

84-#322-12258

MineQuest Report #62  
Ref. No. RM803

THOM CLAIMS

PROSPECTING AND ROCK SAMPLING

Kamloops Mining Division

N.T.S. 92 I/10,11,14,15

Latitude 50°44'N  
Longitude 121°00'W

UTM 641000E, 5623000N

By

S.L. Ridley

of

MineQuest Exploration Associates Ltd.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>UNITS</u>	<u>DATE RECORDED</u>
Thom I	4748	16	September 15, 1983

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,258**

April, 1984

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1.0

INTRODUCTION

The Thom claims were staked on the basis of gold associated with anomalous quantities of arsenic in heavy mineral and silt samples taken from stream sediments. Work described in this report consisted of prospecting and preliminary rock sampling directed at locating the source of gold found in both the heavy mineral concentrates and subsequent silt samples.

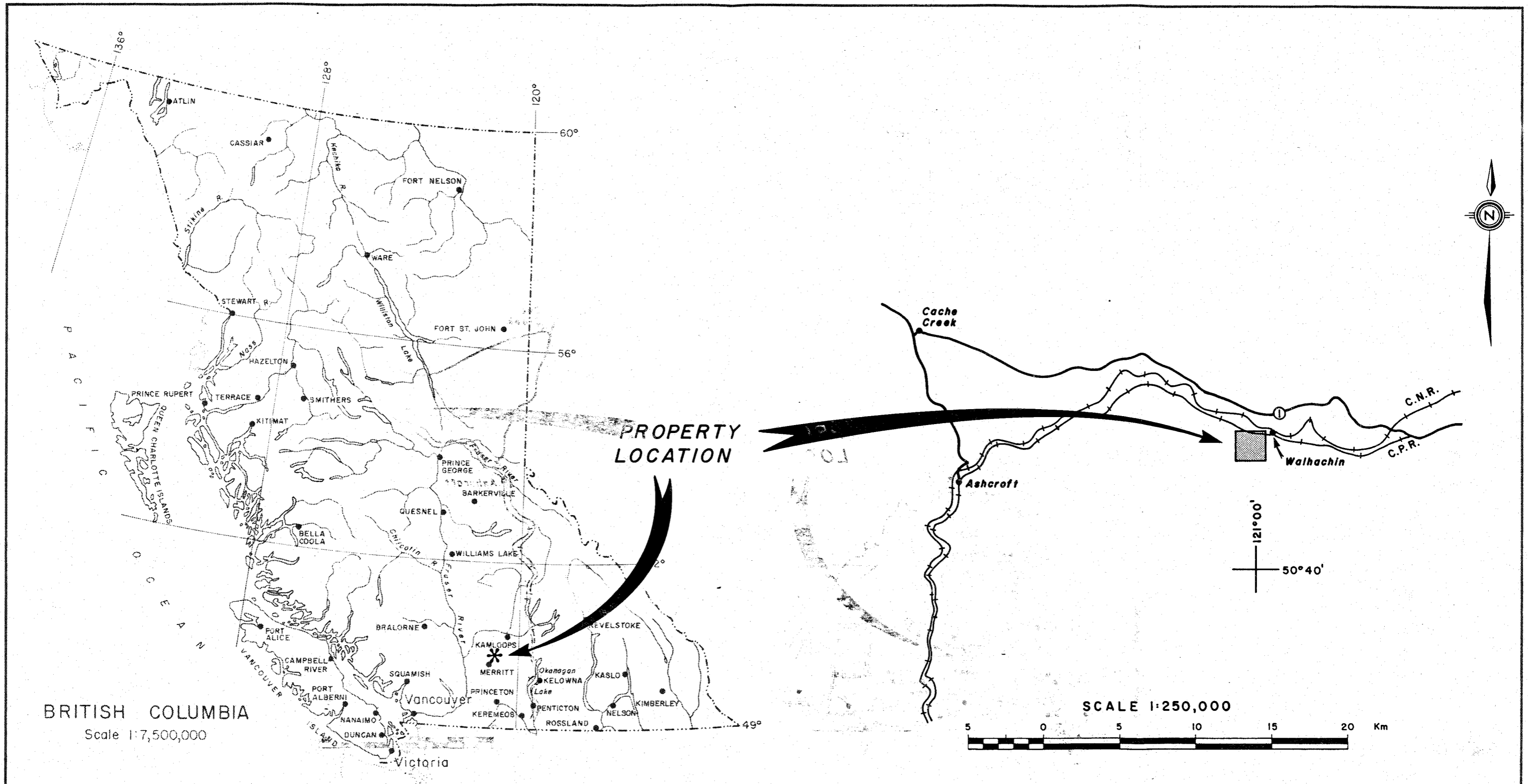
2.0

LOCATION, ACCESS AND TOPOGRAPHY

The Thom claim is located 26km east-southeast of Cache Creek near the hamlet of Walhachin, along the Thompson River (Figure 1).

Access to the property is provided by unpaved road to Walhachin leaving the Trans-Canada highway 22km east of Cache Creek, and by logging roads and tracks south from Walhachin. Travel on the property is by foot or trail bike.

The topography consists of a very gentle north facing bank of the Thompson. Relief is 300m up from the Thompson which is at 335m (1,100 feet). Vegetation consists of low shrub and grassland.



BRITISH COLUMBIA  
Scale 1:7,500,000

SCALE 1:250,000



GOLDQUEST I PARTNERSHIP			
THOM CLAIM			
LOCATION MAP			
PLAN NO.	DRAWN	DATE APRIL, 1984	FIGURE 1
Revised _____		N.T.S. 92 I	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

3.0

OWNERSHIP AND CLAIM STATUS

The claim listed in Table I is held by MineQuest Exploration Associates Ltd. on behalf of GoldQuest I, a General Limited Partnership.

Table I  
Claim Status

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Due Date Before Submission of this Report</u>
Thom I	4748	16	September 15, 1983

4.0

HISTORY AND PREVIOUS WORK

The ground presently covered by the west half of the Thom claim has been explored and tested for copper. Supertest Investments and Petroleum Ltd. carried out geological mapping, soil geochemistry, I.P. and magnetometer surveys and diamond drilling from 1969 to 1973. Their work is covered in Assessment Reports 2476, 2772, 2773, 3506 and 3743. In 1974 BP Minerals took the property over and followed with an I.P. survey, detailed geologic mapping and percussion drilling (Assessment Reports 5730 and 6107). Interest was directed toward copper mineralization in felsic intrusives and associated breccias. In 1979 Bethlehem Copper Corporation explored the same area for base metals, principally copper.

The Lucky Strike claims, (Min Inv. 92INE053) 1km east of the Thom were also explored for copper. Chalcopyrite and bornite occur as fracture fillings and blebs in altered Nicola volcanics.



5.0 WORK PERFORMED IN 1983

5.1 Prospecting and Rock Sampling

D.J. Coffin, J.M. Hislop, S.J. Graham and D. Moraal spent 7 man days prospecting and rock sampling the Thom claims. 35 samples were collected and analysed for gold and silver by Bondar-Clegg and Company. Locations are plotted on Figure 3.

5.2 Heavy Mineral and Silt Sampling

Heavy mineral samples and a small number of follow-up silt samples were collected from streams crossing the claim block. This sampling is not being filed as assessment work and thus neither results nor expenditures are included in this report.

5.3 Laboratory Methods

Rock samples were sent to Bondar-Clegg and Company where they were crushed and pulverized to -100 mesh. An aqua-regia digestion (a 1:3 ratio of nitric and hydrochloric acid) followed by an atomic absorption determination were used to analyse gold and silver content.

6.0

GEOLOGY

The Thom claim area was mapped by A.R. Findlay of B.P. Minerals in 1974 (Assessment Report 5730). From his report the region is underlain by Upper Triassic Nicola volcanics and which are in contact with the Upper Triassic Guichon batholith. Large areas of Tertiary Kamloops Group volcanics cap the Triassic rocks. On the property the Nicola volcanics, andesitic and basaltic flows and tuffs, have been intruded by a hornblende diorite which is believed to be part of the Guichon intrusive. A body of quartz syenite - quartz monzonite and associated intrusive breccia and a second small quartz porphyry pluton have intruded the hornblende diorite. The age of the quartz syenite/quartz monzonite/intrusive breccia package is unknown but the intrusive is believed to be a late stage event of the diorite intrusion. The quartz porphyry pluton is seen veining the hornblende diorite and is believed to be Mesozoic or Tertiary in age.

Cockfield (1948) and Duffel (1952) have mapped the area on a regional scale. They include a Cretaceous or Tertiary age package of conglomerate, sandstone and shale in the area of the Thom claim. This unit was not mentioned by Findlay but a boulder conglomerate unit was found by the prospectors as described in section 7.0.

## 7.0

RESULTS7.1 Prospecting and Rock Sampling (Figure 2)

A total of three days (seven man days) were spent prospecting and rock sampling on Thom I during September and November 1983. Rock types found on the claims are listed:

- i) Intrusive, fine grained, acidic, commonly altered, weak silicification, quartz veining, pyrite in fractures and veins with minor hematite and malachite, rusty weathering.
- ii) Boulder Conglomerate, small silicified zones, rusty weathering, weak to no alteration.
- iii) Andesitic Tuff and Basalt, intercalated, no alteration noted.

September 16 and 17th, 1983: D.J. Coffin and J.M. Hislop prospected an area east of an anomaly found silt sampling Rattlesnake Creek. Several small areas of siliceous conglomerates were found but none were considered large enough to warrant extension of the staking in this direction. No intrusive outcroppings were found.

November, 1983 D.J. Coffin, S. Graham and D. Moraal sampled the intrusive outcrops at the northern end of Rattlesnake Creek. 35 rock grab samples were taken. Sampling was restricted to the northern half of the intrusive. A second day sampling the southern half of the intrusive along its contact with the conglomerate was not completed and should take priority for further work.

D. Coffin and S. Graham spent one day prospecting areas outside the claim block with the view to extending claim boundaries if needed. No intrusive, and no area of major interest in the conglomerate unit was found south of the claim. The eastern half of the Thom I claim still requires detailed prospecting.

8.0

CONCLUSIONS

The Thom claim requires detailed silt sampling and soil sampling to follow up anomalous gold and arsenic content in Rattlesnake creek sediments. The first pass prospecting and rock sampling directed interest to the intrusives and associated breccias along Rattlesnake Creek.

9.0

REFERENCES

Cockfield, W.E., 1948  
Geology and Mineral Deposits of Nicola  
Map-Area  
GSC Memoir 249, Map 886A

Duffell, S. and McTaggart, K.C., 1952  
Ashcroft Map-Area, British Columbia  
GSC Memoir 262, Map 1010A

BP Minerals Ltd., 1975  
Geophysical Report on the Walkachin Property,  
with Appendix: Geological Mapping Program  
Assessment Report 5730

APPENDIX I  
Laboratory Reports



REPORT: 123-3754

PROJECT: GG/THOM

PAGE 1

SAMPLE NUMBER	ELEMENT LIMITS	As PPM	Al PPS	NOTES
R GGT-5930		<0.2	<5	
R GGT-5931		<0.2	<5	
R GGT-5932		<0.2	<5	
R GGT-5933		0.2	<5	
R GGT-5934		0.4	10	
R GGT-5935		<0.2	<5	
R GGT-5936		1.3	335	
R GGT-5937		<0.2	5	
R GGT-5938		0.2	50	
R GGT-5939		0.4	80	
R GGT-5940		<0.2	<5	
R GGT-5941		<0.2	<5	
R GGT-5942		0.8	25	
R GGT-5943		0.8	35	
R GGT-5944		0.2	30	
R GGT-5945		0.3	10	
R GGT-5946		<0.2	<5	
R GGT-5947		<0.2	<5	
R GGT-5948		<0.2	<5	
R GGT-5949		<0.2	<5	
R GGT-5950		<0.2	<5	
R GGT-5951		<0.2	<5	
R GGT-5952		<0.2	<5	
R GGT-5953		<0.2	10	
R GGT-5954		<0.2	5	
R GGT-5955		<0.2	5	
R GGT-5956		<0.2	25	
R GGT-5957		<0.2	10	
R GGT-5958		0.4	65	
R GGT-5959		0.8	5	
R GGT-5960		0.2	20	
R GGT-5961		<0.2	45	
R GGT-5962		<0.2	5	
R GGT-5963		0.4	45	
R GGT-5964		0.2	5	

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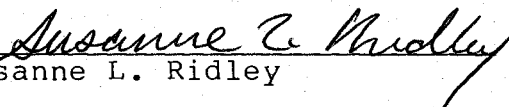
APPENDIX II  
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Susanne L. Ridley, hereby certify that:

1. I am presently employed by MineQuest Exploration Associates Limited as a Geologist.
2. I am a graduate of the University of Western Ontario (B.Sc. Honours, Geology, 1983).
3. I have completed three field seasons in mineral exploration in western and northern Canada
4. The information, opinions and recommendations in this report are based on information acquired from reports, maps and data lists on file at MineQuest and from personal communication with project supervisors.

Signed:

  
Susanne L. Ridley

Dated at Vancouver, B.C. this

APPENDIX III  
Cost Statement

COST STATEMENT - THOM CLAIM  
UP TO DECEMBER 31, 1983

	Thom	Regional Distributable Camp Costs *
Professional Fees (Schedule I) \$	49.50	
Temporary Staff (Schedule I)	823.50	
Contract Staff	100.00	\$ 200.00
Air Fares		1,357.80
Rental Vehicle - Casual		371.49
Rental Vehicle - Term		7,451.64
MQ Rental Vehicle Charges		1,253.29
Taxis, Parking		174.40
Meals Accommodation	88.55	2,412.16
Freight		1,370.70
MQ Equipment Charges - Field	32.00	2,057.00
Equipment Rentals		324.48
Fuels & Lubricants - Vehicle	24.00	2,873.77
Vehicle Repair & Maintenance	8.88	852.01
Groceries, Kitchen Supplies	1.89	966.16
Food & Accommodation - In Field	40.28	11,787.49
General Supplies		1,576.37
Geochemical Analyses	445.71	
Telephone, Telex		689.48
Courier, Postage, Air Express		315.10
Reprographics	40.04	322.60
Xerox - In House		20.15
Maps, Reports, Publications		195.65
Other		165.78
Disbursements Over-Ride	78.14	3,677.75
TOTAL	\$ 1,732.49	\$ 40,415.27

Note: Regional costs distributed according to man days spent on claims. 1.3% of total allocated to Thom claim.

Total \$ applied to Thom = \$ 2,256.08

SCHEDULE I

Professional Fees

Sue Ridley .22 days at \$225.00 \$ 49.50

Temporary Staff

David Coffin

Nov. 3 and 13 (field) 2 days

Nov. 21-30 (non-field) 2.2 days

4.2 days at \$95.00 399.00

Steve Graham

Nov. 3 and 13 2 days at \$75.00 150.00

\$ 549.00

Plus wages over-ride at 50%

274.50

\$ 823.50

5624000 m.N.

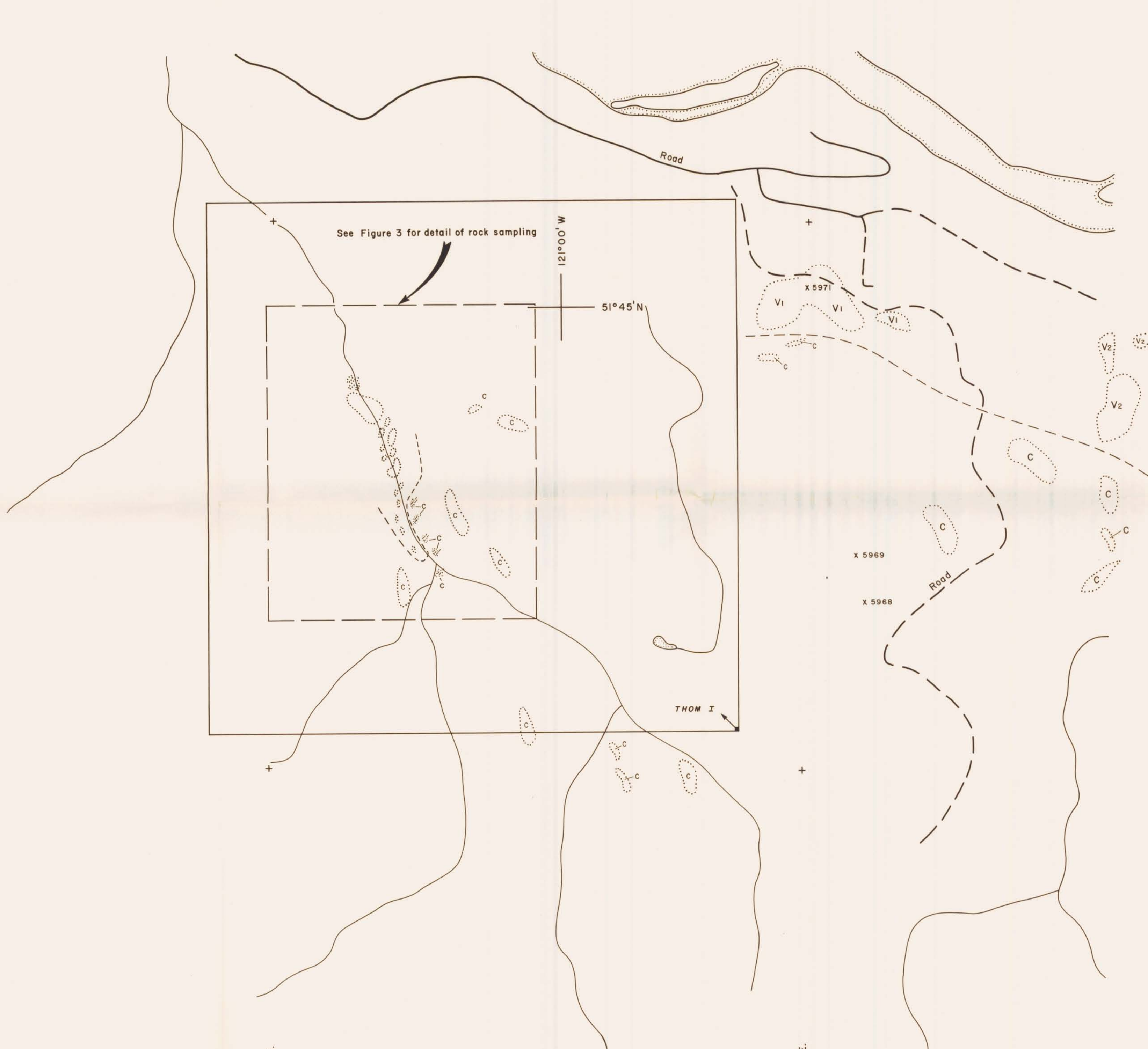
5622000 m.N.

640000 m.E.

642000 m.E.

640000 m.E.

642000 m.E.



See Figure 3 for detail of rock sampling

51°45'N

121°00'W

THOM I

x 5969

x 5968

x 5971



**LEGEND**

**Rock Types**

Sedimentary

C ... Boulder conglomerate

▨ ... Siliceous zones in conglomerate

Volcanic

V<sub>2</sub> ... Andesitic tuff

V<sub>1</sub> ... Basalt

Intrusive

I ... Acidic, fine grained intrusive

Symbols

○ ... Outcrop

x 5971 ... Rock sample location and number

Prospecting by D. Coffin, 1983

SCALE 1:10,000



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 5622000 m.N.

GOLDQUEST I PARTNERSHIP

THOM CLAIM

PROSPECTING

PLAN No. 588	DRAWN	DATE APRIL, 1984	FIGURE 2
Revised		N.T.S. 92I/10.II.IA.I5	
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EXCLUSIVE DRAFTING SERVICES LTD.



**RESULTS**

Sample Number	Au ppb	Sample Number	Au ppb
QGT-5930	< 5	QGT-5960	20
5931	< 5	5961	45
5932	< 5	5962	5
5933	< 5	5963	45
5934	10	5964	5
5935	< 5		
5936	335		
5937	5		
5938	50		
5939	80		
QGT-5940	< 5		
5941	< 5		
5942	25		
5943	35		
5944	30		
5945	10		
5946	< 5		
5947	< 5		
5948	< 5		
5949	< 5		
QGT-5950	< 5	Sample Number	Au ppb
5951	< 5	QGT-5967	10, 5
5952	< 5	5968	< 5, <5
5953	10	5969	< 5, 65
5954	5	5970	5
5955	5	5971	< 5
5956	25		
5957	10		
5958	65		
5959	5		



**LEGEND**

**Rock Types**

**Sedimentary**

C ... Boulder conglomerate

▨ ... Siliceous zones in conglomerate

**Intrusive**

I ... Acidic, fine grained intrusive

**Symbols**

○ ... Outcrop

x5964 ... Rock sample location and number

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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

SCALE 1:2500



GOLDQUEST I PARTNERSHIP			
THOM CLAIM			
<b>GEOCHEMISTRY</b>			
<b>ROCK SAMPLE LOCATIONS AND RESULTS</b>			
PLAN No. <b>589</b>	DRAWN	DATE APRIL, 1984	FIGURE <b>3</b>
Revised		N.T.S. 921/10,11,14,15	
MINEQUEST EXPLORATION ASSOCIATES LTD.			