6167

REPORT ON

GEOLOGICAL MAPPING, GEOCHEMICAL SAMPLING

LINECUTTING AND DRILLING

PATRICIA AND MORAIG

CLAIMS

GREENWOOD M.D. B.C.

BY

DARREL JOHNSON B.Sc.

82E/10W

CLAIMS PATRICIA 234

MORAIG 233

LOCATION North of Lassie Lake

24.5 km NE of Beaverdell B.C.

Latitude 49°36'N
Longitude 118°55'W

OWNER LACANA MINING CORPORATION

WORK BY LACANA MINING CORPORATION

DATES JUNE 18 to OCTOBER 26 1976

TABLE OF CONTENTS

MAPS

SUMMARY

During the period June 18 to Oct. 28, 1976, Darrel Johnson assissted by Chris Crowley and Otto Janout, conducted a programme of linecutting, geological mapping, geochemical sampling and percussion drilling on the Patricia and Moraig claims, north of Lassie Lake, in the Greenwood M.D. The claims are owned by LACANA MINING CORPORATION, who paid for the work.

INTRODUCTION

Claims

The Patricia and Moraig claims, which are the subject of this report, are described below:

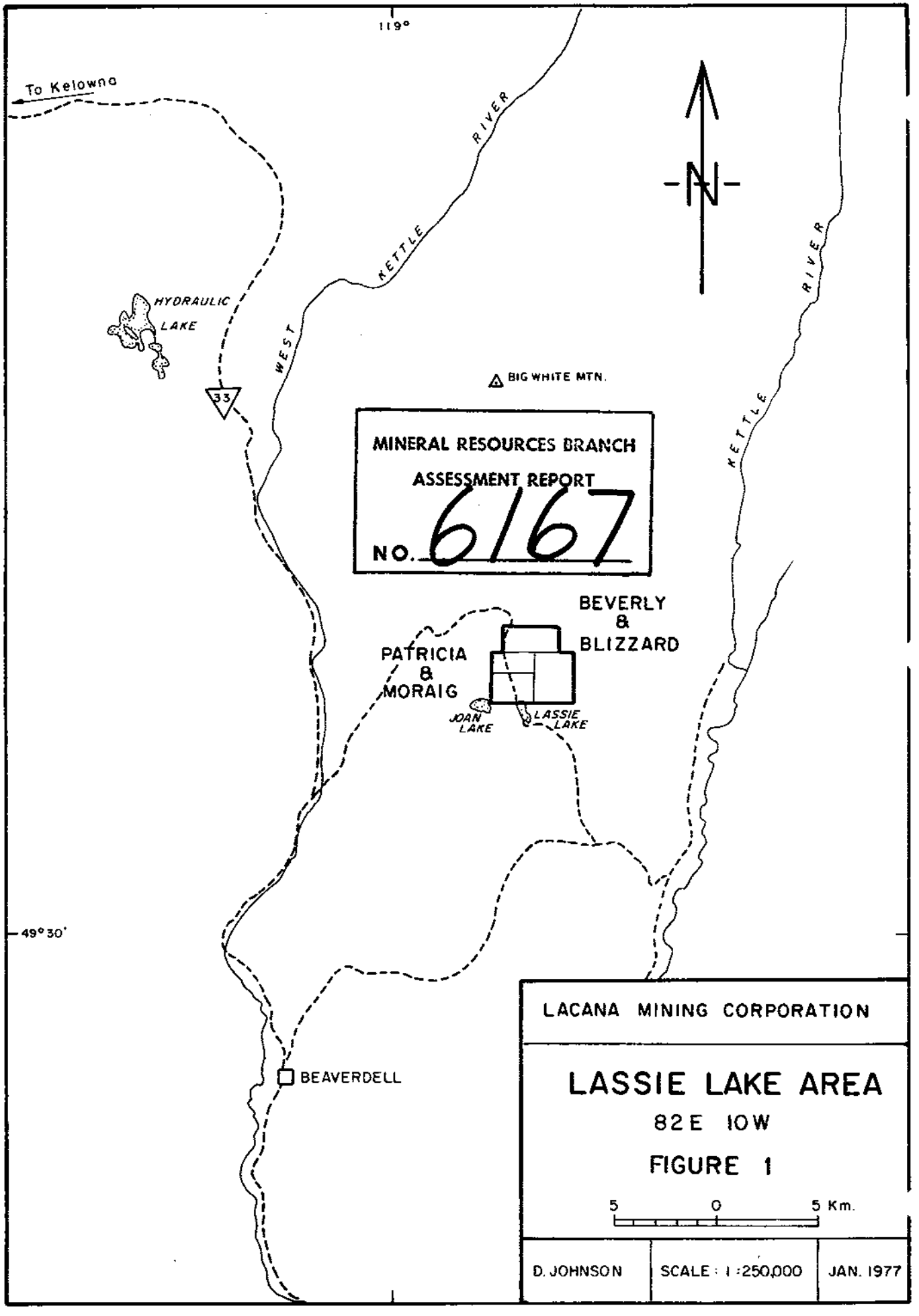
Claim Name	Dimensions	No. Units	Record No.	Record Date
Patricia	2N x 5W	10	234	24 Feb.
Moraig	3N x 5W	15	233	24 Feb.

Both claims are in the Greenwood M.D.

Location and Access

The claims are located about 49 km. SE of Kelowna B.C. or about 24.5 km NE of Beaverdell B.C. The nearest landmark is Lassie Lake which extends 60m into the southern edge of the claims. Elevations range from 1310m to 1400m.

Access from Kelowna is southeasterly via Highway 33 for about 65 km, then by the Trapping Creek and Lassie Lake logging roads, both of which are marked by logging company signs. Location and access are shown on figs. 1 and 2.


119°
To Kelowna
WEST KETTLE RIVER
KETTLE RIVER
HYDRAULIC LAKE
33
BIG WHITE MTN.
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6167
BEVERLY & BLIZZARD
PATRICIA & MORAIG
JOAN LAKE
LASSIE LAKE
49°30'
BEAVERDELL
LACANA MINING CORPORATION
LASSIE LAKE AREA
82 E 10W
FIGURE 1
5 0 5 Km.
D. JOHNSON
SCALE : 1 :250,000
JAN. 1977

GEOLOGY

Geology of the Patricia and Moraig claims is quite simple. Only two rock types, the Valhalla intrusive and Miocene plateau basalts, are evident on surface.

Miocene Basalts

The basalts have been named the "Cup Lake Formation" by previous workers in the region and this name should be retained. The Cup Lake rocks are typical of basalts found in much of the B.C. interior. Outcrops can generally but not always, be spotted by their topographic expression; sharp, often columnar faces bordering a small knoll.

Drilling on the adjacent Beverly claim of Lacana Mining Corporation has indicated that the Cup Lake rocks can be sub-divided into Upper and Lower but the Lower has not been found in outcrop on the Patricia or Moraig claims.

The Upper Cup basalts outcrop as one of two common types: massive and columnar jointed, or platy and bedded. Both are dark grey to black, weathering to a medium brown. Because of the fine dense nature of these rocks, identification of individual mafic minerals is difficult and the only mineral which can be reliably identified is epidote.

Valhalla Intrusive

The Valhalla intrusive rocks are the most abundant type on the property. They are generally quite coarse grained, low in mafic minerals and contain some smoky quartz.

Faulting

There is evidence of two major faults cutting the Valhalla, both with a Northwesterly trend. One was observed in the area of 80N 17E and drill hole data from a hole at 100N 00E suggests that the basalt is fault bounded on the West side.

Mineralization

No economic minerals of any sort were seen during the work on the Patricia and Moraig claims.

Geology is shown on fig. 4.

GEOCHEMISTRY

Soil Sampling

A total of 135 soil samples were collected at 30m intervals from grid lines 244m apart. Samples were taken with a mattock from the "B" horizon, which is found from 5 to 25 cm below surface. The soil was placed in 9 x 24.5 cm kraft paper envelopes marked with grid location and shipped to Bondar-Clegg in North Vancouver for analysis for uranium.

Samples were analysed as follows:

A minus 80 mesh portion was digested for 2 hours with hot, concentrated nitric acid, diluted to 10 ml and analysed on a flourimeter.

Sample results gave uranium values ranging from not detectable to a high of 49 ppm. Over the basalt, values were generally 1ppm. or less. Over the Valhalla values varied more

widely, but background was still in the 2 ppm. range. The only significant anomaly was at 92N 30E where the soil gave 16 ppm. and a silt sample from a small drainage gave 49 ppm. uranium.

This anomaly cannot be considered a drill target, but is a positive indication of the presence of uranium somewhere close. The small spring drains a basalt body which was drilled and found to cover uranium mineralization of economic grade.

Soil sample values are plotted on fig. 3

Water sampling

Four water samples were collected from various small streams and springs on the property. Location of these samples is shown on fig. 4. Samples were collected in 250 ml glass bottles and sent to Bondar-Clegg for analysis for uranium.

Water samples were evaporated down, leached with nitric acid and analysed in much the same manner as the soil samples.

Although too few samples were taken to estimate background, number LW001, at 14 ppb. is obviously anomalous. This sample came from the same site as the 49 ppm. silt sample mentioned above.

LINECUTTING

To aid in mapping, sampling and subsequent work, a baseline and section lines were established, using compass, pickets, and nylon chain. The baseline extends from 20N to 146N, of which the section from 20N to 99N is on the Patricia and Moraig claims.

Total length of grid lines on the Patricia and Moraig claims is 40,000 ft. (12.192 km). Fig 2 shows the grid in relation to claim boundaries, landmarks etc.

DRILLING

H.N. Horning of Kamloops drilled two 5cm diameter percussion drill holes in the low, overburden covered area just north of Lassie Lake. Existing logging roads eliminated the need of road and drill site construction.

Hole P 76 1W was drilled at 20N 23E on the grid, to a total depth of 46m, of which 5m was overburden.

Hole P 76 2W was drilled at 22N 2W to a total depth of 40m of which 6.5 m was overburden.

Both drill holes were entirely in Valhalla intrusive. Holes were sampled in 3m sections and samples were dried and shipped to Bondar-Clegg for analysis for uranium. Analysis was by the same geochemical techniques used for the soil samples.

Drill holes are shown fig. 2, logs are included as Appendix I and analysis results are Appendix II.

APPENDIX I

DRILL LOGS

COMPANY LACANA MINING CORP. PROPERTY BLIZZARD

Township Kelowna Area Claim No. Beverly

SHEET No. _____ Reference N.T.S. 82 E 10 W HOLE No. P 76 1 W

Started Oct. 27 1976 Location 20 N Bearing _____

Finished Oct. 27 1976 23 E Dip: 90° @ Collar; _____ @ _____

Depth 150' Elevation _____

FROM	TO	DESCRIPTION	SAMPLES NO	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	ASSAYS			
0	16	Overburden								
16	150	Intrusive coarse grained								

Drilled by H.N. HORNING Hole ~~xxxx~~ Core Size 2 " Logged by D. Johnson

COMPANY LACANA

PROPERTY BLIZZARD

Township Kelowna area

Claim No. Moraig

SHEET No. _____

Started Oct. 27 1976

Finished Oct. 27 1976

Depth 130'

Reference N.T.S. 82 E 10 W

Location 22 N

2 W

Elevation _____

HOLE No. P 76 2 W

Bearing _____

Dip: 90° @ Collar; _____ @ _____

FROM	TO	DESCRIPTION	SAMPLES NO	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	ASSAYS
0	20	Overburden					
20	130	Intrusive					

Drilled by H.N. HORNING

Hole ~~Core~~ Size 2"

Logged by D. Johnson

APPENDIX II

DRILL SAMPLE ANALYSES

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction: Hot HNO_3 | Report No.: 26 - 1240
Method: Fluorimetric | From: Lacana Mining
Fraction Used: | Date: November 4 19 76

SAMPLE NO.	U ppm				SAMPLE NO.				
P 76-[illegible] 0 - 10	9								
10 - 20	24								
20 - 30	6								
30 - 40	4								
40 - 50	2								
50 - 60	2								
60 - 70	6								
70 - 80	5								
80 - 90	2								
90 - 100	2								
100 - 110	2								
110 - 120	1								
120 - 130	2								
130 - 140	1								
140 - 150	6								
P 76-[illegible] 10 - 20	1								
20 - 30	1								
30 - 40	2								
40 - 50	0.4								
50 - 60	1								
60 - 70	1								
70 - 80	0.4								
80 - 90	0.4								
90 - 100	ND								
100 - 110	0.2								
110 - 120	ND								
120 - 130	ND				ND denotes 'not detected'				
27									

APPENDIX II

APPENDIX III

STATEMENT OF COSTS

DAYS WORKED ON PROJECT

Mapping, Sampling, Linecutting

DARREL JOHNSON	Geologist	June 18-28 Aug. 7-13	17 days
CHRIS CROWLEY	Assisstant	June 18-28 Aug. 7-13	17 days

Drilling

DARREL JOHNSON	Geologist	Oct. 27	1 day
OTTO VANOUT	Assisstant	Oct. 27	1 day

(Only that portion of drilling done on the Patricia and Moraig claims)

LINECUTTING, MAPPING AND SAMPLING COSTS

Cost per day	Wages	D. Johnson	$50
		C. Crowley	$37
	Vehicle	4 Wheel Drive Pickup	$20
	Camp and supplies		$20
			$127
		x 17 days	$2159

APPENDIX III

STATEMENT OF COSTS

DRILLING COSTS

Note: Holes P 76 1W and P 76 2W are shown on Horning invoice as 14 and 15. One half batch of AM9 grout was used in each hole. Moving costs of $400 were divided on a basis proportional to footage, and $68 applied to holes P 76 1W and P 76 2W.

280 ft @ $3.00	$840	
280 ft water charge @ $.25	$70	
Moving	$68	
AM 9 1 batch	$20	
	$998	$998

DRILLING SUPERVISION AND SAMPLE HANDLING COSTS

Cost per day	Wages	D. Johnson	$50	
		O. Janout	$40	
	Motel		$16.80	
	Meals		$25.00	
	Vehicle		$20	
			$151.80	
			x 1 day	$151.80

H. N. HORNING PERCUSSION DRILLING LTD.
c/o JARRETT, GOOLD & ELLIOTT
Ste. 200 - 186 Victoria Street
Kamloops, B.C.
V2C 5R3

November 12, 1976

Lacana Mining Corp.
312 - 409 Granville St.
Vancouver, B.C.
V6C 1T2

STATEMENT OF ACCOUNT

Re: BLIZZARD

1976	HOLE	FOOTAGE FROM	DRILLED TO	TOTAL	
October 24	8A	100	240	140	BEVERLY AND BLIZZARD
	9	0	240	240	
October 25	10	0	250	250	
	11	0	260	260	
October 26	12	0	240	240	
	13	0	220	220	
October 27	14	0	150	150	OTHER CLAIMS
	15	0	130	130	
				1,630'	

1,630 feet drilled @ $3.00 per foot	$4,890.00
1,630 feet with water @ $ .25 per foot	407.50
5 batches AM9	100.00
320 miles @ $1.25 per mile	400.00
	$5,797.50

Bill to Lacana
Blizzard Phase 2

APPENDIX III

STATEMENT OF COSTS

GEOCHEMICAL AND DRILL SAMPLE ANALYSES

Soil Samples	135 @ $2.85	$384.75	
Water Samples	4 @ $3.25	$ 13.00	
Drill Sludges	27 @ $3.75	$101.25	$499

Note: Drill sludge analyses include extra cost of sample preparation

TOTAL COST OF PROJECT $3807.80

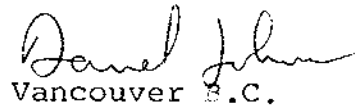
APPENDIX IV

STATEMENT OF QUALIFICATIONS

I, Darrel Johnson, of the City of Port Coquitlam, in the Province of British Columbia, do hereby state:

1. I am a graduate of the University of British Columbia with a B.Sc. degree in Geology, obtained in 1970,
2. I have been working in all phases of mining exploration in British Columbia for the past twelve years,
3. During the past six years I have held responsible positions as an exploration geologist with various mineral exploration companies in British Columbia,
4. I am presently the geologist in charge of the Vancouver office of Lacana Mining Corporation,
5. I personally conducted or supervised all the work described in this report.

Darrel Johnson



Vancouver B.C.

January 3, 1977

APPENDIX IV

STATEMENT OF QUALIFICATIONS

CHRIS CROWLEY

All the soil samples described in this report were collected by Chris Crowley, under the direct supervision of Darrel Johnson. Chris Crowley has studied geology at Douglas College. In addition to his experienc with Lacana Mining Corporation, he has one summer's field experience with Cities Service Minerals Corp.

TO TRAPPING CR. & KELOWNA

00E

FIG. 3 & FIG. 4

BEVERLY
m.c.

FIG. 6

100N

100 N

TO CHRISTIAN VALLEY

PATRICIA
m.c.

SANDRIFT
MEADOW

DELL
800
m.c.
TYEE - PEREGRINE
NORANDA

FIG. 5

MORAIG
m.c.

BLIZZARD
m.c.

STATE
200
TYEE – PEREGRINE
NORANDA

P76-2W

P-76-1W

20 N

20 N

JOAN LAKE

LASSIE
LAKE

DELL
100
m.c.

DONEN
361
m.c.
(P.N.C.)

DELL
200
m.c.
TYEE-PEREGRINE
NORANDA

FUKI – DONEN
CLAIMS
(P.N.C.)

STATE
100
TYEE – PEREGRINE
NORANDA

TO CUP LK. & BEAVERDELL

00 E

LEGEND

CLAIM POST ..... □

LEGAL CORNER POST ..... ⊡

INDEX TO DETAIL MAPS ..... FIG. 5

MAIN ROAD ..... ======

SECONDARY ROAD ..... ------

LOCATION AND OWNERSHIP OF CLAIMS NOT HELD BY LACANA CANNOT BE GUARANTEED ACCURATE.

6167

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6167
MAP NO. 1

David Johnson
January 31 1977

LACANA MINING CORPORATION

BLIZZARD
PROJECT
82 E 10 W

CLAIM AND GRID MAP
FIGURE 2

200 0 200 400 m

D. JOHNSON | SCALE: 1"=800' | NOV. 1976

30 W | 00 E | 30 E

140 N

132 N

124 N

116 N

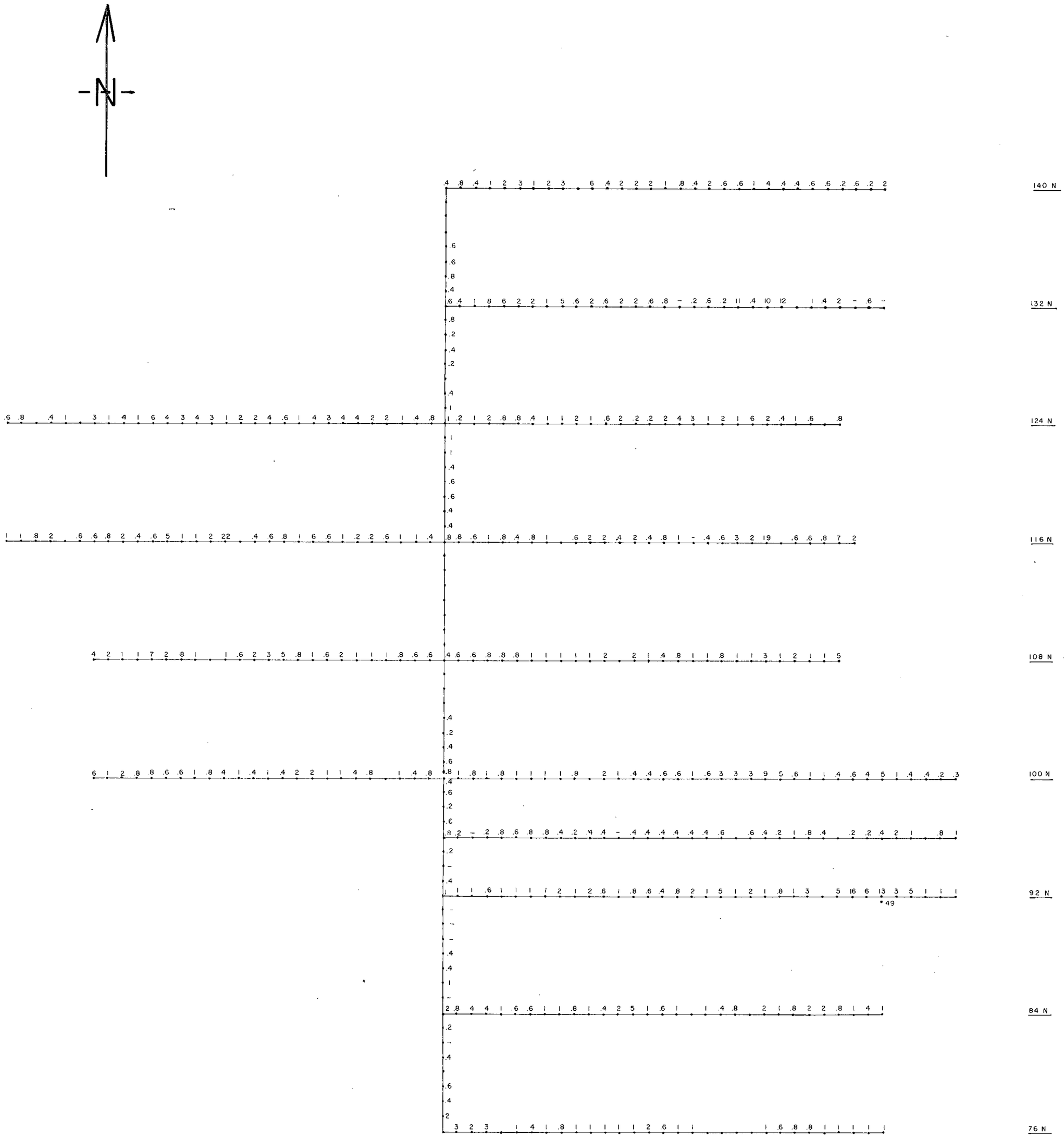
108 N

100 N

92 N

84 N

76 N



LEGEND

URANIUM , P.P.M. ..... • .4

NOT DETECTED ..... • —

6167

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6167
MAP NO. 2

Daniel Johnson
January 31 1977

LACANA MINING CORPORATION

BLIZZARD
PROJECT
82E 10W

GEOCHEMISTRY

FIGURE 3

100 0 100 200m.

D. JOHNSON	SCALE: 1"=400'	NOV. 1976

30W

00 E

30E

148 N

148 N

132 N

132 N

X LW004
1.3

X LW005
.1

40

116 N

116 N

100 N

100 N

LW 002
.3

X
LW 001
14

X LW003
.4

84 N

84 N

68 N

68 N

X LW006
.6

52 N

52 N

30 W

00E

30E

LEGEND

CUP LK. BASALT	3
PORPHYRITIC DIKES - FEEDER TO Nº 3	2
VALHALLA INTRUSIVE COMPLEX	1
WATER SAMPLE	LW001
WATER SAMPLE VALUE, PPB - URANIUM	14

6167

David Johnson
January 31 1977

LACANA MINING CORPORATION

BLIZZARD
PROJECT
82E 10W

GEOLOGY
FIGURE 4

100 0 100 200 m.

D. JOHNSON	SCALE: 1"=400'	NOV. 1976