

DU PONT OF CANADA EXPLORATION LIMITED

GEOCHEMICAL REPORT

KULTA REGIONAL STREAM SEDIMENT

SAMPLING PROGRAM

IN THE

DEASE LAKE AND TAGISH LAKE AREAS

OF

BRITISH COLUMBIA

~~DEASE LAKE AREA: Liard and Atlin M.D., N.T.S. 104 J, O~~
TAGISH LAKE AREA: Atlin M.D., N.T.S. 104-M

59°30. 134°30

JT Neelands
1982 March

FILMED



Geological Survey Branch
Assessment Report Indexing System



[ARIS13C]

ARIS Summary Report

Regional Geologist, Smithers

Date Approved: 1996.03.27

Off Confidential: 1983.04.15

ASSESSMENT REPORT: 16381

Mining Division(s): Atlin

Property Name: Tagish Lake Regional Survey

Location: Latitude: 59 30 00 Longitude: 134 30 00

UTM: 08 6595628 528310

NTS: 104M07E 104M08W 104M09W 104M10E

Camp:

Claim(s): Tagish Lake Regional Survey

Operator(s): Du Pont of Canada Exploration Limited

Author(s): Neelands, J. T.

Report Year: 1982

No. of Pages: 28 Pages

Commodities

Searched For: Copper, Molybdenum/Molybdenite, Lead, Zinc, Silver, Gold

General GEOC

Work Categories:

Work Done: Geochemical

SILT Silt (260 sample(s)); No. of maps : 15 ; Scale(s) : 1:50 000

Elements Analyzed For : Copper, Molybdenum/Molybdenite, Lead, Zinc, Silver, Gold, Manganese

Keywords: Intermontane Belt, Coast Belt, Gold

Statement Nos.:

MINFILE Nos.:

Related Reports:

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Ku-81-39 to Ku 81-53 Stream Sediment Sample Results

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INTRODUCTION

During the period 1981 May 19 to 1981 June 8 reconnaissance stream sediment sampling was carried out in the Dease Lake and Tagish Lake areas. A total of 633 20 kgm stream sediment samples were collected and as a result 29 properties were staked to cover the drainage of the anomalies. This report describes the method of sampling, analysis and interpretation. Another report titled "Kulta Follow-Up" describes work on 22 properties.

Location and Access

The two areas sampled and their aerial extent are located on Drawings 81-1, 1a. The villages of Dease Lake and Atlin were used as base camps since they provided fuel, food, accomodation and communication. Access to sample sites was exclusively by helicopter provided by Viking Helicopters Ltd. based in Prince George. The area covered from Dease Lake consisted of 9,300 sq km and from Atlin 3,900 sq km.

Table I
Areas Sampled and Sample Density

<u>Name of Sample Area</u>	<u>Base Camp Location</u>	<u>Aerial Extent (km²)</u>	<u>Areas Sampled</u>	<u>No. of Samples</u>	<u>Sample Density</u>
Dease Lake	Dease Lake	9,300	104J-1 to 5, 104J-7, 8, 16, 1040-2, 3, 5, 6	373	25 sq km
Tagish Lake	Atlin	3,900	104ME, 8, 9, 10E, 15, 16	260	15 sq km

The Cassiar-Stewart Highway skirts the east edge of Dease Lake area and the Skagway-Carcross Highway crosses the northwest corner of the Tagish Lake area.

**GEOLOGIC BRANCH
ASSESSMENT REPORT**

16,381

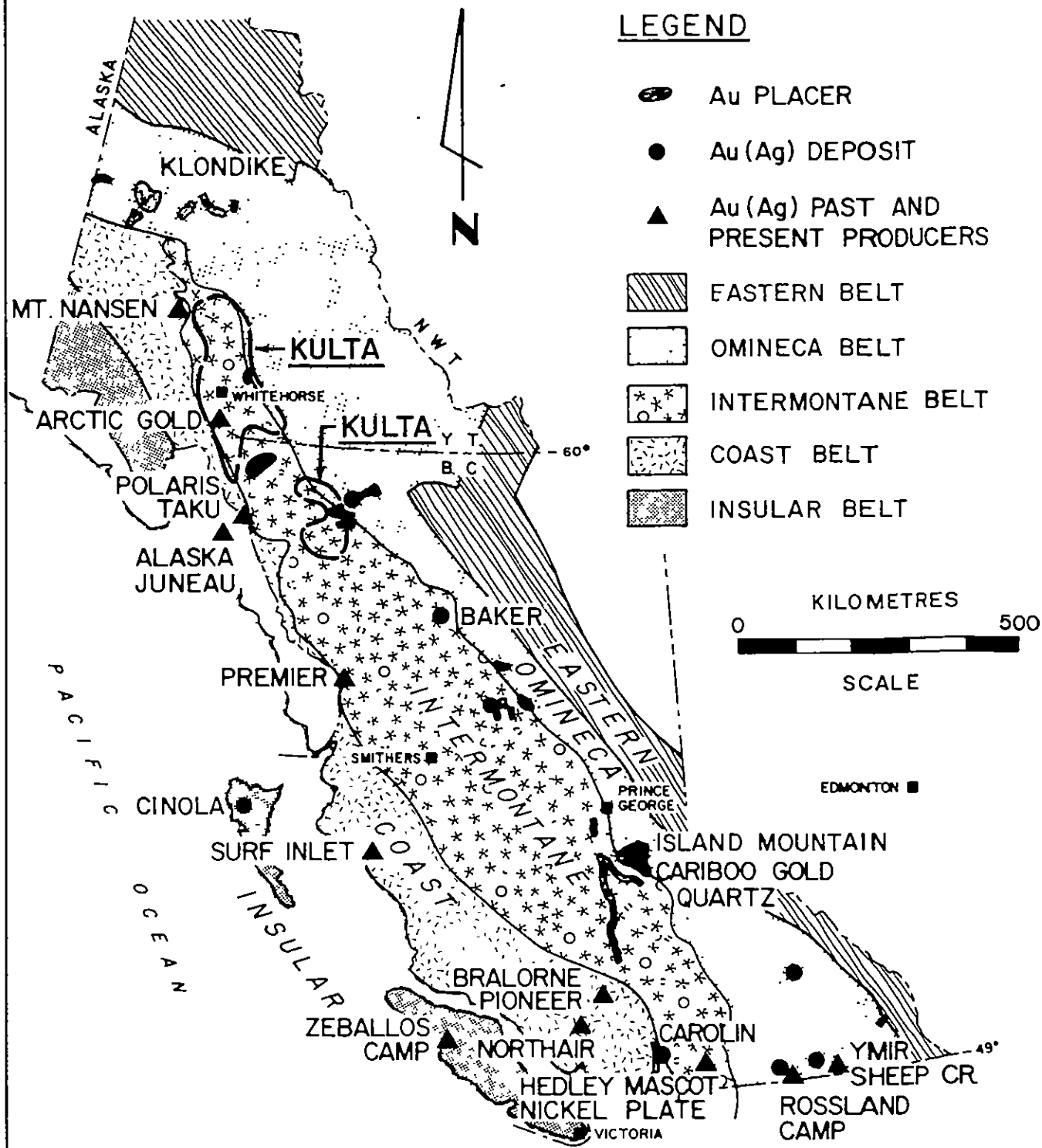
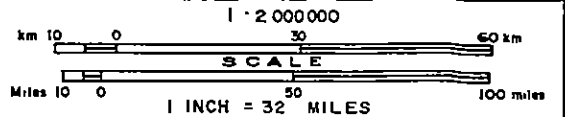


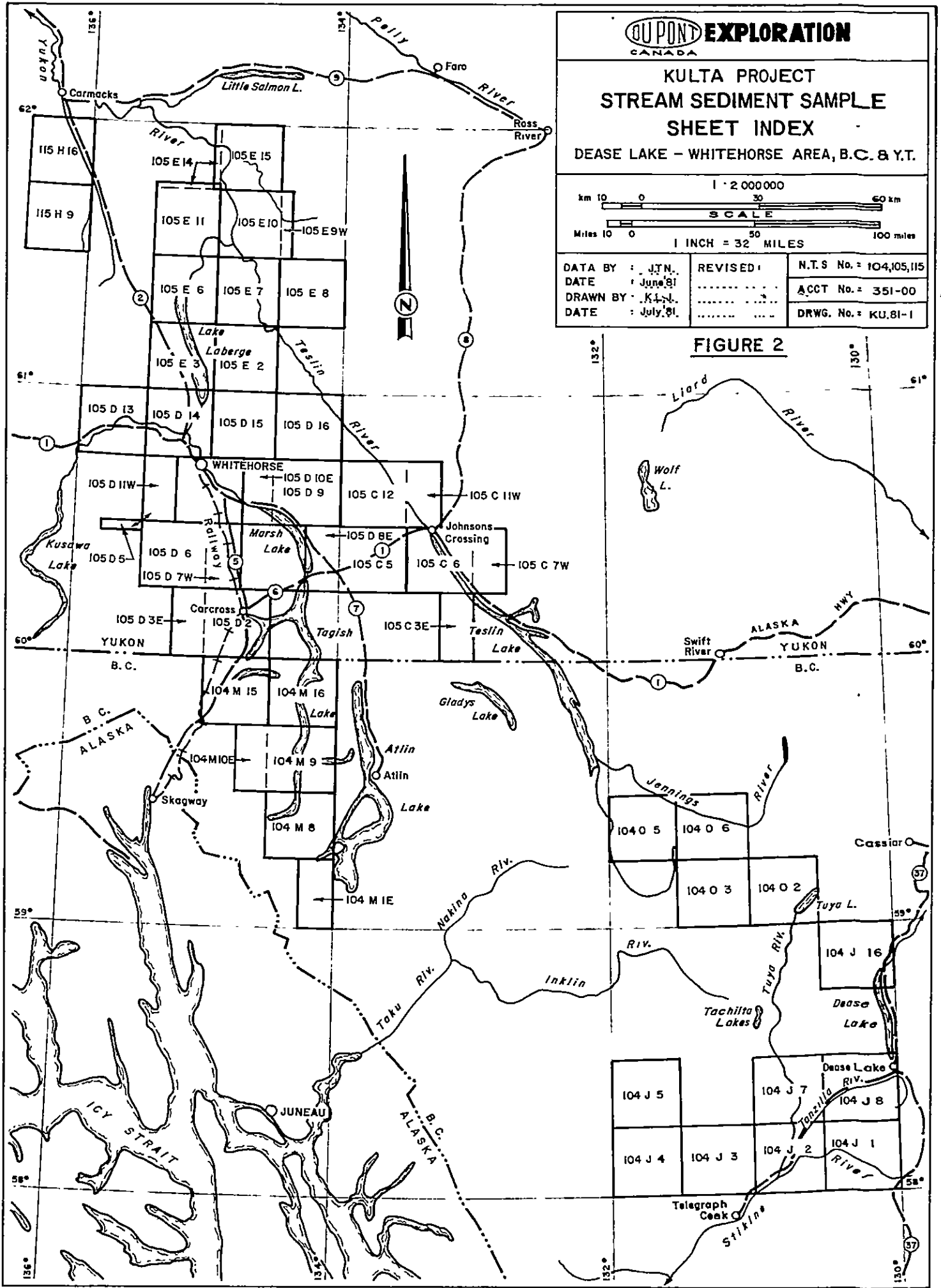
FIGURE 1
KULTA PROJECT AREAS
 PRINCIPAL LODE & PLACER GOLD DEPOSITS
 CANADIAN CORDILLERA

**KULTA PROJECT
STREAM SEDIMENT SAMPLE
SHEET INDEX**
DEASE LAKE - WHITEHORSE AREA, B.C. & Y.T.



DATA BY : J.T.N.	REVISED :	N.T.S. No. = 104,105,115
DATE : June 81	ACCT No. = 351-00
DRAWN BY : K.L.S.	DRWG. No. = KU.81-1
DATE : July 81	

FIGURE 2



Geography and Physiography

The Dease Lake area is located along the eastern margin of the Coast Range Mountains and the Tagish Lake area is located within them. The Dease Lake area consists mainly of gently sloped mountains which vary in elevation from 750m to 1,850m. Drainage is to the southwest into the Stikine River. The Tagish Lake area is characterised by V-shaped valleys, minor glaciation, long linear lakes (such as Bennet, Tutshi, Tagish and Atlin) and elevation variations similar to the Dease Lake area. Drainage is to the north to the Yukon River. Though forest cover is greatest in the Dease Lake area no commercial lumbering exists.

Economic Assessment of the Areas

The Dease Lake area contains numerous placer operations near the Teslin Fault and the Atlin Lake area contains lode gold in Pre Permian metamorphic rocks, Triassic and Jurassic sediments and volcanics and Cretaceous intrusives. The Atlin area contains the Engineer and Venus deposits.

Summary of Work Performed

The sampling commenced on 1982 May 1 and was completed by 1982 June 8. The sampling utilized two helicopters and sample preparation was completed by a crew which varied in number from 16 to 18 persons. Each 10 kgm sample was wet-sieved in the field using 2 Sweco sieves. Maps were drafted in the field excluding margin, legend and title block.

GEOCHEMICAL SURVEY

Sample Collection and Preparation

Two sampling crews were utilized. Each crew consisted of a Hughes 500D helicopter, a pilot, a navigator/spotter and three samplers. The helicopters had special belly pots for transporting samples and extra fuel. Stream samples were collected at variable spacings in the search area, depending on the pre-determined geology and local ground conditions. Details of the sampling density are listed in Table I. The navigator radio-dispatched the samplers in a chopper-hopper fashion to pre-selected sample sites. Optimum sample sites in the stream were located at the break in slope at a point of high fluid energy, e.g. the leading slip edge of a gravel bar.

The material was collected with aluminum scoops and was placed in numbered plastic bags. Details of sample texture, origin, colour and stream width and velocity were recorded on special information tags and attached to the bags. A flag bearing the sample number was placed at the collection site.

Each 10 kgm sample was wet-sieved and the +10 mesh fraction was logged according to the rock type, abundance of ore associated gangue (e.g. quartz) and the roundness. The -10 mesh fraction was sent to Min-En Laboratories Ltd. in North Vancouver for separation, concentration and analysis. The sample was first divided into a -10 +80 mesh fraction and a -80 mesh fraction. The heavies (sink and middling) in 400 gms of the coarser fraction were concentrated in tetrabromoform (S.G. 2.96) and analyzed for Cu, Ag and Au. The weight of heavies in the sample was recorded as a percent of the original weight concentrated. The value of gold recorded for the coarse fraction is the amount of gold in the concentrate and, therefore does not represent the amount of gold in the whole sample. After pulverizing, a 10 gm portion of the -80 mesh was analyzed for Mo, Cu, Pb, Zn, Ag, Mn and Au.

Analytical Procedure

The details of the analytical procedures for the determination of the elements are given in Appendix I.

Results

i) Maps

The analytical data derived from the samples is plotted on the maps accompanying this report. The scale of these maps is 1:50,000 and the accuracy of the sample location shown is estimated to be within 100m.

.ii) Statistics

Initially, cumulative frequency tables were created for each element and an upper cut off point of 95 cumulative per cent was arbitrarily established to produce comprehensive histograms. The histograms and samples greater than 95 percent are recorded in Appendix I.

Table II shows the correlation coefficients for all the elements and the per cent of heavy minerals for all the samples.

Table II

Correlation Coefficients for Mo, C1(CuCHM), C2(AuF), Pb, Zn, Ni, S1(AgCHM), S2(AgF), Mn, G1(AuCHM), G2(AuF), HM(%Hm).

<u>LABEL</u>	<u>MO</u>	<u>C1</u>	<u>C2</u>	<u>PB</u>	<u>ZN</u>	<u>NI</u>	<u>S1</u>	<u>S2</u>	<u>MN</u>	<u>G1</u>	<u>G2</u>	<u>HM</u>
MO	100	6	12	3	43		1	4	3		-2	-3
C1	6	100	58	6	10		6	11	3	2	-1	-5
C2	12	58	100	3	19		1	17	21		-2	23
PB	3	6	3	100			97	81	-3	44	10	-3
ZN	42	10	19		100			8	34	2	-3	-15
NI												
S1	1	6	1	97			100	78	-4	44	9	-5
S2	4	11	17	81	8		78	100	6	34	8	6
MN	3	3	21	-3	34		-4	6	100	-3		4
G1		2		44	2		44	34	-3	100	4	-3
G2	-2	-1	-2	10	-3		9	8		4	100	1
HM	-3	-5	23	-3	-15		-5	6	4	-3	1	100

Table III contains the values used to categorize anomalies.

Table IIIBackground and Threshold

<u>Element</u>	<u>No. of Samples</u>	<u>Mean ppm</u>	<u>Median Background ppm</u>	<u>Standard Deviation</u>	<u>95% Threshold ppm</u>
Mo	625	1.8	1	1.39	4
Cu(C1)CHm	598	44.5	38	27.39	150
Cu(C2)F	621	35.9	32	21.15	80
Pb	622	16.3	15	7.08	30
Zn	598	67.0	65	23.77	150
Ag(S1)CHm	623	1.04	1.0	0.50	2.5
Ag(S2)F	628	0.71	1.0	0.32	1.6
Mn	602	589.6	570	232.6	1200
Au(G1)CHm	588	8.21	5	5.22	25
Au(G2)F	579	6.2	5	4.66	15
%HM			6.0%		

INTERPRETATION

The interpretation of anomalous samples is based on the statics derived from Table III. The most interesting samples are those that contain 2 or more anomalous values. The follow-up results of twenty-two anomalies staked are described in one assessment report. Seven other anomalies which at present are more interesting are described in reports which bear the following claim names Halt, Crine, Selly, Tuts, Shui, Gaug and Ange.

COST STATEMENT(a) Wages

<u>Geologists</u>	<u>Daily Rate</u>	<u>Dates</u>	<u>No. of Days</u>	<u>Cost</u>
3	\$150.00	May 19-June 8	57	\$ 8,559.24
<u>Field Assistants</u>				
5	54.46	May 19-June 8		\$ 5,718.72
4	61.68	May 19-June 6		4,687.30
2	50.08	May 19-June 4		1,702.72
4	57.12	May 19-31		2,970.36
2	61.41	June 1-8		982.48
				<u>\$ 24,620.82</u>

(b) Room and Board

<u>Area</u>	<u>Per Diem Rates</u>	<u>Dates</u>	<u>No. of Days</u>	<u>No. of Person</u>	<u>Cost</u>
Atlin	55.00	May 19-23	5	17	\$ 2,890.00
Dease Lake	40.00	May 24-June 8	15	8	4,800.00
		May 24-June 6	13	4	2,080.00
		May 24-31	8	2	640.00
		June 1-8	8	2	640.00
					<u>\$ 11,050.00</u>

(c) Transportation

To the field area and ground support					
C.P. Air - Van to Whitehorse return					\$ 7,400.00
Twenty personnel @ \$370.00					
Truck Rental (Avis-Whitehorse)					
1 Van @ \$204.00/wk, 23¢/km including fuel					1,200.00
1 Crew cab @ \$216.00/wk, 25¢/km including fuel					1,550.00
Company truck					
May 24-June 8 15 days @ \$30/day					450.00
					<u>\$ 10,600.00</u>

ii) In support of field work

All flying by Viking Helicopters Ltd of Prince George at a \$407.50/hr (including fuel) in May and \$432.50/hr in June.

<u>Atlin May 19-23</u>				
CRYU	34.5 hrs			\$ 14,058.75
CRYK	27.6 hrs			11,247.00

Dease May 24-June 8

CRYK	May 24-31	38.0 hrs	\$ 15,485.00
CRYU	May 24-31	38.0 hrs	\$ 15,485.00
	June 1-8	44.2 hrs	\$ 19,116.50
			<u>\$ 73,392.25</u>

(d) Equipment Rental

Air Compressor 1 month	\$ 240.00
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(e) Analytical Services

All samples stream sediment

Atlin Area

No. of samples - 260

Sample Preparation, drying and pulverization @ \$1.85/sample	\$ 481.00
HM concentrating (flotation) @ \$20.00/sample	7,460.00
Coarse fraction: Cu, Ag, Au \$7.90/sample	2,054.00
Fine fraction: Cu, Ag, Au, Pb, An, Mn, Mo, @ \$11.50	2,990.00
	<u>\$ 10,725.00</u>

Dease Lake Area

No. of samples - 373

Sample Preparation, drying and pulverization @ \$1.85/sample	\$ 690.00
HM concentrating (flotation) @ \$20.00/sample	7,460.00
Coarse fraction: Cu, Ag, Au, \$7.90/sample	2,946.70
Fine fraction: Cu, Ag, Au, Pb, Zn, Mn, Mo @ \$11.50	4,285.90
	<u>\$ 15,382.60</u>

Sample shipping	\$ 1,086.78
-----------------	-------------

Report Preparation

	<u>Daily Rate</u>	<u>Dates</u>	<u>No. of Days</u>	<u>Cost</u>
Drafting	\$90.00	August 17-Sept 30	50	\$ 4,500.00
Typing	\$95.00	March 23	1	95.00
Map Reproduction	144 maps @ 16¢/sq. ft.			138.24
				<u>\$ 238.24</u>
GRAND TOTAL				<u>\$147,335.69</u>

Dease 60%

Atlin 40%

REFERENCES

Assessment Report - 1981, Harron, G.A., Du Pont of Canada Exploration Limited, Geochemical Report, Heavy Mineral Sampling for Gold in Five Areas of British Columbia - Taseko, Cry Lake, Telegraph Creek, Iskut and Chappelle.

QUALIFICATIONS

I, John Thomas Neelands, do hereby certify that:

1. I am a geologist residing at 118-B West 14th Avenue, Vancouver, British Columbia and am employed by Du Pont of Canada Exploration Limited.
2. I am a graduate of Carleton University with a B.Sc. degree in geology.
3. I am an Associate of the Geological Association of Canada.
4. I have practiced my profession in geology continuously for the past 10 years in various provincial jurisdictions in Canada.
5. Between 1981 May and 1982 June, I supervised and participated in the field programme described in this report on behalf of Du Pont of Canada Exploration Limited



J.T. Neelands
1982 April 15

APPENDIX I

ANALYTICAL PROCEDURE

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke

705 WEST 15th STREET

NORTH VANCOUVER, B.C.

CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5. ppb.

*MIN-EN Laboratories Ltd.**Specialists in Mineral Environments*Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADAANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORKPROCEDURES FOR Mo, Cu, Cd, Pb, Mn, Ni, Ag, Zn, As, F

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling samples are diluted to standard volume. The solutions are analyzed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the CH_2H_2 -Air flame combination but the Molybdenum determination is carried out by C_2H_2 - N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzeit method using $\text{Ag CS}_2\text{N} (\text{C}_2\text{H}_5)_2$ as a reagent. The detection limit obtained is 1.2 ppm.

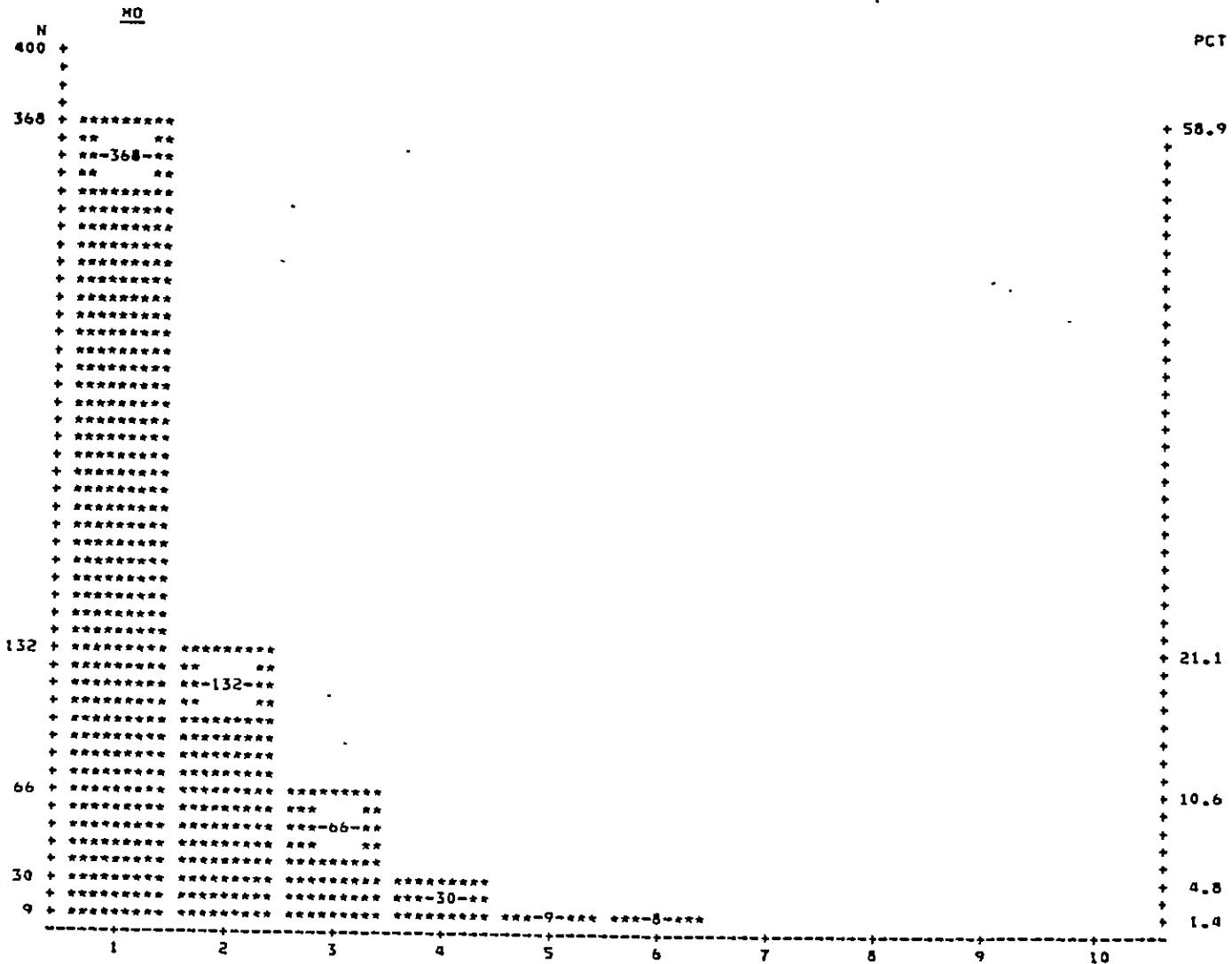
Fluorine analysis is carried out on a 200 milligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soil samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is 10 ppm F.

APPENDIX II

HISTOGRAMS AND SAMPLE DATA FOR
Cu, Pb, Zn, Ag, Au, Mn and Mo.

MAP SHEETS 104: HISTOGRAMS WITH CUTOFFS.
 N=625 BARS=10 MEAN=1.8256 SD=1.39481

FILE PSYS

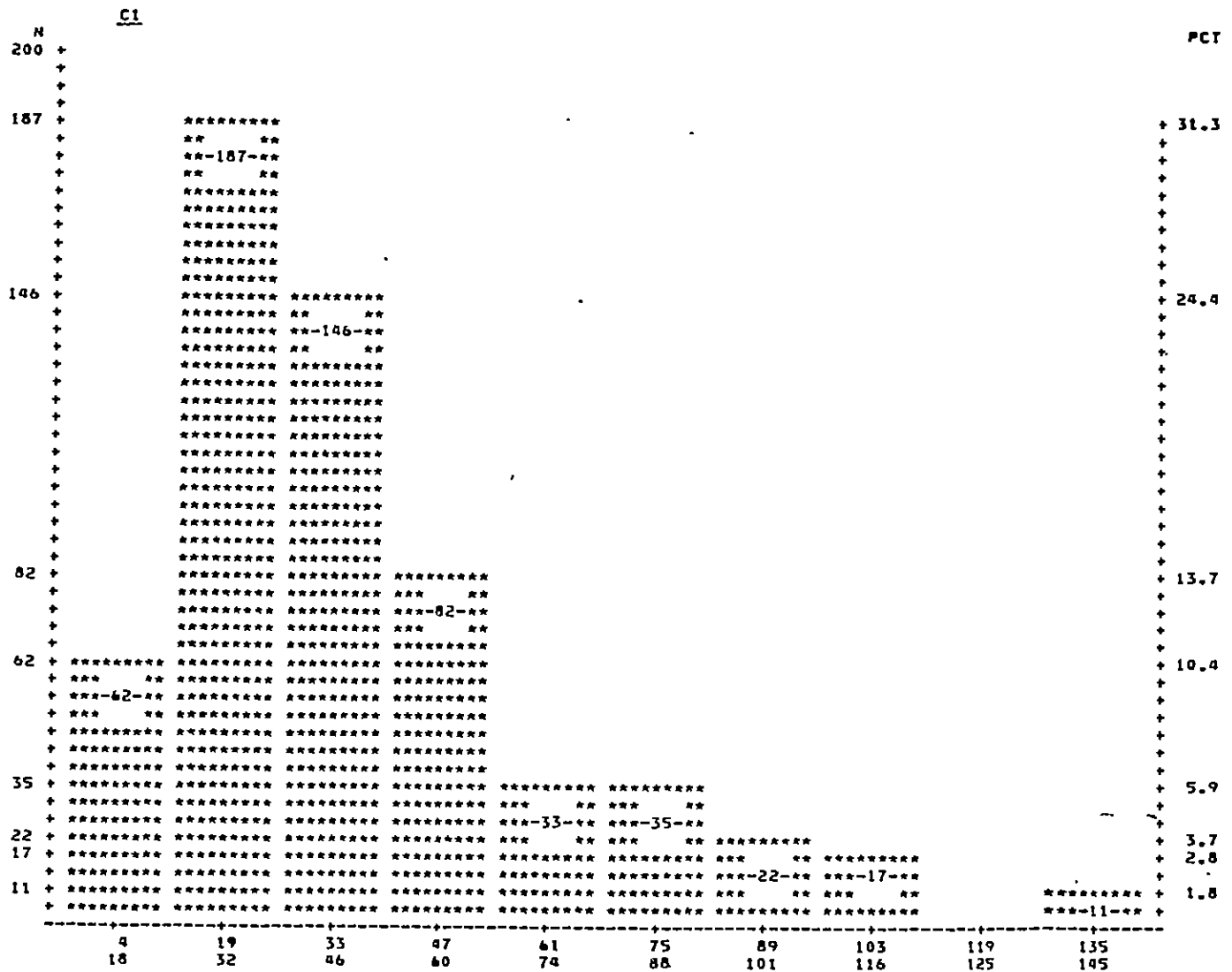


LISTING OF SAMPLES WITH MOLYBDENUM GREATER THAN 4 PPM: MAP SHEETS 104

SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F.	H.M. X
5064	D 104H/15	163.0	258.0	5.0	95.0	79.0	42.0	302.0*****		1.5	1.2	650.0	5.0	5.0	7.5
5065	D 104H/15	150.0	255.0	5.0	88.0	63.0	30.0	186.0*****		1.4	1.2	450.0	10.0	5.0	5.8
5067	D 104H/15	120.0	310.0	28.0	175.0	102.0	43.0	495.0*****		2.3	1.5	695.0	5.0	5.0	3.8
5084	D 104H/15	122.0	317.0	14.0	175.0	84.0	36.0	336.0*****		2.3	1.2	745.0	5.0	5.0	3.8
5089	D 104H/15	193.0	250.0	8.0	46.0	43.0	18.0	54.0*****		1.0	.7	360.0	5.0	30.0	6.6
6646	D 104H/9	388.0	2.0	6.0	79.0	42.0	24.0	68.0*****		1.1	1.0	590.0	155.0	5.0	6.3
6663	D 104H/15	118.0	427.0	4.0	30.0	15.0	20.0	67.0*****		1.1	.8	615.0	5.0	5.0	2.3
6698	D 104J/5E	409.0	657.0	4.0	44.0	44.0	12.0	84.0*****		1.3	.8	990.0	5.0	5.0	3.4
6830	D 104J/8	373.0	71.0	4.0	36.0	45.0	23.0	120.0*****		.8	.5	535.0	15.0	10.0	3.4
6838	D 104H/8	408.0	880.0	6.0	16.0	9.0	10.0	45.0*****		.5	.3	745.0	5.0	5.0	2.1
7087	D 104J/2	984.0	301.0	4.0	32.0	26.0	12.0	73.0*****		.9	.6	665.0	15.0	5.0	6.2
7540	D 104H/9	403.0	218.0	4.0	164.0	88.0	21.0	82.0*****		1.7	.6	440.0	540.0	20.0	2.9
7545	D 104H/9	321.0	994.0	4.0	42.0	43.0	16.0	76.0*****		.6	.6	480.0	20.0	5.0	7.8
7688	D 104J/7	839.0	648.0	5.0	28.0	26.0	12.0	60.0*****		.8	.5	620.0	10.0	5.0	6.0
7691	D 104J/7	916.0	769.0	5.0	28.0	22.0	11.0	67.0*****		1.7	.4	950.0	3450.0	5.0	3.8
7711	D 104J/3	724.0	673.0	10.0	15.0	11.0	9.0	74.0*****		.6	.4	390.0	5.0	5.0	2.2
7712	D 104J/3	779.0	593.0	6.0	31.0	15.0	11.0	97.0*****		.8	.2	520.0	5.0	10.0	3.7
8200	D 104J/5E	405.0	760.0	4.0	64.0	57.0	15.0	108.0*****		1.3	.6	1350.0	5.0	5.0	4.2
8201	D 104J/5E	436.0	757.0	4.0	39.0	42.0	15.0	124.0*****		1.1	.3	300.0	5.0	5.0	3.5
8212	D 104J/5E	411.0	858.0	5.0	38.0	55.0	22.0	340.0*****		1.3	.9	850.0	5.0	5.0	4.3
8216	D 104J16E	334.0	295.0	5.0	40.0	51.0	51.0	72.0*****		.7	.9	910.0	10.0	10.0	21.6
8328	D 104H/9	207.0	235.0	5.0	48.0	39.0	20.0	57.0*****		1.2	.7	295.0	5.0	10.0	7.0
8361	H 104J/1W	196.0	546.0	4.0	20.0	27.0	11.0	109.0*****		.7	.4	545.0	15.0	10.0	3.0

LISTING OF SAMPLES WITH MOLYBDENUM GREATER THAN 4 PPM: MAP SHEETS 104

SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM		CU GHM F		LEAD	ZINC	NICKEL		SILVER		MAN GANESE	GOLD		M.M. I
				GHM	F	CHM	F			CHM	F	CHM	F				
9616 D	104J/4E	467.0	398.0	6.0	99.0	102.0	19.0	83.0*****	.9	1.1	680.0	15.0	5.0	7.9			
9628 D	104J/5W	330.0	666.0	4.0	37.0	31.0	13.0	77.0*****	.9	.7	530.0	5.0	10.0	8.0			
9677 B	104J/4E	441.0	479.0	4.0	58.0	56.0	15.0	46.0*****	.6	.8	470.0	5.0	5.0	18.0			
9689 B	104J/16E	408.0	279.0	4.0	37.0	22.0	5.0	51.0*****	1.1	.7	480.0	15.0	5.0	8.8			
9693 B	104J/16E	303.0	202.0	6.0	66.0	51.0	18.0	164.0*****	1.5	.5	860.0	5.0	5.0	3.6			
9701 B	104H/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0*****	3.1	1.8	990.0	20.0	35.0	7.1			
9720 B	104J/8	291.0	691.0	4.0	178.0	78.0	12.0	46.0*****	.9	.6	620.0	20.0	5.0	6.6			
9812 B	104J/8	313.0	793.0	4.0	93.0	47.0	16.0	86.0*****	1.0	.7	720.0	5.0	10.0	1.3			
9891 B	104J/5E	402.0	625.0	4.0	138.0	62.0	25.0	105.0*****	1.3	1.0	1350.0	5.0	420.0	9.9			
9951 D	104J/16E	408.0	203.0	4.0	36.0	30.0	13.0	64.0*****	.7	.4	580.0	5.0	5.0	11.7			
9959 D	104J/16W	192.0	362.0	4.0	46.0	44.0	16.0	51.0*****	.8	.8	610.0	5.0	5.0	16.1			
9952 D	104H/8	473.0	742.0	4.0	24.0	16.0	17.0	47.0*****	.7	.6	320.0	5.0	10.0	13.3			
9961 D	104H/15	136.0	439.0	6.0	250.0	41.0	56.0	128.0*****	4.6	1.7	670.0	15.0	5.0	1.4			
9962 D	104H/15	89.0	432.0	7.0	137.0	68.0	52.0	80.0*****	2.6	1.9	570.0	25.0	10.0	5.7			
9964 D	104H/15	139.0	394.0	11.0	400.0	73.0	50.0	85.0*****	2.3	.8	650.0	20.0	5.0	.9			
9995 D	104J/7	117.0	756.0	7.0	36.0	48.0	16.0	207.0*****	.8	.5	820.0	10.0	5.0	5.9			
9114 D	104J/3W	371.0	541.0	4.0	32.0	52.0	14.0	55.0*****	.8	.6	1200.0	25.0	10.0	5.0			
9115 D	104J/4E	480.0	365.0	8.0	41.0	99.0	20.0	89.0*****	.7	1.1	920.0	5.0	10.0	18.9			
9116 D	104J/4E	440.0	395.0	4.0	55.0	121.0	27.0	65.0*****	1.0	1.4	710.0	10.0	5.0	47.3			
9117 D	104J/4E	422.0	439.0	7.0	41.0	81.0	29.0	66.0*****	.8	1.4	740.0	5.0	5.0	28.8			
9118 D	104J/4E	456.0	507.0	6.0	38.0	75.0	31.0	67.0*****	.5	1.3	730.0	5.0	5.0	25.2			
9133 D	104U/6	680.0	760.0	10.0	29.0	18.0	5.0	78.0*****	1.0	.4	550.0	5.0	5.0	1.9			
9136 D	104O/3	847.0	676.0	4.0	26.0	13.0	17.0	355.0*****	1.1	.2	400.0	5.0	5.0	1.0			
9137 D	104O/2	922.0	607.0	4.0	20.0	19.0	11.0	90.0*****	.7	.4	480.0	5.0	5.0	5.2			
9333 D	104H/8	378.0	885.0	33.0	40.0	34.0	27.0	44.0*****	.9	.9	510.0	5.0	10.0	11.8			
9363 D	104J/7	24.0	818.0	9.0	54.0	44.0	16.0	178.0*****	.8	.6	610.0	10.0	5.0	5.5			
9373 D	104J/4W	319.0	583.0	4.0	143.0	59.0	11.0	36.0*****	1.1	.8	655.0	15.0	5.0	5.8			
9390 D	104U/6	787.0	701.0	6.0	34.0	13.0	4.0	79.0*****	1.3	.1	310.0	10.0	5.0	.9			
9392 D	104O/3	836.0	636.0	8.0	32.0	12.0	12.0	160.0*****	1.5	.1	570.0	5.0	5.0	.8			
9393 D	104U/2	915.0	681.0	5.0	26.0	25.0	11.0	120.0*****	.9	.3	610.0	5.0	5.0	.8			
9397 D	104J/16W	166.0	375.0	7.0	52.0	49.0	19.0	76.0*****	.7	.8	645.0	10.0	20.0	9.0			
9399 D	104J/16W	240.0	296.0	20.0	61.0	80.0	18.0	66.0*****	.7	.8	495.0	10.0	5.0	7.7			
9400 D	104J/16W	240.0	215.0	4.0	52.0	39.0	20.0	86.0*****	1.1	.8	570.0	5.0	5.0	7.1			
9406 D	104O/2	943.0	621.0	4.0	25.0	22.0	14.0	160.0*****	1.4	.4	1110.0	5.0	5.0	15.6			
9426 D	104J/16E	231.0	188.0	5.0	78.0	59.0	12.0	102.0*****	1.3	.6	590.0	5.0	5.0	5.2			
9428 D	104J/16E	288.0	203.0	5.0	64.0	46.0	12.0	99.0*****	1.6	.9	710.0	10.0	5.0	7.7			
9580 D	104H/15	132.0	247.0	4.0	40.0	22.0	16.0	59.0*****	1.5	.9	385.0	5.0	25.0	2.7			
9588 D	104H/15	29.0	411.0	9.0	100.0	14.0	20.0	53.0*****	.5	.7	300.0	10.0	5.0	.0			
9589 D	104H/15	31.0	413.0	4.0	16.0	14.0	30.0	65.0*****	1.0	.7	265.0	115.0	5.0	2.6			
9601 D	104J/2	924.0	498.0	4.0	43.0	47.0	20.0	83.0*****	1.0	.9	700.0	10.0	10.0	20.9			
9602 D	104J/2	951.0	576.0	4.0	31.0	22.0	11.0	50.0*****	.8	.5	495.0	10.0	10.0	4.5			
9608 D	104J/3W	375.0	551.0	4.0	493.0	392.0	19.0	63.0*****	1.0	1.4	1110.0	100.0	65.0	17.5			
9612 D	104H/16	518.0	312.0	4.0	15.0	32.0	22.0	78.0*****	.3	1.1	800.0	10.0	5.0	6.4			



LISTING OF SAMPLES WITH COPPER GREATER THAN 150 PPM: MAP SHEETS 104

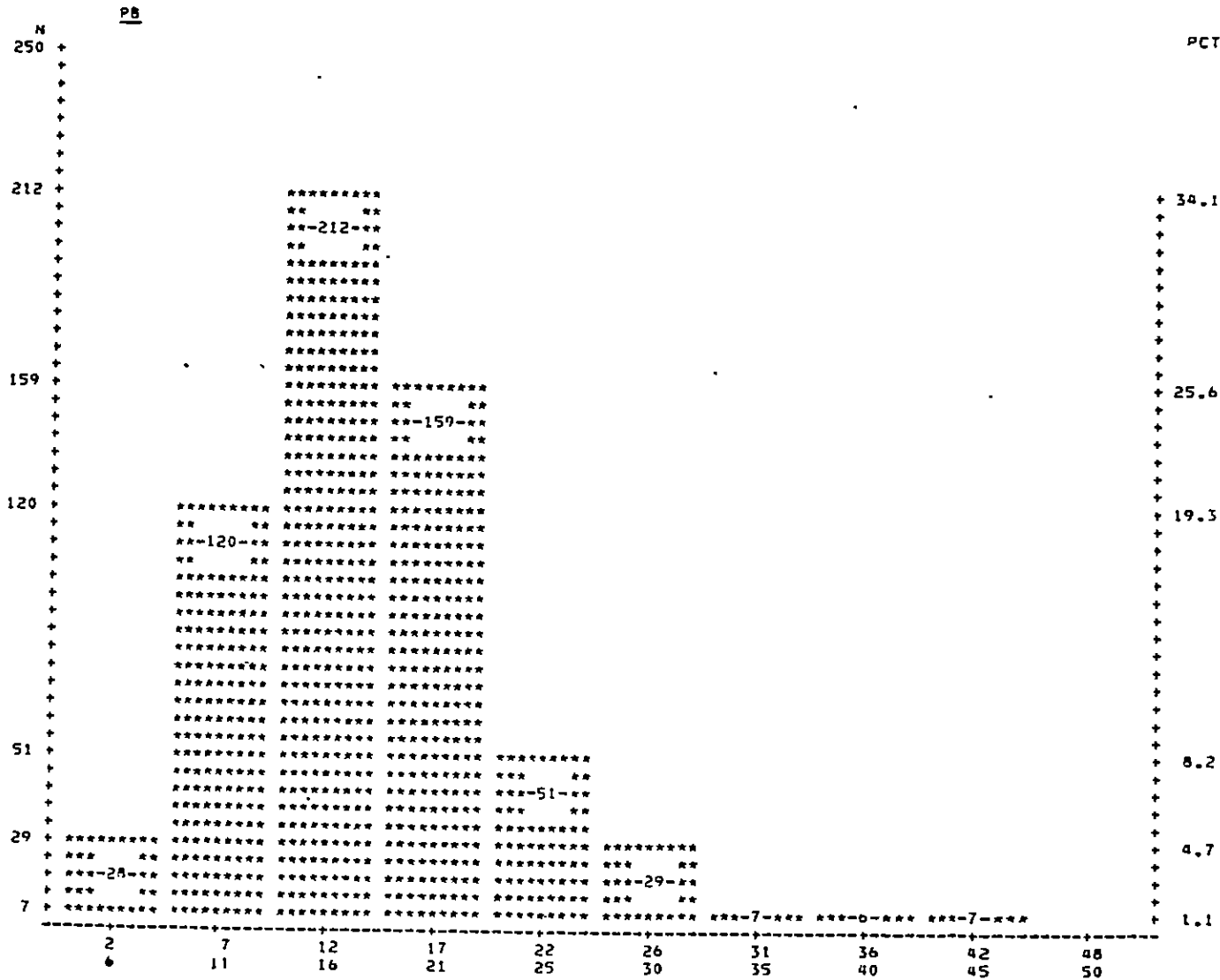
SAMPLE NO	NTS SHEET	EAST	NORTH	HOLYS DENUH	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. X
5062 D	104M/9	234.0	211.0	1.0	460.0	78.0	53.0	138.0	*****	5.5	1.0	720.0	15.0	15.0	.9
5067 D	104M/15	120.0	310.0	28.0	175.0	102.0	43.0	495.0	*****	2.3	1.5	695.0	5.0	5.0	3.8
5084 D	104M/15	122.0	317.0	14.0	175.0	84.0	36.0	336.0	*****	2.3	1.2	745.0	5.0	5.0	3.8
5088 D	104M/15	144.0	251.0	3.0	200.0	83.0	50.0	122.0	*****	3.0	1.7	690.0	45.0	10.0	2.0
6654 D	104M/9	382.0	176.0	1.0	470.0	59.0	19.0	70.0	*****	2.3	.6	330.0	35.0	100.0	1.7
6659 D	104M/15	39.0	427.0	1.0	300.0	24.0	92.0	154.0	*****	1.5	.8	340.0	90.0	5.0	5.6
6665 D	104M/15	145.0	412.0	3.0	250.0	32.0	25.0	64.0	*****	2.2	.8	410.0	15.0	5.0	1.0
6849 D	104M/1E	571.0	646.0	3.0	2800.0	375.0	20.0	76.0	*****	2.1	1.2	565.0	15.0	5.0	6.4
7056 D	104M/9	546.0	154.0	1.0	152.0	18.0	18.0	61.0	*****	1.1	.3	285.0	25.0	5.0	1.1
7100 D	104J/4W	363.0	350.0	1.0	230.0	161.0	24.0	100.0	*****	.8	1.4	1200.0	15.0	5.0	10.3
7535 D	104M/8	494.0	938.0	1.0	385.0	32.0	59.0	161.0	*****	2.7	1.2	650.0	15.0	5.0	.8
7540 D	104M/9	403.0	218.0	4.0	164.0	88.0	21.0	82.0	*****	1.7	.6	440.0	540.0	20.0	2.9
7541 D	104M/9	305.0	182.0	3.0	290.0	86.0	24.0	86.0	*****	1.8	.9	510.0	30.0	5.0	.6
7695 D	104J/4E	465.0	525.0	1.0	530.0	262.0	28.0	54.0	*****	3.9	1.3	1290.0	75.0	50.0	2.8
8349 B	104J/1	489.0	331.0	2.0	205.0	56.0	14.0	74.0	*****	1.2	.5	710.0	745.0	10.0	5.9
8350 B	104J/1	267.0	420.0	1.0	170.0	69.0	23.0	94.0	*****	1.3	1.0	1070.0	15.0	5.0	8.5
8351 B	104J/1	254.0	452.0	1.0	179.0	32.0	18.0	86.0	*****	1.2	.9	2850.0	10.0	5.0	8.3
9046 D	104M/1E	569.0	640.0	1.0	210.0	15.0	25.0	60.0	*****	1.0	.6	390.0	15.0	10.0	.6
9061 D	104M/15	136.0	439.0	6.0	250.0	41.0	56.0	128.0	*****	4.6	1.7	670.0	15.0	5.0	1.8
9064 D	104M/15	139.0	394.0	11.0	400.0	73.0	50.0	85.0	*****	2.3	.8	650.0	20.0	5.0	.9
9109 D	104J/3W	623.0	419.0	2.0	163.0	64.0	14.0	61.0	*****	1.3	.7	780.0	25.0	140.0	8.5
9110 D	104J/3W	599.0	434.0	1.0	173.0	35.0	10.0	67.0	*****	1.9	.3	450.0	5.0	5.0	3.2
9123 D	104J/4W	359.0	343.0	1.0	164.0	148.0	29.0	146.0	*****	.9	1.3	1560.0	5.0	10.0	8.0
9372 D	104J/4W	377.0	582.0	3.0	400.0	440.0	18.0	107.0	*****	.7	1.2	1130.0	20.0	5.0	17.0
9605 D	104J/4E	484.0	520.0	3.0	512.0	444.0	32.0	105.0	*****	1.5	1.5	1060.0	25.0	30.0	7.3
9608 D	104J/4W	375.0	551.0	8.0	493.0	392.0	19.0	68.0	*****	1.0	1.4	1110.0	100.0	65.0	17.5
9681 B	104J/5W	274.0	763.0	1.0	442.0	65.0	21.0	56.0	*****	1.4	.8	870.0	10.0	5.0	4.3
9683 B	104J/5W	312.0	733.0	1.0	211.0	110.0	22.0	86.0	*****	1.5	1.0	1120.0	20.0	5.0	2.0
9701 B	104M/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0	*****	3.1	1.8	990.0	20.0	35.0	7.1
9702 B	104M/15	39.0	427.0	3.0	170.0	41.0	2220.0	35.0	*****	220.0	17.3	215.0	5800.0	850.0	1.4
9720 B	104J/8	291.0	691.0	4.0	178.0	78.0	12.0	46.0	*****	.9	.6	620.0	20.0	5.0	6.6
9857 B	104J/3E	691.0	328.0	1.0	181.0	95.0	23.0	87.0	*****	1.4	1.4	970.0	15.0	140.0	4.8
9860 B	104J/4W	376.0	367.0	1.0	213.0	136.0	26.0	89.0	*****	1.4	1.2	980.0	20.0	10.0	12.5

C2

N	PC1
197	31.7
147	23.7
138	22.2
76	12.2
31	5.0
16	2.6
11	1.8

LISTING OF SAMPLES WITH COPPER GREATER THAN 80 PPM: MAP SHEETS 104

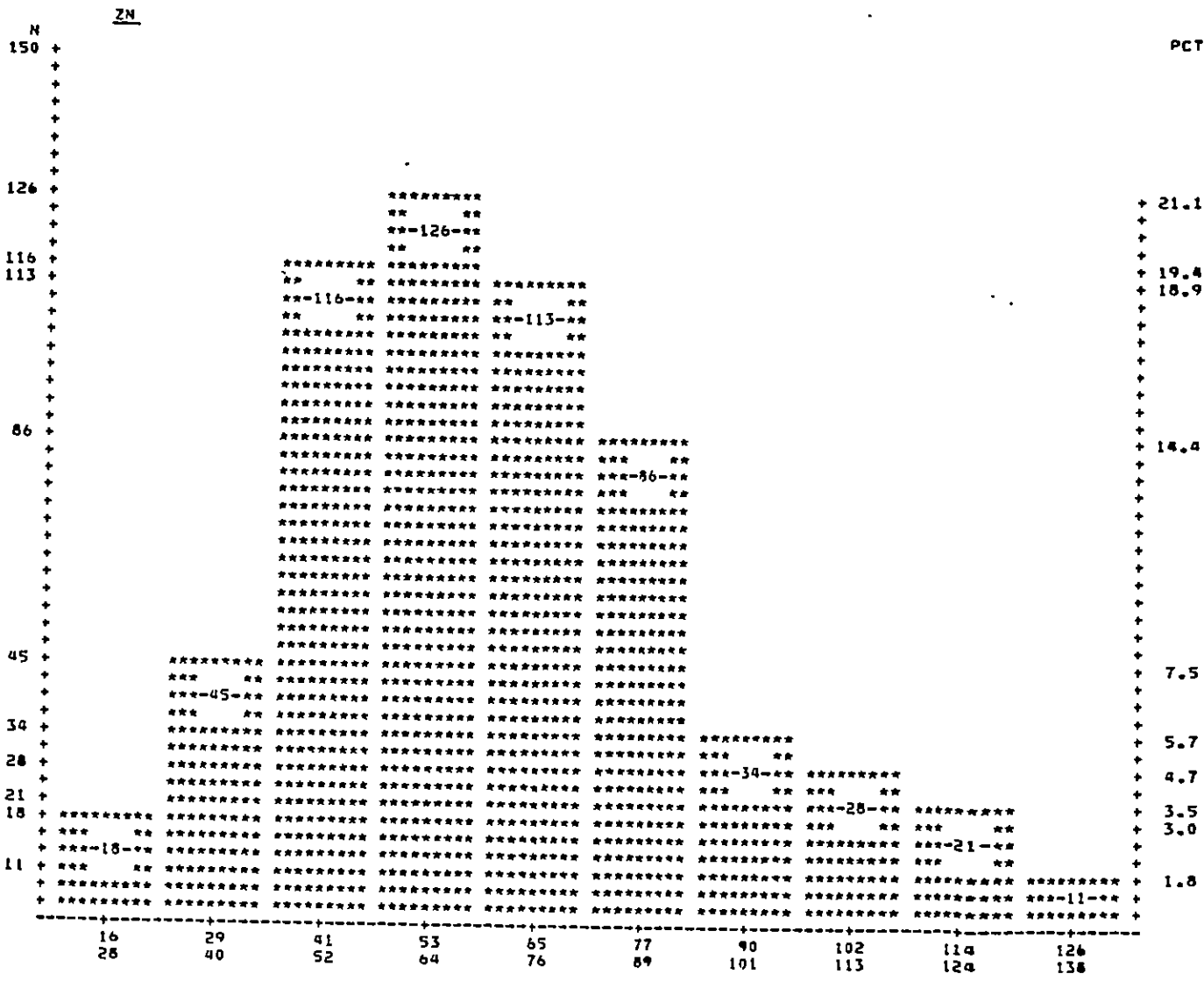
SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. %
5067	D 104M/15	120.0	310.0	28.0	175.0	102.0	43.0	495.0	*****	2.3	1.5	695.0	5.0	5.0	3.8
5084	D 104M/15	122.0	317.0	14.0	175.0	84.0	36.0	336.0	*****	2.3	1.2	745.0	5.0	5.0	3.8
5088	D 104M/15	164.0	251.0	3.0	200.0	83.0	50.0	122.0	*****	3.0	1.7	690.0	45.0	10.0	2.0
6692	D 104J/3W	552.0	529.0	1.0	54.0	90.0	25.0	99.0	*****	.9	1.3	900.0	5.0	5.0	23.9
6693	D 104J/3W	563.0	530.0	1.0	45.0	83.0	17.0	89.0	*****	.9	1.1	960.0	-5.0	5.0	14.2
6849	D 104M/1E	571.0	646.0	3.0	2800.0	375.0	20.0	76.0	*****	2.1	1.2	545.0	15.0	5.0	6.4
7100	D 104J/4W	363.0	350.0	1.0	230.0	161.0	24.0	100.0	*****	.8	1.4	1200.0	15.0	5.0	10.3
7103	D 104J/4W	322.0	448.0	1.0	135.0	213.0	28.0	96.0	*****	1.4	1.5	1110.0	5.0	5.0	54.0
7541	D 104M/9	305.0	182.0	3.0	290.0	86.0	24.0	86.0	*****	1.8	.9	510.0	30.0	5.0	.6
7693	D 104J/4W	365.0	509.0	3.0	60.0	157.0	38.0	71.0	*****	.9	1.8	1000.0	15.0	5.0	27.3
7695	D 104J/4E	465.0	525.0	1.0	530.0	262.0	28.0	54.0	*****	3.9	1.3	1290.0	75.0	50.0	2.8
7698	D 104J/3E	779.0	409.0	2.0	32.0	221.0	13.0	63.0	*****	1.1	.8	540.0	50.0	10.0	8.0
8353	B 104J/1	142.0	484.0	1.0	35.0	89.0	18.0	82.0	*****	.6	.9	545.0	5.0	5.0	8.8
8372	B 104J/4E	387.0	573.0	1.0	81.0	105.0	23.0	58.0	*****	1.0	1.0	640.0	5.0	15.0	19.6
8373	B 104J/4W	356.0	596.0	2.0	64.0	91.0	14.0	57.0	*****	.5	.9	585.0	10.0	5.0	28.3
8375	B 104J/4W	302.0	549.0	2.0	90.0	154.0	16.0	45.0	*****	.6	.8	445.0	15.0	5.0	64.8
8376	B 104J/4W	248.0	566.0	1.0	112.0	81.0	48.0	71.0	*****	.7	.8	660.0	10.0	-5.0	14.6
9112	D 104J/3W	559.0	330.0	2.0	82.0	94.0	18.0	79.0	*****	1.1	.8	810.0	10.0	5.0	4.4
9113	D 104J/3W	557.0	330.0	2.0	52.0	99.0	16.0	81.0	*****	1.0	.9	870.0	15.0	5.0	9.8
9115	D 104J/4E	480.0	365.0	8.0	41.0	99.0	20.0	89.0	*****	.7	1.1	920.0	5.0	10.0	18.9
9116	D 104J/4E	440.0	395.0	4.0	55.0	121.0	27.0	65.0	*****	1.0	1.4	710.0	10.0	5.0	47.3
9117	D 104J/4E	422.0	439.0	7.0	41.0	81.0	29.0	66.0	*****	.8	1.4	740.0	5.0	5.0	28.8
9123	D 104J/4W	359.0	343.0	1.0	164.0	148.0	29.0	146.0	*****	.9	1.3	1560.0	5.0	10.0	8.0
9372	D 104J/4W	377.0	582.0	3.0	400.0	440.0	18.0	107.0	*****	.7	1.2	1130.0	20.0	5.0	17.0
9399	D 104J/16W	240.0	290.0	20.0	61.0	80.0	18.0	66.0	*****	.7	.8	495.0	10.0	5.0	7.7
9577	D 104M/15	212.0	244.0	2.0	78.0	95.0	25.0	84.0	*****	1.1	1.0	770.0	5.0	5.0	6.3
9604	D 104J/4E	485.0	507.0	2.0	119.0	99.0	45.0	156.0	*****	1.2	1.3	1460.0	10.0	20.0	2.0
9605	D 104J/4E	484.0	520.0	3.0	512.0	444.0	32.0	105.0	*****	1.5	1.5	1060.0	25.0	30.0	7.3
9608	D 104J/4W	375.0	551.0	8.0	493.0	392.0	19.0	68.0	*****	1.0	1.4	1110.0	100.0	65.0	17.5
9616	D 104J/4E	467.0	394.0	6.0	99.0	102.0	19.0	83.0	*****	.9	1.1	680.0	15.0	5.0	7.9
9633	D 104J/4W	285.0	557.0	3.0	98.0	90.0	20.0	47.0	*****	.7	.8	630.0	10.0	5.0	24.4
9683	B 104J/5W	312.0	733.0	1.0	211.0	110.0	22.0	86.0	*****	1.5	1.0	1120.0	20.0	5.0	2.0
9684	B 104J/16E	403.0	334.0	3.0	74.0	101.0	16.0	82.0	*****	1.0	1.0	920.0	5.0	5.0	19.2
9701	B 104M/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0	*****	3.1	1.8	990.0	20.0	35.0	7.1
9857	B 104J/3E	691.0	328.0	1.0	181.0	95.0	23.0	87.0	*****	1.4	1.4	970.0	15.0	140.0	4.8
9860	B 104J/4W	376.0	367.0	1.0	213.0	136.0	26.0	89.0	*****	1.4	1.2	980.0	20.0	10.0	12.5
9963	D 104J/16W	215.0	279.0	3.0	100.0	163.0	18.0	126.0	*****	1.5	1.0	1100.0	20.0	15.0	.7



LISTING OF SAMPLES WITH LEAD GREATER THAN 30 PPM MAP SHEETS 104

SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. %
5062 D	104M/9	234.0	211.0	1.0	460.0	78.0	53.0	138.0*****		5.5	1.0	720.0	15.0	15.0	.9
5064 D	104M/15	163.0	258.0	5.0	95.0	79.0	42.0	302.0*****		1.5	1.2	450.0	5.0	5.0	7.5
5065 D	104M/15	150.0	255.0	5.0	88.0	63.0	30.0	186.0*****		1.4	1.4	450.0	10.0	5.0	5.8
5067 D	104M/15	120.0	310.0	28.0	175.0	102.0	43.0	495.0*****		2.3	1.5	695.0	5.0	5.0	3.8
5078 D	104M/15	43.0	434.0	3.0	4.0	33.0	162.0	130.0*****		.8	2.5	650.0	5.0*****		1.3
5084 D	104M/15	122.0	317.0	14.0	175.0	84.0	36.0	336.0*****		2.3	1.2	745.0	5.0	5.0	3.8
5087 D	104M/15	169.0	250.0	2.0	116.0	59.0	105.0	198.0*****		15.0	4.6	1850.0	85.0	10.0	7.7
5088 D	104M/15	164.0	251.0	3.0	200.0	83.0	50.0	122.0*****		3.0	1.7	690.0	45.0	10.0	2.0
6659 D	104M/15	39.0	427.0	1.0	300.0	24.0	92.0	154.0*****		1.5	.8	340.0	90.0	5.0	5.6
6661 D	104M/15	118.0	499.0	1.0	42.0	22.0	32.0	81.0*****		.9	.7	525.0	5.0	5.0	.7
6839 D	104M/8	439.0	808.0	1.0	56.0	34.0	43.0	48.0*****		1.1	.5	230.0	5.0	90.0	4.0
7098 D	104J/3E	743.0	355.0	2.0	33.0	58.0	31.0	103.0*****		.8	1.4	840.0	-5.0	5.0	5.3
7099 D	104J/3E	730.0	378.0	2.0	38.0	52.0	33.0	103.0*****		1.1	1.1	780.0	15.0	5.0	1.8
7534 D	104M/8	493.0	928.0	1.0	25.0	20.0	42.0	130.0*****		.9	.9	690.0	5.0	10.0	1.6
7535 D	104M/8	494.0	938.0	1.0	385.0	32.0	59.0	161.0*****		2.7	1.2	650.0	15.0	5.0	.8
7674 D	104M/8	489.0	921.0	1.0	61.0	26.0	33.0	118.0*****		1.7	.9	520.0	5.0	-5.0	1.3
7675 D	104M/8	494.0	936.0	1.0	120.0	31.0	40.0	124.0*****		2.3	.8	620.0	25.0	5.0	1.6
7693 D	104J/4M	365.0	509.0	3.0	60.0	157.0	38.0	71.0*****		.9	1.8	1000.0	15.0	5.0	27.3
8216 D	104J16E	338.0	295.0	5.0	40.0	51.0	51.0	72.0*****		.7	.9	910.0	10.0	10.0	21.6
8331 B	104M/15	60.0	495.0	1.0	54.0	18.0	45.0	126.0*****		4.4	1.1	595.0	5.0	5.0	1.4
8333 B	104M/15	124.0	483.0	1.0	56.0	22.0	37.0	95.0*****		1.7	.8	1490.0	5.0	-5.0	1.4
8376 B	104J/4M	248.0	566.0	1.0	112.0	81.0	48.0	71.0*****		.7	.8	660.0	10.0	-5.0	14.6
9057 D	104M/8	364.0	858.0	1.0	21.0	12.0	35.0	90.0*****		1.1	.5	340.0	5.0	5.0	7.2
9061 D	104M/15	136.0	439.0	6.0	250.0	41.0	56.0	128.0*****		4.6	1.7	670.0	15.0	5.0	1.4
9062 D	104M/15	89.0	432.0	7.0	137.0	68.0	52.0	80.0*****		2.6	1.9	570.0	25.0	10.0	5.7
9064 D	104M/15	139.0	394.0	11.0	400.0	73.0	50.0	85.0*****		2.3	.8	650.0	20.0	5.0	.9
9118 D	104J/4E	456.0	507.0	6.0	39.0	75.0	31.0	67.0*****		.5	1.3	730.0	5.0	5.0	25.2
9121 D	104J/3E	719.0	384.0	1.0	74.0	64.0	39.0	72.0*****		1.5	1.3	760.0	10.0	10.0	3.6
9326 D	104M/8	534.0	702.0	1.0	65.0	44.0	30.0	166.0*****		2.0	.6	545.0	4700.0	5.0	3.1
9578 D	104M/15	178.0	267.0	1.0	101.0	47.0	38.0	96.0*****		3.0	.8	690.0	50.0	5.0	2.6
9589 D	104M/15	31.0	413.0	4.0	16.0	14.0	30.0	65.0*****		1.0	.7	265.0	115.0	5.0	2.6
9604 D	104J/4E	445.0	507.0	2.0	119.0	99.0	45.0	156.0*****		1.2	1.3	1460.0	10.0	20.0	2.0
9605 D	104J/4E	484.0	520.0	3.0	512.0	444.0	32.0	105.0*****		1.5	1.5	1060.0	25.0	30.0	7.3
9657 B	104M/9	166.0	203.0	1.0	35.0	29.0	30.0	74.0*****		1.1	.9	480.0	10.0	30.0	8.1
9700 B	104M/15	104.0	368.0	1.0	86.0	33.0	43.0	67.0*****		1.8	.8	525.0	5.0	70.0	3.7
9701 B	104M/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0*****		3.1	1.8	990.0	20.0	35.0	7.1
9702 B	104M/15	39.0	427.0	3.0	170.0	41.0	2220.0	35.0*****		220.0	17.3	215.0	5800.0	850.0	1.4

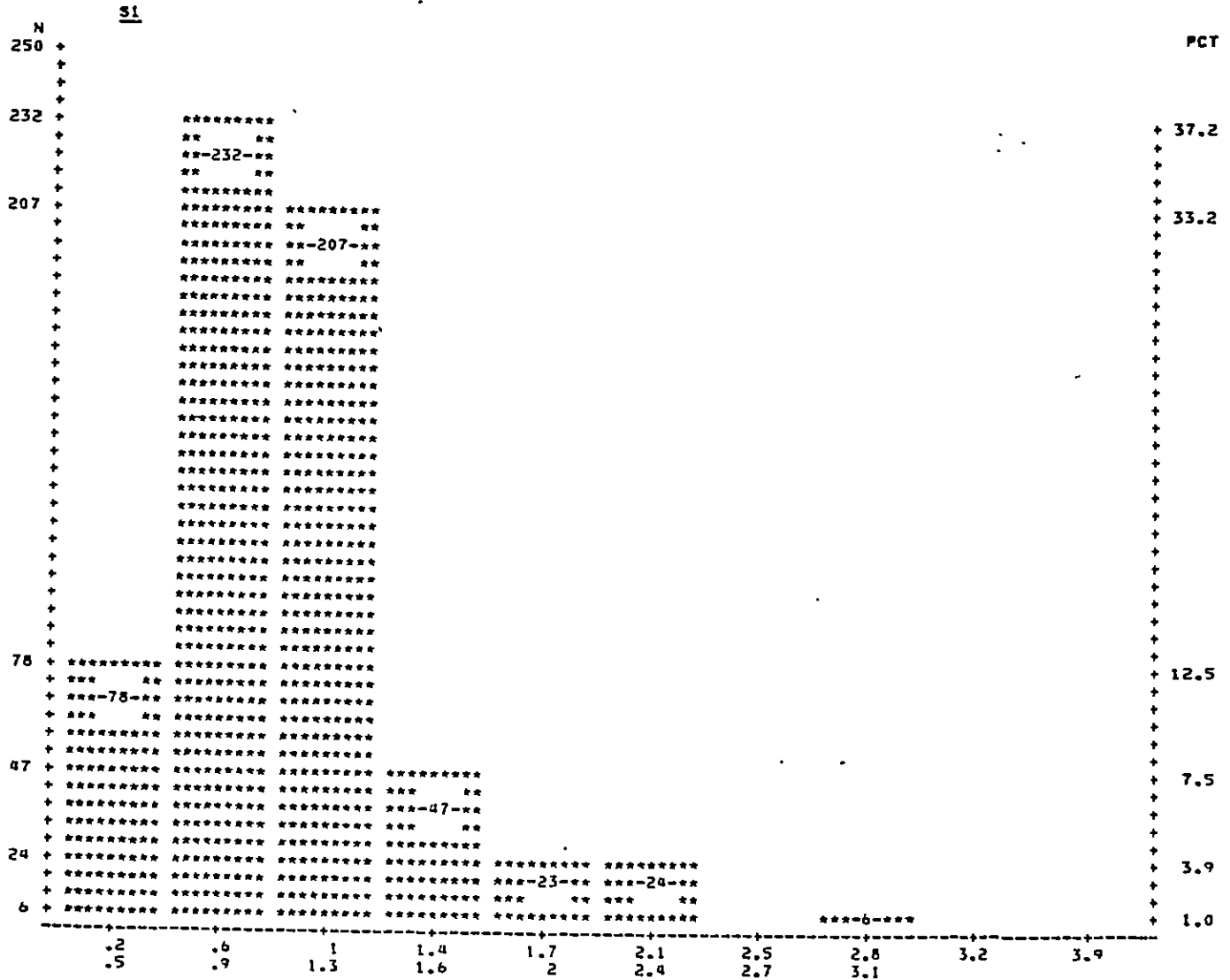
MAP SHEETS 104: HISTOGRAMS WITH CUTOFFS.
 N=598 BARS=10 MEAN=66.9632 SD=23.7715



LISTING OF SAMPLES WITH ZINC GREATER THAN 150 PPM: MAP SHEETS 104

SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. %
5064	D 104M/15	163.0	258.0	5.0	95.0	79.0	42.0	302.0*****		1.5	1.2	650.0	5.0	5.0	7.5
5065	D 104M/15	150.0	255.0	5.0	88.0	63.0	30.0	186.0*****		1.4	1.4	450.0	10.0	5.0	5.8
5067	D 104M/15	120.0	310.0	28.0	175.0	102.0	43.0	495.0*****		2.3	1.5	495.0	5.0	5.0	3.8
5084	D 104M/15	122.0	317.0	14.0	175.0	84.0	36.0	336.0*****		2.3	1.2	745.0	5.0	5.0	3.8
5087	D 104M/15	169.0	250.0	2.0	116.0	59.0	105.0	198.0*****		15.0	4.6	1850.0	85.0	10.0	7.7
6659	D 104M/15	39.0	427.0	1.0	300.0	24.0	92.0	154.0*****		1.5	.8	340.0	90.0	5.0	5.6
7535	D 104M/8	494.0	938.0	1.0	385.0	32.0	59.0	161.0*****		2.7	1.2	650.0	15.0	5.0	.8
8202	D 104J/5E	457.0	766.0	2.0	22.0	18.0	8.0	233.0*****		1.4	.7	1110.0	5.0	5.0	4.6
8210	D 104J/5E	456.0	766.0	1.0	27.0	23.0	9.0	186.0*****		1.1	.4	1460.0	5.0	5.0	8.4
8212	D 104J/5E	411.0	858.0	56.0	38.0	55.0	22.0	340.0*****		1.3	.9	830.0	5.0	5.0	4.3
8213	D 104J/5E	458.0	822.0	1.0	21.0	13.0	7.0	162.0*****		.7	.3	1060.0	-5.0	5.0	6.5
8323	B 104M/8	495.0	938.0	1.0	76.0	40.0	10.0	169.0*****		2.3	.2	400.0	10.0	15.0	.9
8341	B 104J/1	386.0	552.0	1.0	23.0	64.0	17.0	153.0*****		.6	.8	980.0	5.0	5.0	10.0
8354	B 104J/1	183.0	552.0	1.0	14.0	21.0	15.0	152.0*****		.5	.9	5650.0	5.0	5.0	5.3
9065	D 104M/16	320.0	474.0	1.0	30.0	11.0	20.0	224.0*****		1.1	1.1	1460.0	5.0	5.0	1.1
9088	D 104J/1	222.0	536.0	1.0	20.0	37.0	23.0	154.0*****		.5	1.2	2500.0	5.0	5.0	3.2
9093	D 104J/7	117.0	755.0	2.0	37.0	62.0	17.0	161.0*****		.7	.5	870.0	20.0	5.0	11.0
9095	D 104J/7	117.0	756.0	7.0	36.0	48.0	16.0	207.0*****		.8	.5	820.0	10.0	5.0	5.9
9136	D 1040/3	847.0	676.0	4.0	26.0	13.0	17.0	355.0*****		1.1	.2	400.0	5.0	5.0	1.0
9326	D 104M/8	534.0	702.0	1.0	65.0	44.0	30.0	166.0*****		2.0	.6	545.0	4700.0	5.0	3.1
9363	D 104J/7	29.0	818.0	9.0	54.0	44.0	16.0	178.0*****		.8	.6	610.0	10.0	5.0	5.5
9392	D 1040/3	836.0	636.0	8.0	32.0	12.0	12.0	160.0*****		1.5	.1	570.0	5.0	5.0	.8
9406	D 1040/2	943.0	621.0	4.0	25.0	22.0	14.0	160.0*****		1.4	.4	1110.0	5.0	5.0	15.6
9595	D 104J/2	109.0	337.0	3.0	16.0	29.0	10.0	152.0*****		1.0	.7	680.0	10.0	5.0	8.2
9604	D 104J/4E	485.0	507.0	2.0	119.0	99.0	45.0	156.0*****		1.2	1.3	1460.0	10.0	20.0	2.0
9644	D 104J16M	175.0	206.0	3.0	100.0	58.0	20.0	174.0*****		1.3	.6	660.0	10.0	5.0	2.3
9693	B 104J16E	303.0	202.0	6.0	66.0	51.0	18.0	144.0*****		1.5	.5	860.0	5.0	5.0	3.6
9701	B 104M/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0*****		3.1	1.8	990.0	20.0	35.0	7.1
9718	B 104J/8	292.0	629.0	2.0	26.0	62.0	29.0	192.0*****		.6	1.0	3450.0	15.0	5.0	5.1
9873	B 104J/2	919.0	379.0	2.0	143.0	52.0	28.0	152.0*****		2.2	1.0	1130.0	1150.0	5.0	8.0
9899	B 104J/5E	476.0	816.0	1.0	24.0	12.0	5.0	173.0*****		1.6	-.1	680.0	5.0	5.0	.8

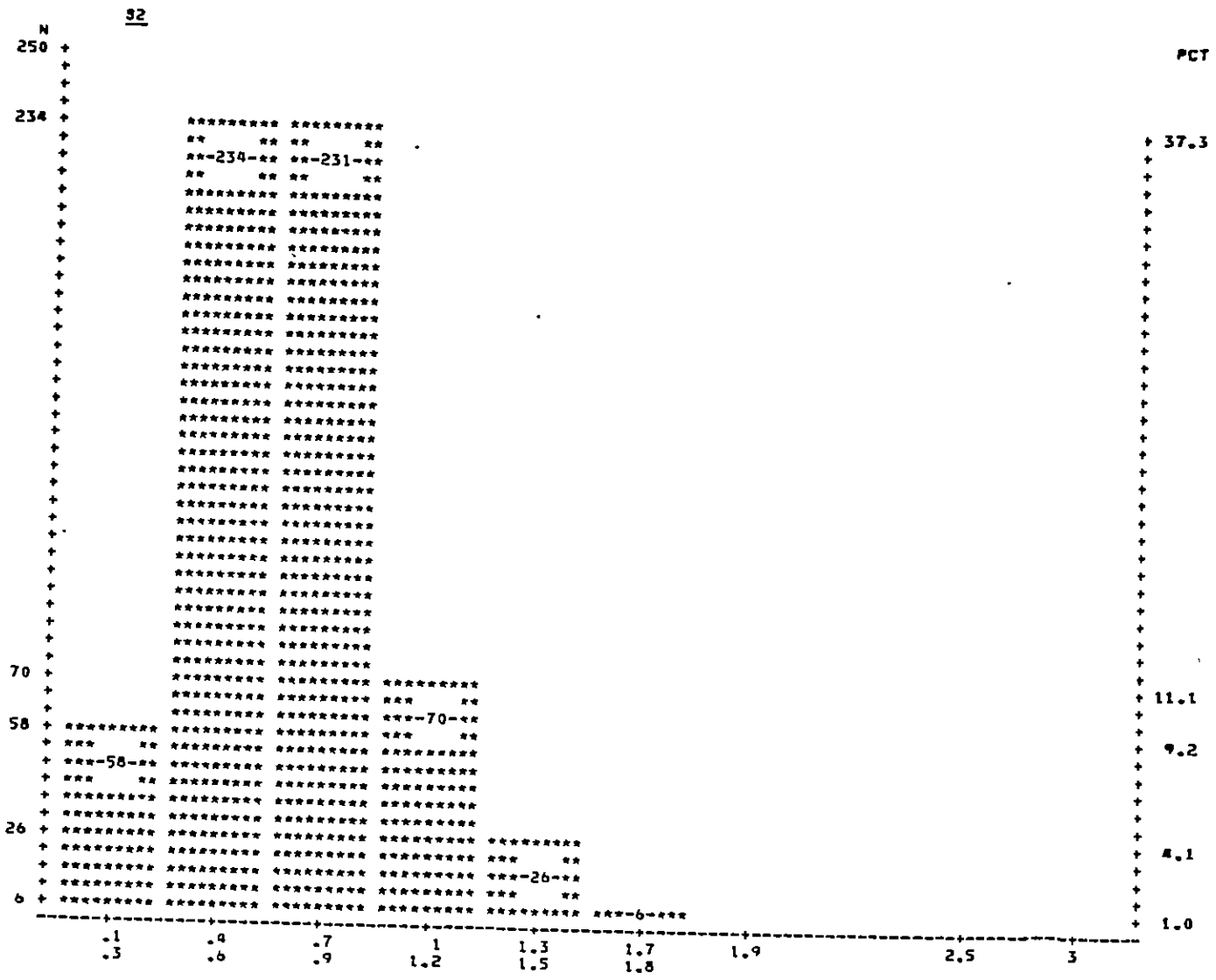
MAP SHEETS 104: HISTOGRAMS WITH CUTOFFS.
 N=623 BARS=10 MEAN=1.03756 SD=.503973



LISTING OF SAMPLES WITH SILVER GREATER THAN 2.5 PPM: MAP SHEETS 104

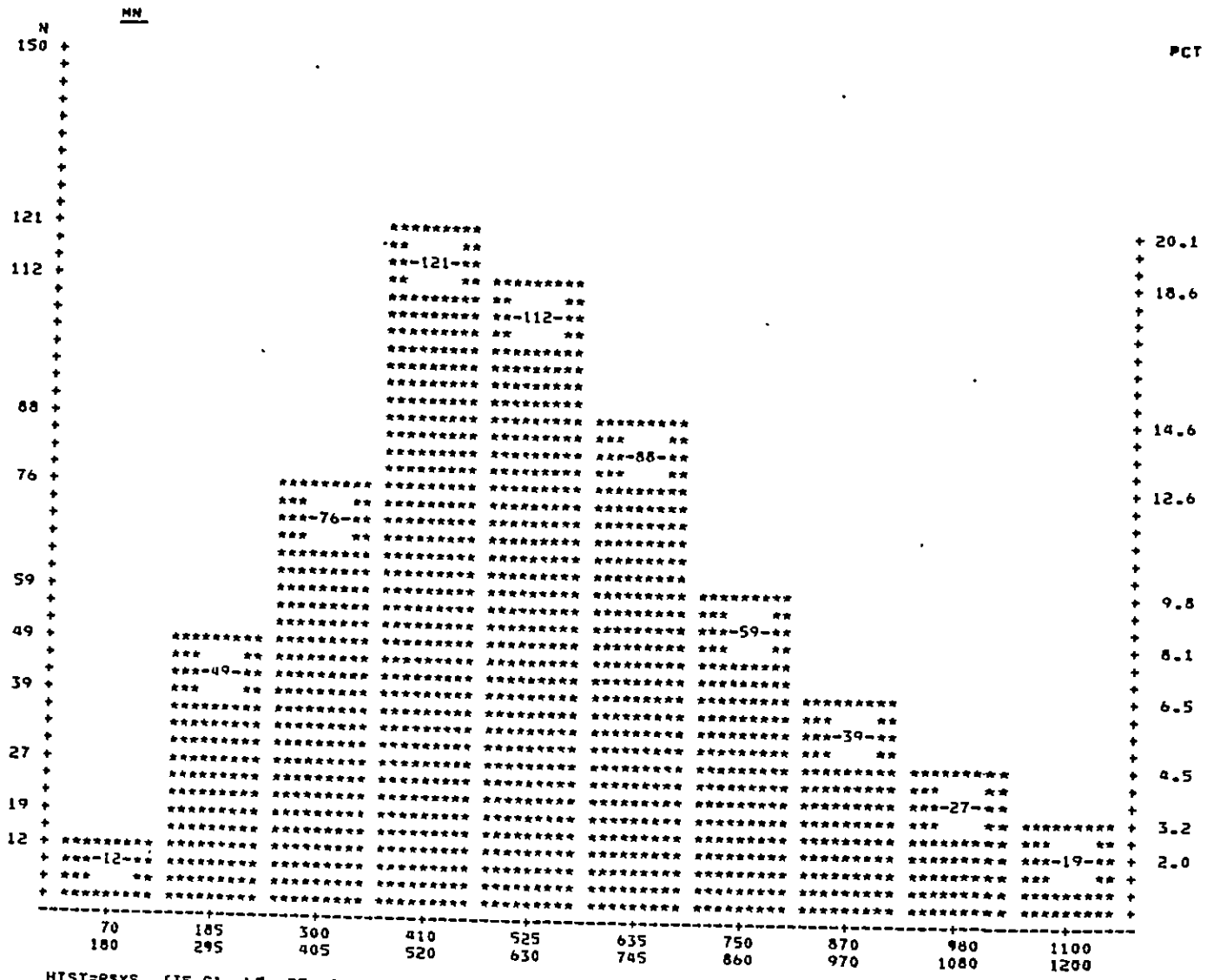
SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. Z
5062 D	104M/9	234.0	211.0	1.0	460.0	78.0	53.0	138.0*****	5.5	1.0	720.0	15.0	15.0		.9
5066 D	104M/15	119.0	278.0	2.0	145.0	34.0	24.0	73.0*****	2.5	1.4	405.0	5.0	10.0		4.8
5079 D	104M/15	54.0	371.0	2.0	104.0	9.0	14.0	36.0*****	2.8	.3	330.0	10.0*****			.3
5087 D	104M/15	169.0	250.0	2.0	116.0	59.0	105.0	198.0*****	15.0	4.6	1850.0	85.0	10.0		7.7
5088 D	104M/15	164.0	251.0	3.0	200.0	83.0	50.0	122.0*****	3.0	1.7	690.0	45.0	10.0		2.0
6666 D	104M/16	304.0	463.0	1.0	95.0	13.0	23.0	84.0*****	2.5	.8	1000.0	15.0	10.0		1.3
6836 D	104M/8	538.0	866.0	1.0	96.0	6.0	10.0	18.0*****	3.2	.4	260.0	15.0	5.0		.7
7045 D	104M/9	420.0	13.0	1.0	145.0	72.0	22.0	106.0*****	51.0	1.7	885.0	60.0	145.0		.7
7535 D	104M/8	894.0	938.0	1.0	385.0	32.0	59.0	161.0*****	2.7	1.2	650.0	15.0	5.0		.8
7676 D	104M/8	332.0	923.0	1.0	29.0	7.0	12.0	17.0*****	3.0	.2	265.0	10.0	5.0		1.1
7680 D	104M/9	208.0	221.0	1.0	70.0	30.0	26.0	51.0*****	19.0	.7	340.0	95.0	130.0		6.7
7695 D	104J/4E	465.0	525.0	1.0	530.0	262.0	28.0	54.0*****	3.9	1.3	1290.0	75.0	50.0		2.8
8331 B	104M/15	60.0	495.0	1.0	54.0	18.0	45.0	126.0*****	4.4	1.1	595.0	5.0	5.0		1.4
9061 D	104M/15	136.0	439.0	6.0	250.0	41.0	56.0	128.0*****	4.6	1.7	670.0	15.0	5.0		1.4
9062 D	104M/15	89.0	432.0	7.0	137.0	66.0	52.0	80.0*****	2.6	1.9	570.0	25.0	10.0		5.7
9332 D	104M/8	381.0	861.0	1.0	18.0	13.0	18.0	43.0*****	4.6	.6	265.0	5.0	-5.0		8.1
9578 D	104M/15	178.0	267.0	1.0	101.0	47.0	38.0	96.0*****	3.0	.8	690.0	50.0	5.0		2.6
9581 D	104M/15	96.0	302.0	1.0	39.0	8.0	18.0	46.0*****	3.1	.6	300.0	60.0	10.0		1.1
9701 B	104M/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0*****	3.1	1.8	990.0	20.0	35.0		7.1
9702 B	104M/15	39.0	427.0	3.0	170.0	41.0	2220.0	35.0*****	220.0	17.3	215.0	5800.0	850.0		1.4

MAP SHEETS 104: HISTOGRAMS WITH CUTOFFS.
 N=626 BARS=10 MEAN=.708917 SD=.316102



LISTING OF SAMPLES WITH SILVER GREATER THAN 1.6 PPM: MAP SHEETS 104

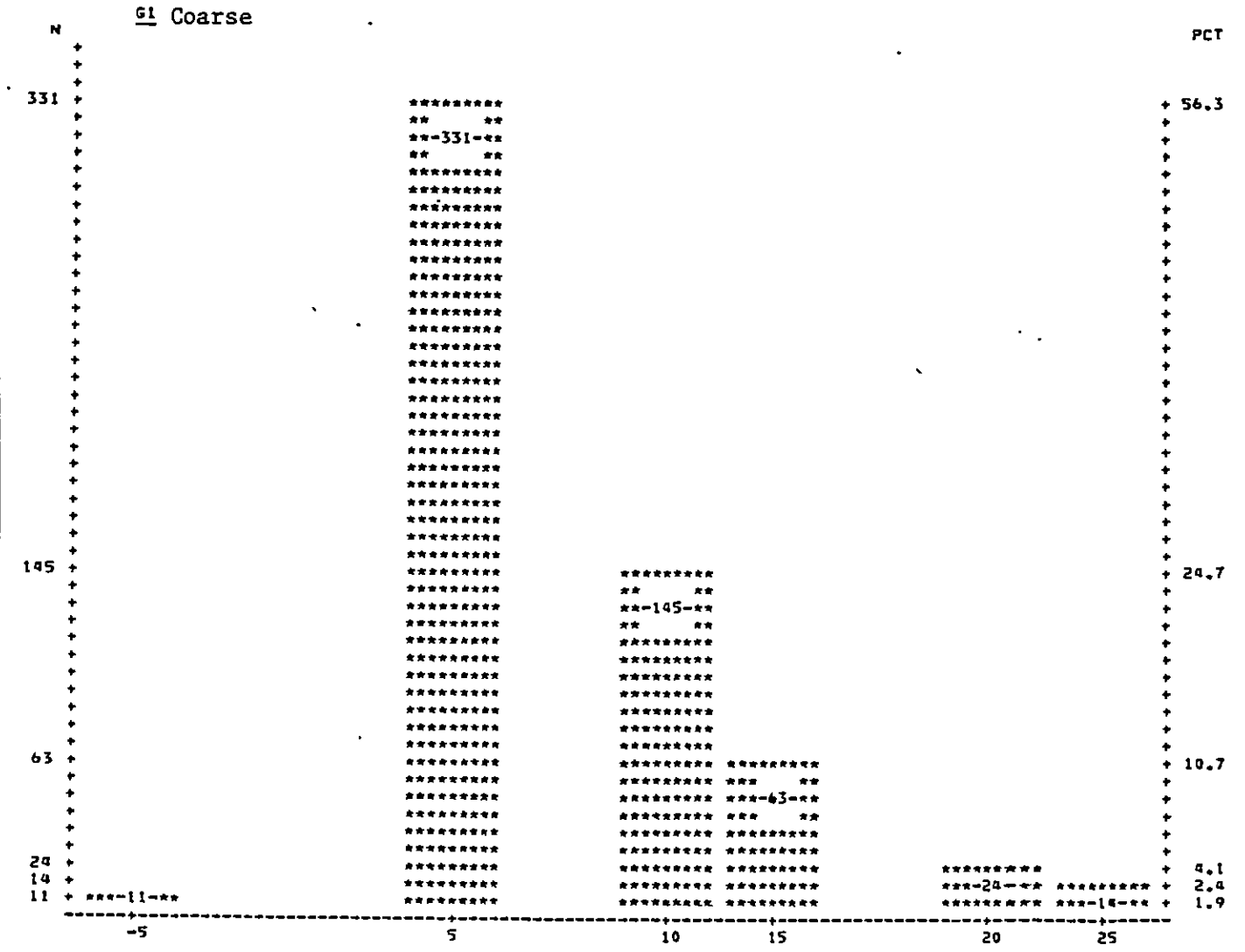
SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. %
5078 D	104M/15	43.0	434.0	3.0	4.0	33.0	162.0	130.0*****	.8	2.5	650.0	5.0*****			1.3
5087 D	104M/15	169.0	250.0	2.0	116.0	59.0	105.0	198.0*****	15.0	4.6	1850.0	85.0	10.0		7.7
5088 D	104M/15	164.0	251.0	3.0	200.0	83.0	50.0	122.0*****	3.0	1.7	690.0	45.0	10.0		2.0
6689 D	104J/3E	716.0	503.0	1.0	26.0	20.0	16.0	87.0*****	1.3	3.0	530.0	20.0	5.0		6.1
7045 D	104M/9	420.0	13.0	1.0	145.0	72.0	22.0	106.0*****	51.0	1.7	485.0	60.0	145.0		.7
7693 D	104J/4H	365.0	509.0	3.0	60.0	157.0	38.0	71.0*****	.9	1.8	1000.0	15.0	5.0		27.3
9058 D	104M/15	43.0	464.0	3.0	25.0	39.0	27.0	45.0*****	1.2	1.8	410.0	5.0	10.0		22.8
9061 D	104M/15	136.0	439.0	6.0	250.0	41.0	56.0	128.0*****	4.6	1.7	670.0	15.0	5.0		1.4
9062 D	104M/15	89.0	432.0	7.0	137.0	68.0	52.0	80.0*****	2.6	1.9	570.0	25.0	10.0		5.7
9356 D	104J/1	355.0	375.0	1.0	76.0	42.0	13.0	60.0*****	.8	10.5	515.0	5.0	15.0		19.9
9701 B	104M/15	71.0	382.0	16.0	168.0	113.0	78.0	220.0*****	3.1	1.8	990.0	20.0	35.0		7.1
9702 B	104M/15	39.0	427.0	3.0	170.0	41.0	2220.0	35.0*****	220.0	17.3	215.0	5800.0	850.0		1.4



HIST=PSYS (IF GI .LE. 25, RETAIN)
(C G1)
BARS=10

LISTING OF SAMPLES WITH MANGANESE GREATER THAN 1200 PPM: MAP SHEETS 104

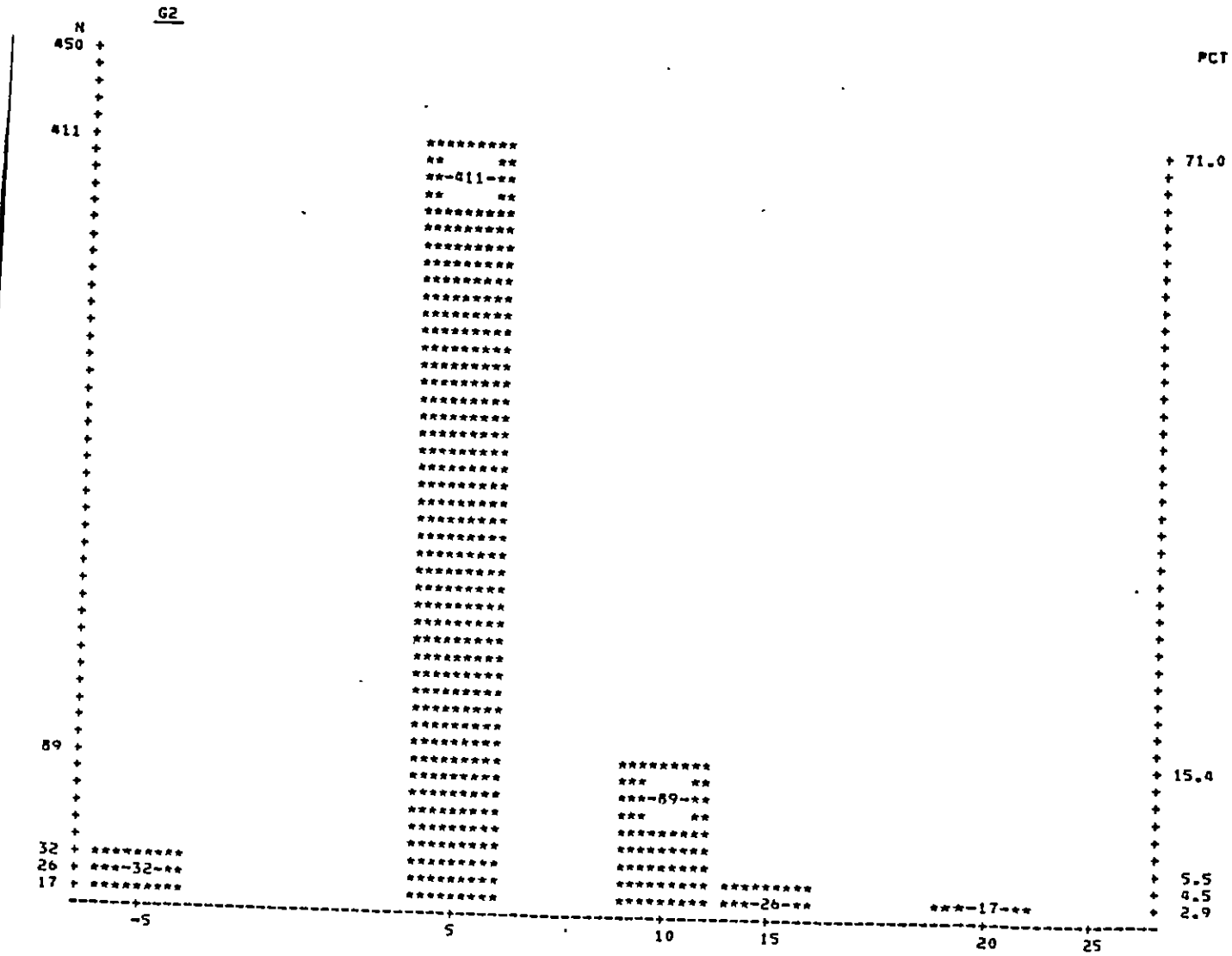
SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. X
5087 D	104H/15	169.0	250.0	2.0	116.0	59.0	105.0	198.0*****		15.0	4.6	1850.0	85.0	10.0	7.7
7082 D	104J/8	328.0	62.0	2.0	38.0	51.0	20.0	96.0*****		.9	.9	1720.0	15.0	5.0	11.4
7100 D	104J/4W	363.0	350.0	1.0	230.0	161.0	24.0	100.0*****		.8	1.4	1200.0	15.0	5.0	10.3
7672 D	104H/8	462.0	848.0	1.0	41.0	23.0	13.0	45.0*****		.8	.7	1650.0	5.0	10.0	6.8
7694 D	104J/4E	422.0	518.0	2.0	19.0	47.0	18.0	64.0*****		.4	1.0	1270.0	5.0	5.0	16.9
7695 D	104J/4E	465.0	525.0	1.0	530.0	262.0	28.0	54.0*****		3.9	1.3	1290.0	75.0	50.0	2.8
7714 D	104J/2	106.0	363.0	3.0	24.0	24.0	14.0	76.0*****		1.1	.7	1220.0	5.0	5.0	1.0
8200 D	104J/5E	405.0	760.0	4.0	64.0	57.0	15.0	108.0*****		1.3	.6	1350.0	5.0	5.0	4.2
8210 D	104J/5E	456.0	766.0	1.0	27.0	23.0	9.0	186.0*****		1.1	.6	1460.0	5.0	5.0	8.4
8333 B	104H/15	124.0	483.0	1.0	56.0	22.0	37.0	95.0*****		1.7	.8	1490.0	5.0	-5.0	1.4
8345 B	104J/1	349.0	480.0	1.0	31.0	32.0	14.0	86.0*****		.6	.8	1450.0	10.0	5.0	8.3
8347 B	104J/1	387.0	417.0	1.0	49.0	27.0	15.0	83.0*****		.9	.8	1530.0	50.0	5.0	14.8
8351 B	104J/1	254.0	452.0	1.0	179.0	32.0	18.0	86.0*****		1.2	.9	2850.0	10.0	5.0	8.3
8354 B	104J/1	183.0	552.0	1.0	14.0	21.0	15.0	152.0*****		.5	.9	5650.0	5.0	5.0	5.3
8358 B	104J/8	338.0	777.0	2.0	23.0	18.0	11.0	50.0*****		.9	.5	1770.0	15.0	5.0	2.9
8364 B	104J/2	87.0	474.0	2.0	13.0	24.0	11.0	88.0*****		.9	.5	3600.0	10.0	5.0	1.5
9065 D	104H/16	320.0	474.0	1.0	30.0	11.0	20.0	224.0*****		1.1	1.1	1460.0	5.0	5.0	1.1
9078 D	104J/1	319.0	525.0	1.0	32.0	39.0	17.0	85.0*****		.6	.7	1320.0	5.0	5.0	9.2
9081 D	104J/1	338.0	478.0	1.0	28.0	33.0	19.0	99.0*****		.5	.9	3200.0	5.0	5.0	10.3
9082 D	104J/1	384.0	407.0	1.0	60.0	27.0	14.0	75.0*****		.6	.7	1690.0	10.0	5.0	5.7
9084 D	104J/1	256.0	532.0	1.0	33.0	45.0	21.0	93.0*****		.8	.9	1660.0	5.0	5.0	7.4
9088 D	104J/1	222.0	536.0	1.0	20.0	37.0	23.0	154.0*****		.5	1.2	2500.0	5.0	5.0	3.2
9114 D	104J/3W	371.0	541.0	4.0	32.0	52.0	14.0	55.0*****		.8	.6	1200.0	25.0	10.0	5.0
9123 D	104J/4W	359.0	343.0	1.0	164.0	148.0	29.0	146.0*****		.9	1.3	1560.0	5.0	10.0	8.0
9349 D	104J/1	311.0	539.0	1.0	28.0	59.0	15.0	124.0*****		.5	.9	1300.0	5.0	15.0	19.0
9353 D	104J/1	369.0	451.0	1.0	38.0	28.0	16.0	77.0*****		.8	.5	1300.0	5.0	10.0	7.4
9608 D	104J/4E	485.0	507.0	2.0	119.0	99.0	45.0	156.0*****		1.2	1.3	1460.0	10.0	20.0	2.0
9629 D	104J/5W	362.0	611.0	2.0	56.0	59.0	19.0	123.0*****		1.2	1.0	1220.0	5.0	15.0	21.3
9663 B	104J/7	88.0	643.0	1.0	36.0	59.0	15.0	51.0*****		.3	.7	1800.0	5.0	-5.0	2.5
9718 B	104J/8	292.0	629.0	2.0	26.0	62.0	29.0	192.0*****		.6	1.0	3450.0	15.0	5.0	5.1
9891 B	104J/5E	402.0	625.0	4.0	138.0	62.0	25.0	105.0*****		1.3	1.0	1350.0	5.0	420.0	9.9
9896 B	104J/5E	428.0	785.0	1.0	136.0	66.0	10.0	117.0*****		1.3	.4	1330.0	5.0	5.0	6.0



LISTING OF SAMPLES WITH GOLD GREATER THAN 50 PPB.: MAP SHEETS 104

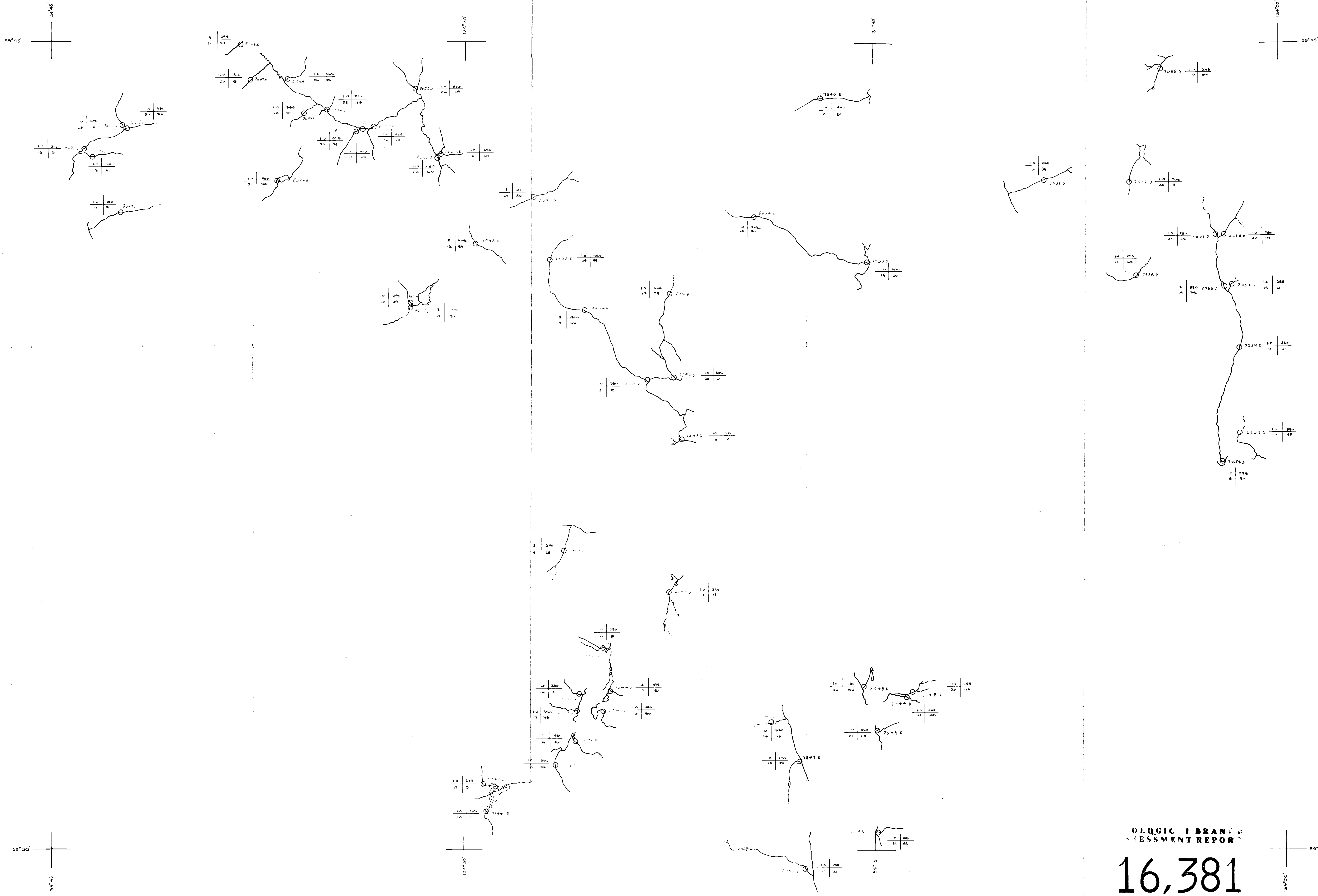
SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER CHM	SILVER F	MAN GANESE	GOLD CHM	GOLD F	H.M. %
5073	D 104J/8	26.0	476.0	1.0	42.0	32.0	13.0	50.0	*****	.7	.8	445.0	100.0	5.0	8.1
5087	D 104M/15	169.0	250.0	2.0	116.0	59.0	105.0	198.0	*****	15.0	4.6	1850.0	85.0	10.0	7.7
6646	D 104M/9	388.0	2.0	6.0	79.0	42.0	24.0	68.0	*****	1.1	1.0	590.0	155.0	5.0	6.3
6659	D 104M/15	39.0	427.0	1.0	300.0	24.0	92.0	154.0	*****	1.5	.8	340.0	90.0	5.0	5.6
6696	D 104J/SW	342.0	635.0	2.0	37.0	34.0	10.0	52.0	*****	1.0	.4	560.0	55.0	5.0	19.6
7045	D 104M/9	420.0	13.0	1.0	145.0	72.0	22.0	106.0	*****	51.0	1.7	485.0	60.0	145.0	.7
7058	D 104M/9	522.0	228.0	1.0	100.0	21.0	10.0	64.0	*****	.5	.4	245.0	50.0	5.0	.3
7101	D 104J/4W	298.0	323.0	1.0	50.0	53.0	13.0	37.0	*****	1.2	.6	390.0	135.0	5.0	21.9
7531	D 104M/8	447.0	889.0	1.0	52.0	34.0	20.0	113.0	*****	1.3	.6	460.0	165.0	5.0	1.0
7540	D 104M/9	403.0	218.0	4.0	164.0	68.0	21.0	82.0	*****	1.7	.6	440.0	540.0	20.0	2.9
7678	D 104M/9	246.0	205.0	1.0	55.0	26.0	17.0	65.0	*****	2.2	.9	440.0	100.0	10.0	5.1
7680	D 104M/9	208.0	221.0	1.0	70.0	30.0	26.0	51.0	*****	19.0	.7	340.0	95.0	130.0	6.7
7681	D 104M/9	152.0	198.0	1.0	63.0	24.0	13.0	34.0	*****	2.3	.4	340.0	50.0	5.0	20.6
7683	D 104M/16	473.0	264.0	1.0	11.0	12.0	7.0	49.0	*****	.6	.5	235.0	95.0	395.0	2.8
7691	D 104J/7	916.0	769.0	5.0	28.0	22.0	11.0	67.0	*****	1.7	.4	950.0	3450.0	5.0	3.8
7695	D 104J/4E	465.0	525.0	1.0	530.0	262.0	28.0	54.0	*****	3.9	1.3	1290.0	75.0	50.0	2.8
7698	D 104J/3E	779.0	409.0	2.0	32.0	221.0	13.0	63.0	*****	1.1	.8	540.0	50.0	10.0	8.0
8347	B 104J/1	387.0	417.0	1.0	49.0	27.0	15.0	83.0	*****	.9	.8	1530.0	50.0	5.0	14.8
8349	B 104J/1	489.0	331.0	2.0	205.0	56.0	14.0	74.0	*****	1.2	.5	710.0	745.0	10.0	5.9
9326	D 104M/8	534.0	702.0	1.0	65.0	44.0	30.0	166.0	*****	2.0	.6	545.0	4700.0	5.0	3.1
9394	D 104J16E	342.0	318.0	1.0	58.0	70.0	15.0	55.0	*****	.8	1.0	920.0	115.0	20.0	35.1
9578	D 104M/15	178.0	267.0	1.0	101.0	47.0	38.0	96.0	*****	3.0	.8	690.0	50.0	5.0	2.6
9581	D 104M/15	96.0	302.0	1.0	39.0	8.0	18.0	46.0	*****	3.1	.6	300.0	60.0	10.0	1.1
9589	D 104M/15	31.0	413.0	4.0	16.0	14.0	30.0	65.0	*****	1.0	.7	265.0	115.0	5.0	2.6
9608	D 104J/4W	375.0	551.0	8.0	493.0	392.0	19.0	68.0	*****	1.0	1.4	1110.0	100.0	65.0	17.5
9610	D 104M/16	476.0	239.0	1.0	19.0	23.0	28.0	93.0	*****	.8	1.3	540.0	150.0	15.0	5.8
9653	B 104M/9	250.0	206.0	1.0	33.0	25.0	16.0	70.0	*****	2.4	.7	475.0	9900.0	10.0	9.0
9702	M 104M/15	39.0	427.0	3.0	170.0	41.0	2220.0	35.0	*****	220.0	17.3	215.0	5800.0	850.0	1.4
9710	B 104M/16	522.0	250.0	1.0	28.0	18.0	15.0	57.0	*****	.6	.8	310.0	185.0	35.0	5.4
9726	B 104J/2	91.0	562.0	1.0	15.0	18.0	14.0	53.0	*****	.6	.7	590.0	105.0	5.0	4.0
9815	B 104J/2	44.0	498.0	1.0	33.0	32.0	12.0	52.0	*****	1.1	.4	470.0	85.0	5.0	12.5
9873	B 104J/2	919.0	379.0	2.0	143.0	52.0	28.0	152.0	*****	2.2	1.0	1130.0	1150.0	5.0	8.0

MAP SHEETS 104: HISTOGRAMS WITH CUTOFFS.
 N=579 BARS=10 MEAN=6.24352 SD=4.66057



LISTING OF SAMPLES WITH GOLD GREATER THAN 70 PPB: MAP SHEETS 104

SAMPLE NO	NTS SHEET	EAST	NORTH	MOLYB DENUM	CU CHM	CU F	LEAD	ZINC	NICKEL	SILVER		MAN GANESE	GOLD		M.M. X
										CHM	F		CHM	F	
6654 D	104M/9	382.0	176.0	1.0	470.0	59.0	19.0	70.0*****	2.3	.6	330.0	35.0	100.0	1.7	
6667 D	104M/16	345.0	460.0	1.0	24.0	5.0	10.0	25.0*****	1.8	.6	260.0	5.0	230.0	3.1	
6690 D	104J/3M	579.0	471.0	1.0	33.0	44.0	16.0	80.0*****	1.0	1.3	675.0	15.0	5250.0	12.4	
6832 D	104J/8	213.0	714.0	1.0	24.0	23.0	11.0	52.0*****	.9	.6	420.0	10.0	95.0	6.7	
6834 D	104J/8	282.0	691.0	1.0	48.0	40.0	12.0	58.0*****	1.3	.4	410.0	20.0	415.0	25.2	
6839 D	104M/8	439.0	808.0	1.0	56.0	34.0	43.0	48.0*****	1.1	.5	230.0	5.0	90.0	4.0	
7045 D	104M/9	420.0	13.0	1.0	145.0	72.0	22.0	106.0*****	51.0	1.7	485.0	60.0	145.0	.7	
7537 D	104M/9	482.0	190.0	1.0	11.0	13.0	6.0	35.0*****	.2	.3	220.0	20.0	475.0	3.7	
7544 D	104M/9	333.0	17.0	2.0	23.0	24.0	12.0	46.0*****	.5	.4	495.0	10.0	195.0	7.4	



OLQGIC I BRAND
ASSESSMENT REPORT

16,381

LEGEND

83498 ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER

2 | --- Mn (PPM) IN -80 MESH SAMPLE

15 | --- Pb (PPM) IN -80 MESH SAMPLE

150 | --- Mn (PPM) IN -80 MESH SAMPLE

42 | --- Zn (PPM) IN -80 MESH SAMPLE

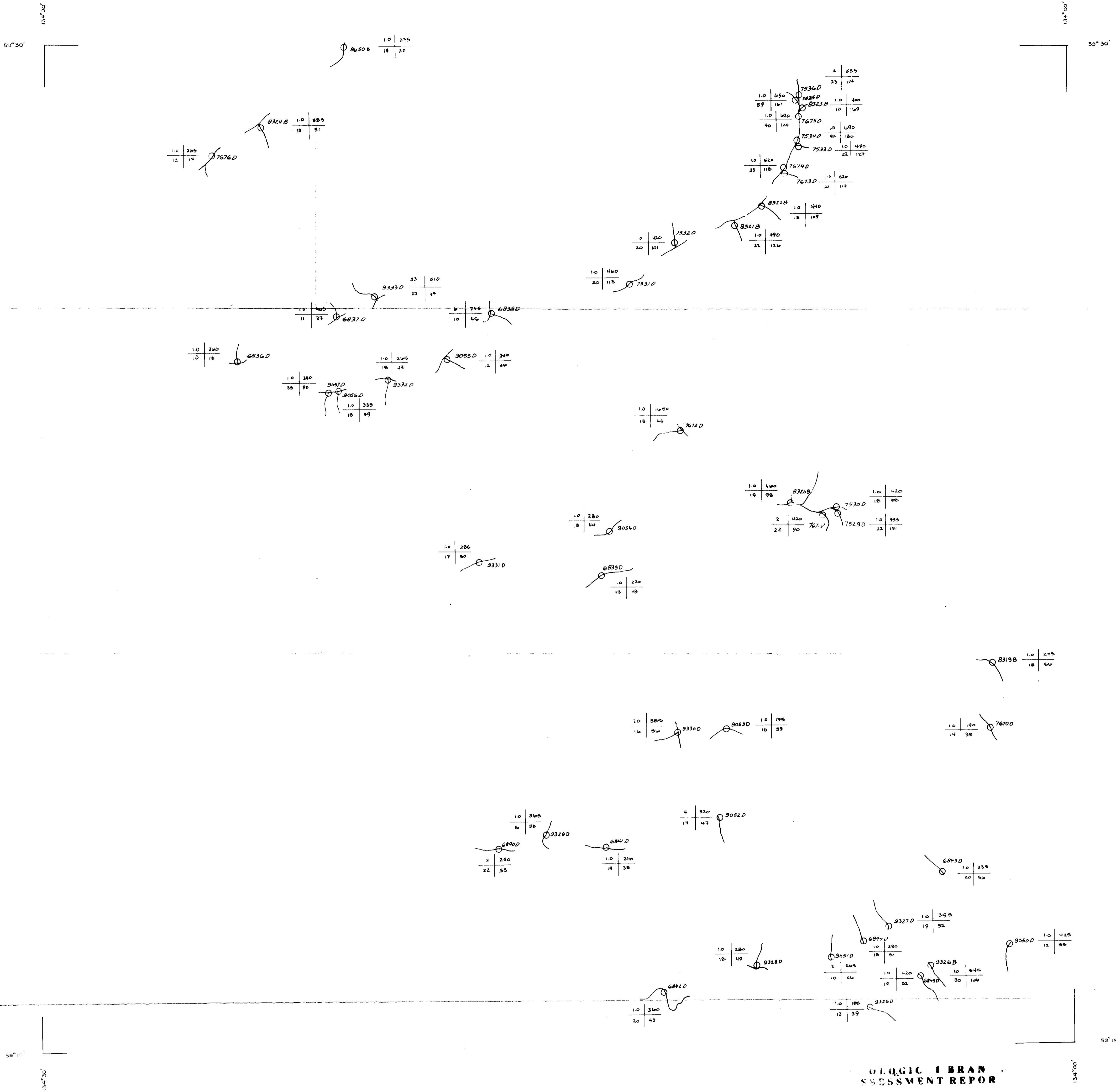
NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

DUPONT EXPLORATION
CANADA

**KULTA PROJECT
GEOCHEMISTRY**
STREAM SEDIMENT SAMPLES
Mn, Mo, Pb & Zn in PPM.
ATLIN AREA, BRITISH COLUMBIA

METERS 1000 0 5000 10000 20000 30000 METERS
SCALE
MILE 0 1/2 1 MILE

DATA BY: J.T.N.	REVISED:	N.T.S. No.: 104 M 9 B 10 E
DATE: 81 09 22	ACCT No: 351-00	
DRAWN BY: K.L.J., J.T.N.	DATE: CLC 81 09 11	DRWG No: KU.81-47



LEGEND

- 8348B STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 2+--- Mo (PPM) IN -80 MESH SAMPLE
- 13+--- Pb (PPM) IN -80 MESH SAMPLE
- 150+--- Mn (PPM) IN -80 MESH SAMPLE
- 42+--- Zn (PPM) IN -80 MESH SAMPLE

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

**GEOLOGIC BRAN
ASSESSMENT REPORT**

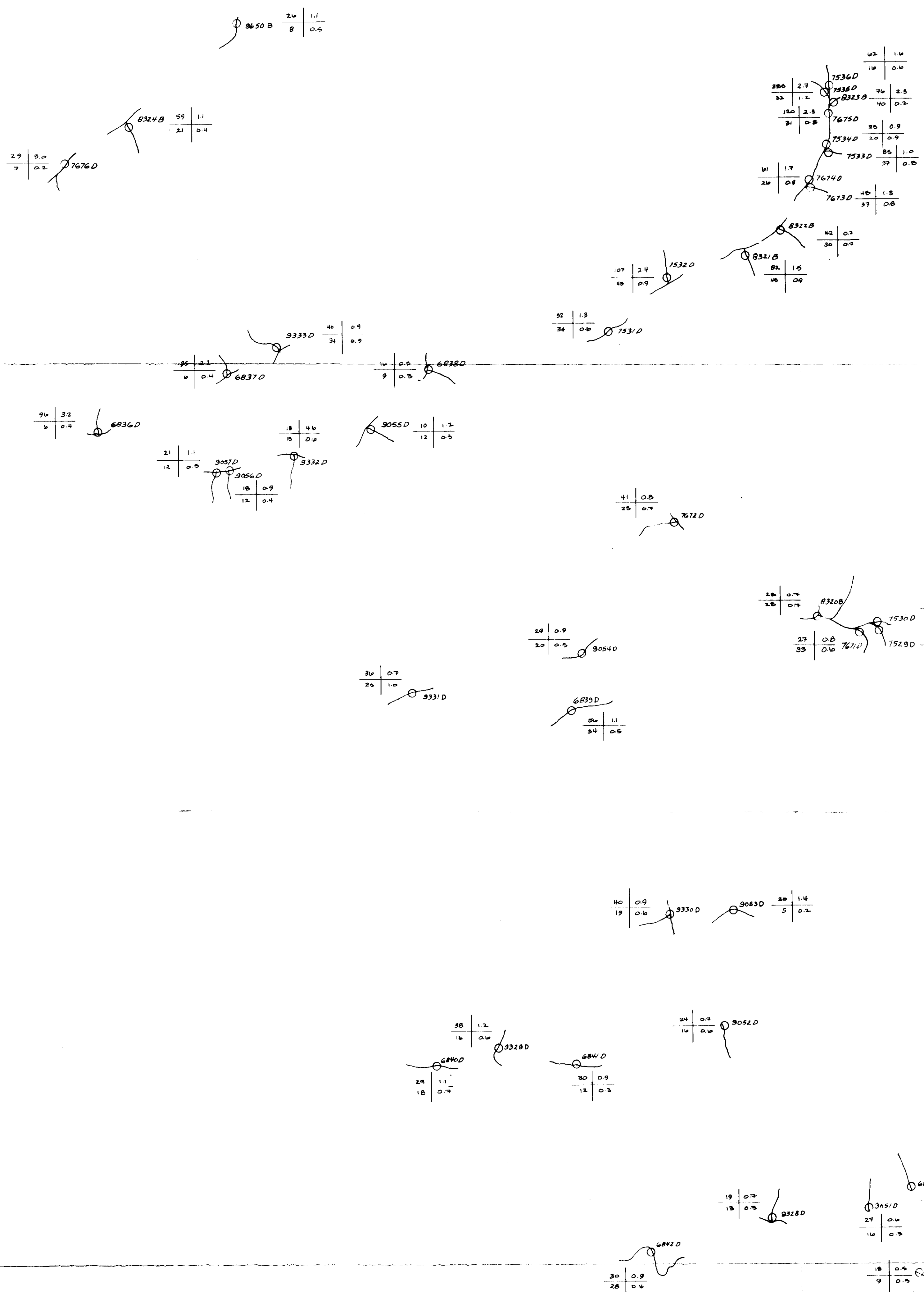
16,381

QUON EXPLORATION CANADA	
KULTA PROJECT GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES Mn, Mo, Pb & Zn in PPM.	
ATLIN AREA, BRITISH COLUMBIA	
DATE	REVISED
BY	BY
DATE	DATE
NET # 104 MB	ACCT # 581-00
DRW # KU.81-44	

ENLARGEMENT OF 1:250 000 SHEET
FOR SHEET INDEX SEE DRWG. No. KU.81-

55°30' 134°30'

59°30' 134°00'



59°15' 134°30'

59°15' 134°00'

LEGEND

- 8349B ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 21+ --- Cu (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
- 16+ --- Cu (PPM) IN -80 MESH SAMPLE
- 0.8 --- Ag (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
- 0.5 --- Ag (PPM) IN -80 MESH SAMPLE
- H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

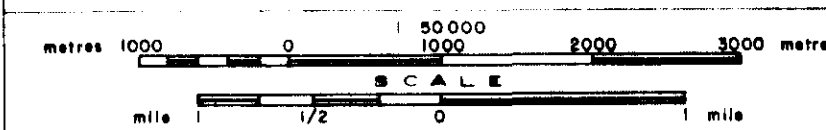
LOGIC BRAND
ASSESSMENT REPORT

16,381

DUPONT EXPLORATION
CANADA

**KULTA PROJECT
GEOCHEMISTRY**
STREAM SEDIMENT SAMPLES
Ag & Cu in P.P.M.

ATLIN AREA, BRITISH COLUMBIA



DATE	JUN 81 05 7	REVISED	N.T.S. No. 104 M B
DRAWN BY	K.L.J., J.T.N.	ACC'T No	381-00
DATE	C.L.C. 81 06 14	DRWG No.	KU.81-43

ENLARGEMENT OF 1:250000 SHEET
FOR SHEET INDEX SEE DRWG No. KU.81-1

134°30'

59°30'

8350 B 10 2.42
5 3900

10 1.11
5 3125 7676 D

8324 B 10 1.47
5 1405

15 0.99
5 925
15 0.86
5 815
15 0.95
5 925
15 1.14
5 1105
15 1.52
5 1460
15 1.52
5 1460
15 0.58
5 580
15 0.58
5 580

5 1.07
5 1465 7532 D

8324 B 30 0.53
5 1235

8321 B 10 0.21
5 1265

10 1.05
5 2715 7531 D

5 11.85
10 300 9333 D

20 0.29
5 1500 6837 D

5 2.12
5 2800 6838 D

15 0.48
5 4240 6836 D

5 8.11
5 2990 3055 D

5 8.17
5 1365 3056 D

5 4.28
5 985 3057 D

5 4.60
5 1475 3058 D

5 6.84
10 3475 7672 D

5 5.18
5 2775 3054 D

5 2.18
5 1015 8320 B
5 9.92
5 2890 7671 D
5 12.90
5 1985 7529 D

10 7.45
10 2235 3331 D

5 14.00
30 2615 6839 D

8319 B 10 11.41
5 2715

5 4.21
5 1200 3330 D
5 1.94
5 440 3063 D

10 3.92
5 6005 7670 D

5 1.47
5 1625 6840 D
5 9.84
10 1465 6841 D
5 8.13
5 945 6842 D

5 13.82
10 2040 3062 D

6843 D 5 9.11
5 245

10 8.52
5 1800 3328 D

5 5.82
5 855 3327 D
5 5.13
5 855 3328 D
5 3.13
5 245 3329 D

3050 D 5 7.28
10 1415

10 16.01
25 1745 6842 D

5 18.24
5 3645 3326 D

59°15'

134°30'

59°15'

134°30'

LEGEND

8349 B
O STREAM SEDIMENT SAMPLE LOCATION & NUMBER

45 --- Au (PPB) IN H.M.F. OF -10+80 MESH SAMPLE
25 --- Au (PPB) IN -80 MESH SAMPLE

3.35 --- WEIGHT % OF H.M.F. IN -10+80 MESH SAMPLE
415 --- WEIGHT OF -80 MESH SAMPLE IN GRAMS

H.M.F. HEAVY MINERAL FRACTION

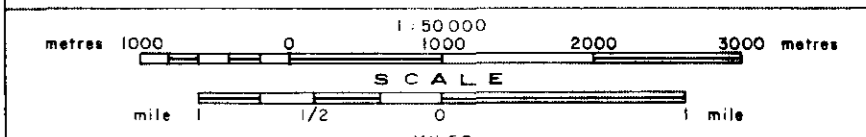
NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING,
PREPARATION AND ANALYTICAL PROCEDURES

GEOLOGIC BRAND
SEDIMENT REPORT

16,381

QU POND EXPLORATION
CANADA

KULTA PROJECT
GEOCHEMISTRY
STREAM SEDIMENT SAMPLES
Au in PPB, % H.M. & Weight of -80 Mesh Sample
ATLIN AREA, BRITISH COLUMBIA

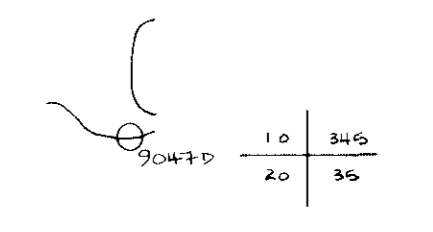
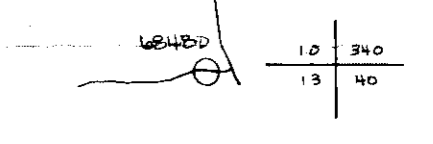
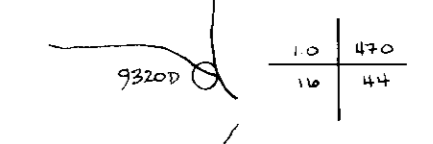
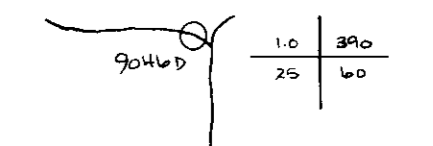
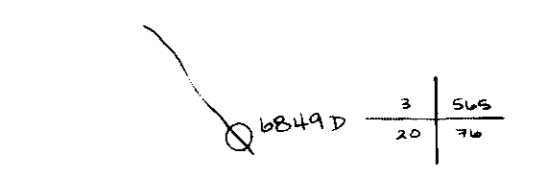
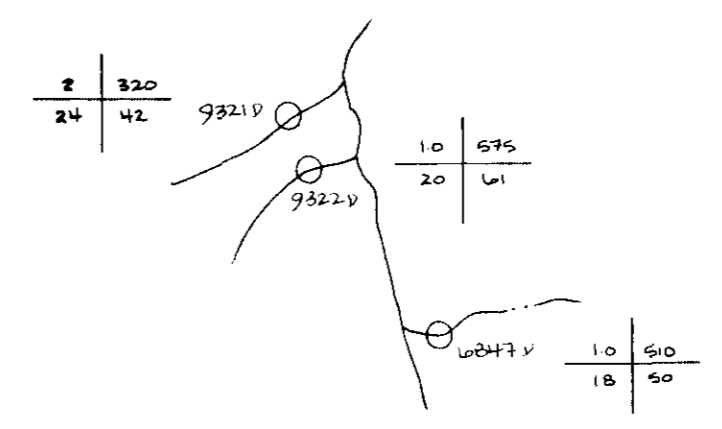
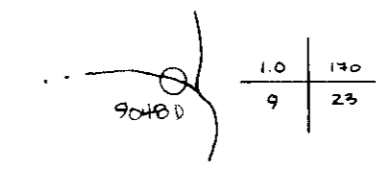
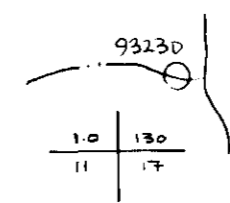
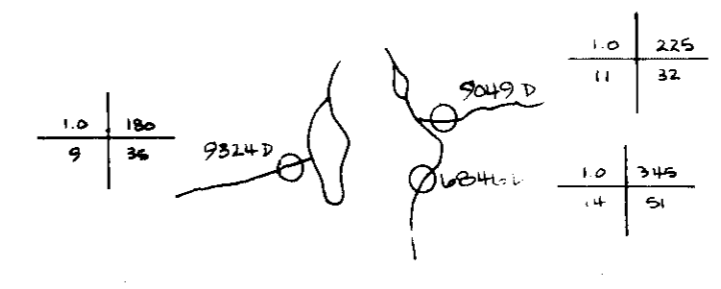


DATA BY: J.T.N. REVISION: N.T.S. No.: 104 M 8
DATE: 81 05 7 ACCT No.: 351-00
DRAWN BY: K.L.J., J.T.N. DATE: 81 09 14 DRWG. No.: KU 81-42

ENLARGEMENT OF 1:250,000 SHEET
FOR SHEET INDEX SEE DRWG. NO. KU 81-1

59° 15' 134° 15'

59° 15' 134° 05'



59° 00' 134° 15'

59° 00' 134° 00'

16,381

LEGEND

- 8349B STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 2 --- Mo (PPM) IN -80 MESH SAMPLE
- 15 --- Pb (PPM) IN -80 MESH SAMPLE
- 150 --- Mn (PPM) IN -80 MESH SAMPLE
- 42 --- Zn (PPM) IN -80 MESH SAMPLE

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

ATLANTIC BRANCH
SEDIMENT REPORT



FOR SHEET INDEX SEE DRWG No KU.B1-1

COUPON EXPLORATION
CANADA

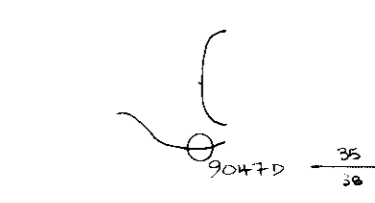
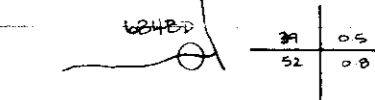
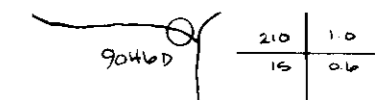
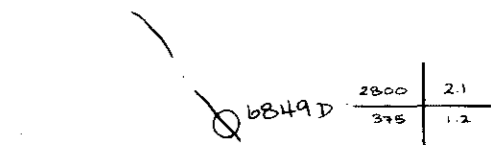
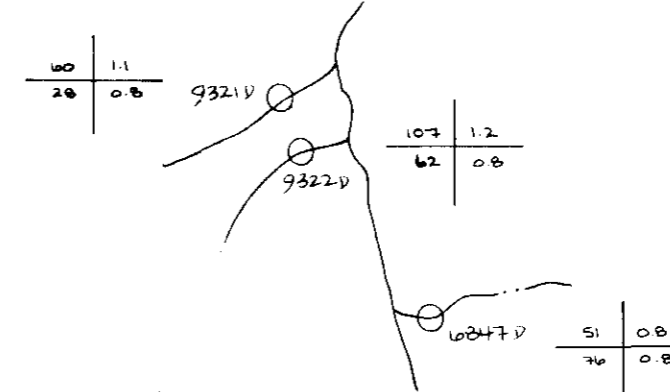
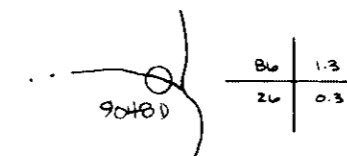
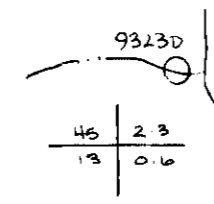
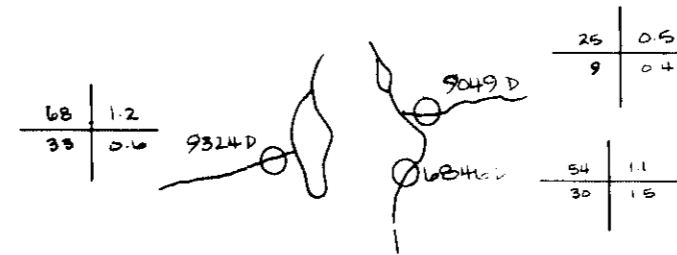
**KULTA PROJECT
GEOCHEMISTRY**
STREAM SEDIMENT SAMPLES
Mn, Mo, Pb & Zn in PPM.
ATLIN AREA, BRITISH COLUMBIA

metres 1000 0 1000 2000 3000 metres
0 1/2 1 mile

DATA BY	J.T.H., C.L.C.	REVISED	N.T.S. No. 104 M IE
DATE	81 09 23		ACT No 891-00
DRAWN BY	K.L.J., C.L.C.		DRWG No. KU.B1-41
DATE	81 09 09		

59°15' 134°15'

59°15' 134°00'



59°00' 134°15'

59°00' 134°00'

OLQGIC 1 BRANCH ASSESSMENT REPORT

16,381

LEGEND

8349 B
○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER

21 --- Cu (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
16 --- Cu (PPM) IN -80 MESH SAMPLE

0.8 --- Ag (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
0.3 --- Ag (PPM) IN -80 MESH SAMPLE

H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

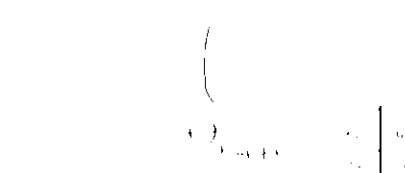
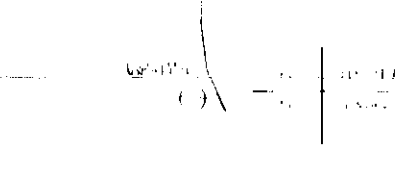
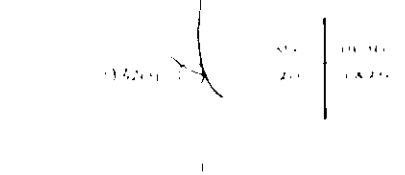
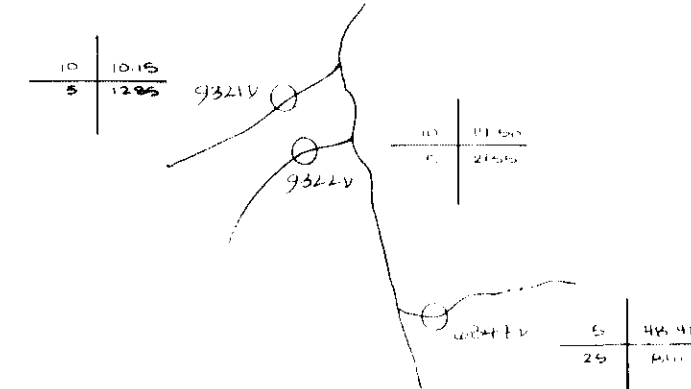
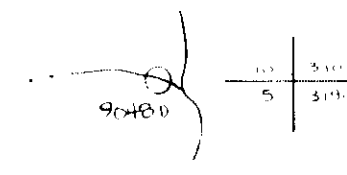
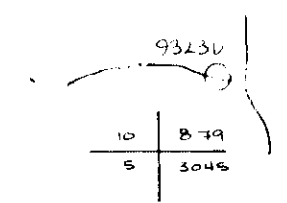
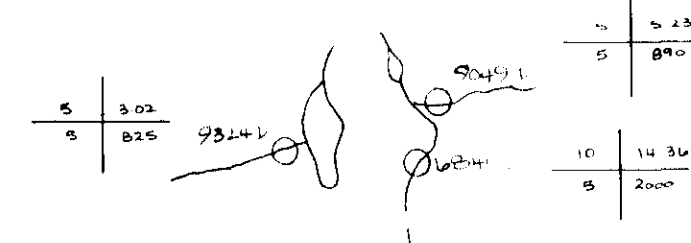


FOR SHEET INDEX SEE DRWG. No. KU.81-1

DUPONT EXPLORATION	
KULTA PROJECT GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES	
Ag & Cu in PPM.	
ATLIN AREA, BRITISH COLUMBIA	
DATA BY: J.T.N., C.L.C.	REVISED: N.T.S. No. 104 M IE
DATE: 81 05 23	ACTY No. 351-00
DRAWN BY: K.L.J., C.L.C.	DATE: 81 09 09
DATE: 81 09 09	DRWG. No. KU.81-40

Handwritten signature

59°15' 134°15'



59°00' 134°15'

GEOLOGIC BRANCH
ASSESSMENT REPORT

16,381

LEGEND

- 8343 B
○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 45 --- Au (PPB) IN H.M.F. OF -10+80 MESH SAMPLE
- 25 --- Au (PPB) IN -80 MESH SAMPLE
- 3.35 --- WEIGHT % OF H.M.F. IN -10+80 MESH SAMPLE
- 415 --- WEIGHT OF -80 MESH SAMPLE IN GRAMS
- H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES



OU PON EXPLORATION
CANADA

**KULTA PROJECT
GEOCHEMISTRY**
STREAM SEDIMENT SAMPLES
Au in PPB, % H.M. & Weight of -80 Mesh Sample
ATLIN AREA, BRITISH COLUMBIA

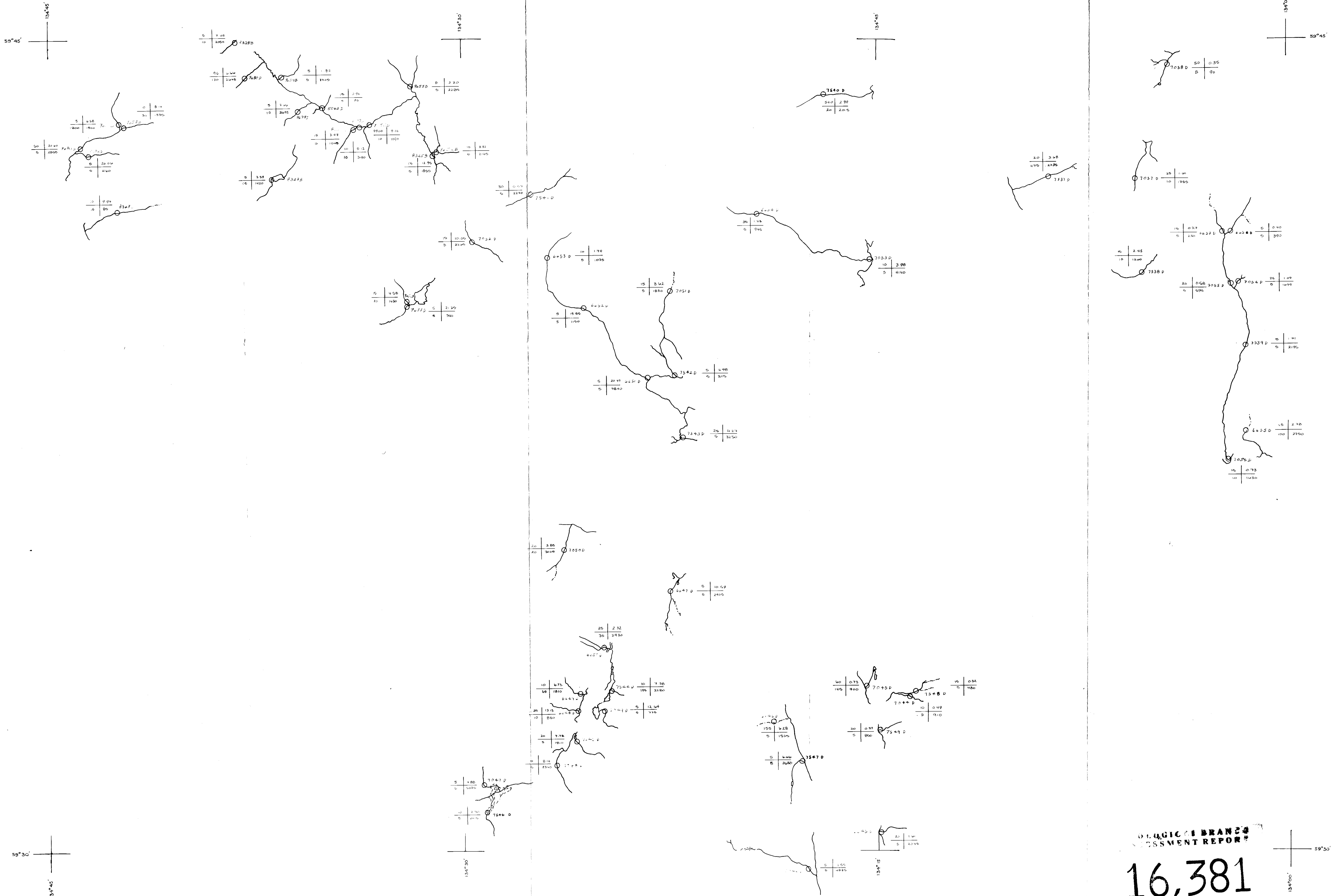
metres 1000 0 1000 2000 3000 metres
SCALE
mile 1/2 0 1 mile

MILES

DATA BY : J.T.N., C.L.C.	REVISED :	N.T.S. No. : 104 M 1E
DATE : 81 05 23		ACCT No. : 351-00
DRAWN BY : K.L.J., C.L.C.		DRWG No. : KU 81-39
DATE : 81 09 09		

FOR SHEET INDEX SEE DRWG. No. KU.81-1

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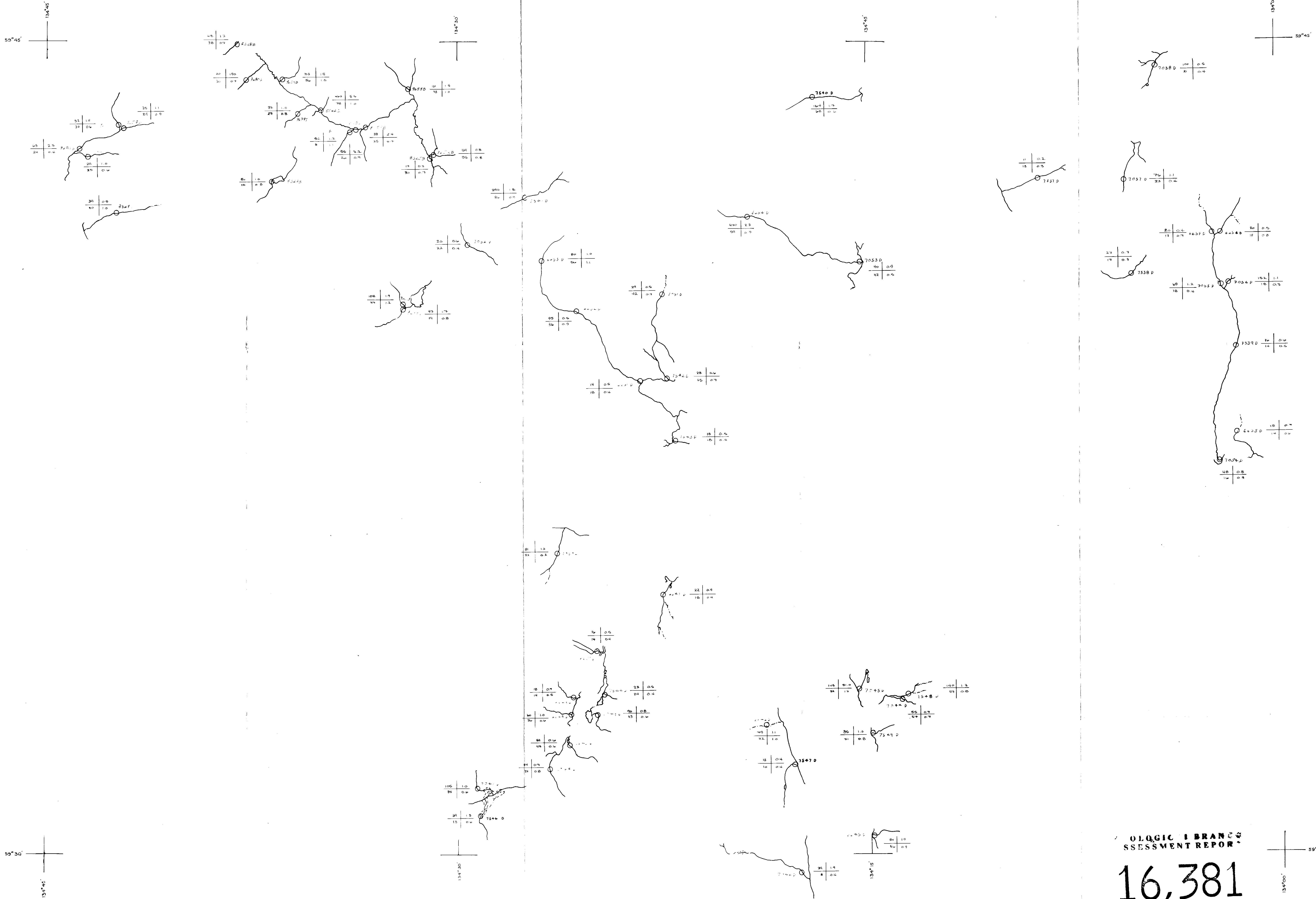
LEGEND

- 8540 B STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- Au (PPB) IN H.M.F. OF -10+80 MESH SAMPLE
- Au (PPB) IN -80 MESH SAMPLE
- 3.35 — WEIGHT % OF H.M.F. IN -10+80 MESH SAMPLE
- 4.15 — WEIGHT OF -80 MESH SAMPLE IN GRAMS
- H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

LOGICAL BRANCH
ASSESSMENT REPORT
16,381

DUPONT EXPLORATION CANADA	
KULTA PROJECT GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES	
Au in PPB, % H.M. & Weight of -80 Mesh Sample	
ATLIN AREA, BRITISH COLUMBIA	
DATA BY: J.T.M.	REVISED: N.T.S. No. 104 M 9 B 10E
DATE: 81 05 22	ACCT No.: 351-00
DRAWN BY: K.L.J., J.T.M.	DRWS. No.: KU.81-45
DATE: C.L.C. 81 09 10	



LEGEND

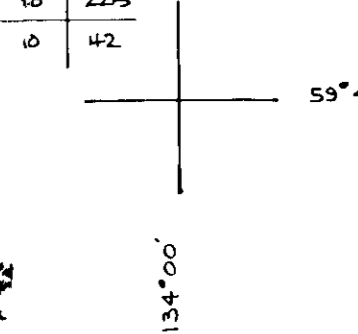
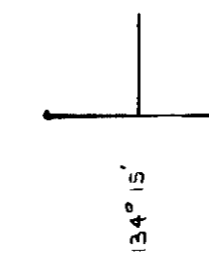
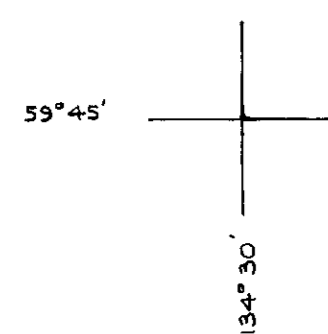
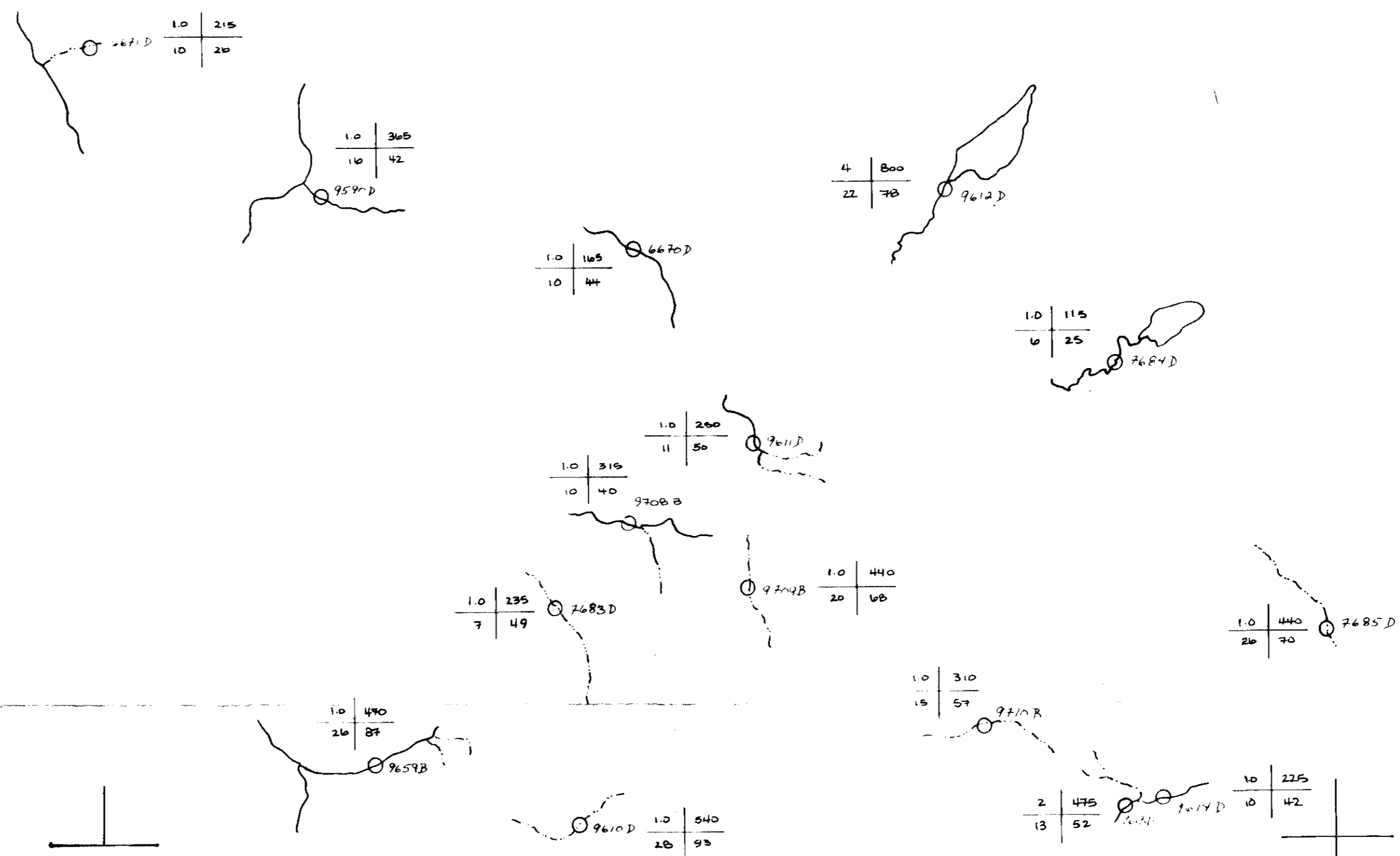
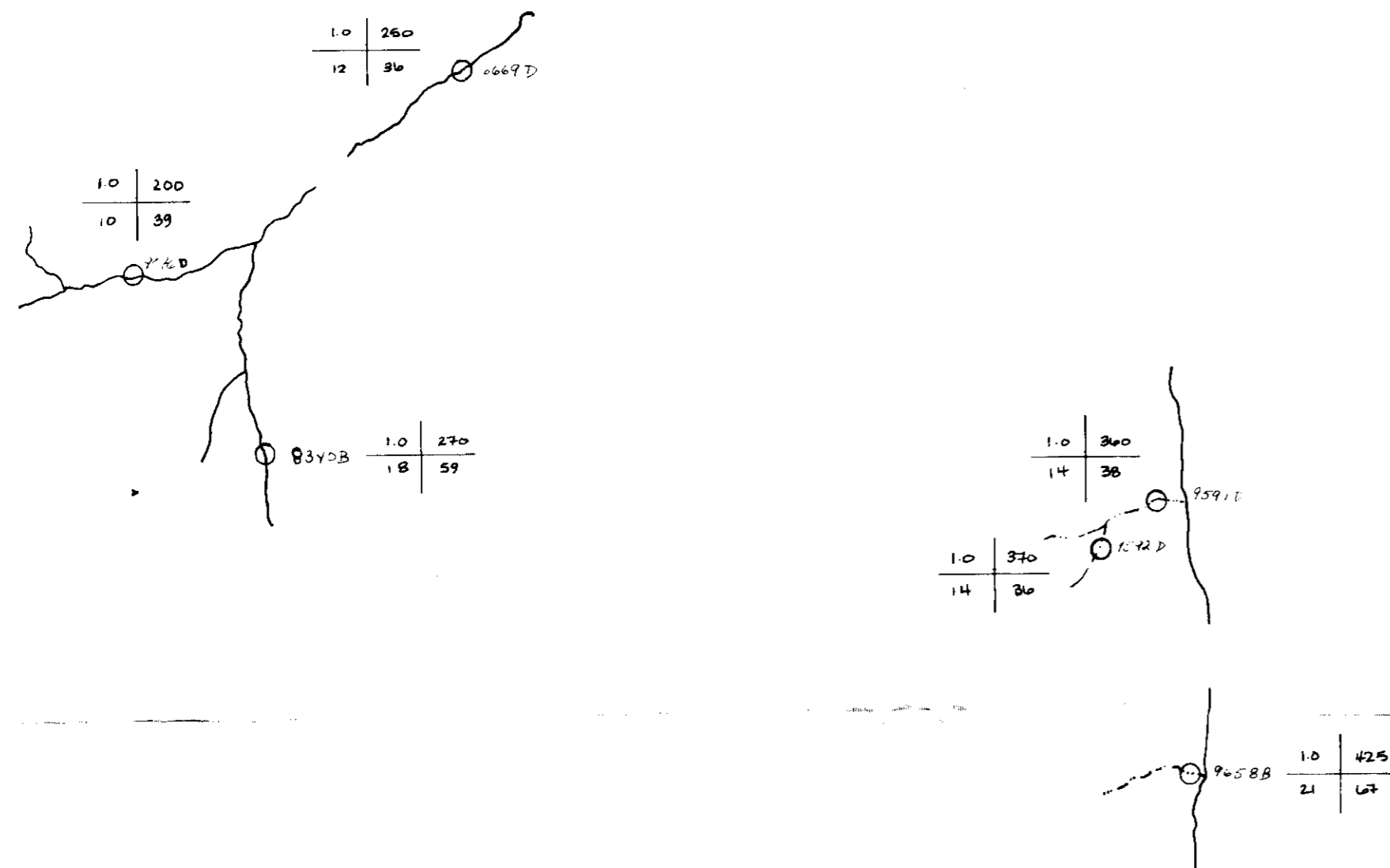
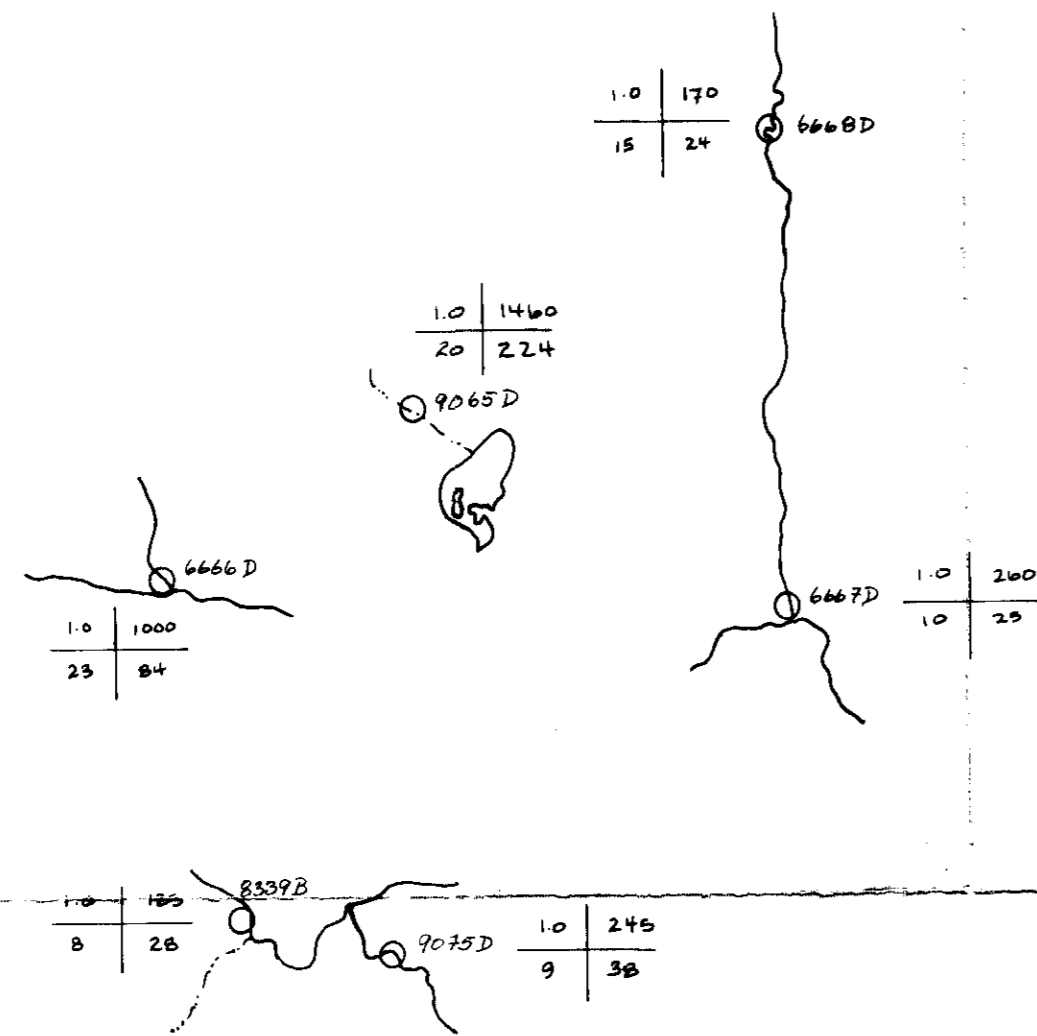
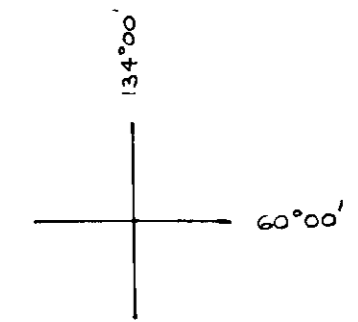
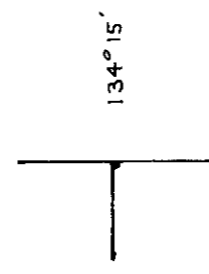
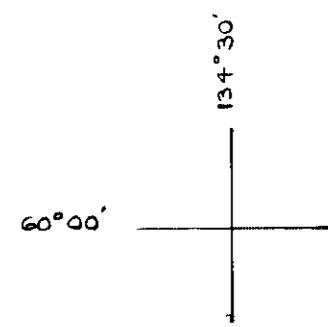
- 83498 ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 21+ | --- Cu (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
- 16+ | --- Cu (PPM) IN -80 MESH SAMPLE
- 0.8 --- Ag (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
- 0.3 --- Ag (PPM) IN -80 MESH SAMPLE
- H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

LOGIC BRANCH
ASSESSMENT REPORT

16,381

DU PONT EXPLORATION <small>CANADA</small>	
KULTA PROJECT GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES	
Ag & Cu in P.P.M.	
ATLIN AREA, BRITISH COLUMBIA	
DATA BY: J.T.N.	REVISED: N.T.S. No. 104 M 9 B 10E
DATE: 81 05 22	ACCT No. 351-00
DRAWN BY: K.L.J., J.T.N.	DATE: CLC 81 09 09
	DRWG No. KU.81-46



LEGEND

- 8548B ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 2+--- Mn (PPM) IN -80 MESH SAMPLE
- 13+--- Pb (PPM) IN -80 MESH SAMPLE
- 150+--- Mo (PPM) IN -80 MESH SAMPLE
- 42+--- Zn (PPM) IN -80 MESH SAMPLE

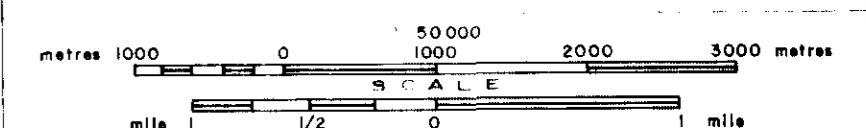
NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

LOGIC BRAND
ASSESSMENT REPORT

16,381

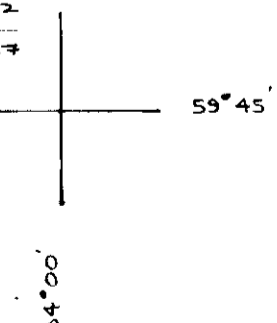
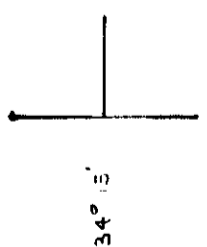
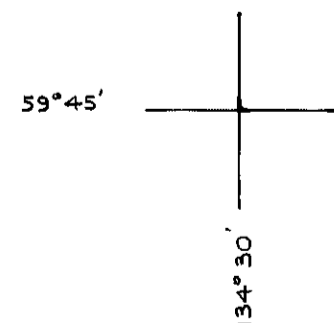
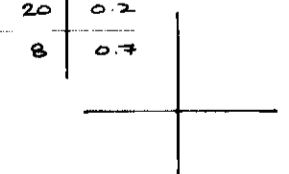
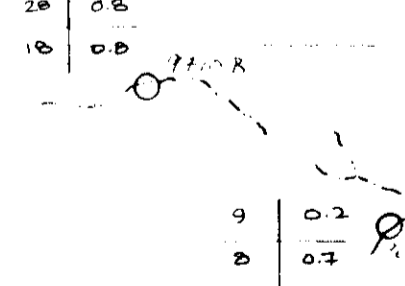
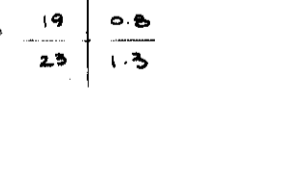
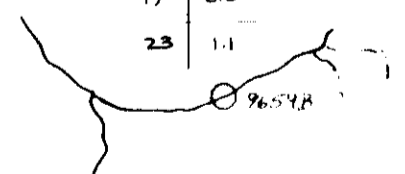
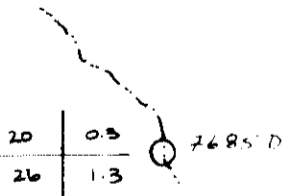
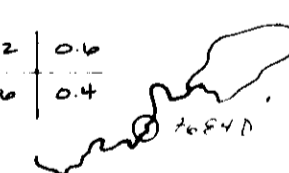
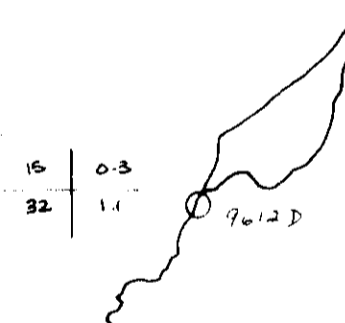
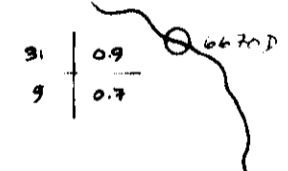
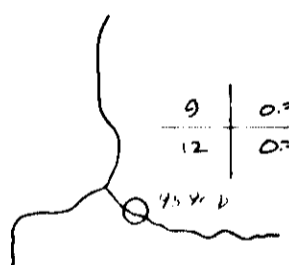
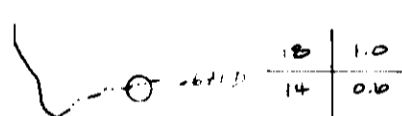
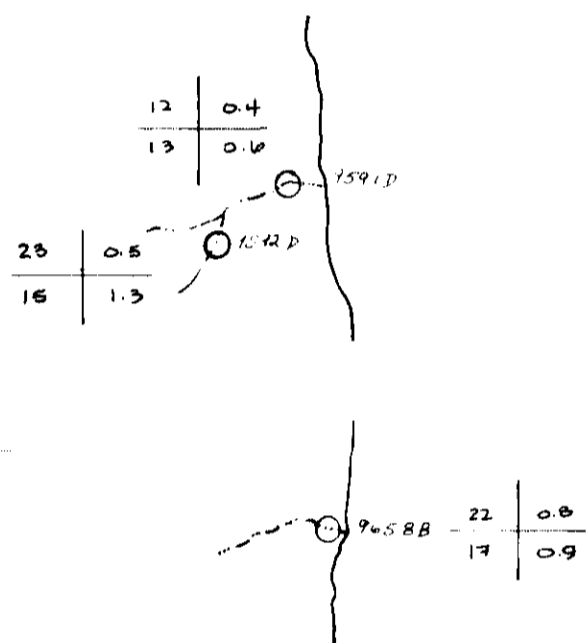
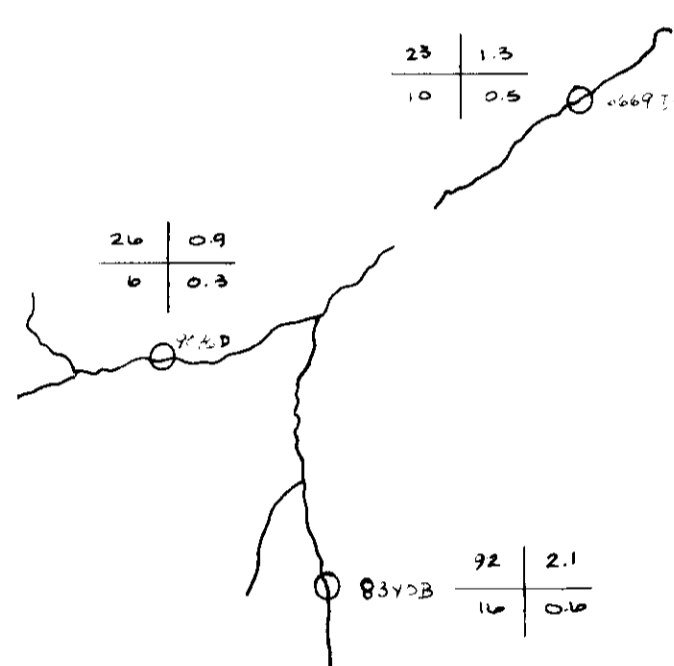
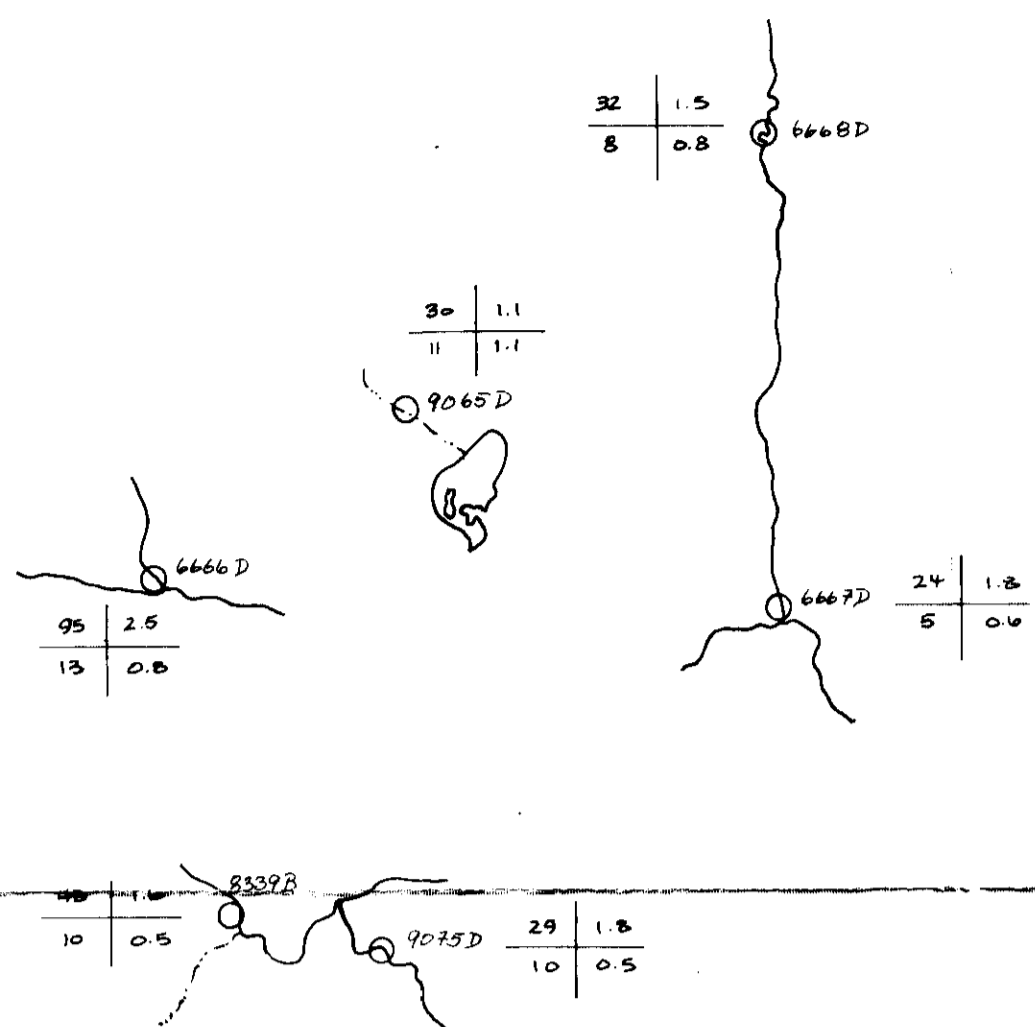
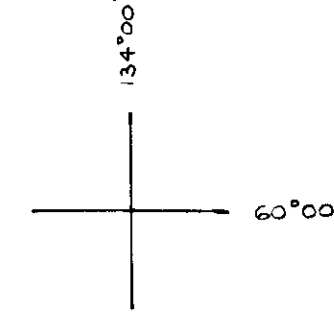
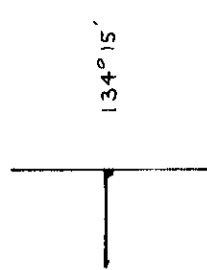
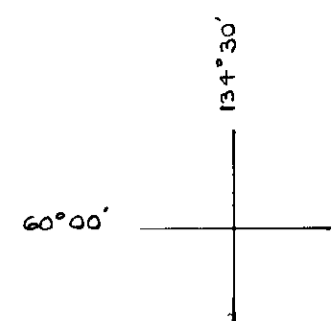
DUPONT EXPLORATION
CANADA

**KULTA PROJECT
GEOCHEMISTRY**
STREAM SEDIMENT SAMPLES
Mn, Mo, Pb & Zn in PPM.
ATLIN AREA, BRITISH COLUMBIA



DATA BY	J.T.N., L.D.C.	REVISED	NTS No. 104 M 16
DATE	81 05 25		ACCT No. 361-00
DRAWN BY	K.L.J., L.D.C.		DRWG No. KU.81-53
DATE	CLC. 81 09 11		

FOR SHEET INDEX SEE DRWG. NO. KU.81-53



LEGEND

8349B
 ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER

21 --- Cu (PPM) IN H.M.F. OF -10 +80 MESH SAMPLE
 16 --- Cu (PPM) IN -80 MESH SAMPLE

0.8 --- Ag (PPM) IN H.M.F. OF -10 +80 MESH SAMPLE
 0.3 --- Ag (PPM) IN -80 MESH SAMPLE

H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

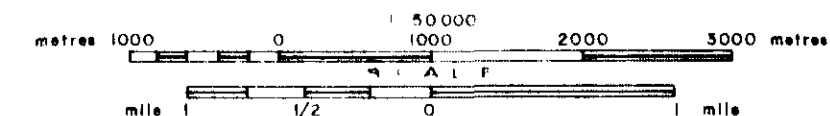
LOGIC BRAND
ASSESSMENT REPORT

16,381

DUPONT EXPLORATION
 CANADA

KULTA PROJECT
GEOCHEMISTRY
STREAM SEDIMENT SAMPLES
 Ag & Cu in P.P.M.

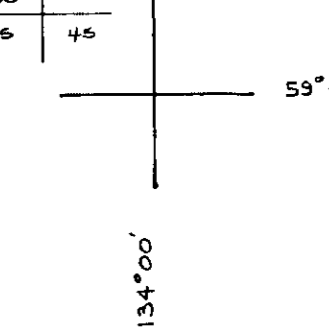
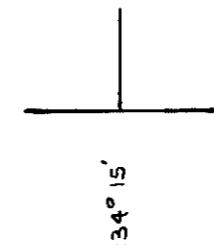
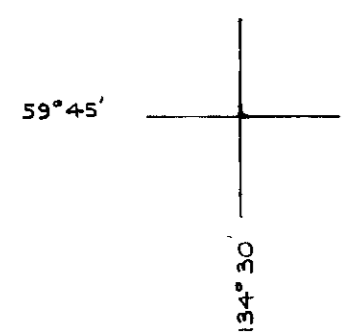
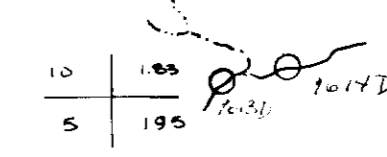
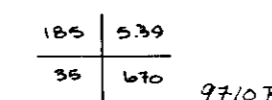
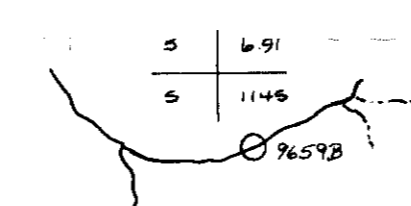
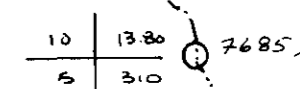
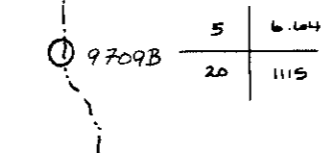
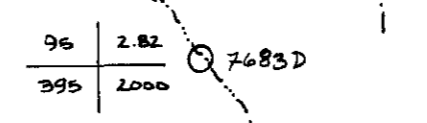
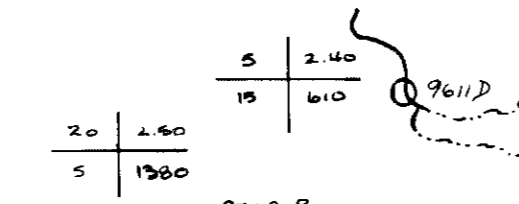
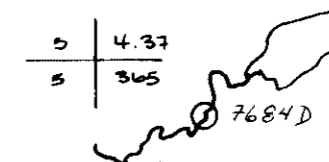
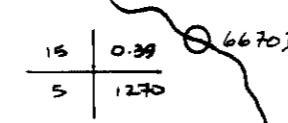
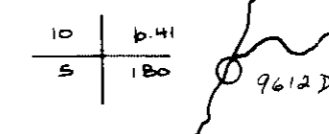
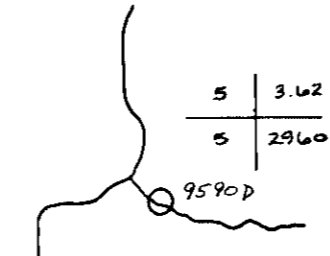
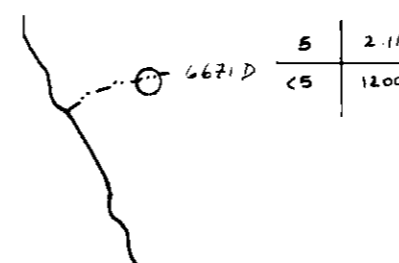
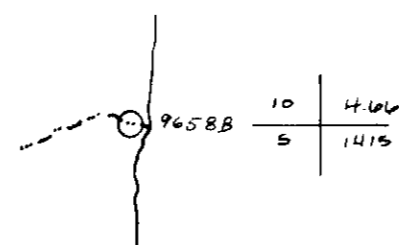
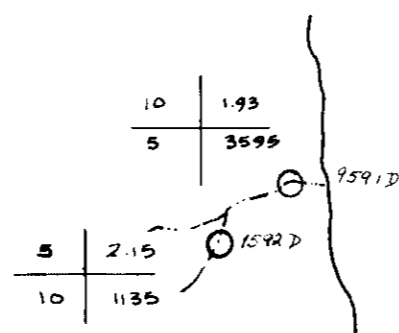
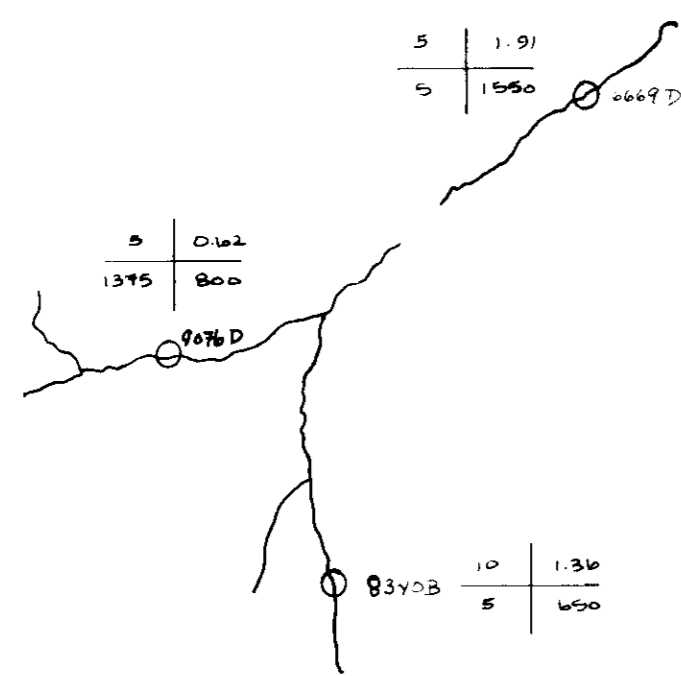
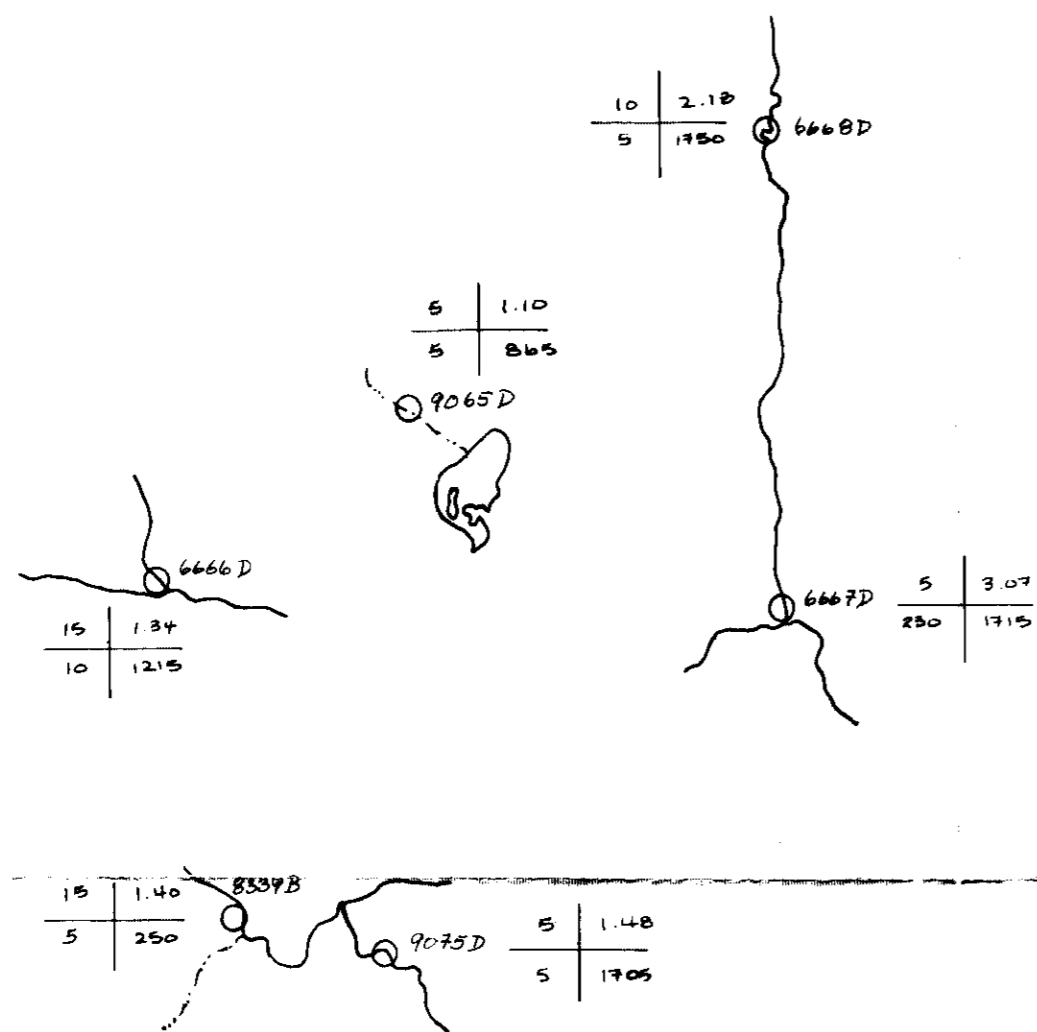
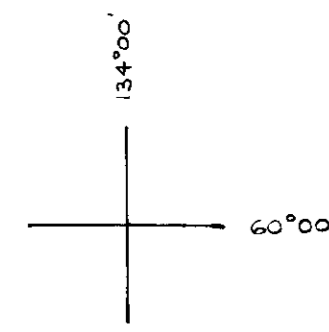
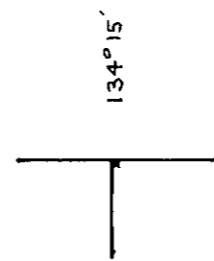
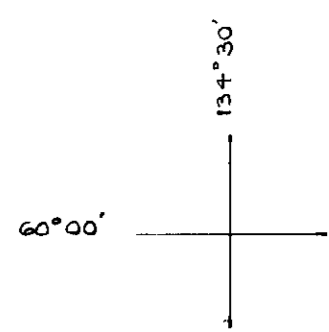
ATLIN AREA, BRITISH COLUMBIA



DATA BY	J.T.N. L.D.C.	REVISED	N.T.S. No. 104 M 16
DATE	81.05.25		ACT No. 581-00
DRAWN BY	K.L.J. L.D.C.		
DATE	CLC. 81.09.11		DRWG No. KU.81-52

FOR SHEET INDEX SEE DRWG No. KU.81-

[Handwritten signature]



LEGEND

8349 B
○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER

45 --- Au (PPB) IN H.M.F. OF -10+80 MESH SAMPLE
25 --- Au (PPB) IN -80 MESH SAMPLE

3.35 --- WEIGHT % OF H.M.F. IN -10+80 MESH SAMPLE
415 --- WEIGHT OF -80 MESH SAMPLE IN GRAMS

H.M.F. HEAVY MINERAL FRACTION

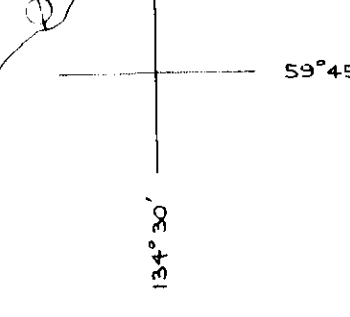
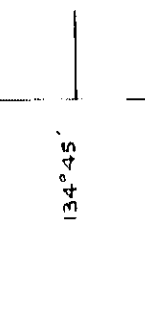
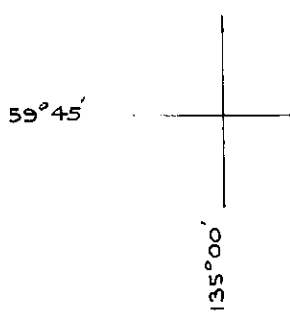
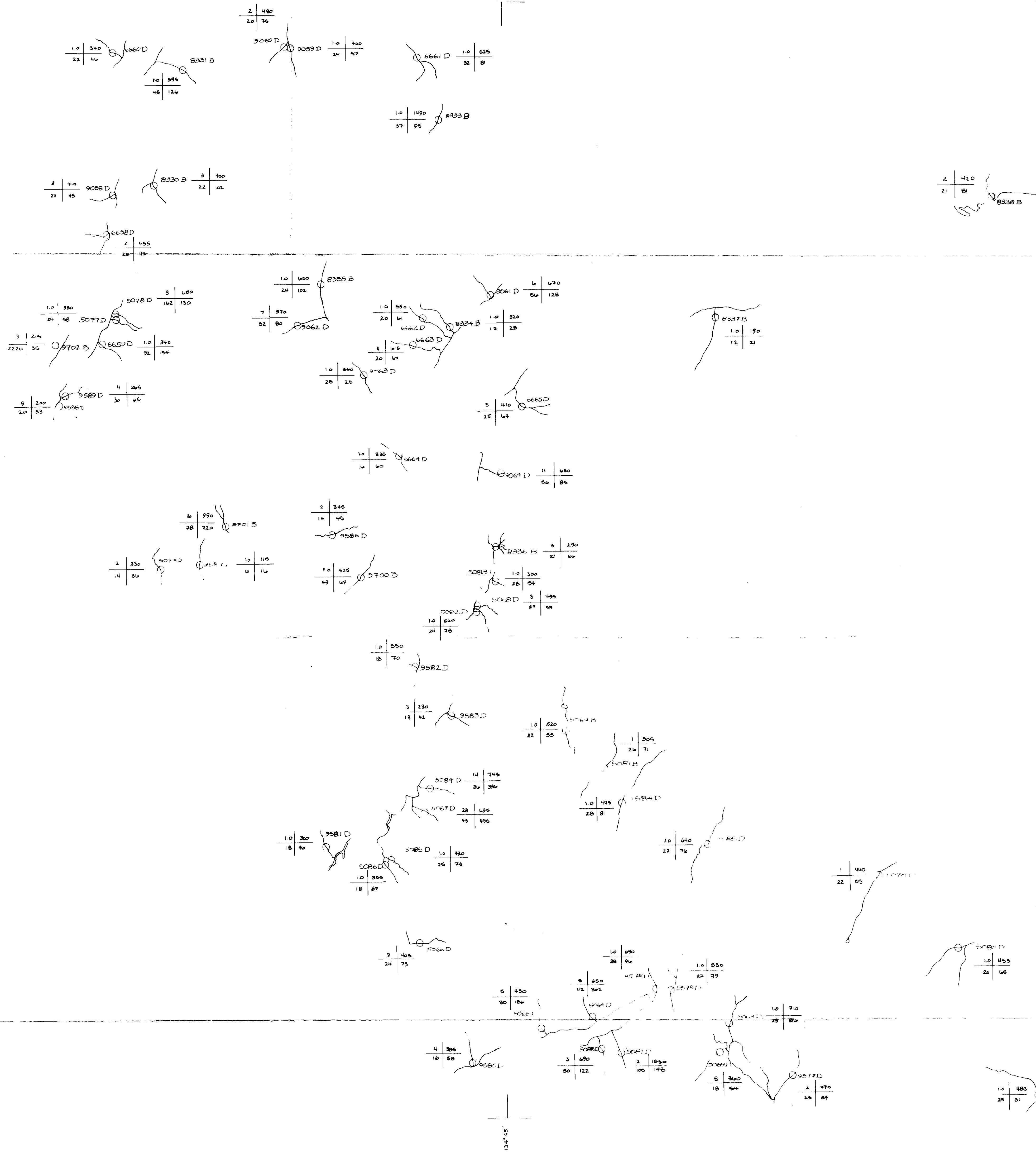
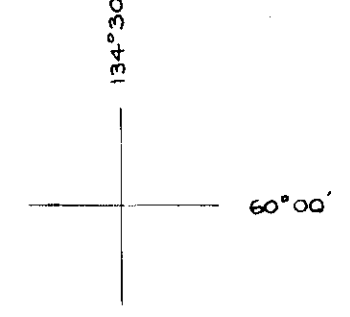
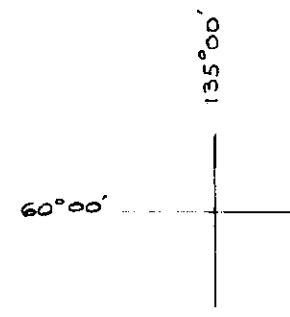
NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

**ATLON TERRAN
ELEMENT REPORT**

16,381

DU PONT EXPLORATION CANADA	
KULTA PROJECT GEOCHEMISTRY	
STREAM SEDIMENT SAMPLES	
Au in PPB, % H.M. & Weight of -80 Mesh Sample	
ATLON AREA, BRITISH COLUMBIA	
metres 1000 0 1000 2000 3000 metres SCALE miles 1/2 1 mile MILES	
DATA BY: J.T.N. L.D.C.	REVISED: N.T.S. No. 104 M 16
DATE: 81 05 25	ACCT No.: 351-00
DRAWN BY: K.L.J. L.D.C.	DRWG. No.: KU-BI-51
DATE: 81 09 11	

FOR SHEET INDEX SEE DRWG. NO. KU-BI-1



LEGEND

8349 B
 STREAM SEDIMENT SAMPLE LOCATION & NUMBER

- Mo (PPM) IN -80 MESH SAMPLE
- Pb (PPM) IN -80 MESH SAMPLE
- Mn (PPM) IN -80 MESH SAMPLE
- Zn (PPM) IN -80 MESH SAMPLE

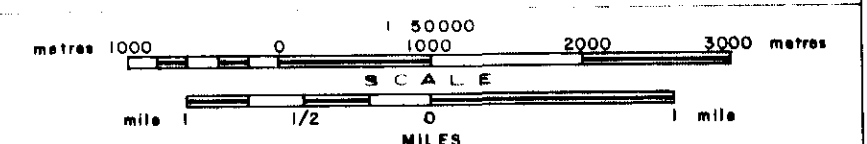
NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

LOGGIC I BRAN
 ASSESSMENT REPORT

16,381

DUPONT EXPLORATION
 CANADA

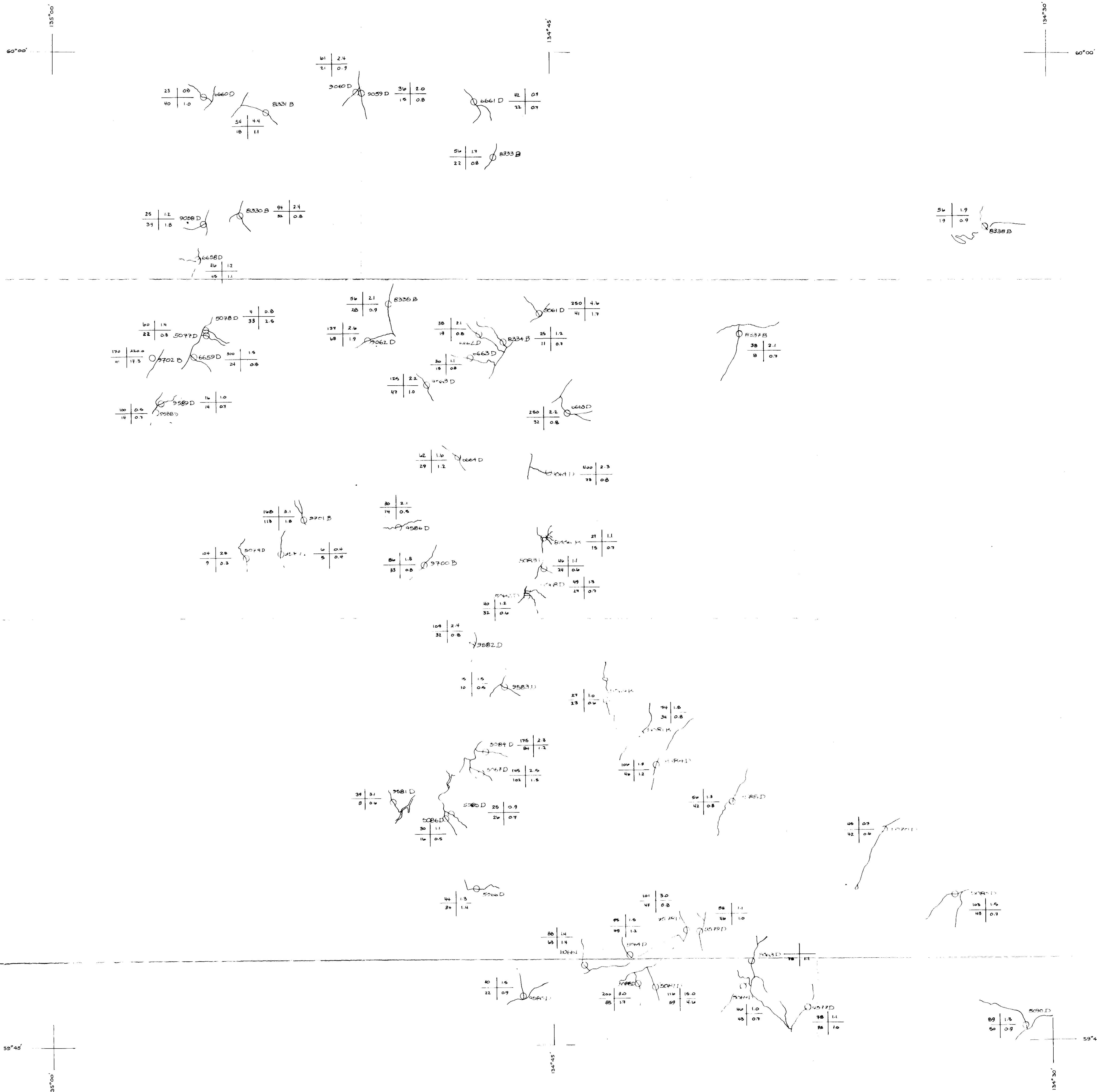
**KULTA PROJECT
 GEOCHEMISTRY**
 STREAM SEDIMENT SAMPLES
 Mn, Mo, Pb & Zn in P.P.M.
 ATLIN AREA, BRITISH COLUMBIA



DATA BY	J.T.N., C.L.C.	REVISED	N.T.S. No. 104 M 15
DATE	81 05 23		ACCT No. 381-00
DRAWN BY	K.L.J., C.L.C.		DRWG No. KU. 81-50
DATE	81 09 11		

FOR SHEET INDEX SEE DRWG No. KU. 81-1

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LEGEND

8349 B
 ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER

21 --- Cu (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
 16 --- Cu (PPM) IN -80 MESH SAMPLE

0.8 --- Ag (PPM) IN H.M.F. OF -10+80 MESH SAMPLE
 0.3 --- Ag (PPM) IN -80 MESH SAMPLE

H.M.F. HEAVY MINERAL FRACTION

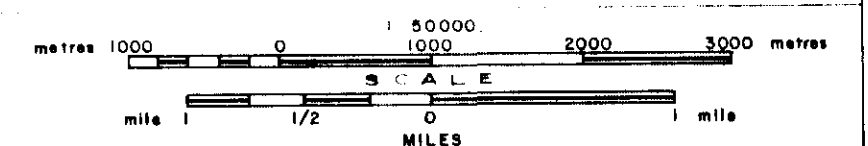
NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

LOGIC BRAND
 ASSESSMENT REPORT

16,381

QUIPON EXPLORATION
 CANADA

KULTA PROJECT
GEOCHEMISTRY
 STREAM SEDIMENT SAMPLES
 Ag & Cu in PPM.
 ATLIN AREA, BRITISH COLUMBIA



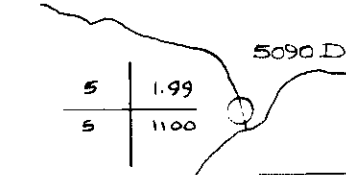
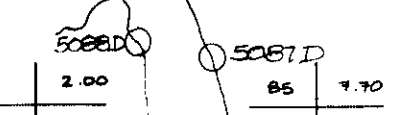
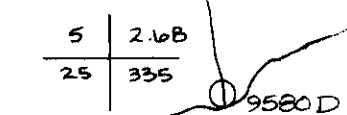
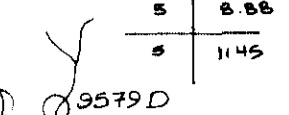
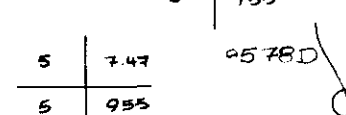
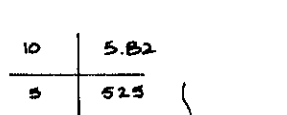
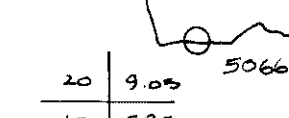
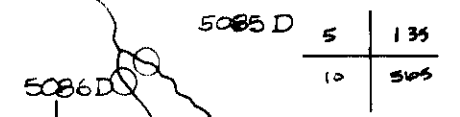
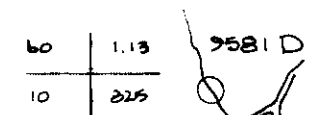
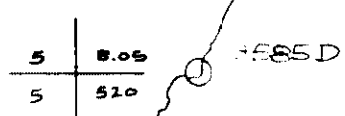
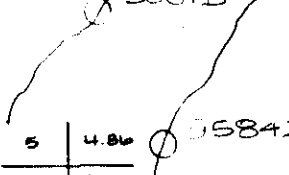
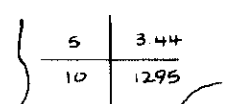
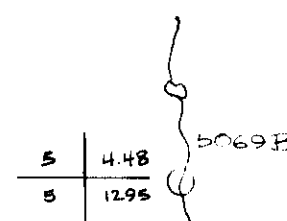
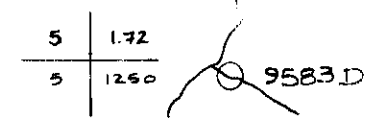
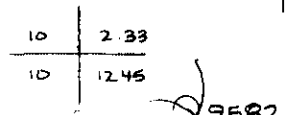
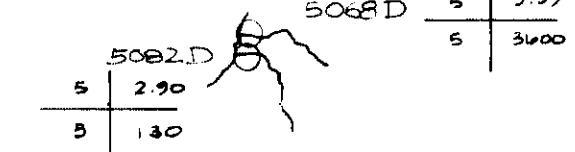
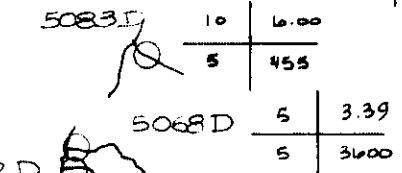
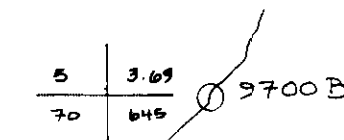
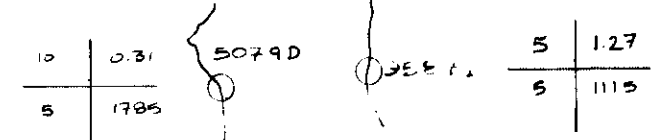
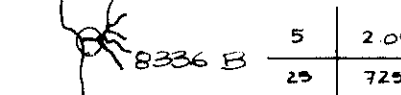
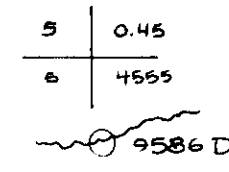
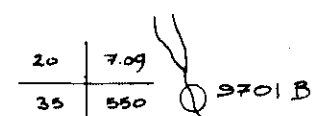
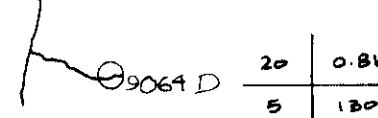
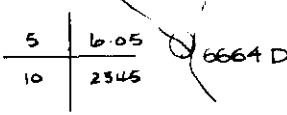
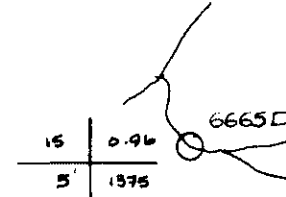
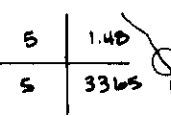
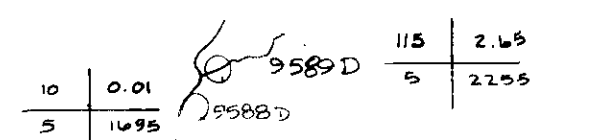
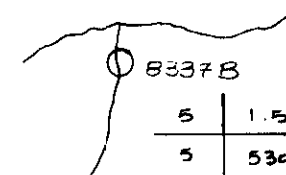
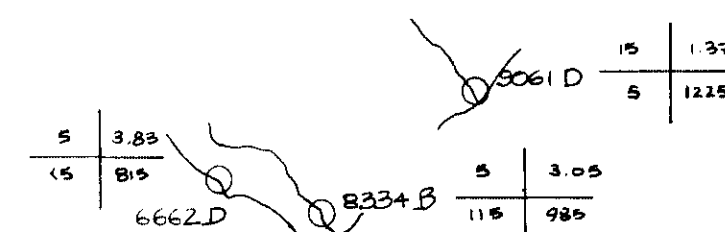
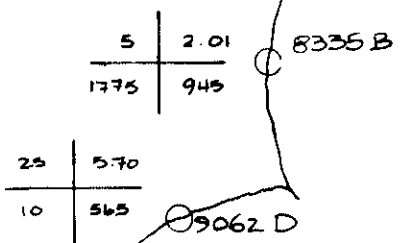
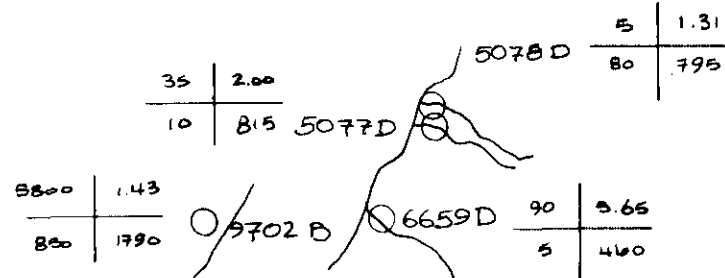
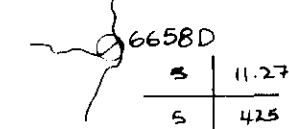
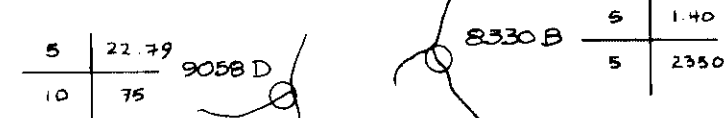
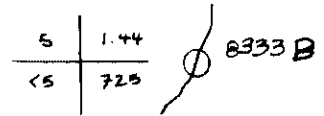
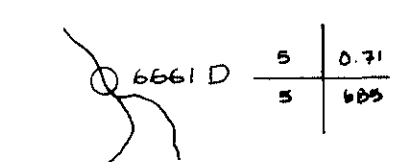
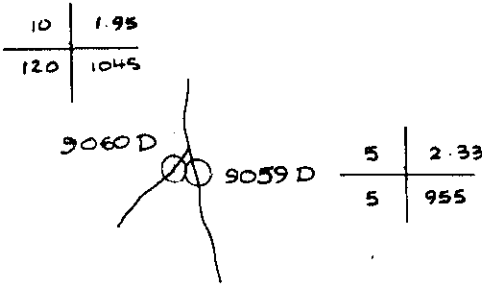
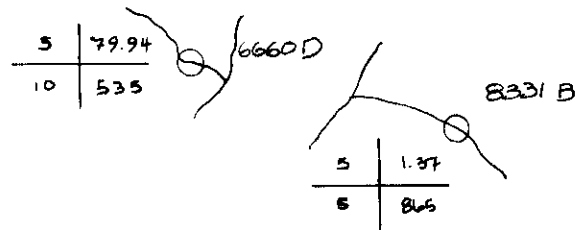
DATA BY	J.T.M., C.L.C.	REVISED	NTS No	104 M 15
DATE	81 05 23		ACCT No	381-00
DRAWN BY	K.L.J., C.L.C.		DRWG No	KU.81-49
DATE	81 09 10			

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60°00' 135°00'

134°45'

134°30'



59°45' 135°00'

134°45'

134°30'

LEGEND

- 8545 B ○ STREAM SEDIMENT SAMPLE LOCATION & NUMBER
- 45 --- Au (PPB) IN H.M.F. OF -10+80 MESH SAMPLE
- 15 --- Au (PPB) IN -80 MESH SAMPLE
- 3.35 --- WEIGHT % OF H.M.F. IN -10+80 MESH SAMPLE
- 4.5 --- WEIGHT OF -80 MESH SAMPLE IN GRAMS
- H.M.F. HEAVY MINERAL FRACTION

NOTE: SEE ACCOMPANYING REPORT FOR SAMPLING, PREPARATION AND ANALYTICAL PROCEDURES

GEOLOGIC LIBRARY ASSESSMENT REPORT

16,381

DUPONT EXPLORATION
CANADA

KULTA PROJECT
GEOCHEMISTRY
STREAM SEDIMENT SAMPLES
Au in PPB, % H.M. & Weight of -80 Mesh Sample
ATLIN AREA, BRITISH COLUMBIA

1:50000
SCALE
0 1000 2000 3000 METERS
0 1 2 MILES

DATA BY: J.T.N., C.L.C.	REVISED:	N.T.S. No.: 104 M 15
DATE: 81 05 23		ACCT No.: 381-00
DRAWN BY: K.L.J., C.L.C.		
DATE: 81 09 11		DRWG No.: KU.81-48

FOR SHEET INDEX SEE DRWG. No. KU.81-1

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