

# BROOKLYN RESOURCES INC.

ASSESSMENT REPORT ON THE  
LAB 1-4 MINING CLAIMS  
LIARD M.D.  
British Columbia

57°25'N. Latitude, 130°22 W. Longitude

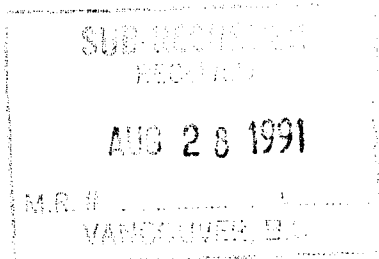
NTS 104G/8W

Prepared for:

BROOKLYN RESOURCES INC.  
929-470 Granville St.,  
Vancouver, B.C.  
V6C 1V5

By:

Marvin A. Mitchell P.Eng.  
716-850 W. Hastings St.,  
Vancouver, B.C.  
V6C 1E1



August 22, 1991

LOG NO: SEP 09 1991	RD.
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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,622

## SUMMARY

On July 14, 1990 the writer visited the Lab group of mining claims, optioned by Brooklyn Resources Inc., which are located 10 km (6 miles) west of the Stewart-Cassiar Highway about half way between Bob Quinn Lake and Iskut B.C.

The claims were examined and sampled and a report was written recommending further work on them.

The claims were staked as location ground on the east border of a group of claims held by Noranda. Noranda's claims contain several pyritic stringer zones anomalous in zinc, arsenic and gold, hosted by the same sequence of pillowed basalts that underlie most of the LAB claims

The LAB 4 claim contains small pyritic, silicified zones which carry slightly elevated geochemical gold values, anomalous arsenic values and one anomalous zinc value. Two samples from one zone on the LAB 4 claim assayed 50 and 35 ppb gold, and arsenic above 100 ppm. One sample of pyritic pillowed basalt in the footwall of this zone assayed 45 ppb gold, 145 ppm arsenic and 270 ppm zinc. A slightly rusty stained zone was seen to the east of the showing and appeared to have a good areal extent. A National Geochemical Reconnaissance sample taken in the drainage from the area sampled by the writer assayed 429 ppm zinc.

The cost of the property examination and the prospecting was \$8,636.45 including support by helicopter and ground transportation. Included in this total is \$4,627.75 for orthophoto coverage of the area.

An exploration programme consisting of silt, soil, and rock geochemical sampling, prospecting and geologic mapping is recommended for the LAB claims at a cost of CDN \$48,650. The programme is expected to last ten days.

## INTRODUCTION

The LAB 1-9 claims are located approximately 10 km (6 miles) west of the Stewart-Cassiar Highway about half way between Bob Quinn Lake and the settlement of Iskut B.C., in north western British Columbia.

Brooklyn Resources Inc., of Suite 929-470 Granville St., Vancouver, B.C. V6C 1V5, has entered into an option agreement to explore this property.

Mr. Victor H. Eaton, the President of Brooklyn Resources, has requested the writer to prepare this assessment report based on the results of his examination of the property.

To accomplish this assignment, the writer visited the property on July, 14, 1990 accompanied by Mr. C.W. Brown and after a helicopter reconnaissance of the whole property to identify gossan zones from the air, sampled one zone.

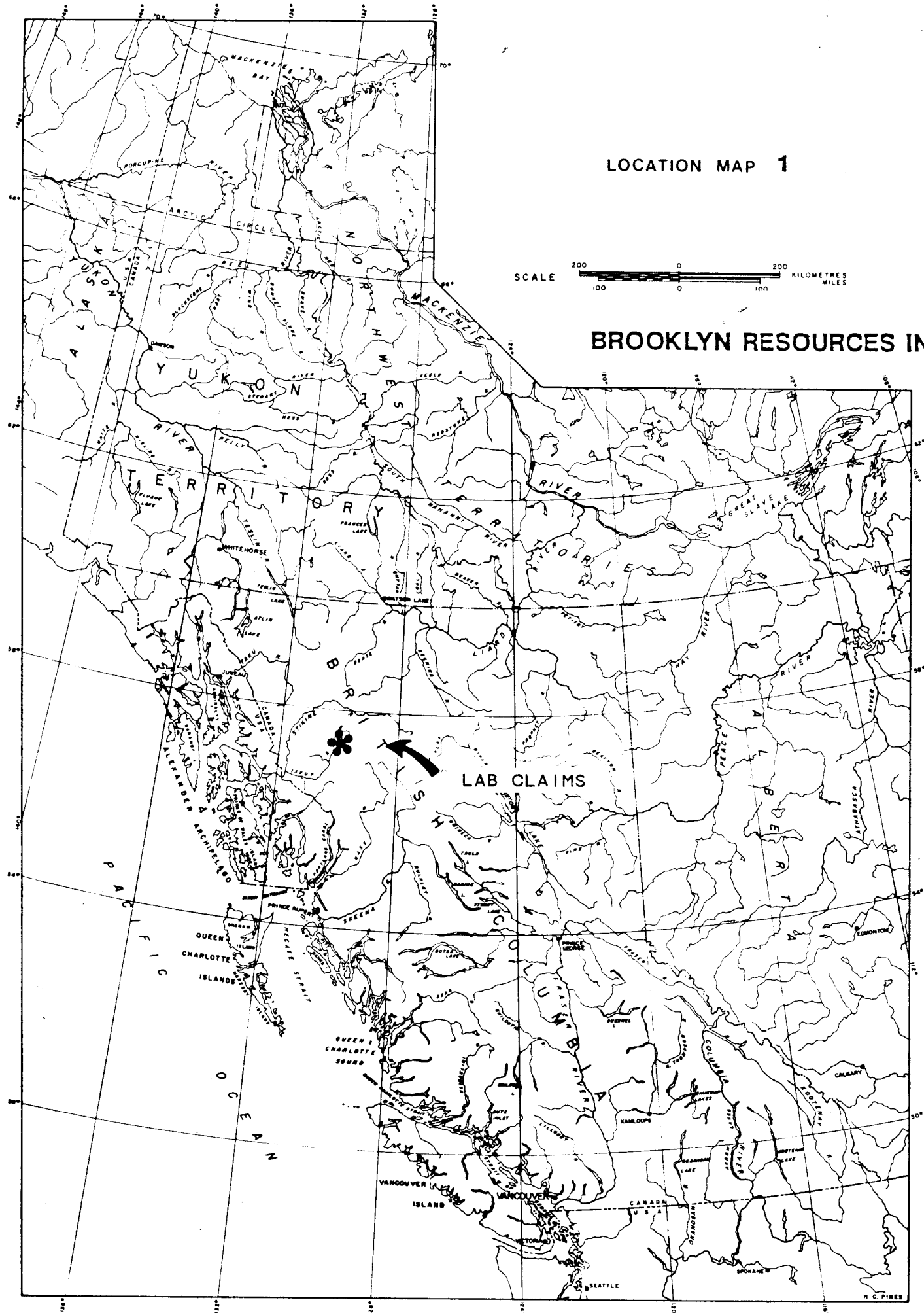
A cursory check of the Lab 5 through Lab 9 did not show any zones of gossan and so the bulk of the prospecting was performed on the Lab 1 through 4.

This report is based on the property examination and on a report written on July 27, 1990 for Brooklyn Resources and contains maps published for that report.

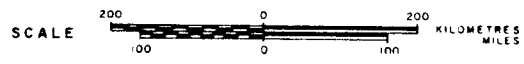
## LOCATION AND ACCESS

The Lab 1-9 claims are located approximately 7 km (4 miles) west of the confluence of the Little Iskut and Iskut Rivers on the Refuge Lake Map Sheet, NTS 104G/8W Liard M.D, north west British Columbia. The centre of the property is at 57° 25' North Latitude and 130° 22' West Longitude. fig. 1 & 2.

Access to the property is via B.C. Highway 37 north from Kitwanga on B.C. Highway 16 to either Bob Quinn Lake or Iskut B.C. distances of 320 and 420 km (190 and 250 miles) respectively. The property is approximately half way between these locations and is accessible

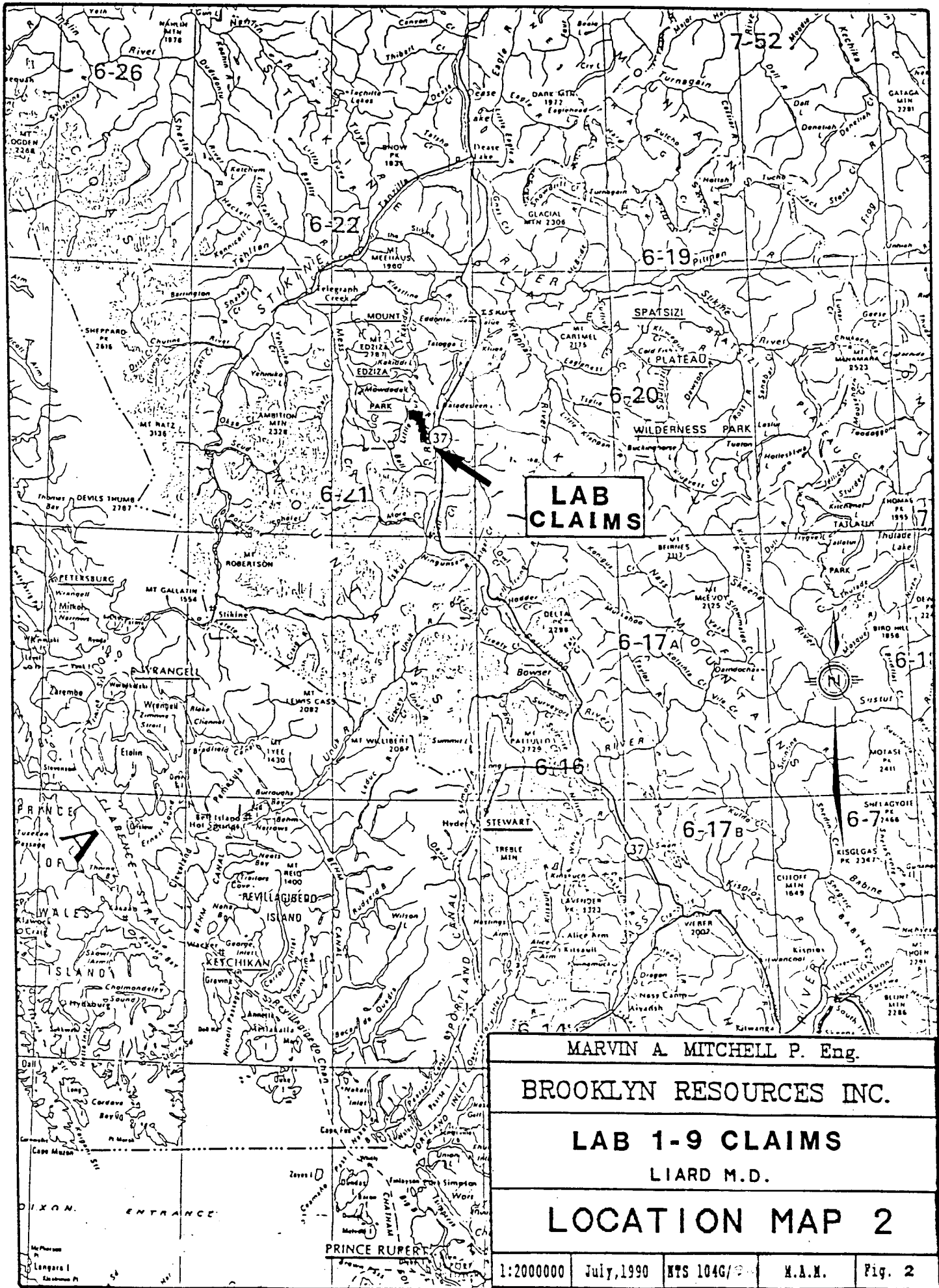


LOCATION MAP 1



BROOKLYN RESOURCES INC.

FIGURE - I



**LAB CLAIMS**

MARVIN A. MITCHELL P. Eng.			
BROOKLYN RESOURCES INC.			
LAB 1-9 CLAIMS			
LIARD M.D.			
LOCATION MAP 2			
1:2000000	July, 1990	NTS 104G/2	M.A.M. Fig. 2

only by helicopter.

### PHYSIOGRAPHY

The Lab claims are located on the rugged east and north sides of the Tahtlan Highland (Stikine Plateau). The plateau reaches an elevation of 2170 m ( 7,122 ft ) just west of the claims.

The east side of the plateau where the claims are located are scalloped by a series of small cirques separated by arretes or ridge spurs, Some of the cirques still contain small ice falls. The elevation of the west boundary of the claims is roughly 1,830 m (6,000 ft) dropping to 1,035 m (3,400 ft) 2,000 m to the east at the east boundary of the claims near the floor of the Iskut River valley. fig. 3

Approximately 50% of the claims area is above the tree line at 1,220 m (4,000 ft) elevation and is devoid of vegetation.

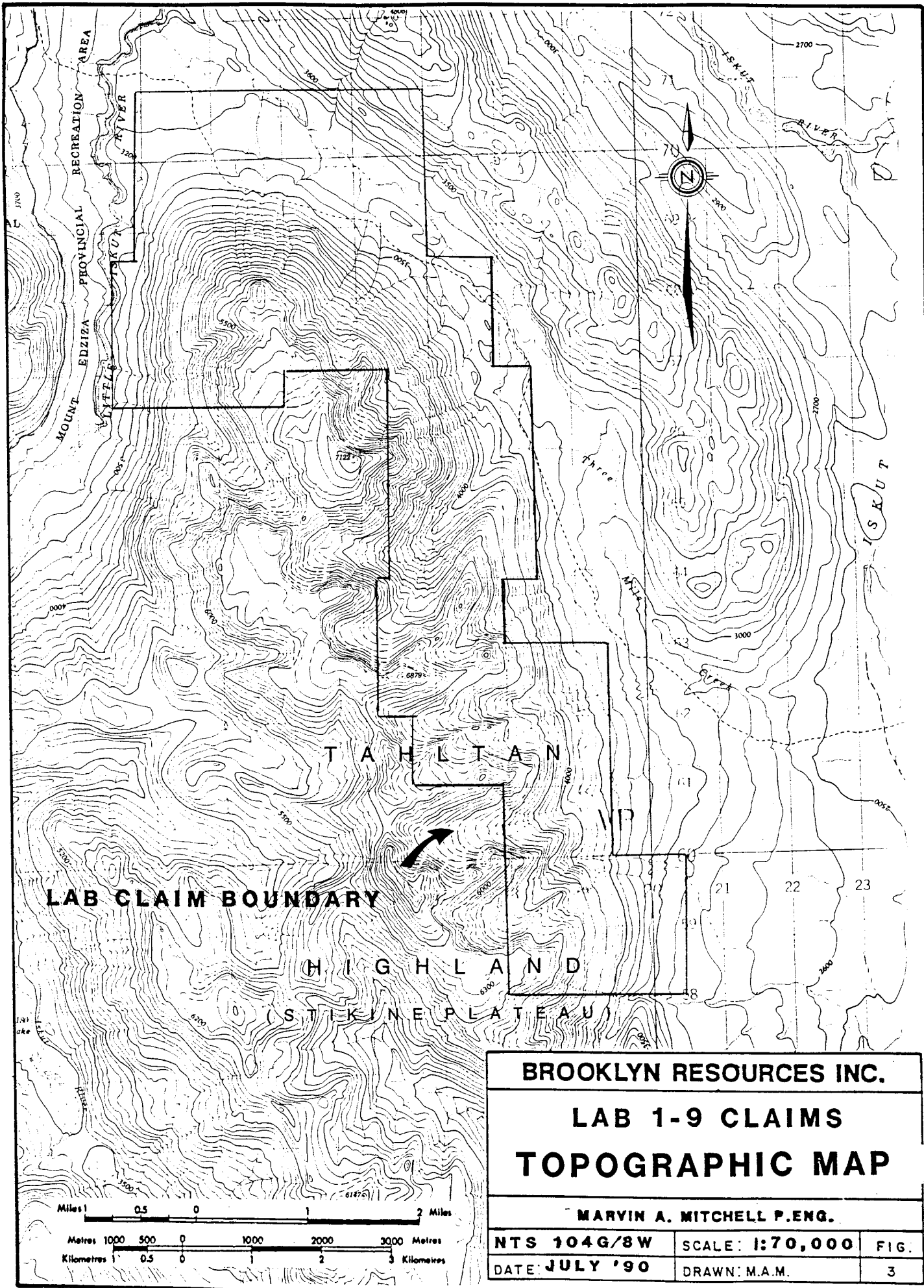
### DESCRIPTION OF CLAIMS

The property consists of four MGS claims described as follows:

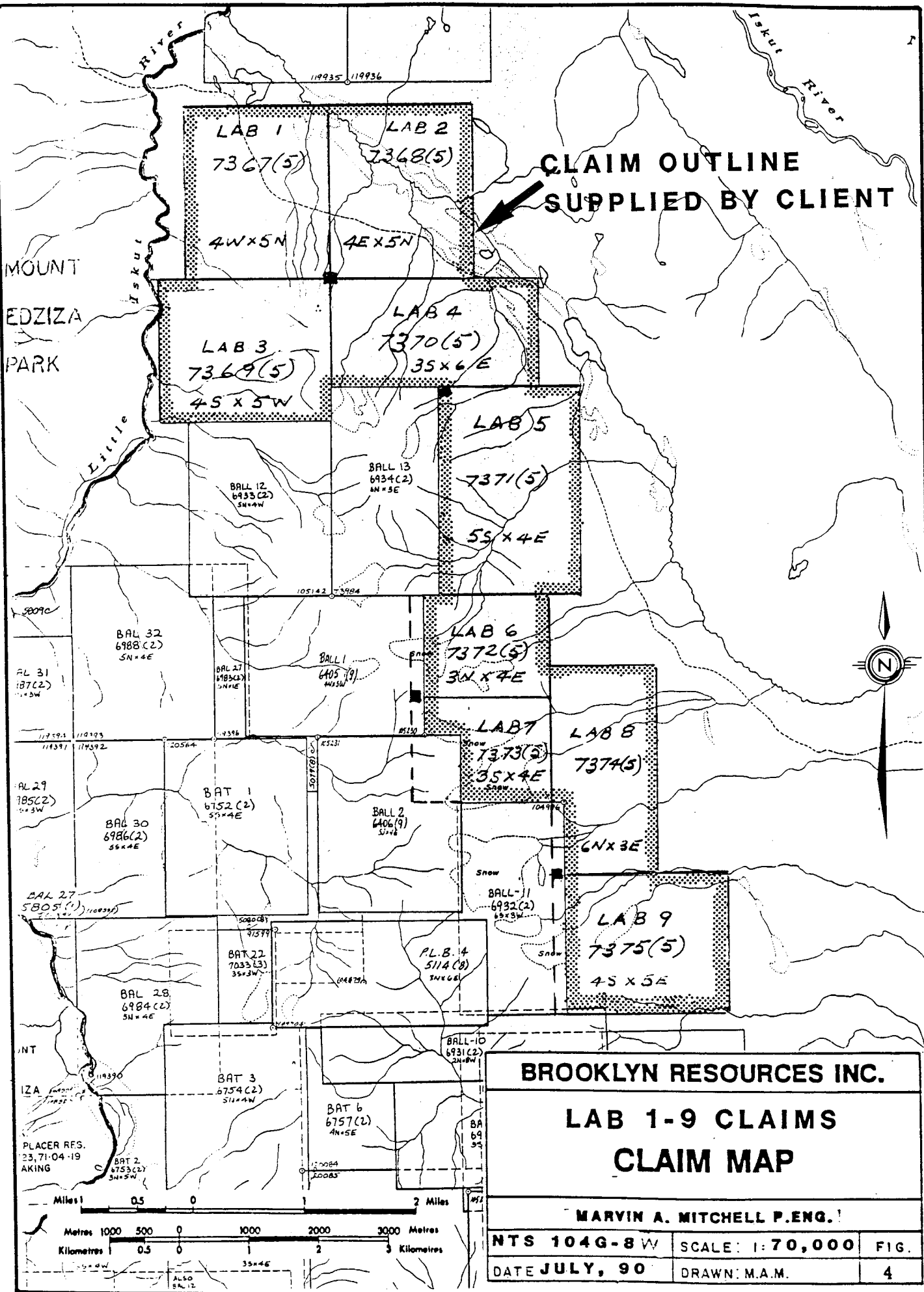
NAME	RECORD NO.	NO OF UNITS	RECORD DATE
LAB 1	7367(5)	20	MAY 28,1990
LAB 2	7368(5)	20	May 28,1990
LAB 3	7369(5)	20	May 28,1990
LAB 4	7370(5)	18	May 28,1990

The claim boundaries shown on fig. 4 were supplied by the client. The LCP for the LAB 1,2,3, and 4 claims was found during the property examination.

A total of \$7,800.00 of assessment work is necessary to the keep the claims in good standing for the assessment year ending in May, 1991.







**CLAIM OUTLINE  
SUPPLIED BY CLIENT**

<b>BROOKLYN RESOURCES INC.</b>		
<b>LAB 1-9 CLAIMS CLAIM MAP</b>		
<b>MARVIN A. MITCHELL P.ENG.</b>		
<b>NTS 104G-8 W</b>	<b>SCALE: 1:70,000</b>	<b>FIG.</b>
<b>DATE JULY, 90</b>	<b>DRAWN: M.A.M.</b>	<b>4</b>

## PROPERTY AND AREA HISTORY

The LAB claims were staked as location ground to complement the BALL claims located immediately to the west, which are currently being explored by Noranda, and as such have had no exploration performed on them. The Ball claims have several north-north west trending pyrite stringer zones that contain scattered anomalous values in zinc, antimony and gold. The host rock for these zones is a Middle Jurassic volcanic-volcaniclastic suite which also underlies most of the LAB claims.

## GEOLOGY

The principal rock unit underlying the Lab claims is a series of pillow lavas, tuff-breccias, derived volcanoclastics and related sub-volcanic intrusives belonging to an unnamed Middle Jurassic volcanic suite.

These rocks are underlain by Lower Jurassic sediments which, to the west of the property overlie volcanic and volcanoclastic rocks slightly younger than the Upper Triassic Stuhini Group.

The rocks underlying the property have been folded and, apparently faulted in a north west and north-north west direction but regional metamorphism appears to be of low grade and excellent examples of the pillowed basalts may be seen in the cirque wall on the LAB 4 claim.

A north-north west striking andesite dike swarm was noted in the walls of a small cirque on the LAB 7 claim. The dikes are steeply dipping, exhibit columnar jointing and are from 10 to 25 m wide.

## MINERALIZATION

The entire claim block was prospected by helicopter on July 14, 1990. The only obvious and accessible areas of gossan were found on the Lab 1 through 4 claims. These were examined and sampled.

An area of intense gossan approximately 15 m wide was picked out in the wall of a cirque near the south border of the LAB 4 claim. (see fig. 5) The source of the gossan was found to be a quartz-pyrite replacement zone striking north-north west and dipping at 35° to the west. The quartz contains fine pyrite averaging 5% but locally reaching 20%. This mineralization was hosted by pillowed basalts and appeared to be fault controlled and associated with an andesite dike to the west. The pillowed basalts to the east of the showing were quite rusty but were not accessible to the writer because of time constraints. Two samples were selected from the mineralized zone. Both were slightly anomalous in gold at 50 and 35 ppb and arsenic at 110 and 105 ppm respectively. A third sample selected from pyritic pillowed basalts immediately in the footwall of the mineralization was slightly anomalous in gold at 45 ppb and anomalous in zinc and arsenic at 278 and 145 ppm.

Two other samples were taken from rusty, slightly siliceous outcrops north west of the first samples. The last sample was slightly anomalous in gold (20ppb) and quite anomalous in arsenic (150 ppm).

The locations of all of these samples are shown on fig. 5

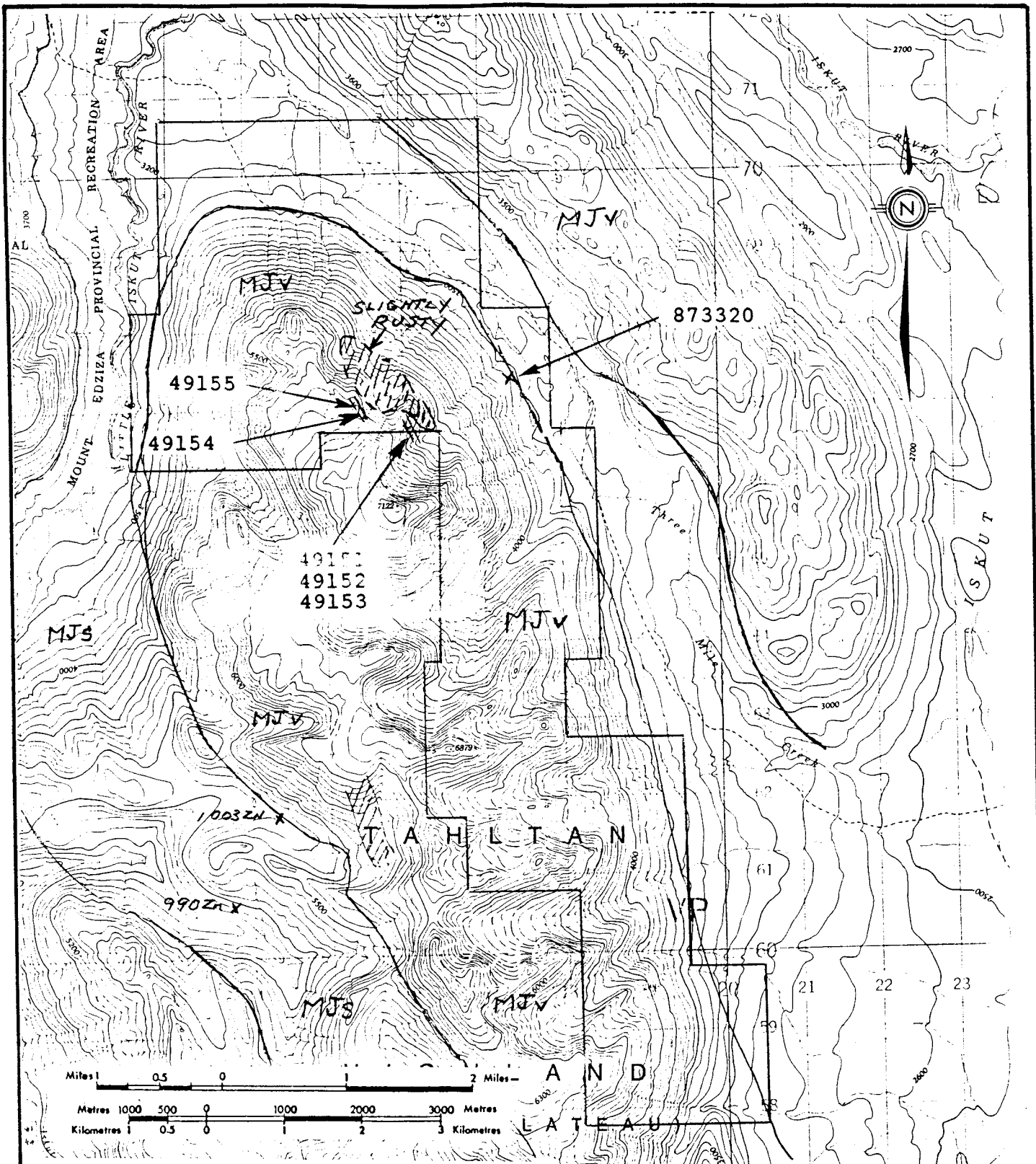
All samples were sent to Chemex Labs Ltd., 212 Brooksbank Ave., North Vancouver, B.C., V7J 2C1 for assay. A 32 element ICP plus a fire assay concentration/AA finish assay for gold was performed. The following is a partial table of the assay values from these samples, The assay certificate is appended to this report.

TABLE I

SAMPLE NO.	DESCRIPTION	Au(ppb)	Zn(ppm)	As(ppm)
49151	pyritic qtz. selected HW section LAB 4 cirque	50	40	110
49152	pyritic qtz. selected FW section LAB 4 cirque	35	78	105
49153	pyritic pillowed basalt from fw selected LAB 4 cirque	45	278	145
41954	pyritic qtz. selected NW of 49153	<5	42	15
41955	pyritic qtz selected NW of 49155	20	32	150

CONCLUSIONS AND RECOMMENDATIONS

The LAB claims, although not on the main trend of mineralization on the BALL claims to the west, have several small areas of gossan, principally on the LAB 4 claim, that should be further investigated. Sample number 873320, shown on fig. 5, taken during 1988 as a part of the National Geochemical Reconnaissance Programme was anomalous in zinc at 429 ppm. This sample is in the drainage area of that part of the LAB 4 claim which is underlain by a large area of slightly rusty pillowed basalts. A programme of reconnaissance silt, soil and rock geochemical surveys, prospecting, mapping and rock sampling is recommended for the LAB claims. Silt samples are to be taken from all of the many small streams draining the LAB claims near the north and east boundaries of the claims. Where streams are farther apart than 200 m soil samples are to be taken in the intervening areas at 200 m intervals. Where topography is



**LEGEND**

- MJv Middle Jurassic volcanics
- MJs Middle Jurassic sediments
- Gossan zone
- 4957 x Sample number, location

<b>BROOKLYN RESOURCES INC.</b>		
<b>LAB 1-9 CLAIMS</b>		
<b>GEOLOGY AND SAMPLE LOCATION MAP</b>		
<b>MARVIN A. MITCHELL P.ENG.</b>		
NTS 104G/8W	SCALE: 1:70,000	FIG.
DATE JULY '90	DRAWN: M.A.M.	5

GEOLOGY AFTER SOUTHER, 1971

rugged, rock and soil samples are to be taken along ridge spurs and cirque walls at 200 m intervals or in areas of interest. Where the high topography is more gentle a conventional grid on a 200 by 200 m spacing may be used. Samples are to be assayed for 32 element ICP plus gold with a fire assay concentration and an AA finish. Concurrently with this work, the property should be thoroughly prospected, geologically mapped, and any showings discovered, sampled.

Because of the rugged nature of the claims area two teams of two people each are recommended.

COST OF RECOMMENDATIONS

PERSONNEL

Geologists 2 @ \$800/day, 10 days, .....	8,000
Helpers 2 @ \$500/day 10 days.....	5,000

SAMPLES

Assaying est. 400 samples @ \$18/sample.....	7,200
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TRANSPORTATION

Helicopter est. 15 hr @ \$700/hr.....	10,500
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SUPPLIES

Bags, pickets, flagging estimated.....	2,000
--	-------

ACCOMMODATION

48 days @ \$75/day.....	3,600
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MOBILIZATION-DEMOBILIZATION

Vancouver to site & back, est.....	2,000
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REPORTS.....	<u>4,000</u>
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SUBTOTAL.....	<u>\$42,300</u>
---------------	-----------------

CONTINGENCIES @ 15%	<u>6,350</u>
---------------------	--------------

TOTAL.....	<u>\$48,650</u>
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Respectfully Submitted

The image shows a handwritten signature in cursive that reads "Marvin A. Mitchell". Overlaid on the signature is a circular professional engineer's stamp. The stamp contains the text: "PROFESSIONAL ENGINEER OF BRITISH COLUMBIA" around the perimeter and "M.A. MITCHELL" in the center.

Marvin A. Mitchell,

July 27, 1990

**BIBLIOGRAPHY**



- Mitchell, M.A., 1990, Geology report on the Lab 1-4 mining claims  
Liard M.D., British Columbia.
- National Geochemical Reconnaissance, 1:250,000 Map Series, Sumdum-  
Telegraph Creek, NTS 104F-104G, Geological survey of  
Canada O.F. 1646, Ministry of Energy Mines and Petroleum  
Resources, B.C. RGS 19
- Noranda, Fact sheet on Ball claims, 1989, author unknown.
- Souther, J.S., 1972, Telegraph Creek Map Area, Geological Survey  
of Canada, Paper 71-44

CERTIFICATE OF QUALIFICATIONS AND CONSENT

I, Marvin A. Mitchell, of Suite 203, 2825 Spruce St., Vancouver, B.C., V6H 2R4, in the city of Vancouver, in the province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a consulting geologist with business offices at Suite 716, 850 W. Hastings ST., Vancouver, B.C., V6C 1E1.
2. THAT I graduated from the Montana College of Mineral Science and Technology in 1968 with a Bachelor of Science degree in Geological Engineering (Mining Option).
3. THAT I have been a member of the Association of Professional Engineers of the Province of British Columbia since 1972 and that I am a member in good standing of that association.
4. THAT the findings of this report are derived from data as acknowledged, and from a property examination on July 14, 1990.
5. THAT I have no interest, direct or indirect, in the properties examined and reported on or in the securities of BROOKLYN RESOURCES INC., nor do I expect to receive any interest. I am not a director of the company.
6. THAT I have no interest, direct or indirect, in any mining properties within ten miles of the properties which are the subject of this report.

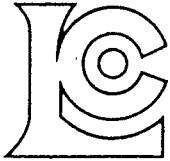
Dated at Vancouver, this 22th day of August, 1991.

Marvin A. Mitchell, P.Eng.



APPENDIX A  
ASSAY SHEETS



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

10. BROOKLYN RESOURCES INC. ##

929 - 470 GRANVILLE ST.  
VANCOUVER, BC  
V6C 1V5

Page Number: 1-B  
Total Pages: 1  
Invoice Date: 23-JUL-90  
Invoice No.: I-9018992  
P.O. Number:

Project: ISKUT  
Comments: ATTN: V.H. EATON CC: MARVIN A. MITCHELL

## CERTIFICATE OF ANALYSIS

### A9018992

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
49151 R	255	295	15	0.02	1	840	90	5	13	8	0.56	< 10	< 10	228	< 10	40
49152 R	255	295	11	0.01	1	1000	68	5	16	5	0.48	< 10	< 10	342	< 10	78
49153 R	255	295	5	0.01	< 1	770	178	< 5	15	2	0.38	< 10	< 10	263	< 10	278
49154 R	255	295	3	0.04	3	1220	8	5	18	6	0.49	< 10	< 10	238	< 10	42
49155 R	255	295	5	0.03	3	840	24	5	15	7	0.37	< 10	< 10	102	< 10	32
49156 R	255	295	3	0.03	1	870	4	< 5	1	11	< 0.01	< 10	< 10	9	< 10	8
49157 R	255	295	12	0.01	3	720	4	5	1	14	< 0.01	< 10	< 10	5	< 10	30
49158 R	255	295	3	0.04	2	810	< 2	< 5	2	17	< 0.01	< 10	< 10	10	< 10	10
49159 R	255	295	4	0.03	3	1120	2	< 5	2	27	< 0.01	< 10	< 10	8	< 10	14
49160 R	255	295	2	0.03	2	800	< 2	< 5	2	28	< 0.01	< 10	< 10	10	< 10	10
49161 R	255	295	< 1	0.06	3	80	14	< 5	< 1	8	< 0.01	< 10	< 10	1	< 10	6

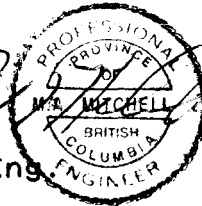
CERTIFICATION:

**APPENDIX B**  
**ITEMIZED COST STATEMENT**

ITEMIZED COST STATEMENT

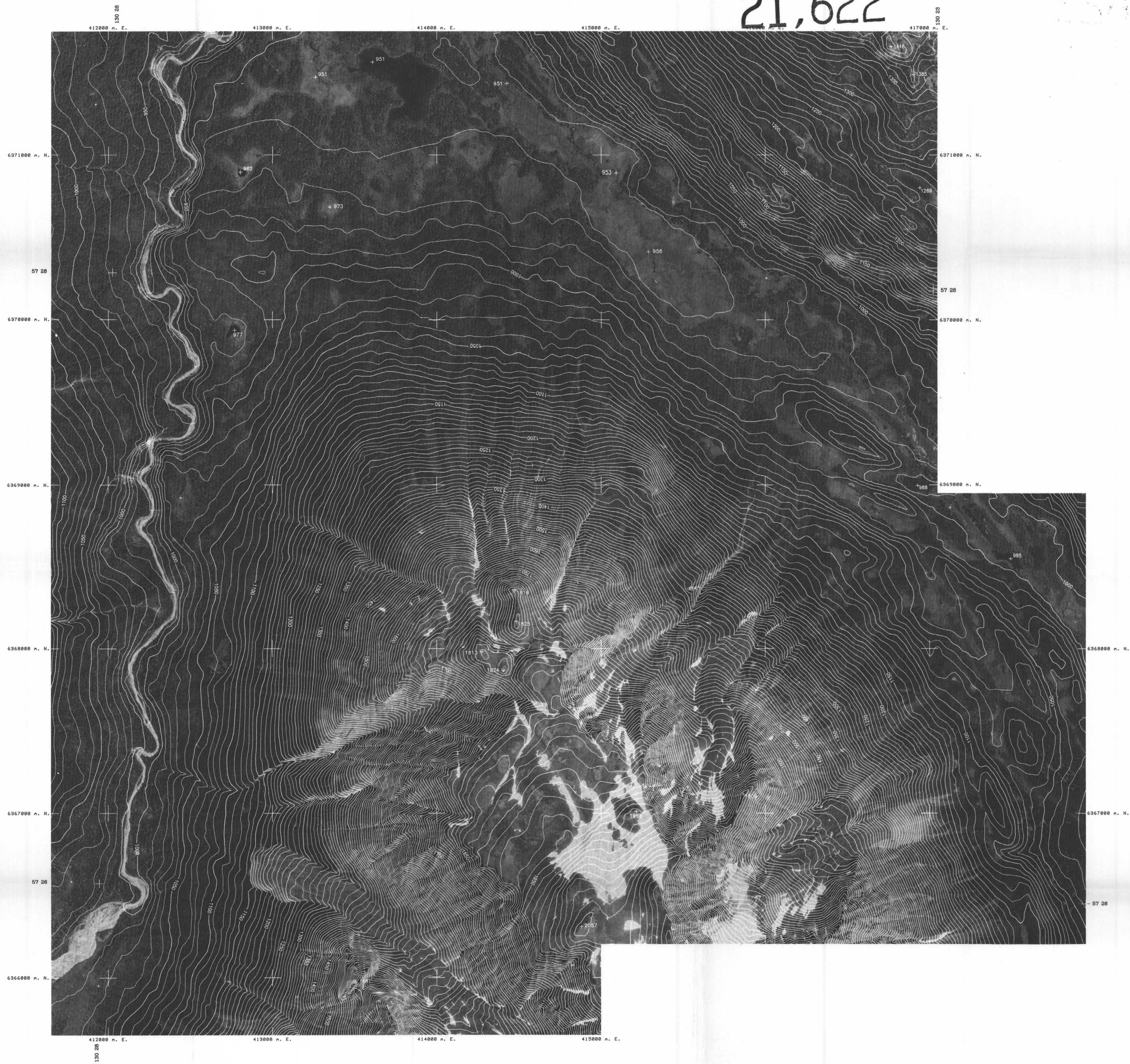
Travel		\$450.00
Prospecting		200.00
Mileage		428.25
Expenses		578.45
Report Writing		800.00
Publishing		32.00
Helicopter		680.00
Wages, Bill Brown		840.00
Equity engineering Ltd.		
Orthophoto	\$ 3,500.00	
Donald McInnes		
1 day @ 300/day	300.00	
Management Fee		
@ 15 % on expenses	<u>525.00</u>	
	\$ 4,325.00	
G.S.T. @ 7%	<u>302.75</u>	
		<u>4,627.75</u>
		\$ 8,636.45

  
Marvin A. Mitchell, P.Eng.  
August 22, 1991





21,622



EQUITY ENGINEERING LTD.  
LAB 1-4 CLAIMS

SCALE 1:10,000  
CONTOUR INTERVAL 10 METRES

NOTE:  
Photography July 1982  
Grid UTM Zone 9 NAD 83  
Datum GSC  
Control Derived from TRIM