.08	2	5:1		C	40, 50, 70				J-93	2.45	3.00				
42.08 -	45.73	2	1:10		C	50, 60, 70				J-94	3.05	2.85				
45.73 -	48.78	2	1:100		C	20, 25, 50, 70				J-95	3.05	3.02				
48.78 -	51.83	2	1:100		C	45, 60, 65, 75				J-96	3.05	3.10				
51.83 -	54.88	2	1:50		C	10, 60, 70				J-97	3.05	2.86				
54.88 -	57.93	2	1:100		C	50, 55, 60, 70				J-98	3.05	3.10				
57.93 -	60.37	2	1:50		B	10, 60, 65				J-99	2.44	2.35				
60.37 -	61.20	1	1:100		C	60, 65				J-100	0.83	1.90				

## SAMPLE SHEET

Property:		District:		Hole No.: J95-2											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:				True Brg.:				Logged by:							
Objective:				% Recov.:				Date:							
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
61.20 -	64.03	1	1:20		B	56,60,75				J-101	2.83	2.83			
64.03 -	67.08	1.5	1:20		A	10,60,75				J-102	3.05	3.05			
67.08 -	70.12	1.5	1:100		B	56,60,70				J-103	3.12	3.10			
70.12 -	73.12	2	1:100	tr. mo	C	40,60,65				J-104	3.00	2.61			
73.12 -	76.22	1	1:50		C	50,70,80				J-105	3.10	2.46			
76.22 -	79.27	1	1:100		C	10,60,70				J-106	3.05	2.46			
79.27 -	82.32	2	1:100		C	20, 55, 60, 70				J-107	3.05	2.63			
82.32 -	85.37	1	5:1		C	35, 45, 60				J-108	3.05	2.66			
85.37 -	88.41	3	3:1		C	40, 50, 65, 70				J-109	3.04	3.00			
88.41 -	91.46	1	1:1		C	30, 40, 60				J-110	3.05	2.66			
91.46 -	94.51	2.5	3:1		C	60, 70				J-111	3.05	1.90			
94.51 -	97.56	1	1:5		C	40, 50, 60				J-112	3.05	1.47			
97.56 -	100.61	1	1:1		D	40, 50, 60				J-113	3.05	1.66			
100.61 -	103.66	0.4	1:1		B	50, 60, 65, 70				J-114	3.05	1.66			
103.66 -	106.31	4	100:1		D	60, 80				J-115	3.05	2.87			
106.31 -	109.76	.4	1:3		D	70, 80				J-116	2.65	2.80			
109.76 -	112.81	.2	1:10		D	80				J-117	3.05	3.27			
112.81 -	115.85	1.0	10:1		D	10, 70, 75				J-118	3.04	2.83			
115.85 -	118.54	0.4	2:1		C	10, 60, 70				J-119	2.69	2.95			
118.54 -	121.95	0.4	1:1		B	50, 60, 70				J-120	3.41	2.92			

## SAMPLE SHEET

Property:	District:	Hole No.: J95-2	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AR.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
121.95 - 125.00		1	2:1		C	50,60,75				J-121	3.05	3.10			
125.00 - 128.05		1.5	1:1		B	20,60,75				J-122	3.05	3.05			
128.05 - 130.49		1	1:10		B	50, 60				J-123	2.44	2.59			
130.49 - 133.59		1.5	1:10		B	60				J-124	3.10	3.00			
133.59 - 136.59		0.5	1:10		C	20, 50, 60, 70				J-125	3.00	2.77			
136.59 - 137.20		0.5	1:10		no data	80				J-126	0.61	0.62			
137.20 - 140.25		0.2	1:10		no data	70,80,90				J-127	3.05	3.00			
140.25 - 143.29		0.2	1:50		no data	50, 70, 75, 80				J-128	3.04	3.02			
143.29 - 146.34		0.5	1:50		no data	10, 80				J-129	3.05	3.15			
146.34 - 149.39		0.5	1:50		no data	10, 80				J-130	3.05	2.86			
149.39 - 152.44		1	1:50		no data	80				J-131	3.05	3.00			
152.44 - 155.18		0.5	1:50		no data	30, 40				J-132	2.74	2.23			
155.18 - 157.62		0.5	1:20		no data	0,20,80				J-133	2.44	3.01			
157.62 - 160.67		0.3	1:2		no data	40, 60				J-134	3.05	3.12			
160.67 - 164.33		0.5	3:1		D	30,40,60				J-135	3.68	3.10			
164.33 - 164.45		8	10:1		D	50				J-136	0.12	0.13			
164.45 - 164.93		30	50:1		D	65, 70				J-137	0.48	0.39			
164.93 - 165.35		1.5	50:1		D	70				J-138	0.42	0.38			
165.35 - 167.68		1.5	10:1		C	30,65,70				J-139	2.33	2.38			
167.68 - 170.73		1.5	10:1		B	60,65,80				J-140	3.05	3.00			

## SAMPLE SHEET

Property:	District:	Hole No.: J95-2	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
170.73 - 173.78		1.5	10:1		D	60,60,60				J-141	3.05	2.98			
173.78 - 178.83		<.1	2:1	tr. mo	D	60, 80				J-142	3.05	3.25			
178.83 - 179.88		0.3	1:1		D	50, 70				J-143	3.05	3.03			
179.88 - 182.93		<0.1	2:1		D	30, 55				J-144	3.05	2.92			
182.93 - 185.32		<0.1	2:1		D	80				J-145	2.39	2.34			
185.32 - 186.13		4	5:1		D	65,70,80			186.13 - 207.32 Sulphide control	J-146	0.81	0.78			
186.13 - 189.02		0.2	10:1		D	30,50,80			Quartz veins & hairline	J-147	2.89	1.38			
189.02 - 192.07		0.2	5:1		D	70, 80			fractures	J-148	3.05	3.10			
192.07 - 193.58		<.1	50:1		D	80				J-149	1.51	1.49			
193.58 - 195.12		1.5	50:1		D	50, 80				J-150	1.54	1.54			
195.12 - 198.17		1.0	50:1		B	55,65,70				J-151	3.05	3.08			
198.17 - 200.00		0.4	50:1		D	50,55,80				J-152	1.83	1.90			
200.00 - 201.23		<<.1	50:1		D	45				J-153	1.23	1.25			
201.23 - 204.27		<<.1	2:1		D	65, 80				J-154	3.04	3.06			
204.27 - 207.32		<<.1	10:1		D	80				J-155	3.05	3.04			
207.32 - 210.37		<<.1	10:1		D	N/A				J-156	3.05	3.03			
210.37 - 213.42		2	10:1		D	5,45,80				J-157	3.05	3.12			
213.42 - 216.46		<<.1	1:1		D	80				J-158	3.04	3.04			
216.46 - 219.51		trace	1:10		D	N/A				J-159	3.05	3.15			
219.51 - 222.56		trace	1:5		D	45				J-160	3.05	3.04			

### SAMPLE SHEET

Property:	District:	Hole No.: J95-2				
Commenced:	Location:	Tests at:	Hor. Comp.:			
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:			
Co-ordinates:		True Brg.:	Logged by:			
Objective:		% Recov.:	Date:			

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. AL.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
222.56 -	225.61	trace	1:1		D	N/A				J-161	3.05	3.08			
225.61 -	228.66	trace	1:5		C	25				J-162	3.05	3.05			
228.66 -	231.71	trace	3:1		D	25,45,60				J-163	3.05	3.10			
231.71 -	234.78	trace	3:1		D	25,50,90				J-164	3.05	3.10			
234.78 -	237.81	trace	1:2		D	50, 80				J-165	3.05	2.95			
237.81 -	240.85	trace	1:100		D	50				J-166	3.04	2.96			
240.85 m	END OF HOLE														



## DRILL LOG

Property: Jean		District: Omineca		Hole No.: J95-3		Elevation: -									
Commenced: September 23/95		Location:		Tests at: N/A		Hor. Comp.: Zero									
Completed: September 24/95		Core Size: NQ		Corr. Dip: -90°		Vert. Comp.: 141.77									
Co-ordinates: 58 m @ 85° from 14N L88W				True Brg.: -		Logged by: R.U. Bruaset									
Objective: To test IP anomaly in south extension of Apple Cot showing				% Recov.: 98.34%		Date: September 1995									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
0 - 6.1 m	Overburden.								6.56 Heavy malachite in fracture along with chalcopyrite.						
6.1 - 50.07	Augite andesite including short sections of lapilli tuff. The andesite is massive, greenish grey to dark grey. The volcanics contain abundant fine grained biotite throughout.								7.15 Traces of malachite; otherwise iron oxide to 8.25 m.						
	11.44 - 14.70 Lapilli tuff. Fragments are typically in the 2 mm - 10 mm size range.								22.64 Moderately heavy chalcopyrite in fracture @ 70°.						
	14.70 - 15.67 Volcanic breccia. Fragments to 8 cm.								38.47 Fault @ 0°. Gouge and slickensides.						
	15.67 - 21.75 Lapilli tuff with fragments generally 5 - 10 mm.								49.59 5 cm thick granodiorite dyke @ 50°. Traces of disseminated chalcopyrite.						
50.07 - 54.11	Granite. Medium grained porphyritic with pinkish cast. Traces of disseminated pyrite. Bottom contact @ 55°. Rare chloritic fractures 1 to 2 mm thick. Upper contact sharp at 60°.								49.86 Heavy chalcopyrite in 8 mm seam @ 75°. Cp:py = 7:1.						
									58.57 Fault @ 20°. Slickensides well developed but no gouge.						

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-3											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:		True Brg.:				Logged by:									
Objective:		% Recov.:				Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
54.11 -	Dark grey augite andesite including short sections of								65.54 - 65.68 Fault @ 80°.						
112.71	lapilli tuff. Weak chloritization of biotite. Minor pegmatite dykelets.								Gouge.						
	64.12 - 66.47 The strongest copper mineralization in this hole. Six mineralized fractures typically @ 70° to 80° to core contain cp>>pyrite. These mineralized structures range from 2 mm to 2 cm thick. The gangue is variously feldspar and quartz. This mineralization and alteration is similar to that occurring at the base of the cliff about 40 m to the north (Apple Cot showing).								68.19 Heavy chalcopyrite with associated feldspar in 2.5 cm wide fracture @ 75°. 81.00 Fault @ 70°. 10 cm of gouge. 84.788 Heavy pyrite in fracture @ 80° 4 cm thick. Calcite gangue. No chalcopyrite seen.						
	66.47 - 91.47 The andesite is strongly bleached but no mineralization is associated with this alteration. Abundant calcite veining @ 0°, 20° to core.								84.91 Fault @ 40°. 3 cm of gouge. 86.19 Fault @ 0°. Gouge.						

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-3											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:		True Brg.:				Logged by:									
Objective:		% Recov.:				Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Mtn. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
88.16 - 7, 91.96 - 93.35	Porphyritic granite, medium grained, massive. Mafics are altered to chlorite. Traces of disseminated pyrite. Moderately magnetic. The pink cast of the granite is probably caused by hematite. The upper contact of the lower granite is 80°. Core angle with the lower contact obscured by broken core. Traces of epidote in the granite.								95.55 - 96.00 Heavy pyrite in quartz-calcite vein including traces of chalcopyrite.						
96.30 - 96.72	Lapilli tuff.								136.25 2 specs of moly in 3 mm thick pegmatite dykelet @ 45°.						
112.71 - 141.77	Augite andesite is occasionally cut by pegmatite dykelets. Pervasive chloritization of the andesite. The pegmatite forms dykelets 1-2 cm thick, occasionally 10 cm. This is a simple pegmatite consisting of feldspar, quartz and biotite. Traces of chalcopyrite, mo and magnetite in the pegmatite.								137.37 Pyrite in fracture @ 15°. This is the greatest amount of sulphide seen in this hole for some distance. No associated chalcopyrite.						
									140.00 - 141.72 Fault @ 0°. Slickensides and chloritic gouge.						



# SAMPLE SHEET

Property: Jean	District: Omineca M.D.	Hole No.: J95-3	Elevation: -		
Commenced: September 23/95	Location:	Tests at: N/A	Hor. Comp.: Zero		
Completed: September 24/95	Core Size: NQ	Corr. Dip: -90°	Vert. Comp.: 141.77 m		
Co-ordinates: 58 m @ 085° from 14N L88W		True Brg.: N/A	Logged by: R.U. Brauset		
Objective: To test IP anomaly		% Recov.: 98.34%	Date: September 1995		

Note: Except for the skeletal core, all core consumed for samples

Analyses by MIN-EN Labs File No. 5S-0153

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	* mag.	Core angle of MF.	Sulph. control	Post Min. AL.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
0 -	6.1 m OVERBURDEN															
6.1 -	9.15	0.3	20:1		D	25,75,80	fracta.			J-168	3.05	2.95				
9.15 -	12.20	trace	1:1		D	nil				J-169	3.05	3.02				
12.20 -	15.24	<<0.1	1:10		D	35, 40	fracta./dissem			J-170	3.04	2.96				
15.24 -	18.29	trace	1:1		D	nil	dissem			J-171	3.05	2.87				
18.29 -	21.34	trace	1:100		D	75, 80	fracta.			J-172	3.05	3.05				
21.34 -	24.39	0.1	2:1		C	20,60,85	fracta.			J-173	3.05	2.46				
24.39 -	27.44	trace	2:1		C	75	fracta.			J-174	3.05	3.04				
27.44 -	30.49	trace	1:100		D	40	fracta.			J-175	3.05	2.92				
30.49 -	33.54	trace	1:3		D	20, 40	fracta.			J-176	3.05	3.02				
33.54 -	36.59	trace	1:100		D	nil	dissem			J-177	3.05	2.92				
36.59 -	39.64	trace	1:50		D	50, 80	fracta.			J-178	3.05	3.12				
39.64 -	42.68	<0.1	4:1		D	60, 65	fracta.			J-179	3.05	3.04				
42.68 -	45.73	trace	1:5		D		dissem			J-180	3.05	2.93				
45.73 -	48.78	trace	1:100		D	80				J-181	3.05	2.93				
48.78 -	51.83	trace	1:20		B for D for	intrusive volcanics				J-182	3.05	3.03				
51.83 -	54.88	trace	no cp seen		B					J-183	3.05	3.08				
54.88 -	57.93	nil	-		D	-				J-184	3.05	3.00				
57.93 -	60.98	<<0.1	1:100		D	25, 30				J-185	3.05	3.05				
60.98 -	64.02	trace	1:100		C	10, 40				J-186	3.05	2.98				

\* mag = magnetism with pencil magnet: A = strong; B = moderate; C = weak; D = non-magnetic  
 MF = mineralized fracture = vein, fracture, fault containing ore minerals

## SAMPLE SHEET

Property:	District:	Hole No.: J95-3	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
64.02 - 67.07		0.7	20:1		C	70, 80				J-187	3.05	3.00			
67.07 - 70.17		0.2	100:1		B	80				J-188	3.10	2.87			
70.17 - 73.17		trace	1:1		C	50, 80	fracts.			J-189	3.00	2.92			
73.17 - 76.22		<<0.1	1:100		C	30, 70	fracts.			J-190	3.05	3.10			
76.22 - 79.27		trace	1:100		C	70	fracts.			J-191	3.05	2.92			
79.27 - 82.32		nil	-		C	-				J-192	3.05	2.97			
82.32 - 85.37		0.1	1:100		C	80				J-193	3.05	3.01			
85.37 - 88.42		trace	1:100		C	nil	dissem			J-194	3.05	2.92			
88.42 - 91.46		trace	1:100		C	nil	dissem			J-195	3.04	3.04			
91.46 - 94.51		trace	1:100		B	80, 90	fracts.			J-196	3.05	3.07			
94.51 - 97.56		0.2	1:10		C	70, 80	fracts.			J-197	3.05	3.20			
97.56 - 100.61		nil	-		D	-				J-198	3.05	3.02			
100.61 - 103.66		trace	1:1		D		dissem			J-199	3.05	2.93			
103.66 - 106.71		nil	-		D	-				J-200	3.05	3.00			
106.71 - 109.76		trace	1:1		D	20	fracts.			J-201	3.05	3.08			
109.76 - 112.81		nil	-		D	-				J-202	3.05	3.10			
112.81 - 115.85		nil	-		D	-				J-203	3.04	3.10			
115.85 - 118.90		nil	-		D	-				J-204	3.05	3.00			
118.90 - 121.95		trace	1:100		D	-	dissem			J-205	3.05	3.10			
121.95 - 125.00		nil	-		D	-				J-206	3.05	2.99			

### SAMPLE SHEET

Property:		District:	Hole No.: J95-3													
Commenced:		Location:	Tests at:						Hor. Comp.:							
Completed:		Core Size:	Corr. Dip:						Vert. Comp.:							
Co-ordinates:		True Brg.:						Logged by:								
Objective:		% Recov.:						Date:								

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
125.00 -	128.00	nil	-		D	-				J-207	3.00	2.82			
128.00 -	131.09	nil	-		D	-				J-208	3.09	3.10			
131.09 -	134.56	trace	1:50			30, 40				J-209	3.47	3.00			
134.56 -	137.20	trace	-	tr. mo in peg.	D	55				J-210	2.64	3.10			
137.20 -	140.24	<<0.1	1:50			15	fracts.			J-211	3.04	3.00			
140.24 -	141.77	<0.1	1:50			20, 45	fracts.			J-212	1.53	1.61			
141.77 m	END OF HOLE														

## DRILL LOG

Property: Jean	District: Omineca M.D.	Hole No.: J95-5	Elevation: -
Commenced: September 26/95	Location: B Zone	Tests at: 190 m (acid)	Hor. Comp.: Zero
Completed: September 27/95	Core Size: NQ	Corr. Dip: -90°	Vert. Comp.: 195.12
Co-ordinates: Approx. 118 m @ 129° from DDH J95-2 (Map ref. JP974-4 1"=400')		True Brg.: -	Logged by: R.U. Brauset
Objective: To drill a vertical hole on the same site as J95-4. J95-4 was an incline hole drilled at -55° on azimuth 032°. It encountered bedrock at 12.80 m and ended at 28.96 m. Core recovery was 6.81%. No sample taken in J95-4. The problem with the J95-4 hole related to insufficient casing being available to reach bedrock resulting in overburden falling into hole.		% Recov.: 77.62	Date: October 1995

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
0 - 12.50 m	Casing (assumed overburden)															
12.50 - 13.50	Felsite. Strongly sheared; somewhat brecciated. Intense clay alteration. Core very soft to knife.								13.22 Fault @ 20°. 1 cm of gouge.							
13.50 - 39.75	Augite andesite. Intensely chloritized; apparently after biotite. Locally the andesite is fresh and fine grained and biotite is present. Core recovery is extremely poor. Much of the core is 2-4 cm pieces and much of it is rounded suggesting core has been ground up. They keep getting ten feet runs - possibly they are drilling through blocks. Generally the core is competent with relatively little sign of faulting as indicated by gouge, slickensides and shearing.								24.69 Fault @ 30°. Gouge. 40.07 - 42.46 Strong shearing, gouge development and slickensides @ 15°, 55°. 42.66 - 48.78 Gouge development, shearing, slickensides throughout, including local sections of fault brecciation. Dominant structures @ 10° to 30°. No apparent chalcopyrite in the gouge. Core angles in this major fault zone are:							



## DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-5												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:				True Brg.:				Logged by:								
Objective:				% Recov.:				Date:								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
39.75 -	Felsite. Intensely clay altered (very soft to knife).								At 42.70 m @ 20°, 42.96 @ 15°.							
54.86	Disseminated pyrite present and occasional pyrite in fractures. No chalcopyrite or Mo seen. Intense faulting evident by gouge, intense shearing and fault brecciation.								43.15 @ 10°, 43.43 @ 10°. 43.55 @ 10°, 43.91 @ 10°. 46.00 @ 10°, 47.20 @ 10°. 47.45 @ 30°.							
54.86 -	Augite andesite. Dark greenish grey. Upper contact								57.70 - 57.83 Fault. Gouge @							
195.1	@ 65°. Chlorite is the dominant alteration. The drill core is generally highly broken. Abundant faulting.								20°.  57.93 - 59.00 Many rounded core ends. These "buttons" indicate core is being ground.							
76.22 - 79.48	Relatively well mineralized with chalcopyrite in hairline fractures with high cp:py ratios as typical of B zone. Chalcopyrite bearing structures are typically quartz stringers @ 1-2 mm thick. Abundant rounded pebble size core suggesting core is being ground.								61.83 - 62.10 Fault. Gouge @ 0°. Slickensides @ 10°.  67.07 Fault @ 10°. Gouge.							

## DRILL LOG

DRILL LOG																	
Property:		District:		Hole No.: J95-5													
Commenced:		Location:		Tests at:			Hor. Comp.:										
Completed:		Core Size:		Corr. Dip:			Vert. Comp.:										
Co-ordinates:		True Brg.:			Logged by:												
Objective:		% Recov.:			Date:												
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Al.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
76.22 - 109.76	This section most closely resembling the "B" zone based on the characteristic high chalcopyrite to pyrite ratio and the fracture controlled style of mineralization. However, as the core recovery is only about 73.8% in this section, considerable potential for lost mineralization exists. Refer to sample sheets p. 2 of 3.								68.36 - 68.86 Fault @ 50°. Mostly gouge. Some slickensided surfaces.								
									69.36 Fault @ 30°. Gouge.								
									70.76 Fault @ 25°. 10 cm of gouge.								
									71.12 - 72.83 Fault. Generally gouge @ 30°, 55°. Intense shearing also. Abundant slickensides.								
									73.17 Fault @ 40°. Slickensides and gouge.								
									74.00 - 74.47 Slickensides @ 30°, 75°, 90°.								

## DRILL LOG

Property:		District:	Hole No.: J95-5														
Commenced:		Location:	Tests at:		Hor. Comp.:												
Completed:		Core Size:	Corr. Dip:		Vert. Comp.:												
Co-ordinates:			True Brg.:		Logged by:												
Objective:			% Recov.:		Date:												
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
	79.00 Heavy moly in fracture @ 55°. In margin of 2 cm thick quartz vein.								75.26 - 78.22 Fault @ 45°. Slickensides and gouge.								
	80.42 Hematitic fractures @ 30°, 35°.								76.78 - 77.08 Fault @ 10°, 30°. Slickensides and gouge.								
	83.07 Quartz vein 1 cm thick @ 75°. About 50% of vein is chalcopyrite.								79.05 - 79.41 Fault. Slickensides and gouge @ 50°, 55°.								
									81.61 Fault @ 0°. Slickensides.								
									81.25 - 82.31 Fault @ 30°, 35°. Slickensides and minor gouge.								
									84.50 Fault @ 10°. Gouge and slickensides.								
									86.44 Fault @ 55°. Gouge.								

## DRILL LOG

Property:	District:	Hole No.: J95-5	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									86.55 Slickensides @ 10°.							
	103.66 - 106.71 Very poor core recovery. Almost all core rounded to some degree.								87.73 Fault @ 25°. Slickensides.							
									92.00 - 92.25 Fault @ 20°. Slickensides.							
									97.56 - 100.00 intense shearing, slickensides and gouge @ 10°, 25°, 50°, 70° suggests major fault.							
									100.40 Fault @ 70°. Gouge slickensides.							
									100.46 Fault @ 15°. Gouge.							
									107.00 - 109.75 Very intensely broken core. Fault indicated by gouge & slickensides @ 10°, 50°							

## DRILL LOG

Property:	District:	Hole No.: J95-5	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
									109.76 - 114.70 Major fault.							
128.00	Heavy magnetite in 1 cm thick seam @ 60°.								Intense shearing, gouge							
	Associated pyrite and chalcopyrite in ratio 3 py:1 cp.								development and slickensides							
									@ 25°, 40°, 55°, 65°, 75°.							
134.30 - 137.00	Bleaching.															
									115.34 Fault @ 15°.							
135.31 - 135.51	Very heavy chalcopyrite in quartz								Slickensided pyrite.							
	vein @ 75°. Minor associated mo. Cp:py = 5:1.															
									117.32 Fault @ 60°. Slickensides							
									120.77 Fault @ 80°. Gouge.							
									125.61 Fault @ 45°. Slickensides							
									125.78 Fault @ 15°. Slickensides							
									130.80 Fault @ 20°. Slickensides							
									132.80 Fault @ 20°. Slickensides							

## DRILL LOG

DRILL LOG																
Property:		District:		Hole No.: J95-5												
Commenced:		Location:		Tests at:				Hor. Comp.:								
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:								
Co-ordinates:		True Brg.:				Logged by:										
Objective:		% Recov.:				Date:										
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
140.24 - 141.71	Section relatively well mineralized by chalcopyrite occurring in quartz veinlets 1 mm thick, including heavy chalcopyrite in a quartz vein 17 cm thick @ 80°. Minor associated mo. Strong moly slip @ 75° near bottom of the interval.								138.80 - 138.90 Fault @ 80°. Essentially all gouge.							
									137.10 Fault @ 45°. Slickensides							
									142.27 Faults @ 20°, 40°. Slickensides.							
143.72	Minor epidote in form of 3 mm x 4 cm exposure in a fracture.								145.16 - 146.68 Faulting @ 10°, 20°, 45°. Gouge, slickensides and intense shearing.							
149.79	4 mm wide seam of 100% chalcopyrite @ 85°.								148.70 - 149.70 Fault @ 45°, 55°, 60°. Essentially gouge.							
149.88 - 150.23	Bleaching.								152.77 Fault and slickensides @ 35°.							
153.52 - 156.67, 158.79 - 160.80	Hematitic fractures common @ 0°, 10°.								153.14 - 153.80 Faults @ 10°, 20°. Slickensides and gouge.							

## DRILL LOG

DRILL LOG																	
Property:		District:		Hole No.: J95-5													
Commenced:		Location:		Tests at:				Hor. Comp.:									
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:									
Co-ordinates:				True Brg.:				Logged by:									
Objective:				% Recov.:				Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses					
												Recov	Cu	Mo	Au		
									162.13 Fault @ 30°.								
									Slickensided pyrite.								
	168.07 - 169.35 Bleaching.																
									163.00 - 163.57 Fault @ 10°								
	186.60 - 188.71 Granodiorite. Medium grain porphyritic containing disseminated pyrite and chalcopyrite in amounts <0.1% total sulphide.								Slickensides & gouge.								
	Biotite mafic altered to chlorite. Core at the upper contact of the granodiorite has been ground.								167.18 Faulting. Slickensides @ 30°, gouge and 3 cm of mylonite.								
	Lower contact is too intensely broken to yield core angle.								166.39 - 166.90 Fault. Slickensides @ 10°, 25°.								
									167.16 Fault @ 60°. Slickensides								
									169.00 - 169.50 Fault zone. Strong shearing @ 50°, 60° including occasional gouge and slickensides.								
									170.70 - 171.60 Fault @ 20°, 35°. Gouge.								

## DRILL LOG

DRILL LOG															
Property:		District:		Hole No.: J95-5											
Commenced:		Location:		Tests at:				Hor. Comp.:							
Completed:		Core Size:		Corr. Dip:				Vert. Comp.:							
Co-ordinates:		True Brg.:				Logged by:									
Objective:		% Recov.:				Date:									
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
									175.30 - 175.40 Fault @ 60°.						
	191.00 Strong chalcopyrite in 4 cm thick calcite vein @ 60°.								Gouge.						
									175.70 Fault @ 70°.						
	194.10 Pyrite and chalcopyrite in quartz vein @ 60°.								177.28 Faults @ 55°, 70°.						
	This is the only chalcopyrite seen in the last sample.								180.34 Fault @ 70°.						
									Slickensided pyrite.						
									183.52 Fault @ 30°.						
195.12 m	END OF HOLE								186.17 Fault. Slickensided pyrite @ 70°.						
									190.52 Fault @ 15°. Slickensides						
									192.14 Fault @ 40°. Slickensides						
									192.39 - 192.77 Faulting @ 50°, 60°. Core has strength of gouge.						
									193.10 Fault @ 55°. Slickensides						



## SAMPLE SHEET

Property: Jean		District: Omineca M.D.		Hole No.: J95-5		Elevation: -										
Commenced: September 26/95		Location:		Tests at: 190 m acid (-90°)		Hor. Comp.: Zero										
Completed: September 27/95		Core Size: NQ		Corr. Dip: -90°		Vert. Comp.: 195.12 m										
Co-ordinates: Approx. 118 m @ 129° from DDH J95-2				True Brg.: -		Logged by: R.U. Bruaset										
Objective: Testing IP anomaly				% Recov.: 77.62%		Date: October 1995										
Note: Except for skeletal core, all core consumed for samples								Analyses by MIN-EN Labs File No. 55-0162								
Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. All.	Note	Sample No.	Length	Analyses				
												Recov	Cu	Mo	Au	
0 -	12.20 m OVERBURDEN															
12.20 -	15.24	<.1	1:10		C	15,60,70, 75,80	fracts.			J-300	3.04	1.36				
15.24 -	18.29	0.1	1:5		C	20, 70, 75, 80	fracts.			J-301	3.05	1.48				
18.29 -	21.34	0.2	1:5		C	60,65,70, 75, 80	fracts.			J-302	3.05	1.69				
21.34 -	24.29	<.1	1:10		C	60, 70	fracts.			J-303	3.05	2.07				
24.29 -	27.44	<.1	1:100		D	60	fracts.			J-304	2.95	1.08				
27.44 -	30.49	<.1	1:100		D	10,65,70				J-305	3.05	0.22				
30.49 -	33.54	<.1	1:100		D	25, 80				J-306	3.05	1.30				
33.54 -	36.59	<<.1	1:100		D	dissem				no sample J-307	3.05	zero				
36.59 -	39.63	trace	1:100		D	dissem				J-308	3.04	0.10				
39.63 -	42.68	trace	1:100		D	dissem				J-309	3.05	1.73				
42.68 -	45.73	2	1:100		D	dissem	& fracts	in fault zone		J-310	3.05	3.06				
45.73 -	48.78	2	1:100		D	dissem	+ 70			J-311	3.05	2.56				
48.78 -	51.83	1	1:100		D	dissem				J-312	3.05	2.99				
51.83 -	54.88	½	1:100		D	45,70,80	dissem			J-313	3.05	2.70				
54.88 -	57.93	½	1:5		D	0,70,80	fracts.			J-314	3.05	2.62				
57.93 -	60.98	½	1:10		C	0,60,65, 70, 80				J-315	3.05	2.68				
60.98 -	64.02	0.2	1:50		D	20,65,75				J-316	3.04	2.17				
64.02 -	67.07	0.5	1:25		D	40,60,80				J-317	3.05	2.77				
67.07 -	70.12	0.2	1:25		D	0,60,70				J-318	3.05	2.85				

## SAMPLE SHEET

Property:	District:	Hole No.: J95-5	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
70.12 - 73.17		0.1	1:25		D	10, 40, 60				J-319	3.05	2.68			
73.17 - 76.22		<.1	1:50		D	30				J-320	3.05	2.90			
76.22 - 79.27		1	50:1		C	10, 25, 30, 60, 70, 90				J-321	3.05	2.54			
79.27 - 82.31		trace	50:1		C	45, 60				J-322	3.04	2.98			
82.31 - 85.37		1	50:1		C	35, 50, 70, 80				J-323	3.06	2.99			
85.37 - 88.42		0.2	50:1		D	15, 30, 60, 65				J-324	3.05	2.50			
88.42 - 91.46		0.3	50:1		D	60, 65, 70, 75, 80				J-325	3.04	2.67			
91.46 - 94.51		0.3	100:1		D	25, 60, 75, 80				J-326	3.05	3.20			
94.51 - 97.56		0.2	100:1		D	35, 40, 65				J-327	3.05	2.69			
97.56 - 100.61		0.2	100:1		D	65				J-328	3.05	2.00			
100.61 - 103.66		0.1	2:1		D	30				J-329	3.05	1.68			
103.66 - 106.71		0.2	3:1		D	30				J-330	3.05	0.18			
106.71 - 109.76		0.2	100:1		D	30, 60				J-331	3.05	1.33			
109.76 - 112.80		trace	1:3		D	dissem				J-332	3.04	1.83			
112.80 - 115.85		0.1	3:1		D	15, 80				J-333	3.05	3.00			
115.85 - 118.90		0.1	1:1		C	15, 55, 60				J-334	3.05	3.03			
118.90 - 121.95		0.5	1:3		D	50, 65, 70, 75				J-335	3.05	3.02			
121.95 - 125.00		0.1	1:3		D	25, 55, 60, 65				J-336	3.05	3.07			
125.00 - 128.05		0.5	1:10		B	65, 70				J-337	3.05	3.12			
128.05 - 131.10		0.1	1:10		B	60, 65, 75				J-338	3.05	3.05			

## SAMPLE SHEET

Property:	District:	Hole No.: J95-5	
Commenced:	Location:	Tests at:	Hor. Comp.:
Completed:	Core Size:	Corr. Dip:	Vert. Comp.:
Co-ordinates:		True Brg.:	Logged by:
Objective:		% Recov.:	Date:

Footage From - to	Description	% Sulph.	Cp/Py	bn, mo	mag.	Core angle of MF.	Sulph. control	Post Min. Alt.	Note	Sample No.	Length	Analyses			
												Recov	Cu	Mo	Au
131.10 -	134.15	0.2	1:10		B	45,50,60				J-339	3.05	2.65			
134.15 -	137.20	1.5	5:1		B	30, 60, 65, 80				J-340	3.05	3.04			
137.20 -	140.24	0.1	10:1		C	10, 70				J-341	3.04	3.04			
140.24 -	143.29	2.5	10:1		B	45, 55, 75, 80				J-342	3.05	3.00			
143.29 -	146.34	0.3	1:10		no data	70, 80				J-343	3.05	3.05			
146.34 -	149.39	<<.1	1:10		no data	10				J-344	3.05	1.64			
149.39 -	152.44	0.2	10:1		B	85, 90				J-345	3.05	2.96			
152.44 -	155.49	trace	1:100		B	80				J-346	3.05	2.17			
155.49 -	158.54	<<.1	1:100		C	nil	dissem			J-347	3.05	2.91			
158.54 -	161.59	0.1	1:1		B	0, 20, 55, 75				J-348	3.05	2.31			
161.59 -	164.63	0.1	1:5		D	0,10,30				J-349	3.04	2.88			
164.63 -	167.68	<0.1	1:100		D	20, 60				J-350	3.05	2.65			
167.68 -	170.73	trace	1:100		D	0, 65				J-351	3.05	2.65			
170.73 -	173.78	trace	1:100		D	65, 80				J-352	3.05	2.90			
173.78 -	176.83	trace	1:100		D	0				J-352	3.05	2.50			
176.83 -	179.88	trace	1:100		D	55				J-353	3.05	2.86			
179.88 -	182.93	<.1	1:100		D	30, 40, 45, 50				J-354	3.05	2.83			
182.93 -	185.98	<.1	1:100		C	50,60,70				J-355	3.05	2.43			
185.98 -	186.60	<.1	1:100		C	50, 60				J-356	0.62	0.62			
186.60 -	188.71	<.1	1:100		C	50, 60				J-357	2.11	1.31			



APPENDIX 2

Analytical results and procedures.



**MINERAL  
ENVIRONMENTS  
LABORATORIES**

**CONFIDENTIALITY NOTICE**

THIS TRANSMISSION IS INTENDED ONLY FOR THE USE OF THE PERSON TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED AND CONFIDENTIAL. IF YOU ARE NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISCLOSURE, DISTRIBUTION OR COPYING OF THIS TRANSMISSION OR THE INFORMATION IN IT IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE. RETURN THE ORIGINAL AND RETAIN NO COPIES.

TO: <i>RAGNAR BRUASET</i>	FROM: <b>Wilfred Tsang</b>
ATTENTION:	DATE: <i>November 27, 95</i>
FAX: <i>294-3568</i>	TOTAL PAGES: <i>1</i>

*Dear Mr Bruaset*

*" Re: 5V-0529 "*

*Further to our discussion the follows are  
the procedures*

- 1. Sample preparation - jaw crushing, rolling  
crushing, splitting 250g - 300g samples  
(60% 10 mesh) then ring pulverization  
(90% - 150 mesh)*
- 2. ICP - 0.500 grams of pulp sample is digested  
with 10ml of 1:1 aqua regia solution for 2 hours  
then dilute to 25ml and ICP finish*
- 3. Geochem Au - 1 A.T. fire assay. AA finish*

*If you have any questions, please call me  
at 327-3436.*

*Regards*

*Wilfred Tsang*

**OFFICE AND LABORATORIES:**

8282 Sherbrooke Street  
Vancouver, B.C. V5X 4E8

PHONE (604) 327-3436

FAX: (604) 327-3423



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
8282 SHERBROOKE STREET  
VANCOUVER, B.C. CANADA V5X 4E8  
TELEPHONE (604) 327-3436  
FAX (604) 327-3423

**SMITHERS LAB:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TEL (604) 847-3004  
FAX (604) 847-3005

---

## PROCEDURE FOR Au GEOCHEM FIRE ASSAY

Samples are dried @ 65 C and when dry the Rock & Core samples are crushed on a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to 1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 gram sub-sample. This sub-sample is then pulverized on a ring pulverizer to 95% - 150 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Soil and stream sediment samples are screened to - 80 mesh for analysis.

The samples are fluxed, a silver inquant added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved with aqua regia solution, diluted to volume and mixed.

These resulting solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 2 standard deviations of its known or the whole set is re-assayed.

10% of all assay per page are rechecked, then reported in PPB. The detection limit is 1 PPB.



**MINERAL  
ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
8282 SHERBROOKE STREET  
VANCOUVER, B.C. CANADA V5X 4E8  
TELEPHONE (604) 327-3436  
FAX (604) 327-3423

**SMITHERS LAB:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TEL (604) 847-3004  
FAX (604) 847-3005

---

**ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:**  
**PROCEDURE FOR SAMPLE PREPARATION**

- a.) The soil and stream sediment samples are dried at 60 Celsius. The sample is then screened by 80 mesh sieve to obtain the -80 mesh fraction for analysis.
- b.) The rock and core samples are dried at 60 Celsius and when dry are crushed in a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to -1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 gram sub-sample. This sub-sample is then pulverized on a ring pulverizer to 95% minus 150 mesh rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.





**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
8282 SHERBROOKE STREET  
VANCOUVER, B.C. CANADA V5X 4E8  
TELEPHONE (604) 327-3436  
FAX (604) 327-3423

**SMITHERS LAB:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TEL (604) 847-3004  
FAX (604) 847-3005

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR TRACE ELEMENT ICP

Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Mo, Na, Ni, P,  
Pb, Sb, Sn, Sr, Th, Ti, U, W, Zn

0.50 grams of the sample pulp is digested for 2 hours with an 1:3:4 HNO<sub>3</sub>:HCl:H<sub>2</sub>O mixture. After cooling, the sample is diluted to standard volume.

The solutions are analysed by computer operated Jarrell Ash 9000, Jarrell Ash 975 or Jobin Yvon 38, Inductively Coupled Plasma Spectrophotometers.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
8282 SHERBROOKE STREET  
VANCOUVER, B.C. CANADA V5X 4E8  
TELEPHONE (604) 327-3436  
FAX (604) 327-3423

**SMITHERS LAB:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TEL (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

5S-0153-RA1

Company: **INTERNATIONAL FOCUS RES INC.**  
Project:  
Attn: **GARY SCHELL**

Date: NOV-20-95

We hereby certify the following Assay of 8 core samples  
submitted OCT-03-95 by G. Schell.

Sample Number	Cu %	Sample length
J 137	15.100	0.48m
J 138	1.410	0.42m
J 146	1.120	0.81m
J 150	1.650	1.54m
J 87	1.750	0.75m
J 88	1.290	2.13m
J 90	1.370	1.83m
J 91	1.450	1.53m

Certified by \_\_\_\_\_

MIN-EN LABORATORIES





COMP: INTERNATIONAL FOCUS RESOURCES  
 PROJ: JEAN 1995 p 3 of 7  
 ATTN: GARY SCHELL

MIN-EN LABS — ICP REPORT  
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8  
 TEL: (604)327-3436 FAX: (604)327-3423

FILE NO: 5S-0149-RJ5  
 DATE: 95/11/15  
 \* • (ACT:F31)

SAMPLE NUMBER	from to (m)	AG (m) PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire 30g PPB
J 97	51.82-54.88	3.2	1.11	1	130	1.2	1	1.08	.1	28	65	2020	3.67	1	.58	13	1.36	154	2	.07	23	650	22	1	4	1	1	.14	1	112.9	3	33	29
J 98	54.88-57.93	1.8	.58	4	29	.8	1	.97	.1	21	38	991	2.64	1	.07	5	.61	129	2	.09	22	720	22	1	2	1	1	.09	1	55.2	2	22	10
J 99	57.93-60.99	1.9	.85	1	20	1.0	1	2.06	.1	29	43	770	3.77	2	.04	4	.68	272	1	.10	25	740	32	1	3	16	1	.08	1	73.4	2	29	12
J 100	60.99-64.05	2.1	1.51	1	163	1.1	1	1.50	.1	24	30	505	3.34	1	.53	14	1.30	154	1	.14	20	1810	16	1	3	1	1	.14	1	113.1	1	31	6
J 101	64.05-67.11	3.9	1.98	1	218	1.3	1	1.95	.1	21	36	2048	3.57	1	.57	14	1.67	182	1	.13	24	1790	17	1	3	1	1	.15	1	133.3	2	44	32
J 102	67.11-70.17	2.5	2.12	1	190	1.3	1	1.90	.1	24	45	722	3.78	1	.66	17	1.80	186	1	.17	28	1740	15	1	4	1	1	.16	1	132.6	3	41	7
J 103	70.17-73.23	2.3	1.95	1	116	1.2	1	2.07	.1	21	48	656	3.20	1	.31	14	1.62	190	5	.16	26	1630	12	1	3	6	1	.12	1	117.2	2	38	5
J 104	73.23-76.29	2.9	.80	1	25	1.2	1	2.47	.1	25	37	1905	3.74	2	.10	6	.65	297	6	.11	30	750	35	1	4	18	1	.07	1	80.0	2	35	16
J 105	76.29-79.35	1.8	.68	1	34	.7	1	1.60	.1	16	46	628	2.46	1	.06	4	.65	164	1	.12	18	630	20	1	2	34	1	.08	1	69.4	4	21	4
J 106	79.35-82.41	2.1	1.03	1	77	1.2	1	1.65	.1	20	45	882	3.32	1	.12	7	1.04	218	1	.08	21	680	25	1	3	18	1	.10	1	94.9	2	30	8
J 107	82.41-85.47	1.6	.86	1	29	1.0	1	2.31	.1	23	47	940	3.27	1	.05	6	.68	288	3	.09	20	610	31	1	3	23	1	.04	1	67.0	2	27	10
J 108	85.47-88.53	4.3	1.45	1	45	1.1	1	4.60	.1	23	47	4543	3.05	1	.12	8	1.18	375	6	.12	22	800	28	5	3	71	1	.07	1	79.9	5	41	32
J 109	88.53-91.59	5.6	2.50	1	134	1.6	1	2.47	.1	26	181	4318	3.81	1	.46	22	2.69	241	4	.15	62	820	6	2	4	9	1	.21	1	123.1	9	51	28
J 110	91.59-94.65	3.0	2.01	1	48	1.3	1	4.23	.1	22	47	1780	3.97	1	.15	15	1.33	477	3	.12	28	620	34	5	4	13	1	.11	1	98.7	3	49	14
J 111	94.65-97.71	2.7	1.78	1	51	1.4	1	2.95	.1	24	45	2103	3.25	3	.08	10	1.02	303	5	.11	20	440	24	5	3	29	1	.08	1	93.3	3	42	20
J 112	97.71-100.77	2.3	1.10	1	81	1.0	1	1.16	.1	21	51	936	3.27	1	.13	11	1.10	218	1	.08	24	540	19	1	3	1	1	.18	1	110.5	3	33	6
J 113	100.77-103.83	1.7	1.13	1	55	1.1	5	1.63	.1	19	49	271	2.98	1	.08	9	1.13	266	2	.06	22	790	23	1	2	1	1	.13	1	93.9	3	33	2
J 114	103.83-106.89	2.4	1.38	1	34	1.3	1	2.63	.1	16	42	1567	3.04	2	.07	11	1.12	291	2	.07	22	650	16	1	3	9	1	.07	1	94.5	2	40	8
J 115	106.89-109.95	6.0	2.44	1	167	1.2	1	2.33	.1	20	57	5368	3.31	1	.39	20	1.63	306	1	.24	28	1620	15	4	3	82	1	.16	1	112.0	4	53	19
J 116	109.95-113.01	1.9	2.12	1	200	1.0	11	2.19	.1	17	54	129	2.84	1	.39	19	1.55	278	2	.21	27	1640	11	1	3	29	1	.17	1	111.9	3	42	2
J 117	113.01-116.07	1.8	2.06	1	223	1.2	10	2.35	.1	18	53	127	3.06	1	.38	20	1.67	331	1	.24	27	1690	10	1	3	19	1	.16	1	120.5	3	45	2
J 118	116.07-119.13	2.1	1.92	1	171	1.2	6	2.53	.1	18	48	275	3.20	1	.36	19	1.71	352	1	.26	22	1850	10	1	3	25	1	.16	1	128.4	2	44	3
J 119	119.13-122.19	2.1	1.86	1	179	1.3	1	2.05	.1	20	59	1697	3.65	1	.46	21	1.75	289	10	.13	28	1790	13	1	3	1	1	.18	1	142.1	3	47	14
J 120	122.19-125.25	2.1	1.95	1	179	1.4	4	2.33	.1	18	45	396	3.37	1	.40	23	1.97	373	2	.14	23	1690	8	1	4	20	1	.15	1	127.1	1	47	1

DWH 795-2

COMP: INTERNATIONAL FOCUS RES INC.

PROJ: JEAN 1995 P447

ATTN: GARY SCHELL

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8

TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 5S-0153-RJ1+2

DATE: 95/11/16

\* rock \* (ACT:F31)

Table with columns: SAMPLE NUMBER (m), AG (PPM), AL (%), AS (PPM), BA (PPM), BE (PPM), BI (PPM), CA (%), CD (PPM), CO (PPM), CR (PPM), CU (PPM), FE (%), GA (PPM), K (%), LI (PPM), MG (%), MN (PPM), MO (PPM), NA (%), NI (PPM), P (PPM), PB (PPM), SB (PPM), SN (PPM), SR (PPM), TH (PPM), TI (PPM), U (PPM), V (PPM), W (PPM), ZN (PPM), Au-fire (PPM), Pb (PPM). Rows include sample IDs like J 121, J 122, J 123, etc.

DDH J 95-2

DDH J 95-3









APPENDIX 3

1995 GEOPHYSICAL REPORT

A. Scott LOGISTICAL REPORT INDUCED POLARIZATION/RESISTIVITY SURVEY  
JEAN PROPERTY SEPT. 14, 1995

LOGISTICAL REPORT  
INDUCED POLARIZATION/RESISTIVITY SURVEY

JEAN PROPERTY  
FORT ST. JAMES AREA  
BRITISH COLUMBIA

on behalf of

INTL. FOCUS RES. INC.  
1840 - 777 Dunsmuir Street  
Vancouver, B.C. V7Y 1G6

Field work completed: August 28 to September 8, 1995

by

Alan Scott, Geophysicist  
SCOTT GEOPHYSICS LTD.  
4013 West 14th Avenue  
Vancouver, B.C. V6R 2X3

September 14, 1995

## TABLE OF CONTENTS

	page
1 Introduction	1
2 Survey coverage and data presentation	1
3 Personnel	1
4 Instrumentation	2
5 Recommendations	2

### Appendix

Statement of Qualifications rear of report

#### Maps and Materials included in body of report

Chargeability/resistivity pseudosections map pocket 1  
One (1) floppy disk with all final survey data map pocket 2

#### Accompanying Maps (1:5000 scale) (vellum originals, three blackline copies of each)

Chargeability/resistivity pseudosections - Lines 80E to 104E map roll  
Chargeability/resistivity pseudosections - Lines 24E to 0E map roll  
Chargeability/resistivity pseudosections - Lines 8W to 32W map roll  
Chargeability contour plan - second separation map roll  
Resistivity contour plan - second separation map roll

## 1. INTRODUCTION

Induced polarization/resistivity surveys (IP survey) were performed over portions of the Jean Property, Fort St. James Area, B.C, within the period August 28 to September 8, 1995. The survey was conducted by Scott Geophysics Ltd. on behalf of Intl. Focus Res. Inc.

The pole dipole array was used on the survey, with an electrode spacing ("a" spacing) of 100 metres and at current pole to receiver dipole separations of 1 to 4 ("n"=1-4). The online current electrode was to the south of the receiving electrodes on lines 0E, 8W, 16W, 24W, and 32W; and to the north of the receiving electrodes on lines 16E, 24E, 80E, and 104E.

This report describes the instrumentation and procedures, and presents the results of the survey.

## 2. SURVEY COVERAGE AND DATA PRESENTATION

A total of 24.9 line kms of IP survey were completed on the Jean Property. The chargeability and resistivity results are presented in standard pseudosection format and as contour plans for the second separation values. The legends give details of the form of presentation and contour intervals for each respective plot.

The line numbering for this survey retained the preexisting imperial units of the old grid, but the station numbering is in metres south of the old baseline. Lines 80E and 104E, however, are reconnaissance lines and are not referenced to that preexisting grid.

The floppy disk at the rear of this report contains edited ASCII format files of all survey data.

## 3. PERSONNEL

Dominique Berube, geophysicist, was the party chief on the survey on behalf of Scott Geophysics. Ragnar Bruaset, geologist, was the representative on behalf of Intl. Focus.

#### 4. INSTRUMENTATION

A Scintrex IPR12 receiver and TSQ3 (3.0 kw) transmitter were used on the IP survey. Readings were taken in the time domain using a 2 second current pulse (0.125 Hz).

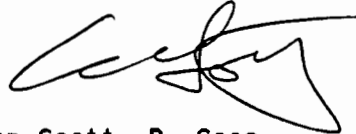
The chargeability plotted on the accompanying pseudosections and plan maps is for the interval 120 to 1020 milliseconds after shutoff.

#### 5. RECOMMENDATIONS

The IP survey at the Jean Property detected areas of moderate to strong chargeability responses which merit additional evaluation.

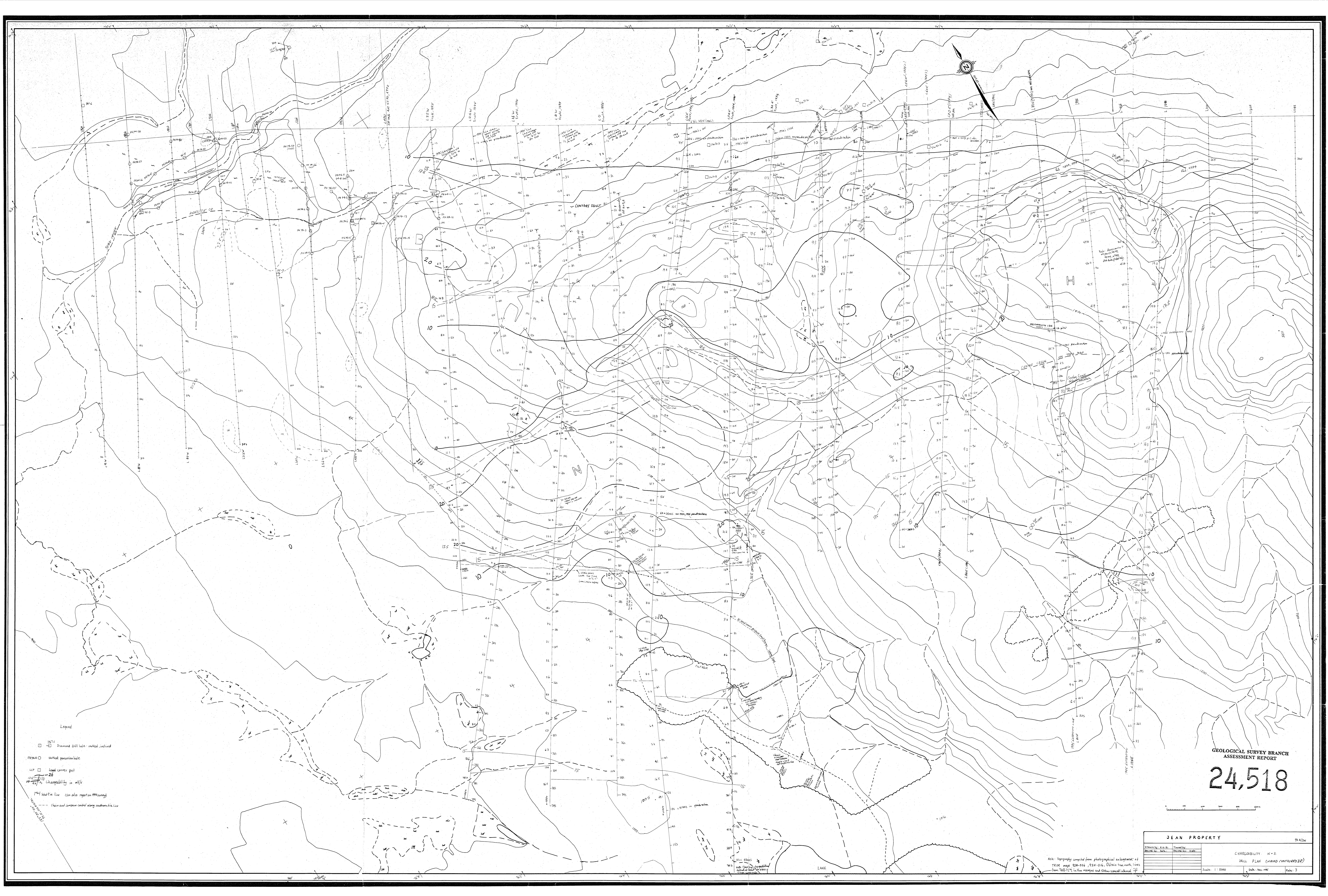
A detailed interpretation of these results, and correlation to geological and geochemical data, is required before any specific recommendations could be made.

Respectfully Submitted,



Alan Scott, P. Geos.





- Legend
- 4 1/2" Diamond drill hole - vertical, inclined
  - Vertical permeability
  - Lead core pit
  - Chert in place
  - Chert and carbon content along southern line

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,518

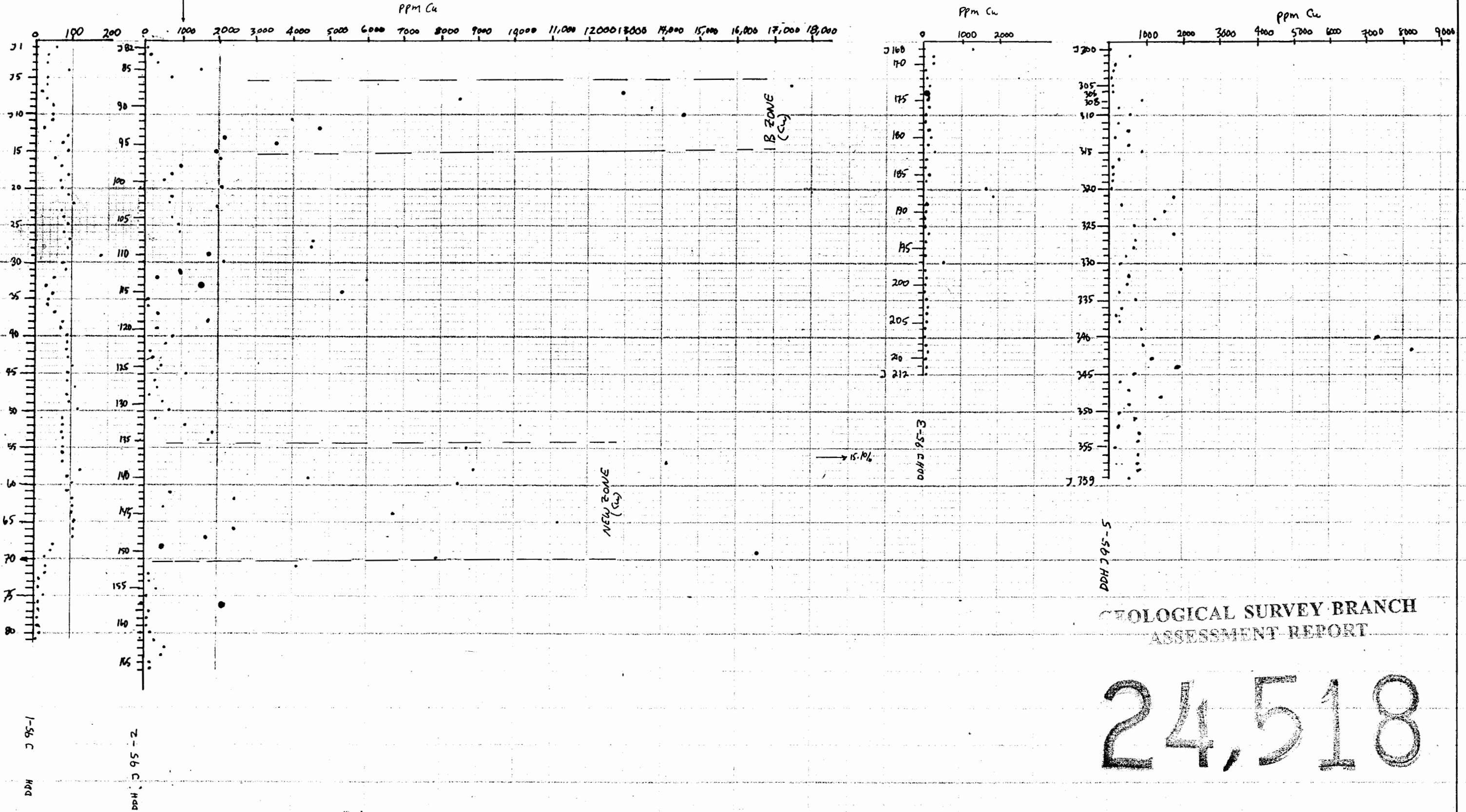
JEAN PROPERTY

Checked by: P. G. H.	Drawn by: J. M. S.	Scale: 1:5000	DATE: 1/19/50
Approved by: J. M. S.	Checked by: J. M. S.	DATE: 1/19/50	Page: 3

Note: Topography compiled from photogrammetric evaluation of TRIM maps 928-026, 928-016. Outline has north lines from 1943-44 to the nearest and 500-foot interval.



The average Cu in basalt is 100 ppm (Levinson, 1980, Table 2-1)



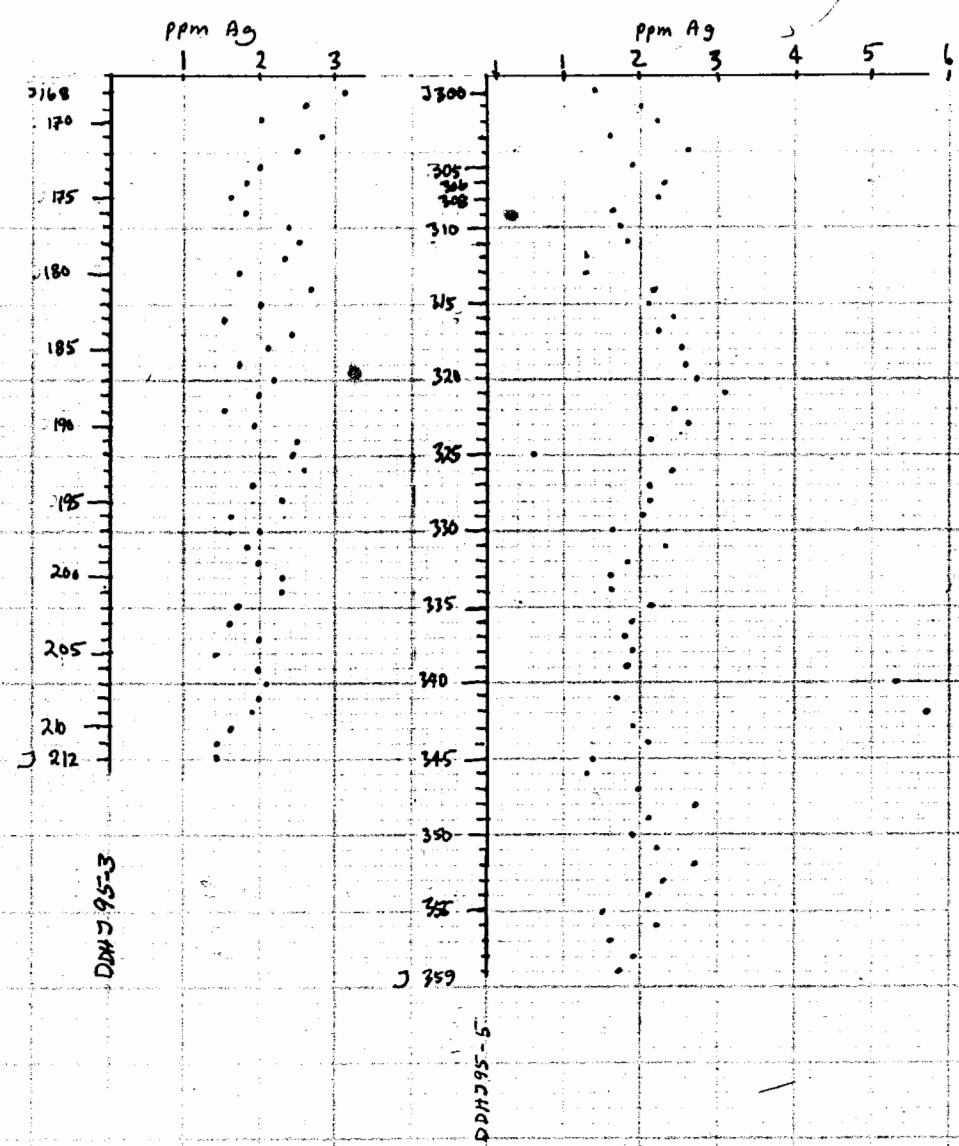
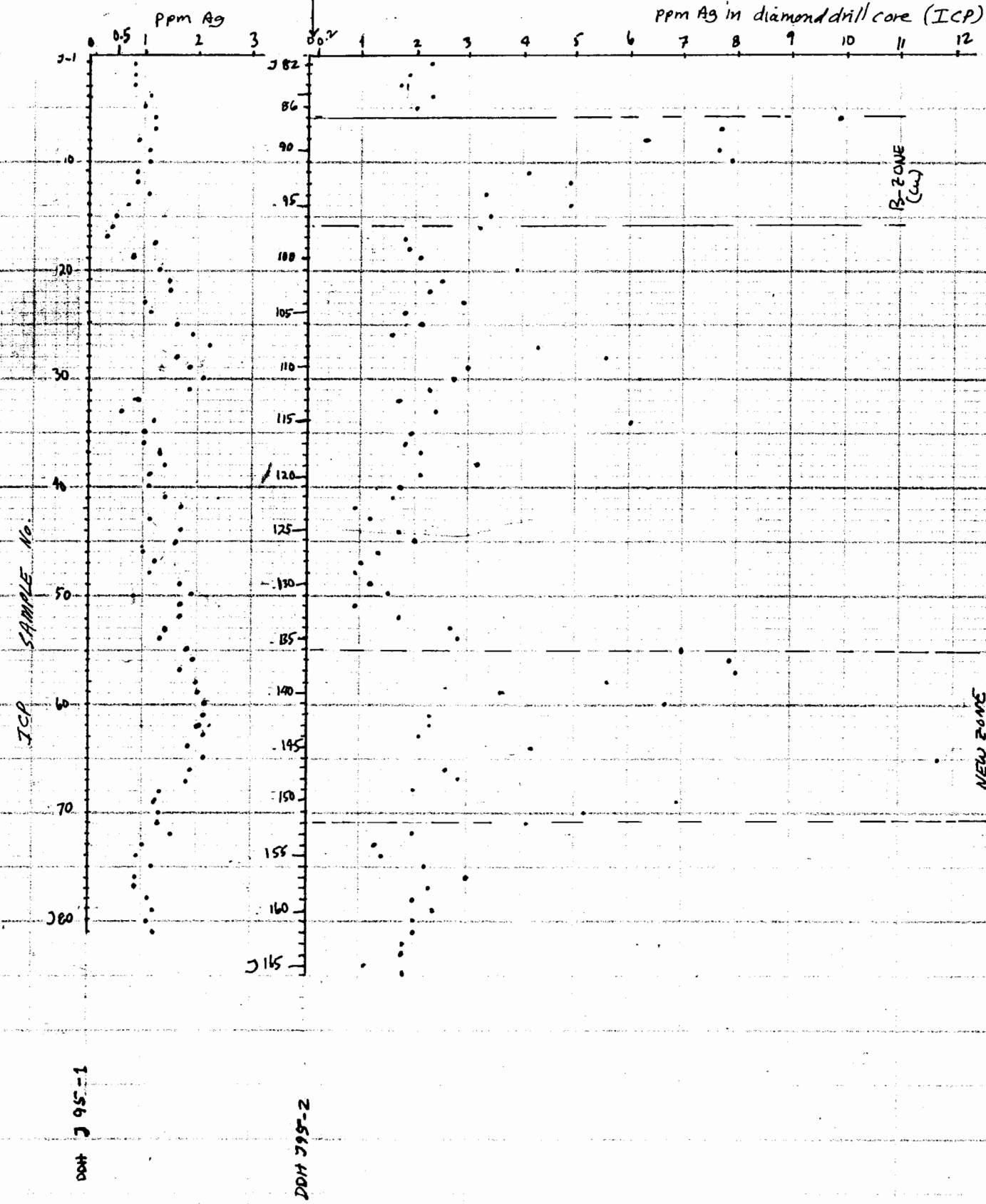
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,518

COPPER (ppm)		
JEAN PROJECT		
Copper by ICP in diamond drill core		
ref: MW-ENLABS FILES 55-0199, 0157, 0162		
Project No.	NIS 93N/2W	Scale: Diagrammatic
Date	Nov. 95	Report No
		Fig No. 5



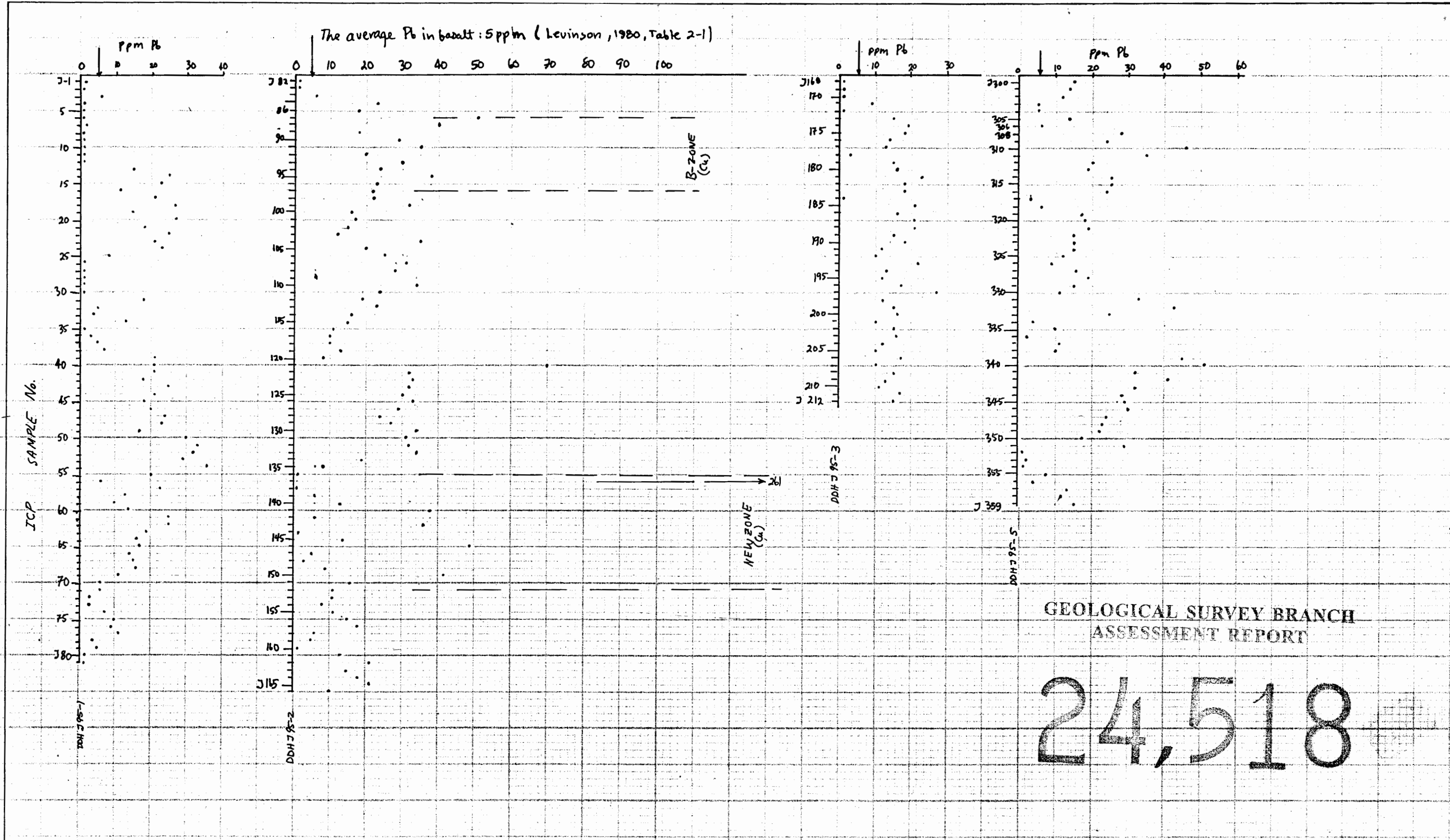
LEVINSON, 1980, AVERAGE ABUNDANCE OF SILVER IN BASALT: 0.1 ppm



GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,518

<b>SILVER</b> (PPM)		
JEAN PROJECT		
Silver by ICP in diamond drill core		
Ref: MIN-EN LABS FILES 53-0149, D153, 0162		
Project No.	NTS 93N/2W	Scale Diagrammatic
Date Nov. 95	Report No.	Fig. No. 6

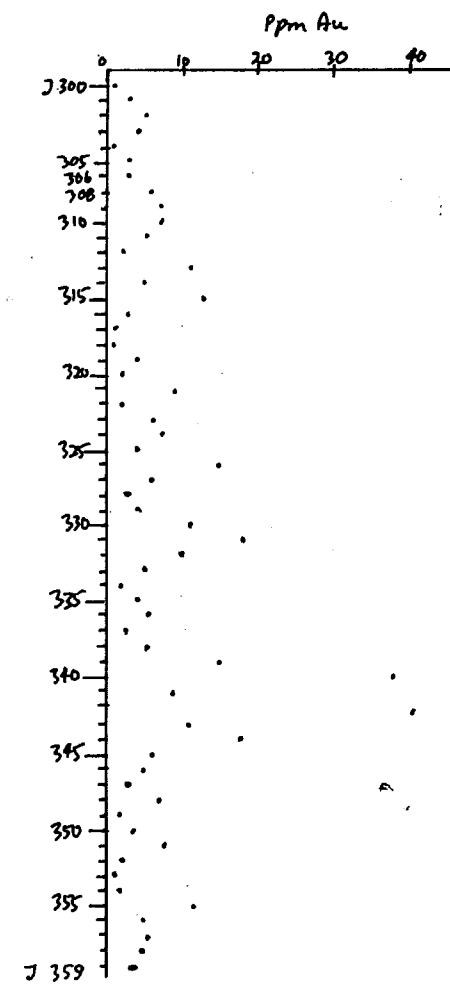
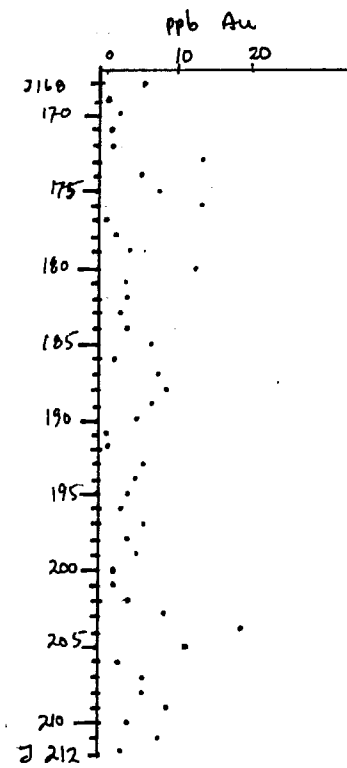
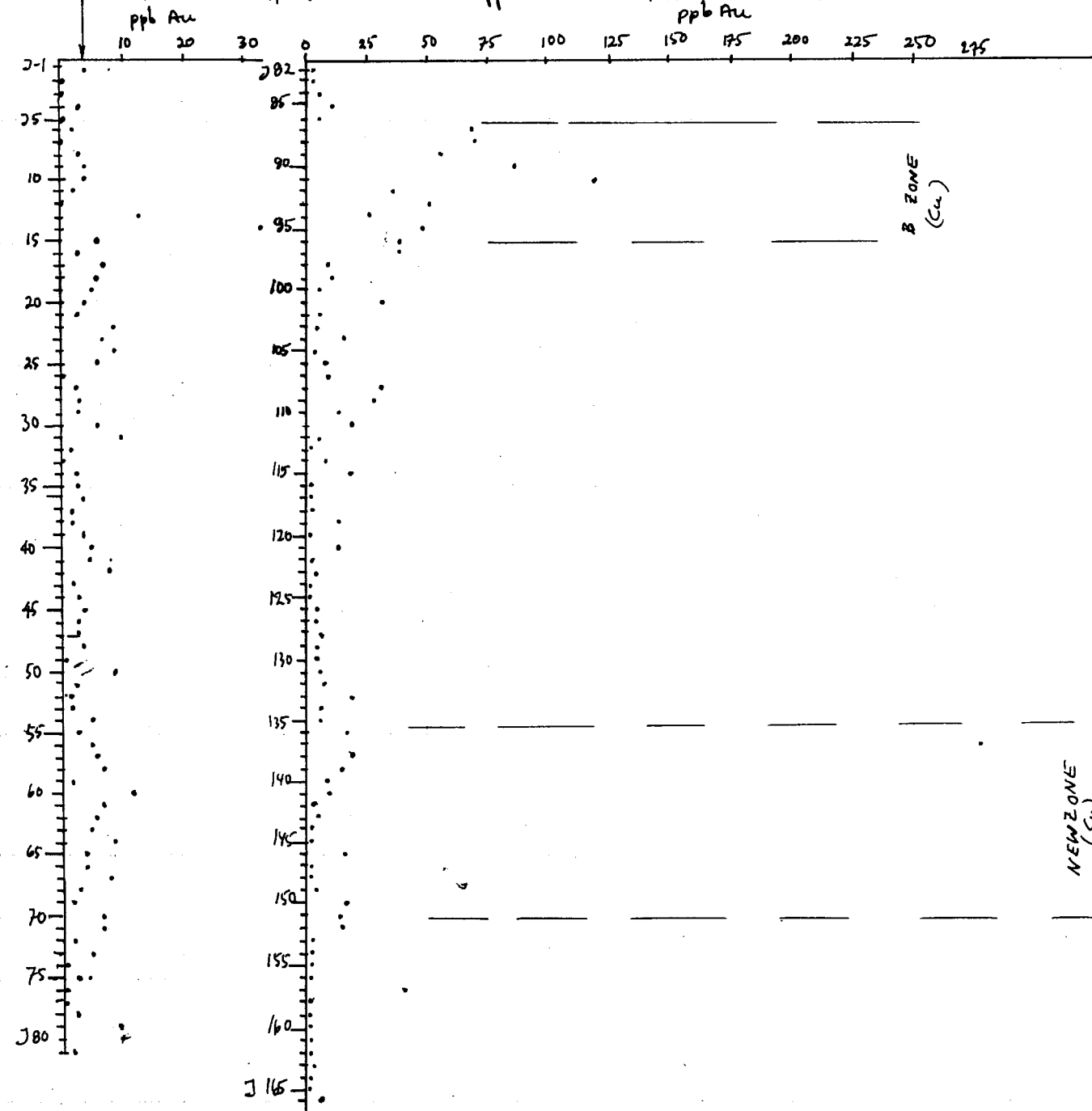


GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,518

LEAD (ppm)		
JEAN PROJECT		
Lead by ICP in diamond drill core		
Re: MIN-EN LABS FILES 55-0149, 0153, 0162		
Project No	NTS 93M/2W	Scale Diagrammatic
Date	Report No.	Fig. No. 7
Nov. 95		

Average abundance of Au in Basalt is 4 ppb (Herinson, 1980 Table 2-1)



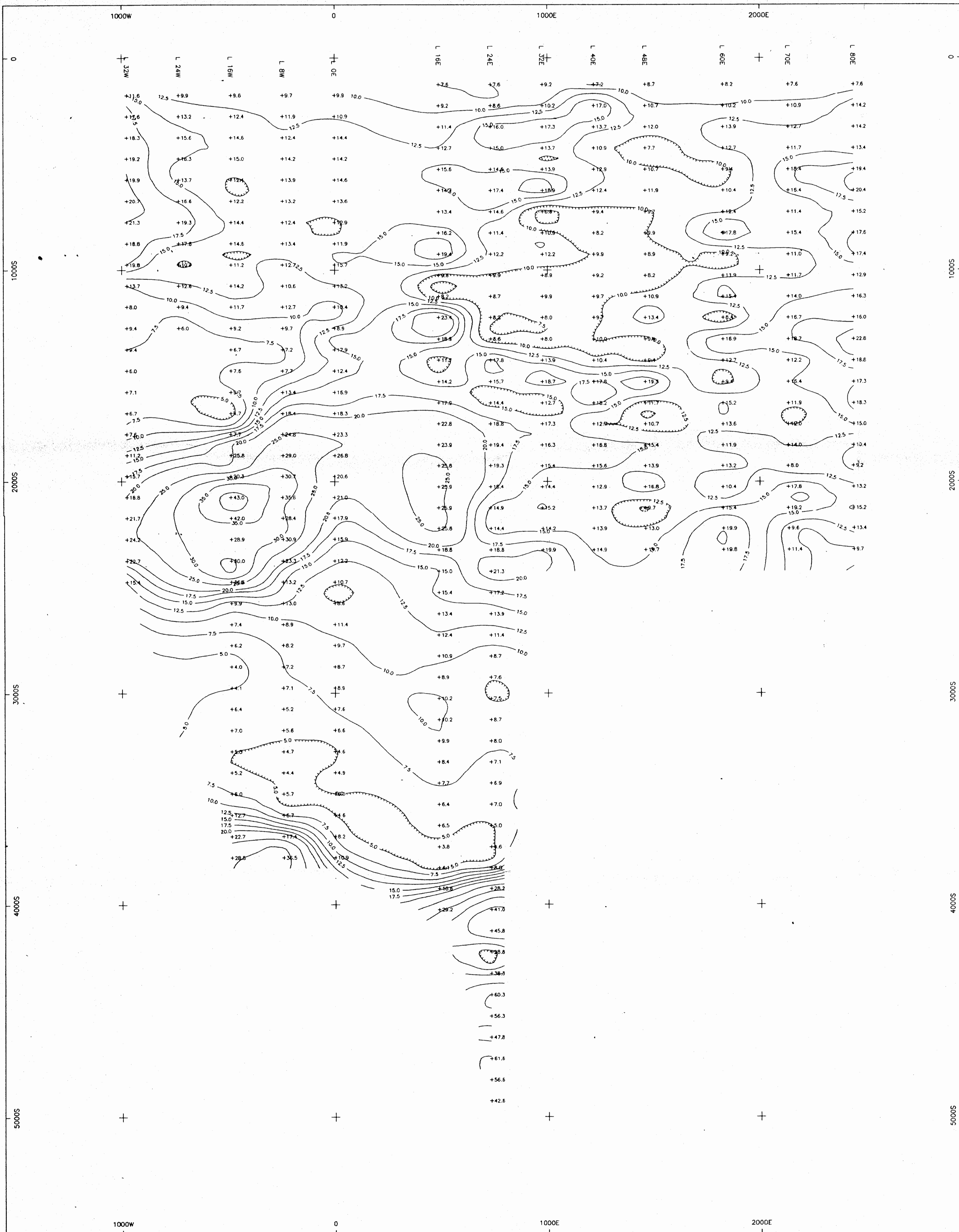
DDH J 95-5

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,518

DDH J 95-1

			GOLD (ppb)	
			JEAN PROJECT	
			Gold by 30g FA.AA	
Project No.	NTS 93N/2W	Scale Diagrammatic		
Date	Nov. 95	Report No. Fig. No. 8		



**SURVEY SPECIFICATIONS**

receiver Scintrex IPR12  
transmitter Scintrex TS03

pulse time 2 seconds  
Mx receive window 120-1020 msec  
mid point 570 msec

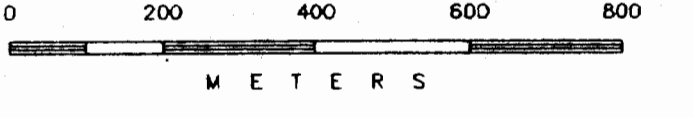
array pole dipole  
a spacing 100 metres  
n separations 1 to 4

contoured value a=100 m n=2

contour intervals:  
2.5, 5.0, 7.5, 10.0, 12.5,  
15.0, 17.5, 20.0, 25.0, 30.0,  
35.0, 40.0, 50.0, 60.0 mV/Volt

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**24,518**



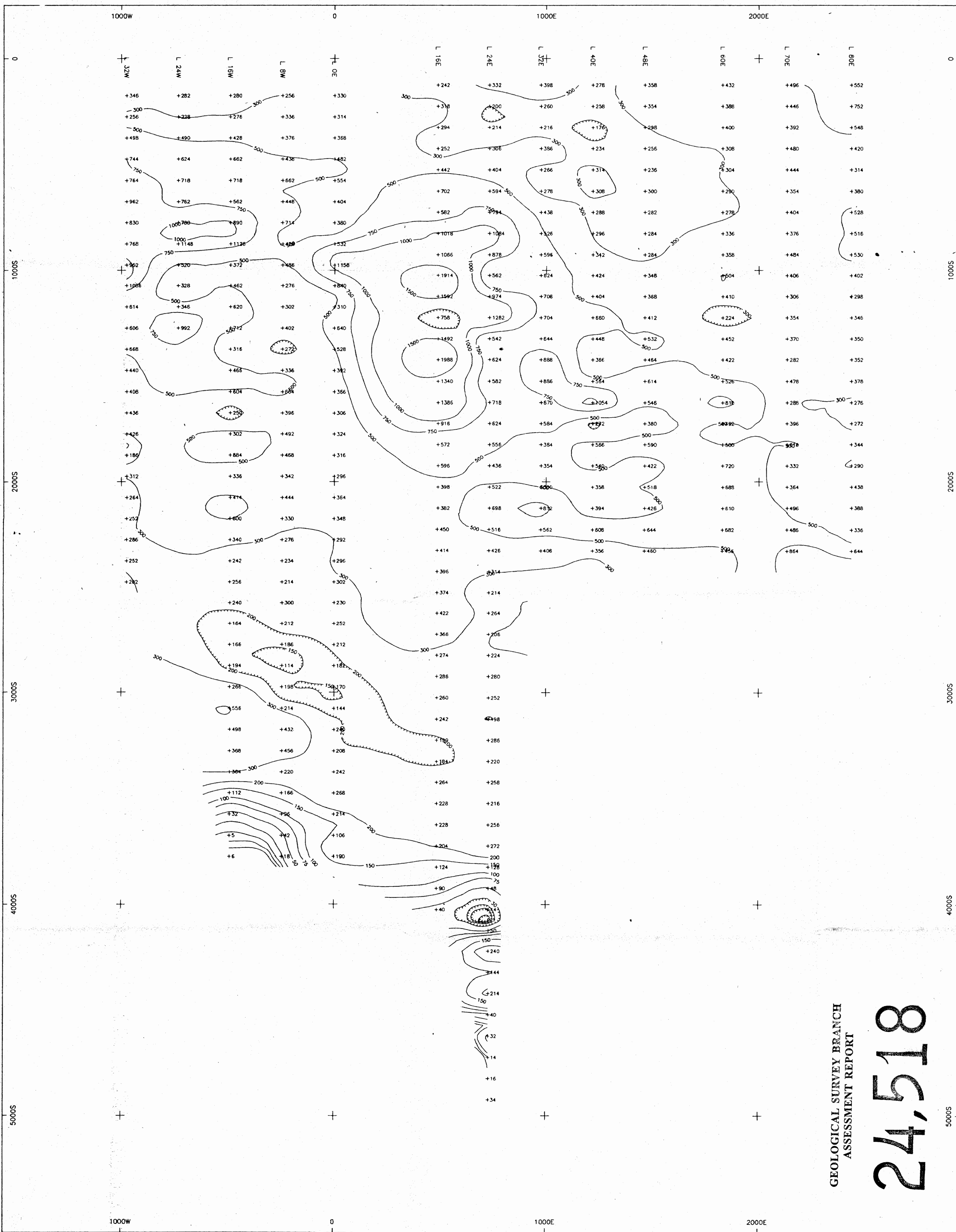
INTL. FOCUS RES. INC.

JEAN PROPERTY  
FORT ST. JAMES AREA, B.C.  
Chargeability Contour Plan  
Second Separation  
1994 and 1995 surveys

DRAWN BY: ars DATE: Sept/95  
SCOTT GEOPHYSICS LTD.







**SURVEY SPECIFICATIONS**

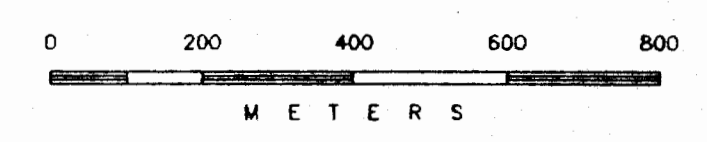
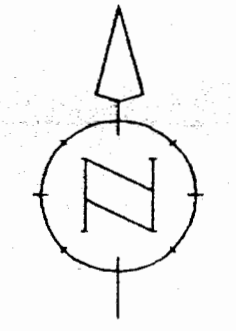
receiver Scintrex IPR12  
 transmitter Scintrex TSQ3

pulse time 2 seconds  
 Mx receive window 120-1020 msec  
 mid point 570 msec

array pole dipole  
 a spacing 100 metres  
 n separations 1 to 4

contoured value a=100 m n=2

log contour intervals:  
 10, 15, 20, 30, 50, 75,  
 100, 150, 200, 300, 500, 750,  
 1000, 1500, 2000 ohm-metres



GEOLOGICAL SURVEY BRANCH  
 ASSESSMENT REPORT

**24,518**

INTL. FOCUS RES. INC.

JEAN PROPERTY  
 FORT ST. JAMES AREA, B.C.  
 Resistivity Contour Plan  
 Second Separation  
 1994 and 1995 surveys

DRAWN BY: ars DATE: Sept/95  
 SCOTT GEOPHYSICS LTD.





INTL. FOCUS RES. INC.

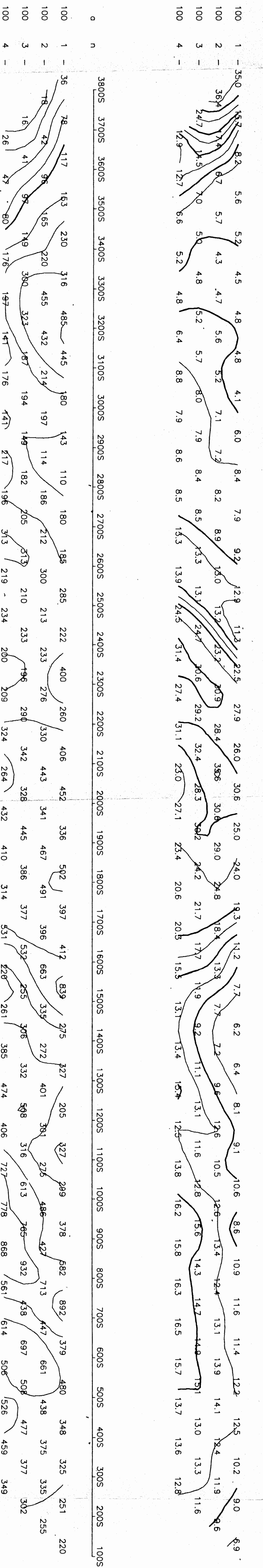
JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

LINE: 8W  
 INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
 SCOTT GEOPHYSICS LTD. Scintrex IPR12  
 Sept/95 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (array heading north)  
 Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres)  
 CHARGEABILITY (Mx - mV/Volt)



LINE:

INTL. FOCUS RES. INC.

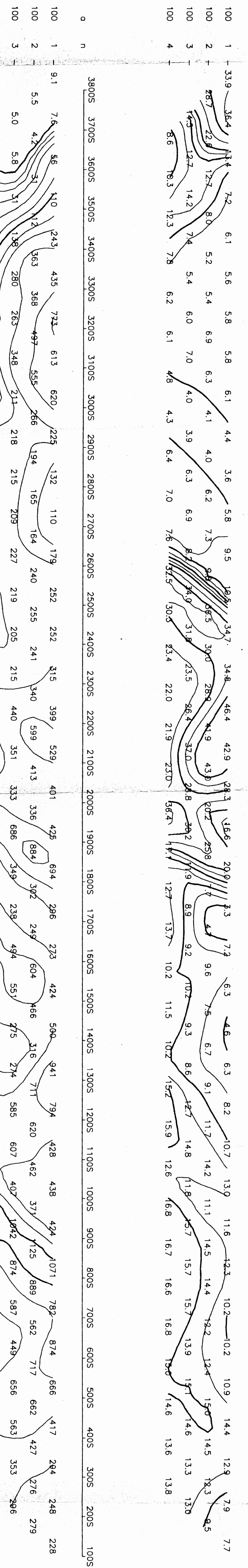
JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

LINE: 16W  
 INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
 SCOTT GEOPHYSICS LTD. Scintrex IPR12  
 Sept/95 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (array heading north)  
 Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres)  
 CHARGEABILITY (Mx - mV/Volt)



LINE:

INTL. FOCUS RES. INC.

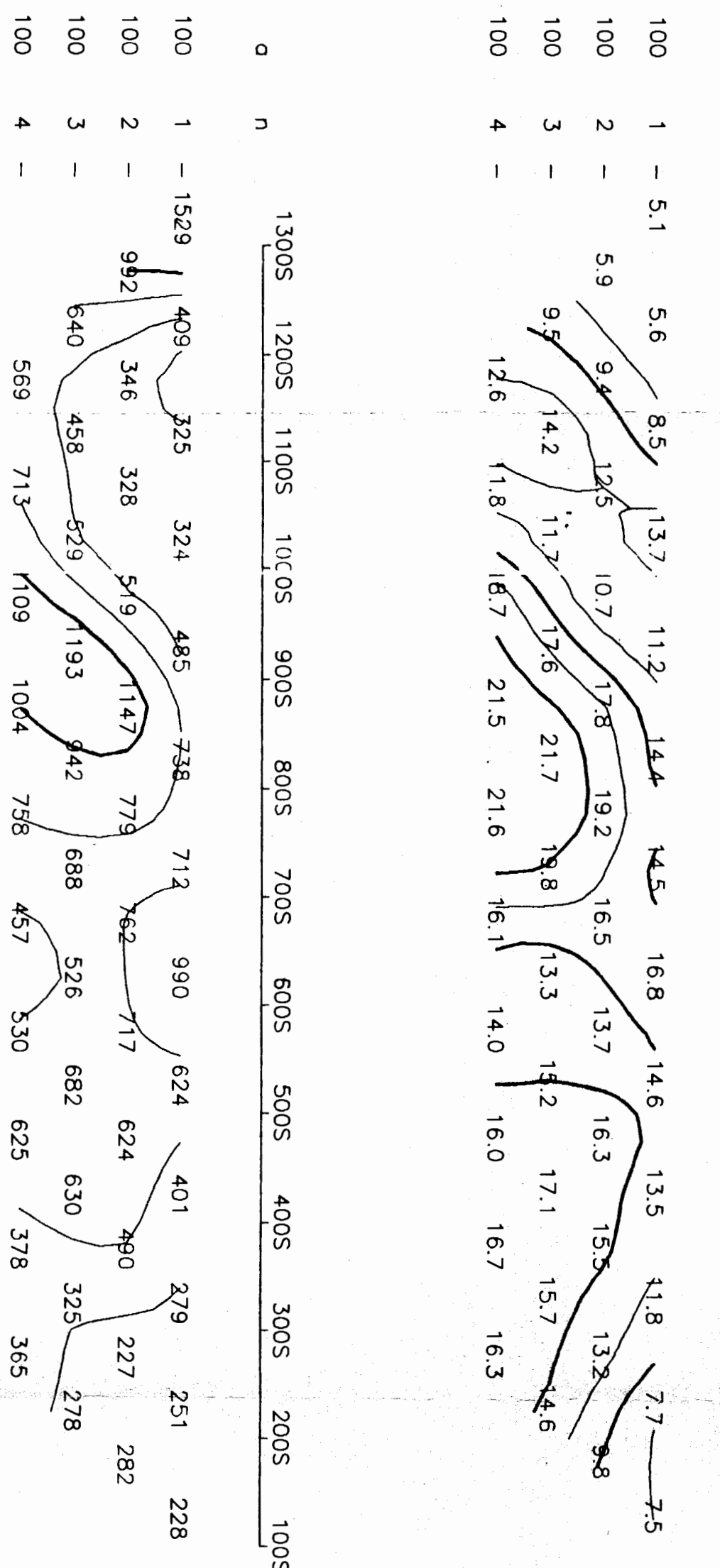
JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

LINE: 24W  
 INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
 SCOTT GEOPHYSICS LTD. Scintrex IPR12  
 Sept/95 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (array heading north)  
 Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres)  
 CHARGEABILITY (Mx - mV/Volt)



LINE:

INTL. FOCUS RES. INC.

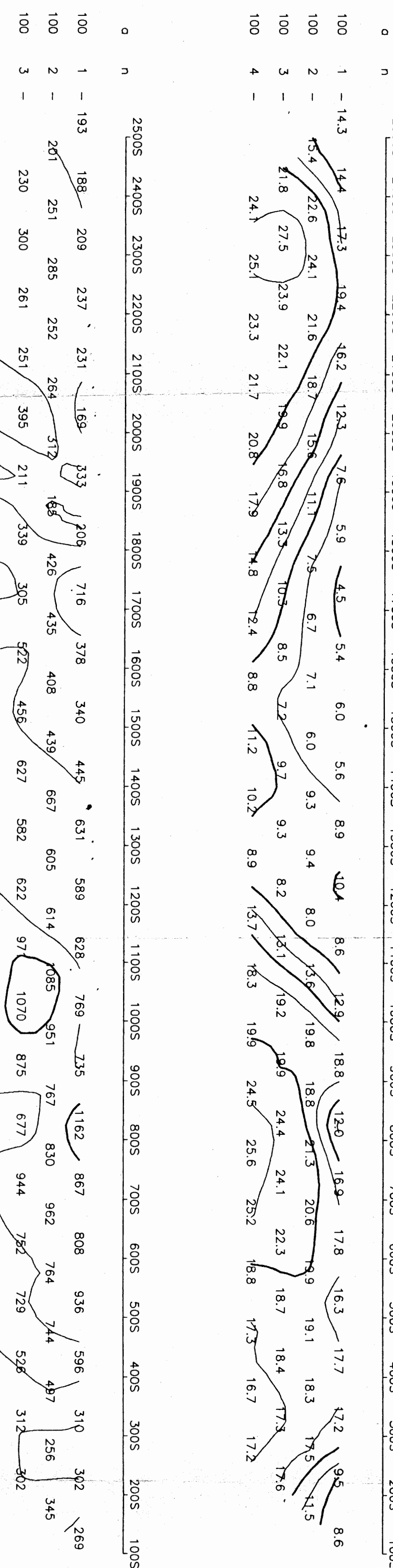
JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

LINE: 32W  
 INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
 SCOTT GEOPHYSICS LTD. Scintrex IPR12  
 Sept/95 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (array heading north)  
 Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres)  
 CHARGEABILITY (Mx - mV/Volt)



LINE:



# 24,518

## INTL. FOCUS RES. INC.

JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

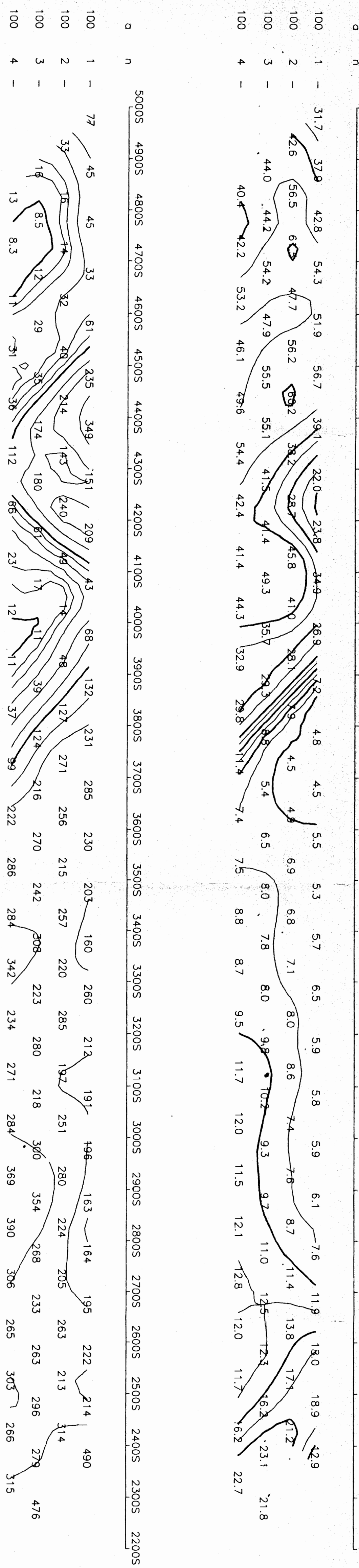
LINE: 24E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
Sept/95 Pulse Rate: 2 sec

current electrode is north of receiving electrodes (array heading south)  
Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres) CHARGEABILITY (Mx - mV/Volt)



LINE: 24E

## INTL. FOCUS RES. INC.

JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

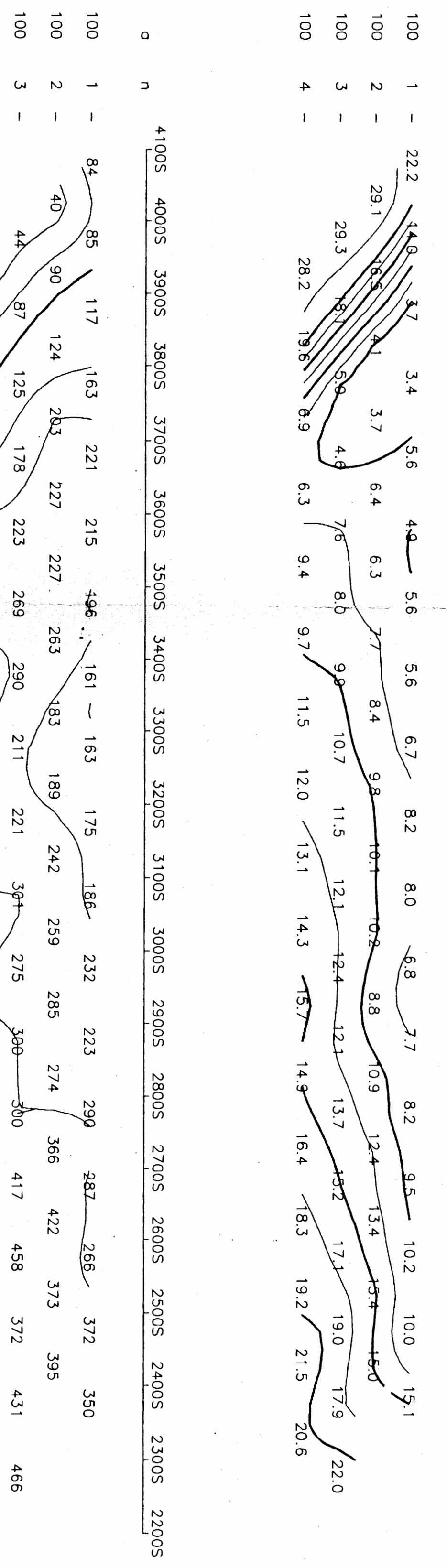
LINE: 16E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
Sept/95 Pulse Rate: 2 sec

current electrode is north of receiving electrodes (array heading south)  
Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres) CHARGEABILITY (Mx - mV/Volt)



LINE: 16E

## INTL. FOCUS RES. INC.

JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

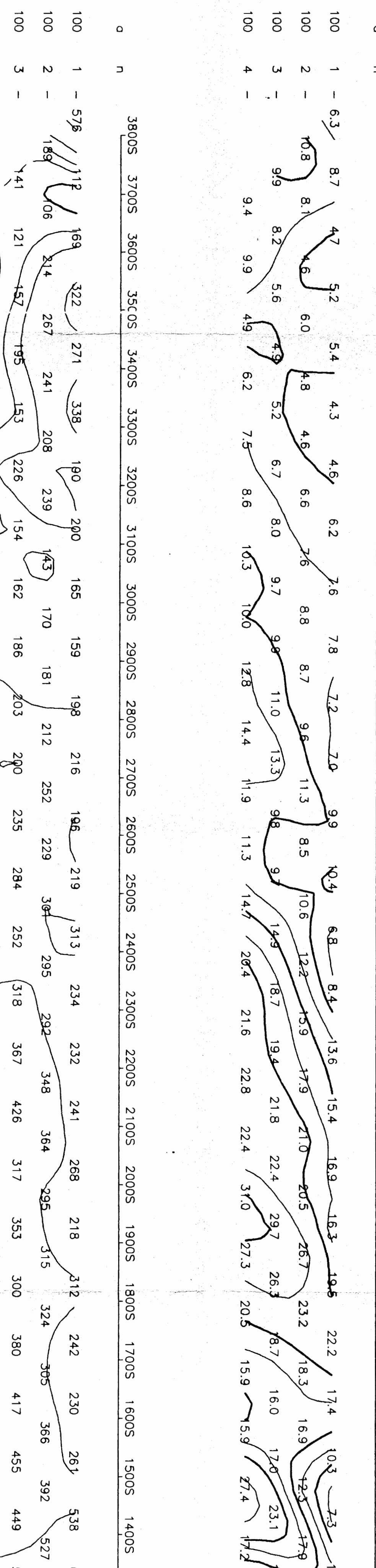
LINE: 0E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
Sept/95 Pulse Rate: 2 sec

current electrode is south of receiving electrodes (array heading north)  
Mx chargeability is for the interval 120 - 1020 msec after shutoff



RESISTIVITY (ohm-metres) CHARGEABILITY (Mx - mV/Volt)



LINE: 0E



# 24,518

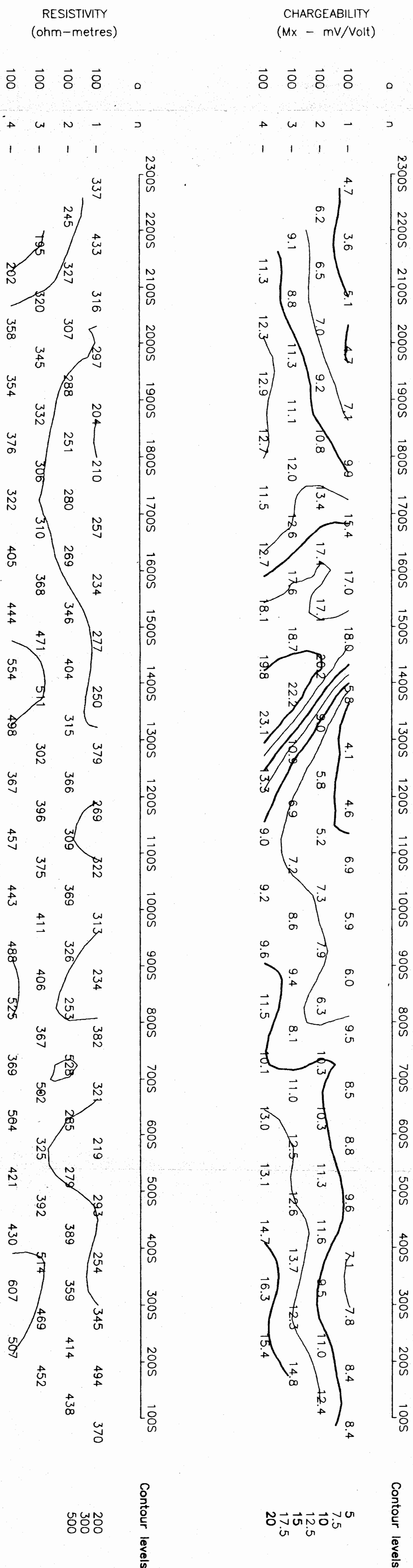
## INTL. FOCUS RES. INC.

JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

LINE: 104E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
Sept/95 Pulse Rate: 2 sec

current electrode is north of receiving electrodes (array heading south)  
Mx chargeability is for the interval 120 - 1020 msec after shutoff



LINE: 104E

## INTL. FOCUS RES. INC.

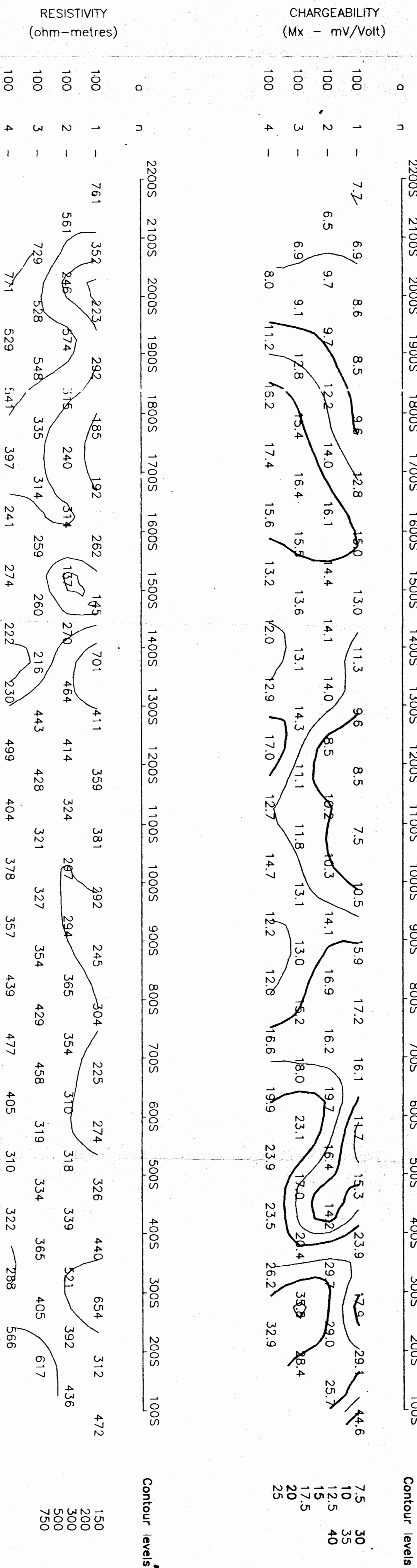
JEAN PROPERTY, FORT ST. JAMES AREA, B.C.

LINE: 80E

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
Sept/95 Pulse Rate: 2 sec

current electrode is north of receiving electrodes (array heading south)  
Mx chargeability is for the interval 120 - 1020 msec after shutoff

*NOTE: THIS IS THE N.B.C. SYNDICATE  
L-80E; NOT TO BE CONFUSED WITH L-80E  
SURVEYED IN 1994. SEE SCG 1994 SURVEY  
APPENDIX*



LINE: 80E