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#### **ASSESSMENT REPORT**

#### **ON PROSPECTING AND SAMPLING**

#### **OF THE**

## SADDLEHORN PROPERTY

Liard Mining Division, British Columbia NTS 104G/4 Latitude: 57° 08' N Longitude: 131° 35' W

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M.R.	#\$ VANCOUVER, B.C.	

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On behalf of

SOLOMON RESOURCES LIMITED Vancouver, B.C.

by

Arthur Blain, B.Sc. (Hons.), ARSM and N. Clive Aspinall, M.Sc., P.Eng. KEEWATIN ENGINEERING INC. #800 - 900 West Hastings Street Vancouver, B.C. V6C 1E5

November 19, 1990

#### **SUMMARY**

The Saddlehorn property is situated on the Anuk River within the Liard Mining Division in northwestern British Columbia and was staked to cover a 236 ppb gold silt anomaly.

During the 1990 season, four man days were spent prospecting in the gold anomalous area outlined by Cominco Ltd.

Three potential sources for the anomaly were found, a jarositic-pyritic zone, quartz veins and a pyritic shear zone. Rock sample results proved to be low, the highest gold value being 5,060 ppb. One quartz vein returned a copper value of 99,839 ppm but its dimensions at outcrop were 10 cm wide and 6 m long.

Further work on the property should be given a low priority.

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Map 3.	Geochemistry Results - Silver/Lead	
Map 4.	Geochemistry Results - Zinc/Arsenic	

#### **INTRODUCTION**

#### **Location and Access**

The Saddlehorn property is located in northwestern British Columbia on NTS Map 104G/4 (Flood Glacier), Liard Mining Division (Figure 1). The property lies mainly on the northern flank of the Anuk River, a tributary of the Stikine River.

Galore Creek lies 7 km to the east. The closest airstrip to the property is at the confluence of the Scud and Stikine Rivers, 25 km to the northwest (Figure 2).

#### **Topography, Vegetation and Climate**

The property is situated on a steep south facing slope with elevations rising to 4,500 feet. The lower slopes are covered in a thick growth of alders, these thin out into alpine scrub trees and grasses on the upper slopes.

Snow begins to accumulate in October and may remain on the upper parts of the property until July.

## **Ownership/Tenure**

The Saddlehorn claim is in the Liard Mining Division (Figure 3).

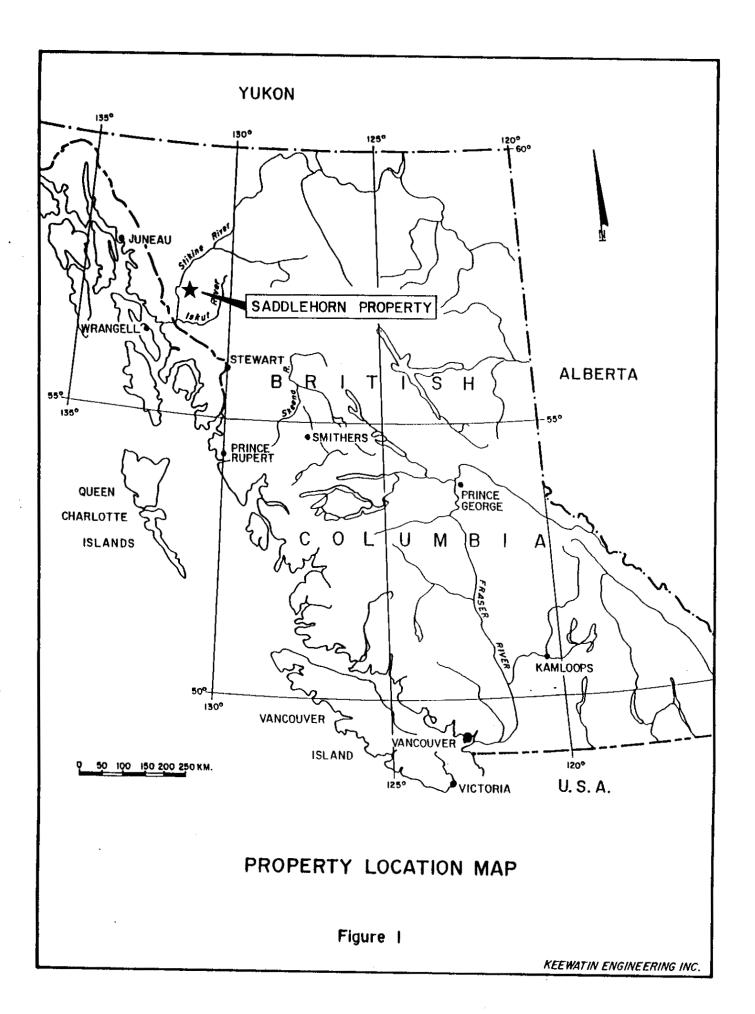
Claim Name	Record No.	No. of Units	Date Recorded
Saddlehorn	4252	20	October 5, 1987

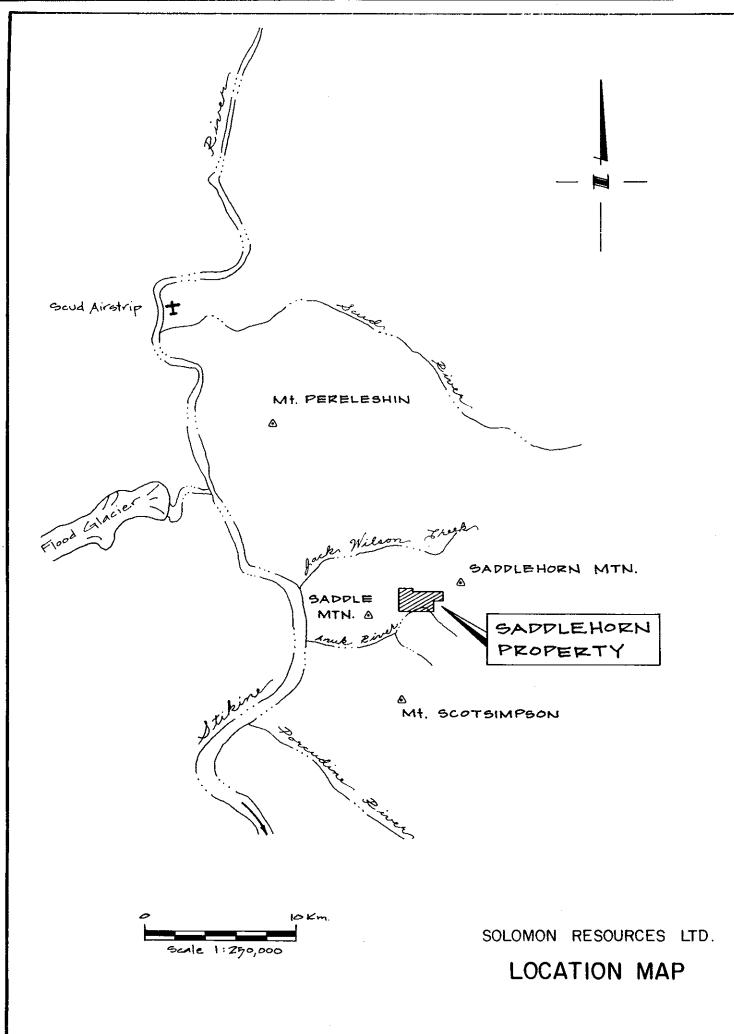
It is 100% owned by Cominco Ltd.

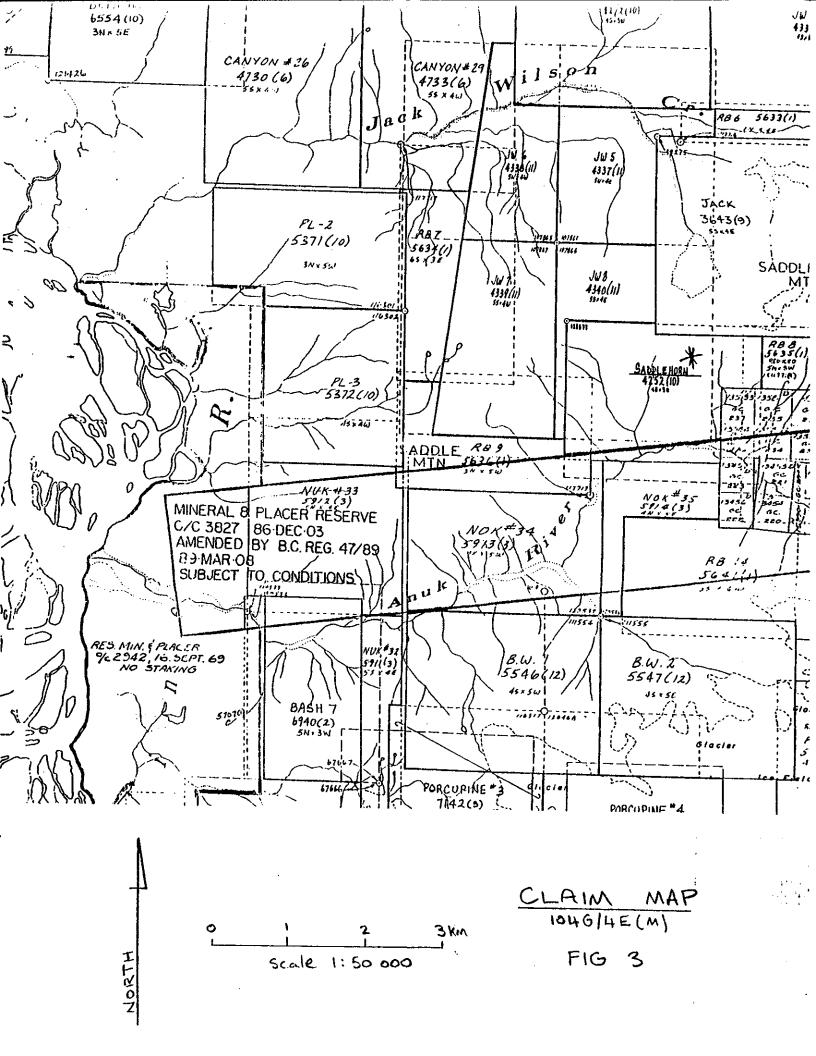
#### **Property History**

The property was staked on September 23, 1987 to cover a 236 ppb gold silt anomaly. During the 1988 field season, Cominco Ltd. spent 12 man days and \$10,170.75 on the claim. Two hundred and eighteen soil and 15 rock samples were collected.

1







2

A gold anomaly was located in the northern part of the claim near the head of the drainage system. It was attributed to syenitic dykes, quartz veins and pyritic shears in greenstones which have been intruded by stocks of the Coast Range Complex.

#### Work Completed in 1990

In June 1990, Solomon Resources Ltd. entered an option agreement with Cominco Ltd. Pursuant to the terms of the agreement, Solomon Resources Limited could earn a 51% interest in the Saddlehorn property.

Work carried out in September, 1990 included prospecting the area outlined by Cominco as gold anomalous. Twelve rock, six soil and two silt samples were collected. A total of four man days were spent on the property. The total expenditures for work performed on the claims was \$6,975.00.

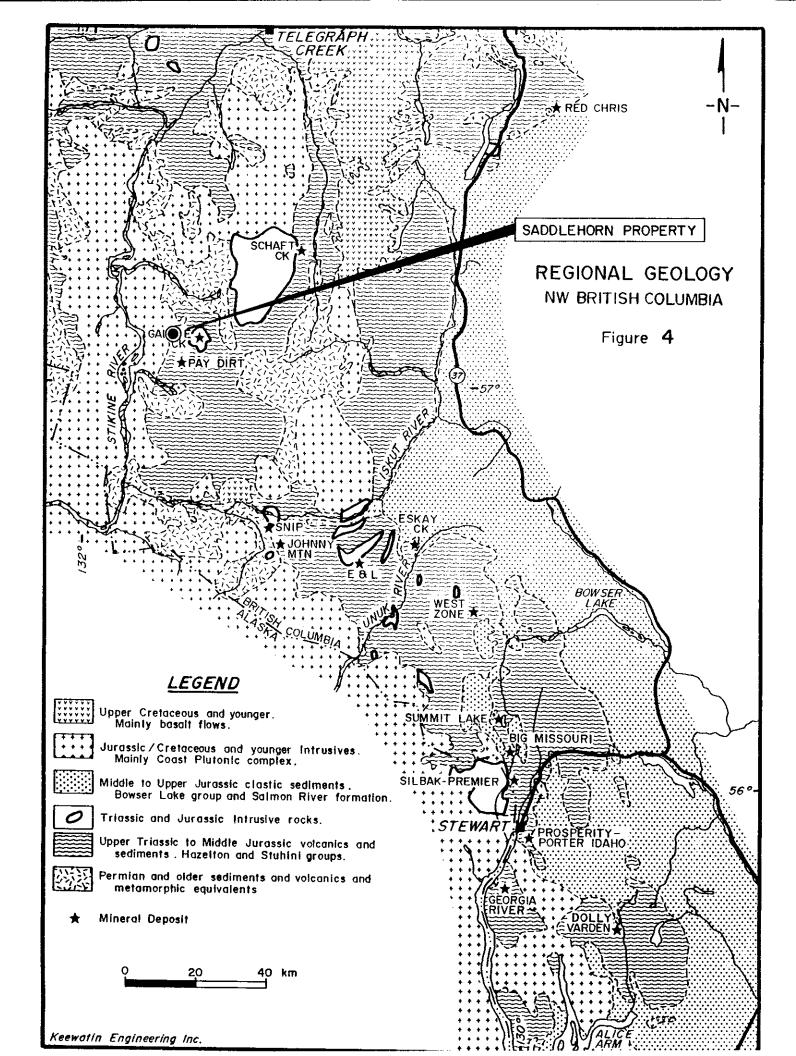
#### **GEOLOGY**

#### **Regional Geology**

The property is situated in the Intermontane Belt of the Canadian Cordillera close to the eastern boundary of the Coast Plutonic Complex (Figure 4). The Intermontane Belt contains Palaeozoic to Mesozoic volcanic and sedimentary rocks, and has been intruded by at least four episodes of plutonic rocks from late Triassic to Oligocene-Miocene. The main tectono-stratigraphic pattern conforms to the general Cordilleran pattern; suture zones and affiliated faults, fold and batholithic axes having a northwest trend.

#### **Property Geology**

The area prospected was found to be underlain by greenstones and argillites most probably belonging to the Upper Triassic Stuhini Group. The rocks are cut by north-south trending hornblende porphyry dykes, east-west trending quartz veins and north-northwest striking pyritic shear zones. The property is located close to the eastern margin of granodiorite to quartz-diorite stocks of the Jurassic-Cretaceous Coast Plutonic Complex (Figure 4).



#### **MINERALIZATION**

Silt samples taken below the area prospected confirm the presence of a gold-copper anomaly. Three potential sources for the anomaly were found (Map 1).

- A 25 m wide jarositic, bleached pyritic zone trending roughly 330° cuts the area. 1. Central to this zone is a siliceous pod with irregular quartz veining, sample results for rock and soil were low, 55 ppb and 100 ppb gold respectively.
- Several milky white quartz veins trending 100°/80°N were noted in malachite stained 2. greenstones. The veins are up to 10 cm wide at outcrop, often bificate and are discontinuous after 6 metres. One rock sample contained 99,839 ppm copper, the highest gold value was 5,060 ppb Au.
- A brecciated, pyritized and silicified shear zone trending 350°/65° E and traceable 3. for up to 10 metres gave a low rock sample result, 17 ppb gold.

#### CONCLUSIONS

Rock sample results from a jarositic-pyritic zone, quartz veins and a pyritic shear zone proved to be low. One sample recorded 9,983 ppm copper but this was from a vein 10 cm wide and 6 m long at outcrop. The highest gold value was 5,060 ppb.

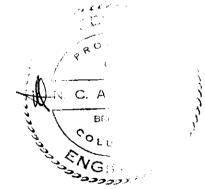
#### **RECOMMENDATIONS**

Any further work on the property should be low priority.

Respectfully submitted,

**KEEWATIN ENGINEERING INC.** 

A.B.C. Arthur Blain, B.Sc. (Hons.)



N. Clive Aspinall, M.Sc., P.Eng.

## **REFERENCES**

Paterson, I.A. (1989). Assessment Report, Geochemical Survey on the Saddlehorn Property, Liard Mining Division, B.C., for Cominco Ltd.

Terrane Map of the Canadian Cordillera (1988).

Kerr, F.A. (1948). Lower Stikine and Western Iskut River Areas, British Columbia. Geological Survey Memoir 246. 5

#### STATEMENT OF QUALIFICATIONS

I, ARTHUR BLAIN, of #805-955 Marine Drive, in the Municipality of West Vancouver, in the Province of British Columbia do hereby certify that:

- 1. I am a Consulting Geologist with the firm of Keewatin Engineering Inc., with offices at #800 900 West Hastings Street, Vancouver, B.C. V6C 1E5.
- 2. I am a graduate from the Royal School of Mines, London, with a B.Sc. (Honours) A.R.S.M. degree (Mining Geology) in 1982. I have practised my profession continuously since then.
- 3. I am co-author of the report entitled "Assessment Report on Prospecting and Sampling of the Saddlehorn Property, Liard Mining Division, B.C.", dated November 19, 1990.
- 4. I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein, nor in the securities of Solomon Resources Limited, in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 19th day of November, 1990.

Respectfully submitted,

f.Blan

Arthur Blain, B.Sc.

#### STATEMENT OF QUALIFICATIONS

I, N. CLIVE ASPINALL, of 117 - 230 Haro Street, in the City of Vancouver, in the Province of British Columbia, do hereby certify that:

- 1. I am a Consulting Geologist with the firm of Keewatin Engineering Inc. with offices at #800 900 West Hastings Street, Vancouver, B.C. V6C 1E5.
- 2. I am a graduate of McGill University with a Bachelor of Science degree in 1964 and a Master of Science degree from Camborne School of Mines in 1987, in Mining Geology and I have practised my profession for 26 years.
- 3. I am a member in good standing of the Association of Professional Engineers of British Columbia and a Fellow of the Geological Association of Canada.
- 4. I am a co-author of the report entitled "Assessment Report on Prospecting and Sampling of the Saddlehorn Property, Liard Mining Division, B.C.", dated November 19, 1990.
- 5. I do not own, or expect to receive any interest (direct, indirect or contingent) in the property described herein, nor in the securities of Solomon Resources Limited, in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 19th day of November, 1990.

Respectfully submitted,

N. Clive Aspinall, M.Sc.

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## APPENDIX I

# **Statement of Expenditures**

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# STATEMENT OF EXPENDITURES

# <u>Pre-Field</u>

Project logistics, map preparation		\$	200.00
<u>Labour</u>			
N.C. Aspinall, Project Supervisor D.M. Strain, Geologist A. Blain, Geologist A. Skey, Field Assistant A. Monid, Field Assistant G. Goodwin, Cook	0.5 days @ \$450.00/day\$ 225.001.0 days @ \$350.00/day350.001.0 days @ \$350.00/day350.001.0 days @ \$175.00/day175.001.0 days @ \$250.00/day250.001.0 days @ \$225.00/day225.00	1	.,575.00
<u>Camp Support</u> Food and Accommodation Communications Expediting and Freight	5.5 man days @ \$60.00/day \$ 330.00 20.00 50.00		400.00
<u>Transportation</u>			
Helicopter Support (including fuel)	) 2.6 hours @ \$688.99/hr + 10%	1	,970.00
Analytical Costs	20 samples @ \$15.00/sample + 10%		330.00
Post-Field			
Report Writing, drafting and repro	duction	2	2,500.00

# TOTAL:

\$6,975.00



## APPENDIX II

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# <u>Analytical Data</u>

Keewatin Engineering Inc.

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rdONL(004)233-3158 FAX(604)253-1718

Page 1

#### GEOCHEMICAL ANALYSIS CERTIFICATE

Keewatin Engineering PROJECT TRI046/ File # 90-5134

800 - 900 W. Hastings St., Vancouver BC V6C 1E5 Submitted by: CLIVE ASPINALL

905HSR-001 905HSR-002 905HSR-003 905ÄDGR-001 905ADGR-002	10 5 4 34 10	141 765 869	7	10 33 11	6		3	151		2000										<u></u> *		• •		ppm						pon po
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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1 TO P2 ROCK P3 TO P6 SOIL P7 SILT AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

Ot 11/90 SIGNED BY. ......D. TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS DATE RECEIVED: OCT 9 1990 DATE REPORT MAILED:

Keewatin Engineering PROJECT TRI046/ FILE # 90-5134

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SAMPLE#	Mo	Cu	Pb	Zn	PA	Ni	Co	Mn	Fe	As	U	Au	Th	Sr 💹 🕻	d :	SЪ	Bi	۷	Ca		La	Cr	Mg	88	TI	B	AL	Ka	K S		
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905HDS-002	5	188	6	81		9	16	770	4.54		5	ND	1	132	7	2	Ż	76		139	6	5	1.25		10		2.45		.16		-1
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**Keewatin Engineering** PROJECT TRI046/ FILE # 90-5134

# Page 7

SAMPLE#	Mo ppm	Cu ppm	Pb ppm		Ag	Ni ppm	Co ppm	Hn ppm	As	U ppm -	Au ppm	Th ppm	Sr Cd ppm ppm		Bi ppm	V ppm	Ca X	P ک	La ppm	Cr ppm	Mg X	Sa Tí ppm Z	B Al ppm %	Na X	1997 P.C.	Au* ppo
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## APPENDIX III

# **<u>Rock Sample Descriptions</u>**

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# KEEWATIN ENGINEERING INC.

ROCK SAMPLES Map: \_\_\_\_

AB Results Plotted By: \_\_\_\_

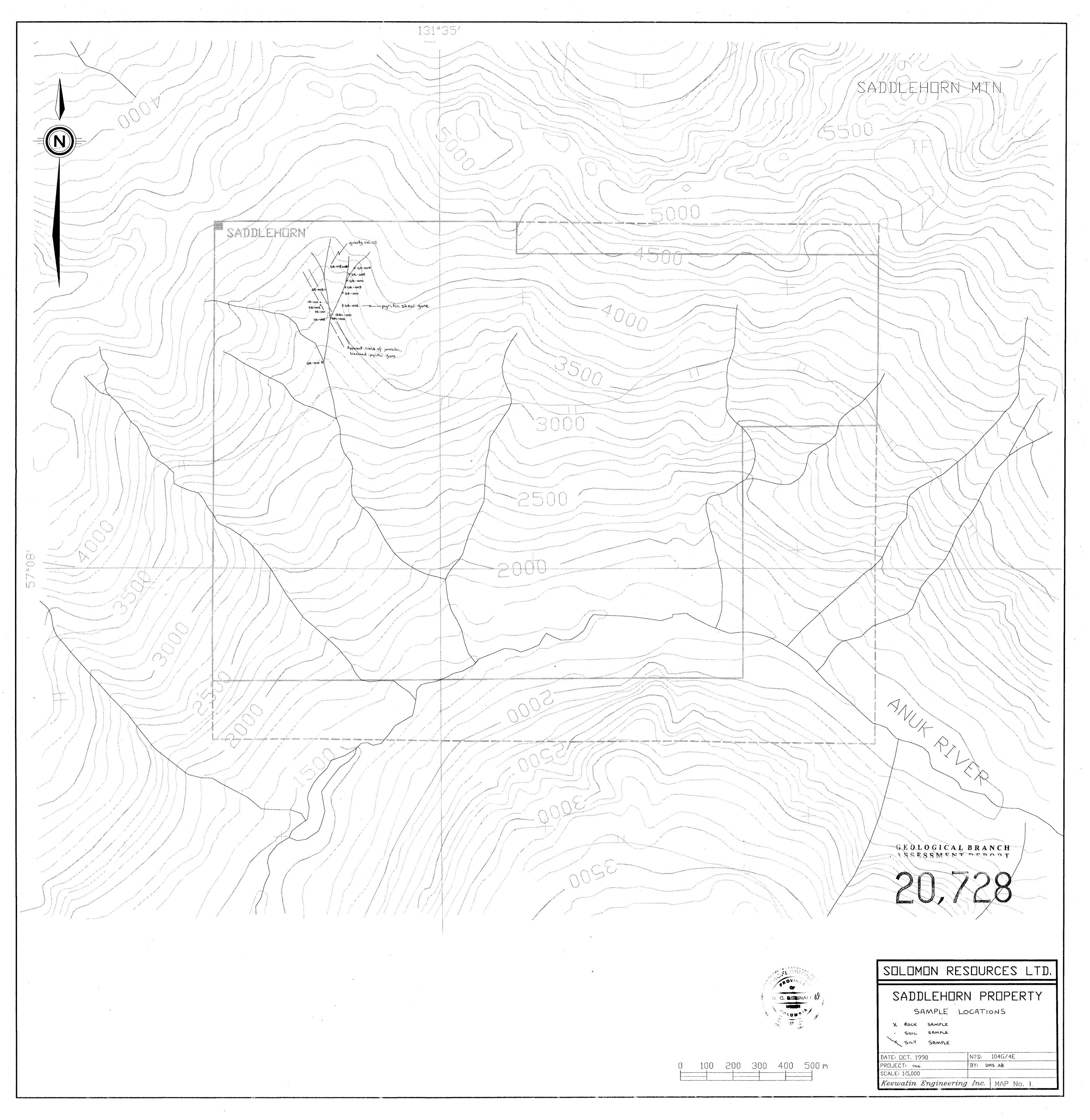
NTS: 104 6/4 Date: 22-SEPT- 1990 . Surface 🗸 Underground

Irea (Grid): UPPER PART OF DRAMAGE AREA collectors: \_\_AB, AM, DS, AS

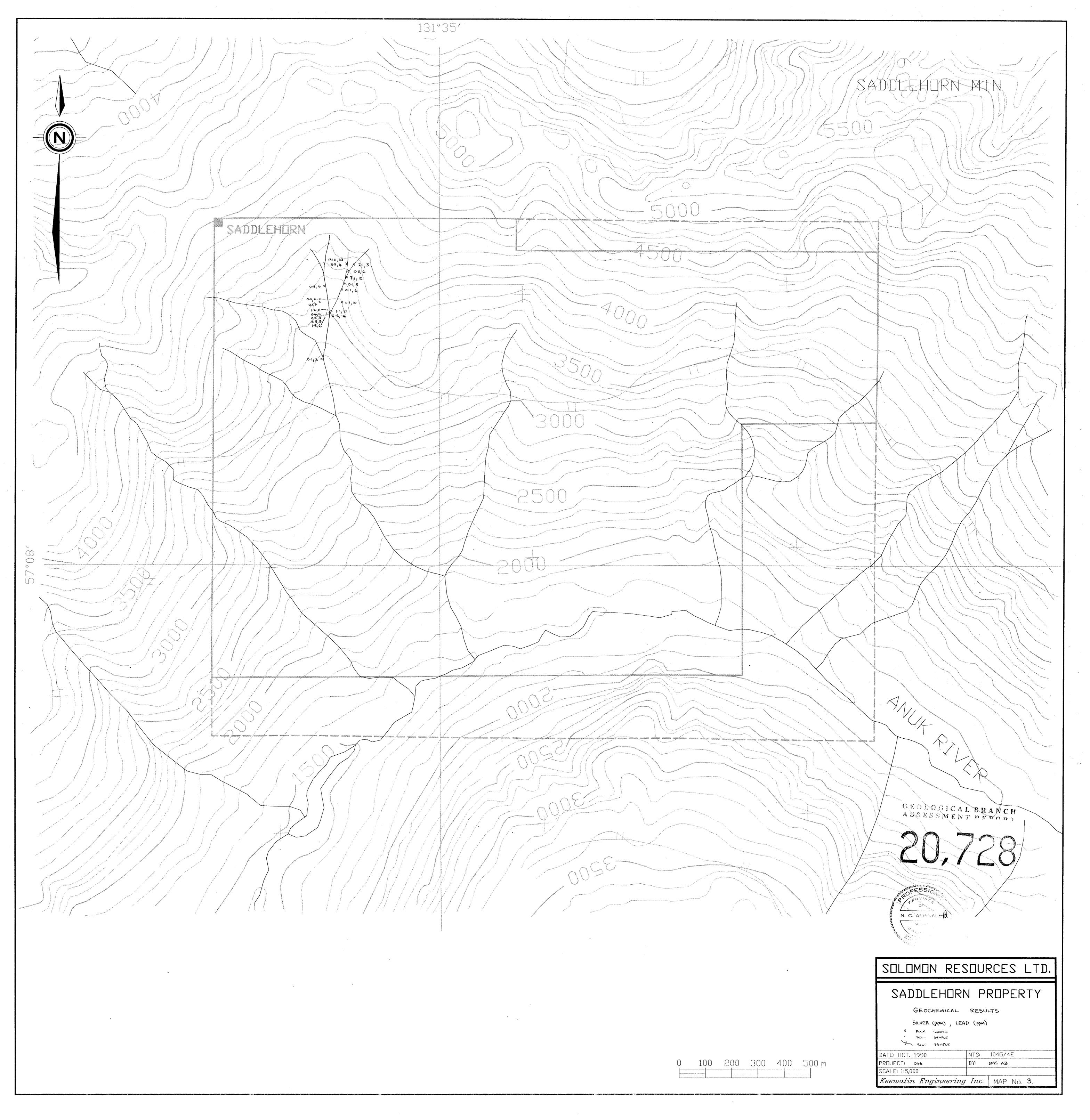
SADDLEHORN

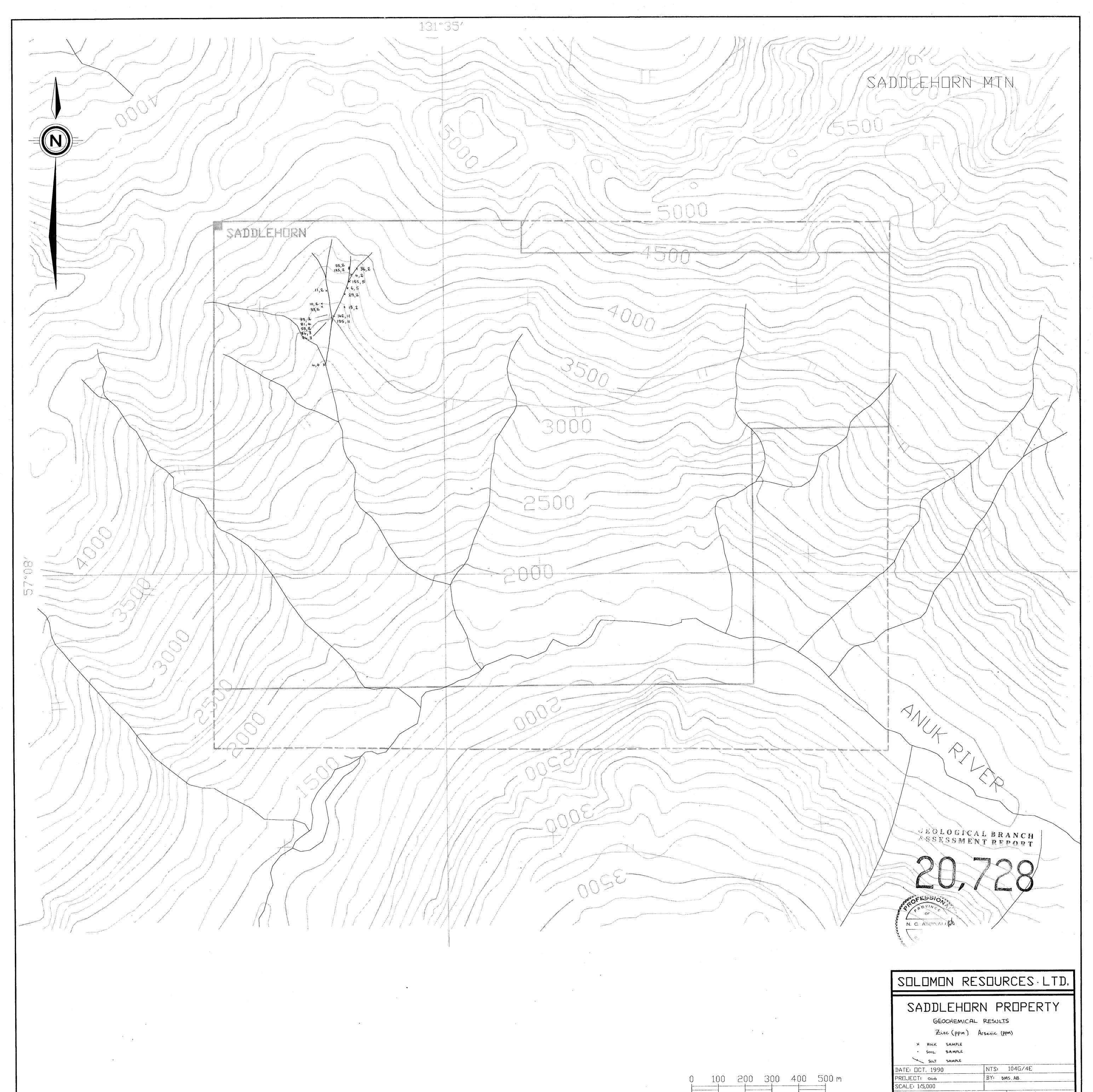
Project: \_\_\_\_

		REP.	SAN	IPLE	TYPE	(LEN	GTH)	-		
SAMPLE NUMBER	LOCATION NOTES	SAMPLE	1	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90 340 GR -001							$\overline{\mathbf{A}}$	Greenstone	Ryritised shear zone material	
-002				1				Greenstone	Rynhied shear zone Nicky white, tr. py, MO2 stained Malachite stained, epidote alt.	
-003			1	1			1	Ot vein	Milky white, tr. Dy, Mr. Og stained	<u> </u>
-004			Γ	Γ		T	1	Greanstone	Malachite stained, epidate alt.	
-005	NOT TAKEN									Ļ
000 -							$\mathbf{\nabla}$	Ot vein	as 003	<u> </u>
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									wardy py	
									·	L
90 SHSK -001			$\checkmark$					at ven	Jarositic pyritic silicous	
-007				$\overline{\mathbf{A}}$				gossan	jarositic, pyritic silicous	<u>-</u> .
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