

D. W. PRINGLE & ASSOCIATES LTD.  
MINING CONSULTANTS

RESIDENCE  
R. R. 2  
OLIVER B.C.  
(604) 498-3656

REPORT

on the

BLUEJAY CLAIMS 1-4

GREENWOOD M.D.

LATITUDE 49° 24'N LONGITUDE 118° 35'W

NTS LOCATION 82E/7

for

TITAN RESOURCES LTD.,

MINE OFFICE P.O. BOX 190,

KEREMEOS, B.C.

VOX 1NO

by

D.W. PRINGLE & ASSOCIATES LTD.

D.W. PRINGLE, P.ENG.

OLIVER, B.C.

VOH 1TO

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

7 November 1983

**13,496**

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INTRODUCTION

At the request of Wayne Valliant, Project Geologist for Titan Resources Ltd., I visited the Bluejay Claims on November 4, 1983. I was accompanied by Wayne Valliant. He has written two short reports, mapped the general location of the numerous pits and shafts, and has completed a sampling program on the showings.

Titan Resources Ltd., has an interlocking tie with Dankoe Mines Ltd., a producing silver mine just south of Cawston, B.C., on Highway No.3. Therefore, all samples shown on Wayne Valliant's map were assayed at the Dankoe assay lab.

Also, because of this connection a different approach to property development is possible since they have the men, equipment, and could use any exploration ore as mill feed.

GENERAL

The Bluejay Claims 1-4 are under option from R. Ruthglen and F. McNeill of Penticton by Titan Resources Ltd.

LOCATION & ACCESS

Access is obtained from the Southern Trans Canada Highway No.3 by turning north at Rock Creek on Highway No. 33 to Westbridge. At Westbridge the highway to Christian Valley is taken to KM 30½. An old logging road turns off

to the west at this point and the property is 8 KM from the paved road. Elevation is approximately 725 M at the logging road turn off and 1280 M at the property. Co-ordinates are roughly 49 degrees 24' and 118 degrees 55'.

A network of old logging roads covers the east slope of the mountain and a 4x4 truck is needed at this time. Some rain wash rutting has occurred. Grades are satisfactory for future transportation.

Excellent timber is located on the property if required for future mining use.

#### HISTORY

The Bluejay Claims were previously recorded as the Rusty Claims 1-14 and A and B. A geochemical survey was carried out by D.K. Mustard, P.Eng. for Cu and Mo with most of the work over claims 1-4. A few anomalous readings were obtained. There was no date on the map, but I would estimate the work was done in the late sixties.

No mention could be found in the Minister of Mines Reports covering the trenching and shaft sinking. The work was probably done in the twenties or thirties. A few properties have recorded work for Cu-Mo in the 1970 Minister of Mines Report. These properties are just west and north of the Bluejay. Not too far northwest is the Highland Bell silver mine.

GEOLOGY

Geology by H.W. Little 1953-1956 (Map 6-1957, Kettle River, east half) indicates the area around the claims to be the Anarchist group and from observation the rock would be greenstone. Our claims are close to the Kettle River formation of rhyolite and dacite tuff.

Mustard's map indicates feldspar porphyry as the main rock with some diorite showing up.

Wayne Valliant indicates the area is underlain with acid volcanics that have been fractured and filled with sulphides.

ECONOMIC GEOLOGY

A series of pits and shafts were excavated along a N30 degree W strike up and down the hill from the old logging road. Wayne Valliant has sampled most of the trenches up the hill but not the two or so down the hill. Some short pop holes were blasted by Rutherglen on a recent trip in order to get fresher material with less oxidization.

The fracture zone is from less than a meter to not quite 2 meters wide. It is very heavily oxidized. The dip appears to vary in the various trenches but is between 45 degrees and 70 degrees to the southwest.

The indicated strike length is approximately 200 M from the lowest trench S.E. of the road to the

highest trench. The elevation difference from the bottom trench to the top is about 50M.

Included in this report is the sample map produced by Wayne Valliant. The trenches below the road are not plotted. The gold assays range from 0.02 to 1.08 oz/ton gold. Generally, the lower values were in the more oxidized material.

An 18 KG sample grading 0.38 ox/ton gold is presently undergoing metallurgical testing at the Dankoe Mill. No results are available at the time of writing.

#### SUMMARY

Let me quote from Wayne Valliant's report of the 5 October 1983.

Quote: "A return visit to this property confirms the presence of mineable grade ore, open at both ends and at depth. Using a cut off grade of 0.10 ox/ton gold and a 1.5M mining width a conservative estimate of ore reserves is 11,842 tons grading 0.28 oz/ton gold and 0.45 oz/ton silver. A surface trenching and underground development program is recommended."

My visit confirms the location of the numerous trenches and shafts, the heavy sulphide mineralization in the shear zone and the high level of oxidization. The Profile along the strike of the trenches would allow one to drift or ramp down on the structure for a good look at

the unoxidized shear zone.

Since Dankoe has at its disposal equipment and manpower for underground mining, and since they could mill any tonnage of ore produced by this type of exploration, then this exploration approach is quite suitable in this case.

#### RECOMMENDATIONS

I strongly recommend that more ground be staked around the present 1-4 Bluejay Claims.

The road must be brushed out and the bad spots graded for easier access. Better maps of the area might be obtained from the Grazing section of the Forestry Branch since a new cattle range fence has just been completed which would indicate their interest and activity in the area.

General geological mapping over the property looking for parallel shears and other old trenches should be done. An accurate survey should be completed locating the trenches and establishing the contours. This work would help in the layout of the underground ramp. At least a few lines of VLF-EM should be run over the trench area to see if it picks up the structure.

Therefore following is a recommended program in three phases.

PHASE I

Claim staking	2000.00
Road brush out	1000.-
Small dozer road clean up	3000.-
Small dozer trench clean up	3500.-
Survey of trenches and contours	1500.-
Three VLF-EM survey lines and soils	6000.-
General geological mapping	3000.-
Move in equipment and three man camp	4000.-
Overhead expense and consulting	6000.-
Assaying and travel	3000.-
Contingency 20%	7000.-
	<hr/>
	\$40,000.00

PHASE II

Trackless decline (911 Eimco)	40,000.-
Geological mapping	1000.-
Sampling and assaying	1000.-
Metallurgical testing	3000.-
Overhead and consulting	4000.-
Travel	1000.-
Contingency	10,000.-
	<hr/>
	\$60,000.00

PHASE III

Open amount but basically broader program of VLF-EM and geochem, diamond drilling and underground exploration.

If the ore mined is in the economic range then some credit will be produced from the milling of the ore at the Dankoe Mill.

Respectively Submitted



D.W. Pringle P. Eng

D. W. PRINGLE

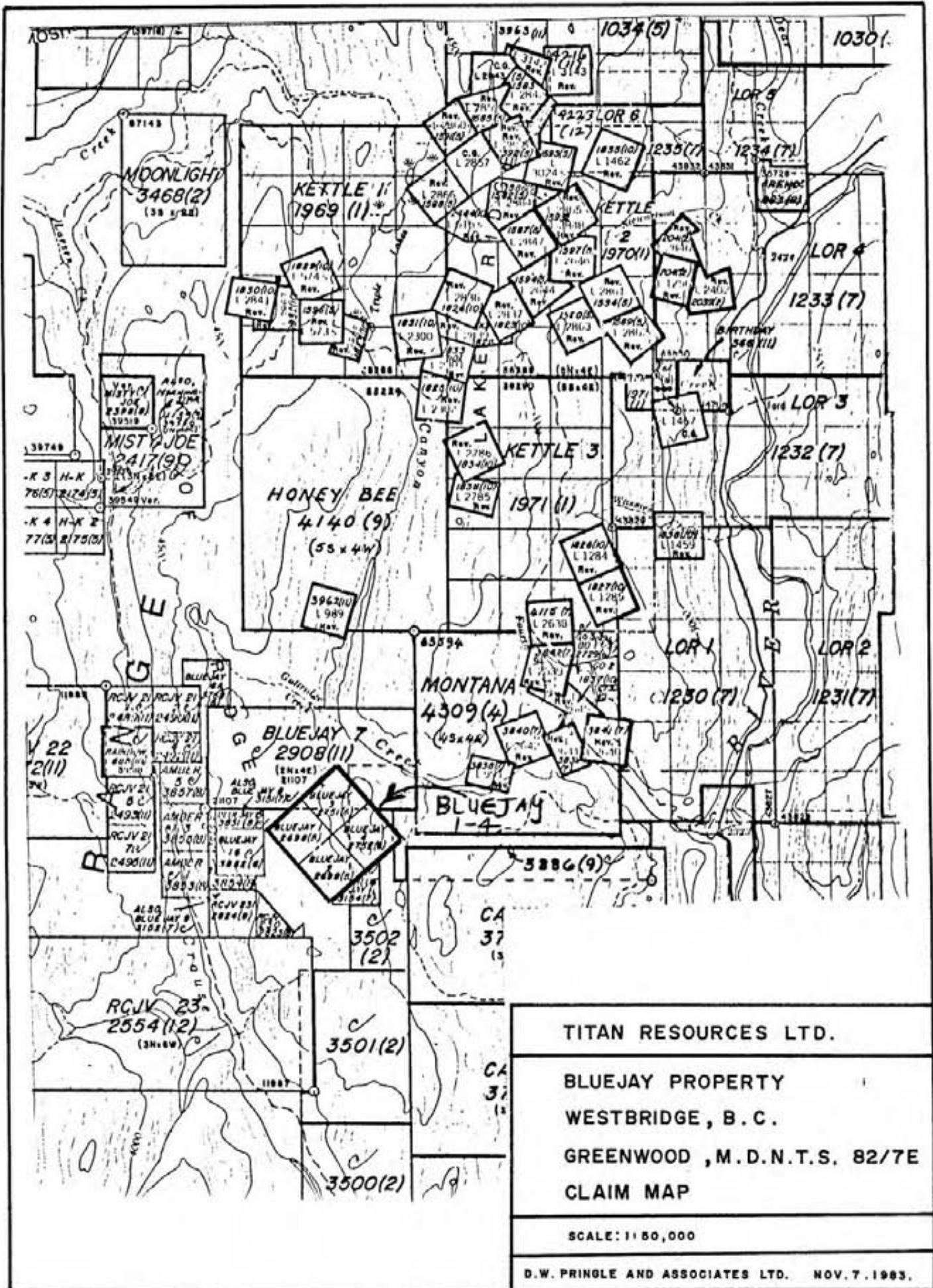


REFERENCES

1. D.K. Mustard, P.Eng., Claim and Geochemical Survey Map.
2. H.W. Little, (1953-56) Map 6-1957 Kettle River, East Half.
3. Report, W. Valliant, 26 September 1983.
4. Report, W. Valliant, 5 October 1983

ADDENDUM

1. Claim Map.
2. Location Map.
3. W. Valliant. Trench Assay Map.
4. Assay Certificates 1967-1968, 1970  
R. Rutherglen.
5. 1970 Minister of Mines Map H. Page 295.



MOONLIGHT  
3468(2)  
(38 x 28)

KETTLE 1  
1969 (1)

KETTLE 2  
1970(1)

HONEY BEE  
4140 (9)  
(55 x 4W)

MONTANA  
4309 (4)  
(45 x 4R)

BLUEJAY 7  
2908(11)  
(ENLAC)  
8107

BLUEJAY  
1-4

RCJV 23  
2554(12)  
(3N x 6W)

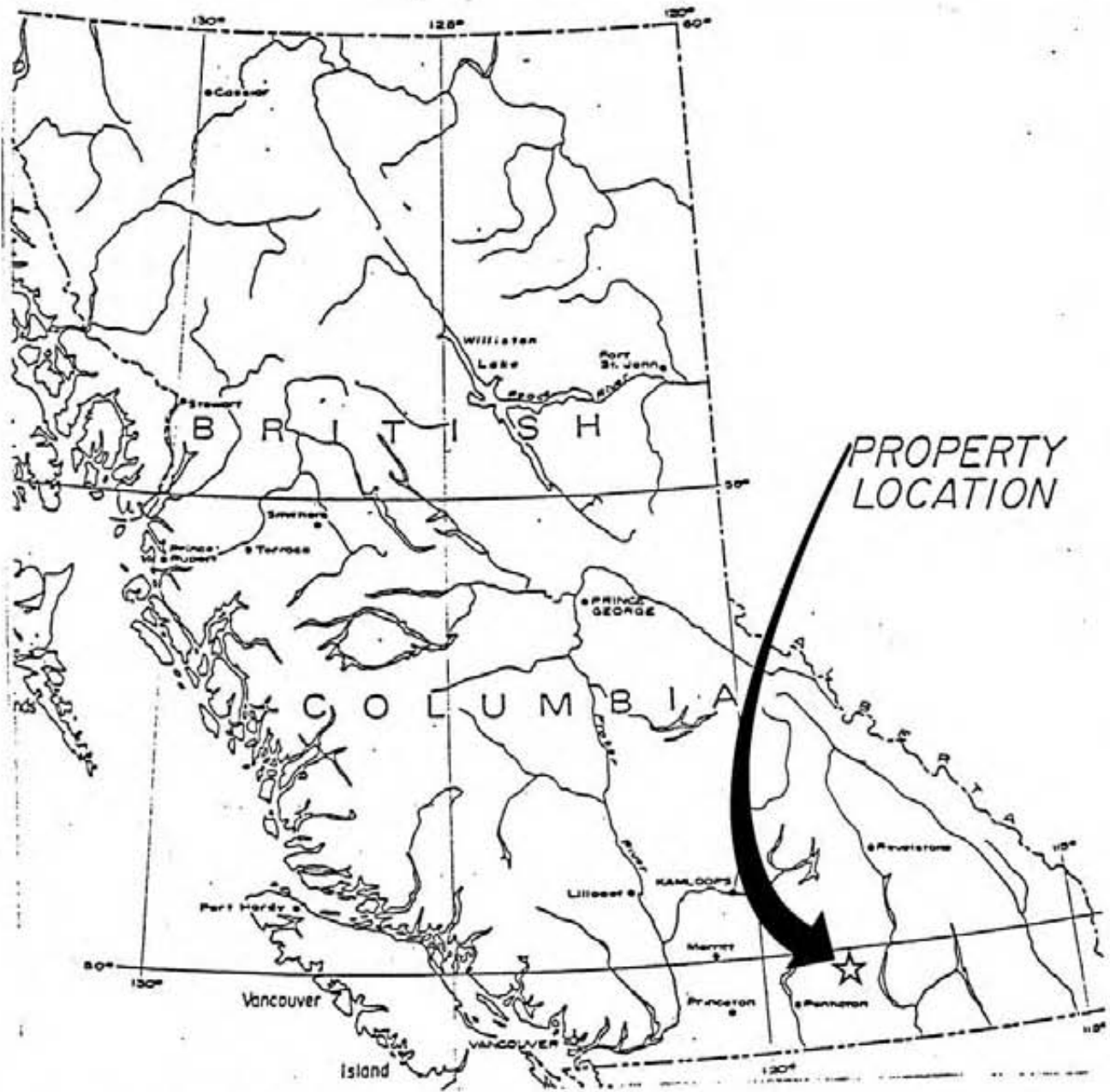
3501(2)

3500(2)

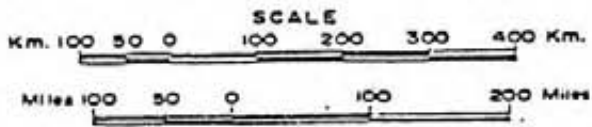
TITAN RESOURCES LTD.  
BLUEJAY PROPERTY  
WESTBRIDGE, B. C.  
GREENWOOD, M. D. N. T. S. 82/7E  
CLAIM MAP

SCALE: 1:50,000

D.W. PRINGLE AND ASSOCIATES LTD. NOV. 7, 1983.



PROPERTY  
LOCATION



TITAN RESOURCES LTD.

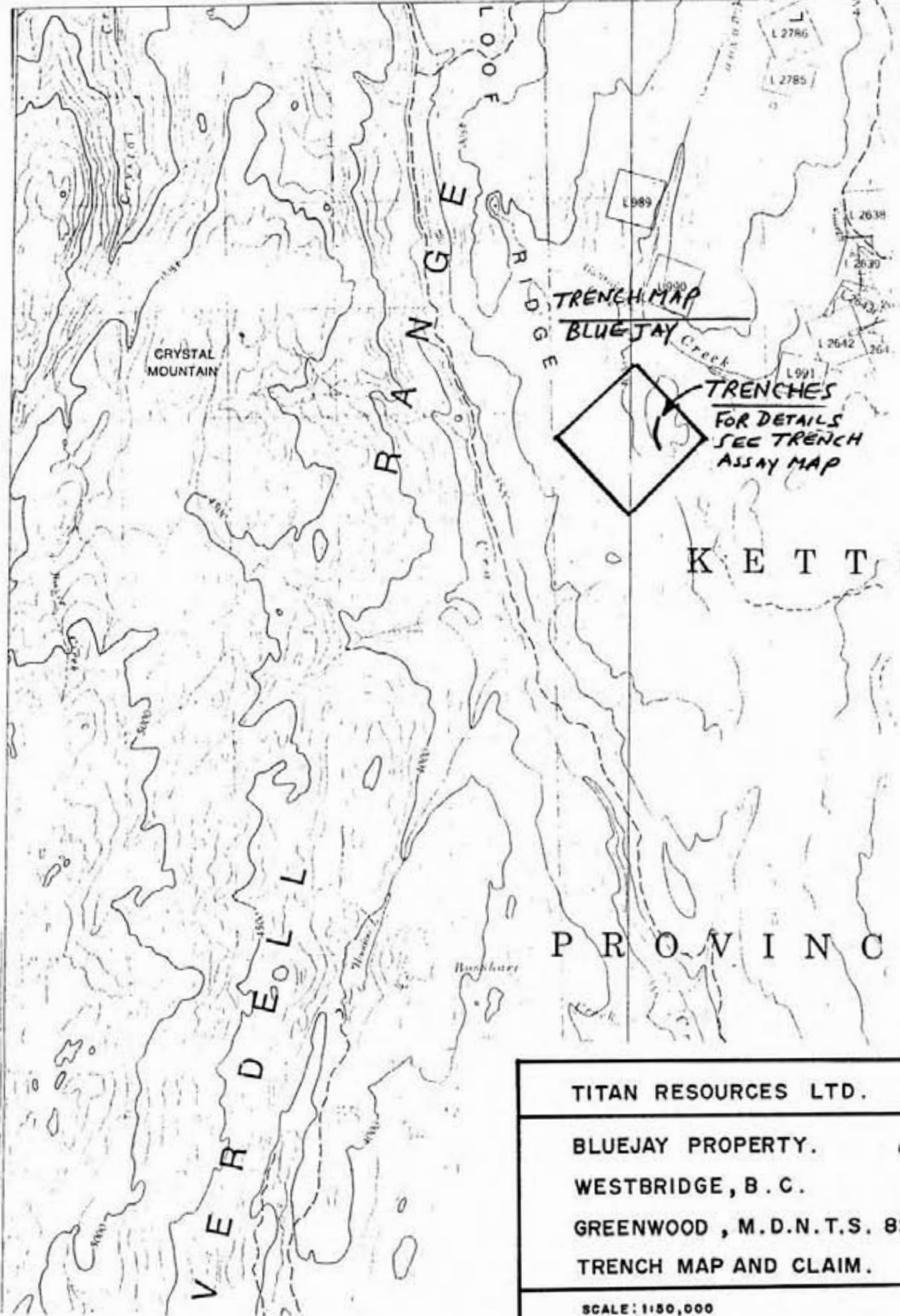
BLUEJAY PROPERTY

WESTBRIDGE, B.C.

GREENWOOD, M.D.N.T.S. 82/7E

LOCATION MAP.

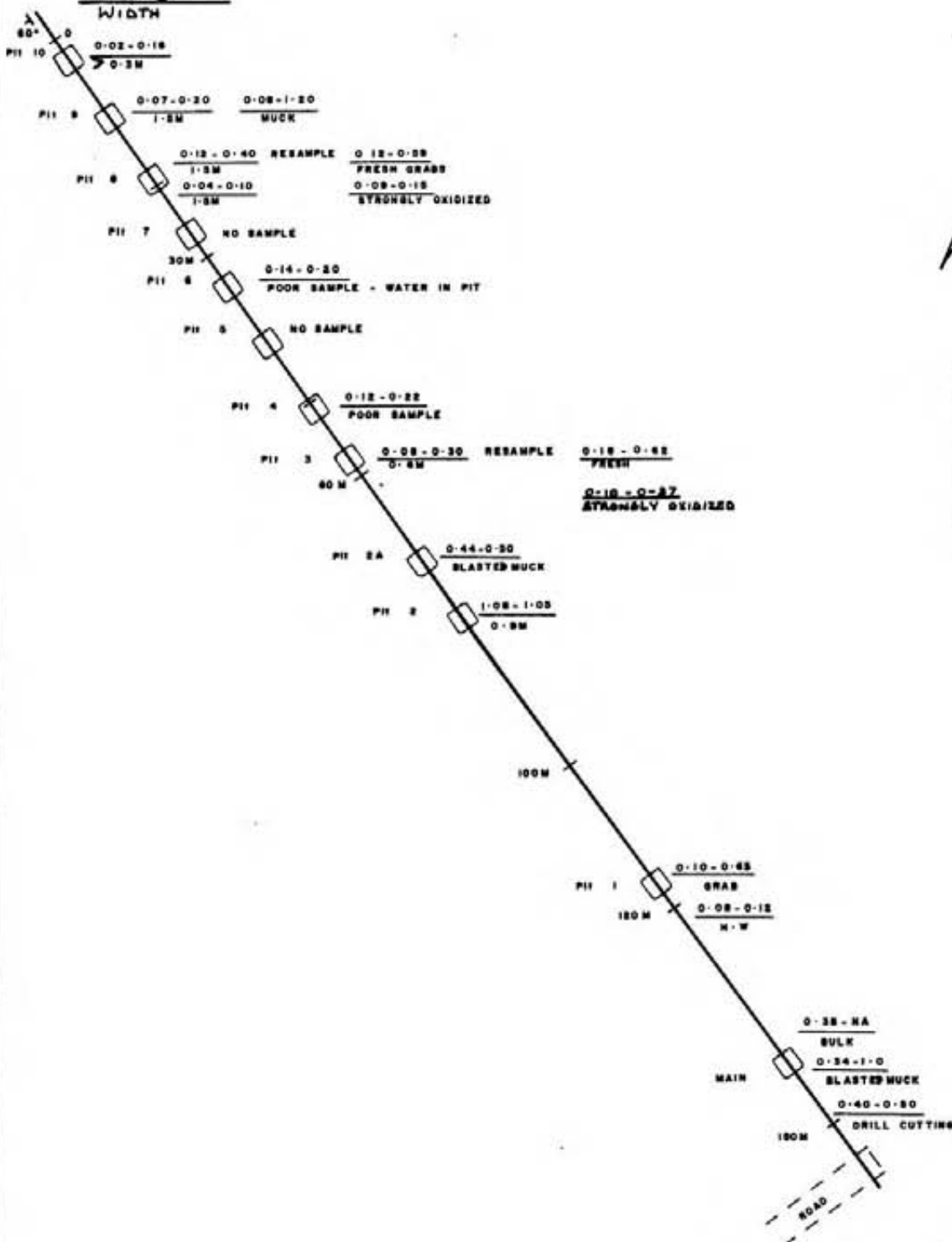
D.W. PRINGLE AND ASSOCIATES LTD. NOV. 7, 1983.



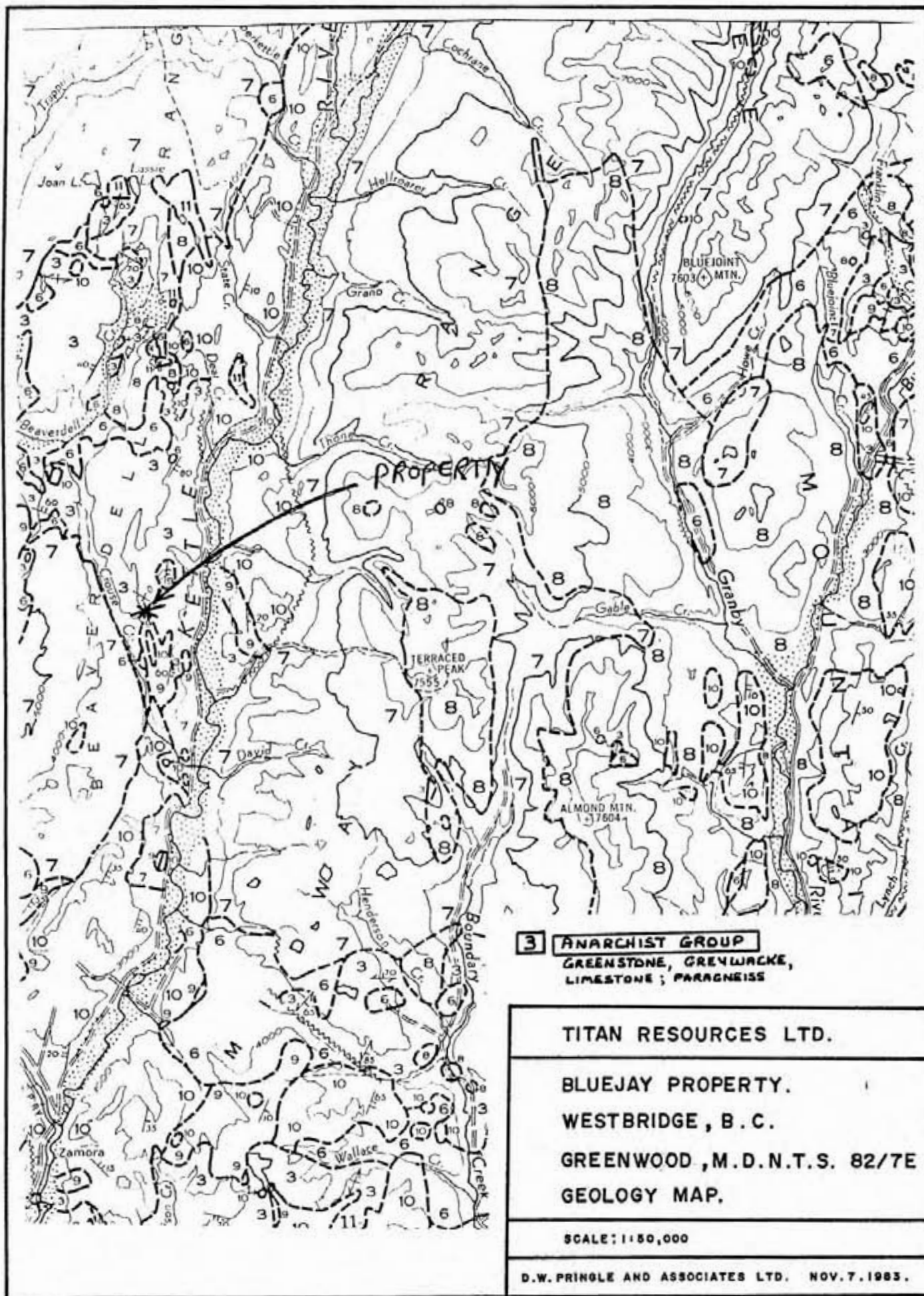
TITAN RESOURCES LTD.
BLUEJAY PROPERTY. WESTBRIDGE, B. C. GREENWOOD, M. D. N. T. S. 82/7E TRENCH MAP AND CLAIM.
SCALE: 1:150,000
D.W. PRINGLE AND ASSOCIATES LTD. NOV. 7. 1983.

Au - Ag

WIDTH



TITAN RESOURCES LTD.
BLUEJAY PROPERTY. WESTBRIDGE, B.C. GREENWOOD, M.D.N.T.S. 82/7E TRENCH ASSAY MAP.
SCALE: 1:500
D.W. PRINGLE AND ASSOCIATES LTD. NOV. 7, 1983.



**3 ANARCHIST GROUP**  
 GREENSTONE, GREYWACKE,  
 LIMESTONE ; PARAGNEISS

TITAN RESOURCES LTD.

BLUEJAY PROPERTY.  
 WESTBRIDGE, B. C.  
 GREENWOOD, M. D. N. T. S. 82/7E  
 GEOLOGY MAP.

SCALE: 1:50,000

D.W. PRINGLE AND ASSOCIATES LTD. NOV. 7, 1983.

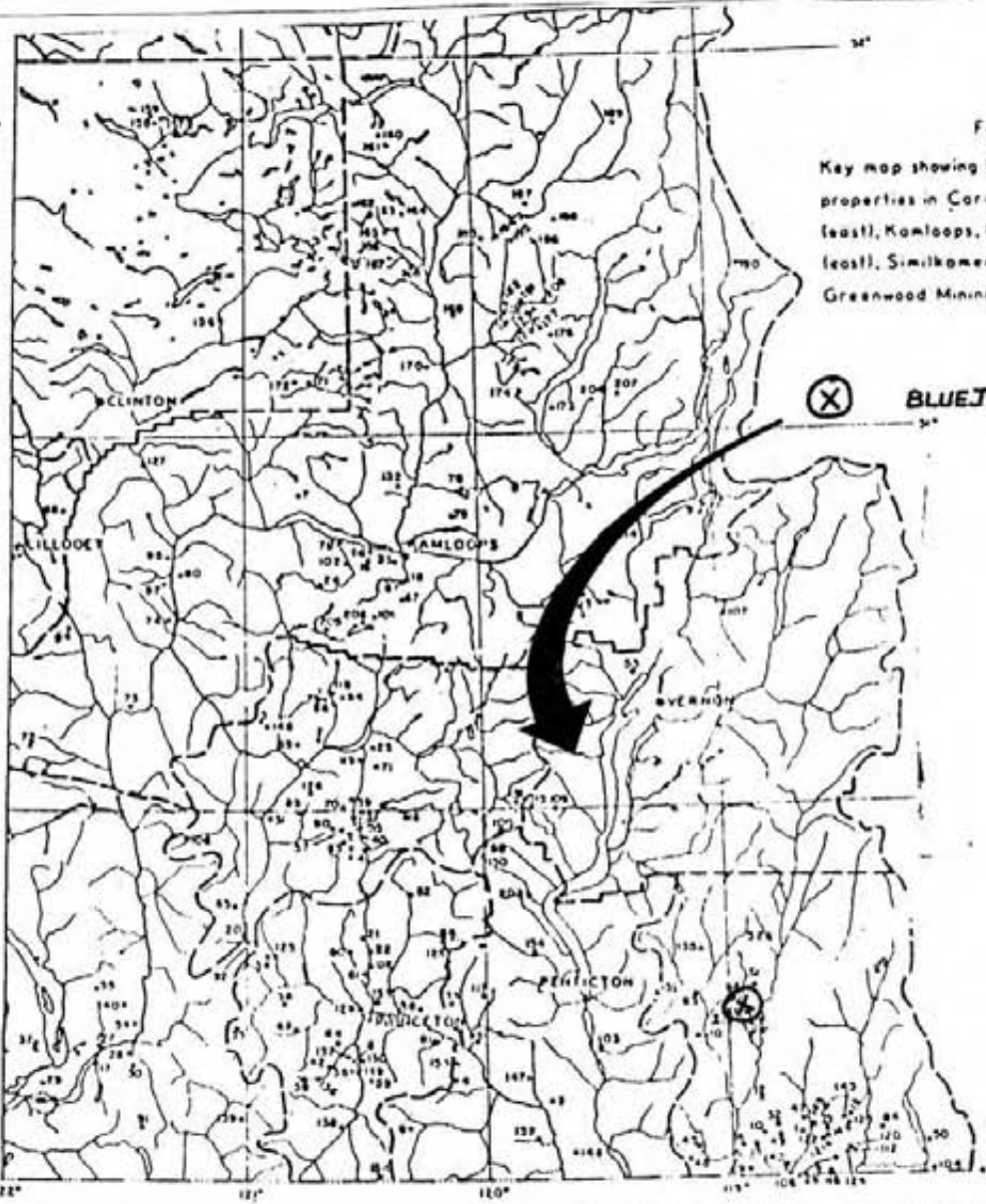


Figure H  
 Key map showing locations of mining properties in Cariboo(southeast), Clinton (east), Kamloops, Nicola, New Westminster (east), Similkameen, Okanagan, Vernon, and Greenwood Mining Divisions.

⊗ BLUEJAY PROPERTY

1970 MINISTER OF MINES MAP H. PAGE 295

TITAN RESOURCES LTD.
BLUEJAY PROPERTY. WESTBRIDGE, B. C. GREENWOOD, M.D.N.T.S. 82/7E MINERAL PROPERTIES.
SCALE: 1:50,000
D.W. PRINGLE AND ASSOCIATES LTD. NOV. 7, 1983.



PHONE 495-6933  
P. O. BOX 100

FILE No. 424  
DATE May 4th., 70

To:—

Mr. Ron Rutherglen
Penticton B.C.

<b>JOHN O. DOLPHIN</b>
ASSAYER                  CHEMIST
<b>OSOYOOS, B. C.</b>

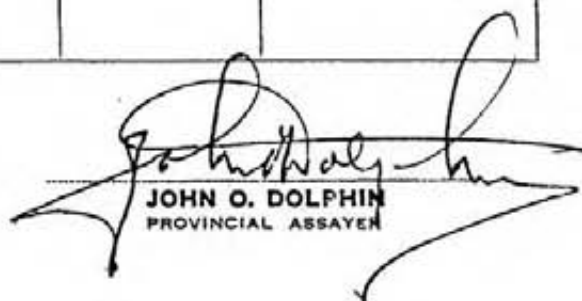
## Assay Certificate

I HEREBY CERTIFY that the following are the results of the submitted samples:

SAMPLE NO.	GOLD OUNCES PER TON	SILVER OUNCES PER TON	LEAD % PER TON	ZINC % PER TON	COPPER % PER TON
Sulphides # 2 Trench	0.98	0.4			

Ron:-  
Sorry but you have a hell of a lot of Arsenic in this sample.

CHARGES: \$ 4.00

  
JOHN O. DOLPHIN  
PROVINCIAL ASSAYER

PHONE 495-6933  
P. O. BOX 100

252-X  
FILE No. July 8th., 68  
DATE

To:—

Mr. Ronald Rutherglen,
Penticton, B.C.

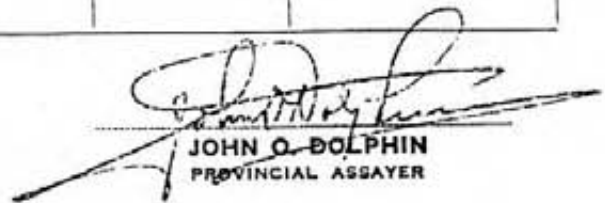
<b>JOHN O. DOLPHIN</b>
ASSAYER
METALLURGIST
<b>OSOYOOS, B. C.</b>

## Assay Certificate

I HEREBY CERTIFY that the following are the results of the submitted samples:

MARKED	GOLD		SILVER		LEAD Width:	Trench ZINC No	COPPER	
	OZS.	PER TON	OZS.	PER TON	%   PER TON	%   PER TON	%   PER TON	
No. 82	.38		1.2		1.5'	4		
83	.06		.7		1.3'	7		
84	.10		.6		3.5'	5		
85	.01		.1		3.0	9		
86	.05		.6		2.8	12		
87	.36		1.4		2.5	13		
88	.28		1.4		4.4	14	0.33	
89	tr		tr		2.0			
90	.24		1.3		1.5			
91	.04		.4		grab	7		
92	.02		.9		"			

CHARGES: \$ 46.00

  
JOHN O. DOLPHIN  
PROVINCIAL ASSAYER

PHONE 495-6933

P.O. BOX 100

# JOHN O. DOLPHIN

ASSAYER — CHEMIST — METALLURGIST

## OSOYOOS, B.C.

TO:

Mr. Ron Rutherglen
Penticton B.C.

### Assay Certificate

*Claim # 2*

I HEREBY CERTIFY THAT THE FOLLOWING ARE THE RESULTS OF THE SUBMITTED SAMPLES

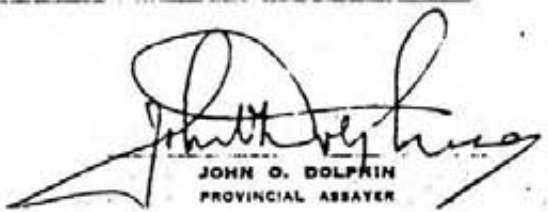
MARKED	GOLD OZS PER TON	SILVER OZS PER TON	% PER TON	% PER TON	% PER TON
#2 CLAIM Grey quartz and some pyrites etc.	0.38	4.4			\$22.90 per ton. Value

5284

FILE NO. July 4th., 67

DATE Paid

CHARGES



JOHN O. DOLPHIN  
PROVINCIAL ASSAYER

# JOHN O. DOLPHIN

ASSAYER — CHEMIST — METALLURGIST

OSOYOOS, B.C.

TO:

Mr. Ron Rutherford
Penticton B.C.

## Assay Certificate

I HEREBY CERTIFY THAT THE FOLLOWING ARE THE RESULTS OF THE SUBMITTED SAMPLES

MARKED	GOLD OZS PER TON	SILVER OZS PER TON	COPPER % PER TON	% PER TON	% PER TON
4 2 Rusty Claim	.45	1.4	0.251		

Note:

There is Nickel in this sample but not of commercial value.

FILE NO

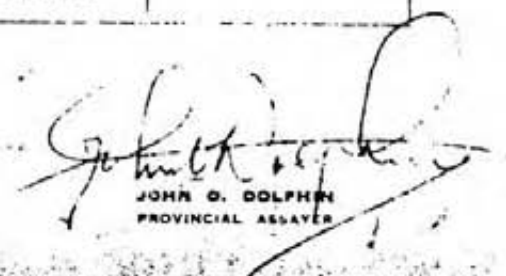
263

DATE

June 17th., 6

CHARGES

6.00



JOHN O. DOLPHIN  
PROVINCIAL ASSAYER

# JOHN O. DOLPHIN

ASSAYER — CHEMIST — METALLURGIST

OSOYOOS, B.C.

TO:

Mr. Ron Rutherglen
Penticton B.C...

## Assay Certificate

I HEREBY CERTIFY THAT THE FOLLOWING ARE THE RESULTS OF THE SUBMITTED SAMPLES

MARKED	GOLD OZS PER TON	SILVER OZS PER TON	% PER TON	% PER TON	% PER TON
# 1 Claim Intial Post	trace	0.5			
# 3 Claim 100' from #1 Post	.015	1.0			

5383

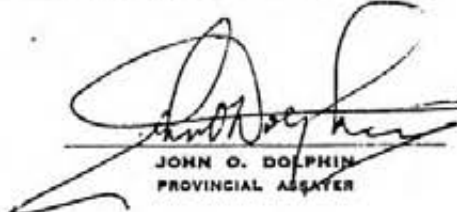
FILE NO. \_\_\_\_\_

July 17th., 67

DATE \_\_\_\_\_

\$8.00

CHARGES \_\_\_\_\_



JOHN O. DOLPHIN  
PROVINCIAL ASSAYER

D. W. PRINGLE & ASSOCIATES LTD.

MINING CONSULTANTS

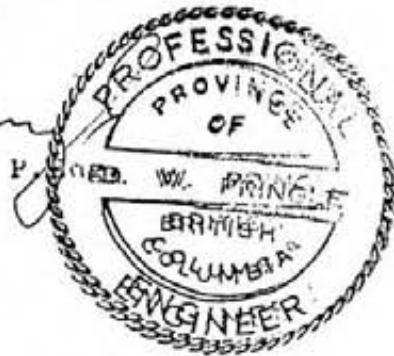
RESIDENCE  
R. R. 2  
OLIVER B.C.  
(604) 498-3656

CERTIFICATE

I, Donald W. Pringle, of R.R.#2, Oliver, B.C.  
do hereby certify that:

1. I am a graduate of the University of Toronto,  
B.A.Sc., Mining Engineering, 1944.
2. I am a Registered Professional Engineer of the  
Province of British Columbia.
3. I am a life member of the Canadian Institute of  
Mining and Metallurgy.
4. I have practised my profession since graduation.
5. I have personally examined the property as des-  
cribed in this report.
6. I have not received, nor do I expect to receive  
any interest directly or indirectly in the pro-  
perties or securities of Titan Resources Ltd. or  
Lankoe Mines Ltd.

  
D.W. Pringle, P.



Oliver, B.C.

VOH 1TO

7 November 1983

D. W. PRINGLE & ASSOCIATES LTD.


MINING CONSULTANTS

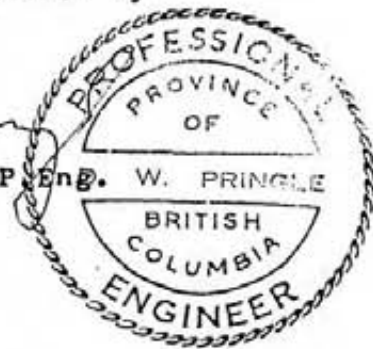
RESIDENCE  
R. R. 2  
OLIVER B.C.  
(604) 498-3656

LETTER OF ACKNOWLEDGEMENT

I, Donald W. Pringle, do hereby consent to Titan Resources Ltd. or its associated companies using the Report of the Bluejay Property dated 7 November 1983 in any statement of material fact as required by security regulations.

7 October 1983

  
D.W. Pringle, P. Eng. W. PRINGLE



D. W. PRINGLE & ASSOCIATES LTD.  
MINING CONSULTANTS

RESIDENCE  
R. R. 2  
OLIVER B.C.  
(604) 498-3656

27 November 1983

Titan Resources Ltd.  
P.O. Box 190  
Keremeos, B.C.  
VOX 1N0

Invoice for Professional Services re Bluejay Claims:

Property Visit 4 Nov/83 Report Investigation Ministry of Mines Report = 2½ days @ \$350.00	\$875.00
Expenses 70Km @ 20¢/km	14.00
Typing Report	25.00
TOTAL:	<u>\$914.00</u>



# TITAN RESOURCES LTD.

March 27, 1984

## Introduction

The following is an itemized cost statement for valuation of work done on the Bluejay #1, #2, #3, #4 claims all of the Bluejay Claims Group. All costs shown were incurred from September 15, 1983 to November 15, 1983.

All work was performed on behalf of the above claims and all costs are those directly related to that work.

## Cost Statement

Geological Services - 5 man/days at \$160.00/day	\$ 800.00
Geochemical Services - 18 assays @ \$7.50/assay	135.00
Transportation Costs - 4 days at \$70.00/day	280.00
Secretarial Services -	50.00
Miscellaneous Cost -	<u>12.00</u>
 Total	 <u>\$1277.00</u>

Yours truly,

E. Larabie P. Eng.,  
Manager.

