



ASSESSMENT REPORT  
GEOLOGICAL MAPPING  
GEOCHEMICAL SAMPLING  
AND MAGNETOMETER SURVEY  
CHIEFTAIN HILL AREA

091391

CHIEF 1-71 (YA 74384 - YA 74454)  
WHITEHORSE MINING DISTRICT  
NTS 105 D/3 WEST



LATITUDE: 60°11'  
LONGITUDE: 135°24'

APRIL 1st, 1982 TO SEPTEMBER 1st, 1982

By: R.A. Doherty  
R. Tykajlo

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## 1. INTRODUCTION

### 1.1 General

The Chieftain Hill property staked by Agip Canada Ltd. in November 1981, consists of the CHIEF 1-71 claims which cover an area of 14.84 km<sup>2</sup> in the Wheaton River district of southwestern Yukon. The CHIEF claims were added onto the east side of the KUKU 1-331 claims staked in the early summer of 1981.

### 1.2 Location and Access

Chieftain Hill is located in southwestern Yukon at 60°11' north latitude and 135°24' west longitude, on NTS map sheet 105 D/3 west (Figure 1).

Whitehorse is 60 km southeast of Chieftain Hill, the property is accessible by road from Whitehorse to Annie Lake and then following four-wheel drive roads along the Wheaton River. The distance by road from Whitehorse to Chieftain Hill is 92 km.

The CHIEF claims are bound on the north by Butte Creek, on the south by Skukum Creek and extend from a deep erosional cut trending north-south on the west side of the claim block to the base of talus slopes on the east side of Chieftain Hill.

### 1.3 Physiography and Vegetation

The Chieftain Hill area ranges in elevation from 1000 m to 1800 m and consists of rounded alpine terrain with steep gully and cliff topography on the east and south sides of Chieftain Hill.

Vegetation in the area is sparse, due to a fairly dry climate. The lower valleys are forest covered with white spruce and lodgepole pine. Above 1400 meters the terrain is typically alpine with stunted willows, dwarf birch, sedges, grasses and alpine flowers.

LOCATION MAP

YUKON

PROJECT No.

SCALE: 1:5,000,000

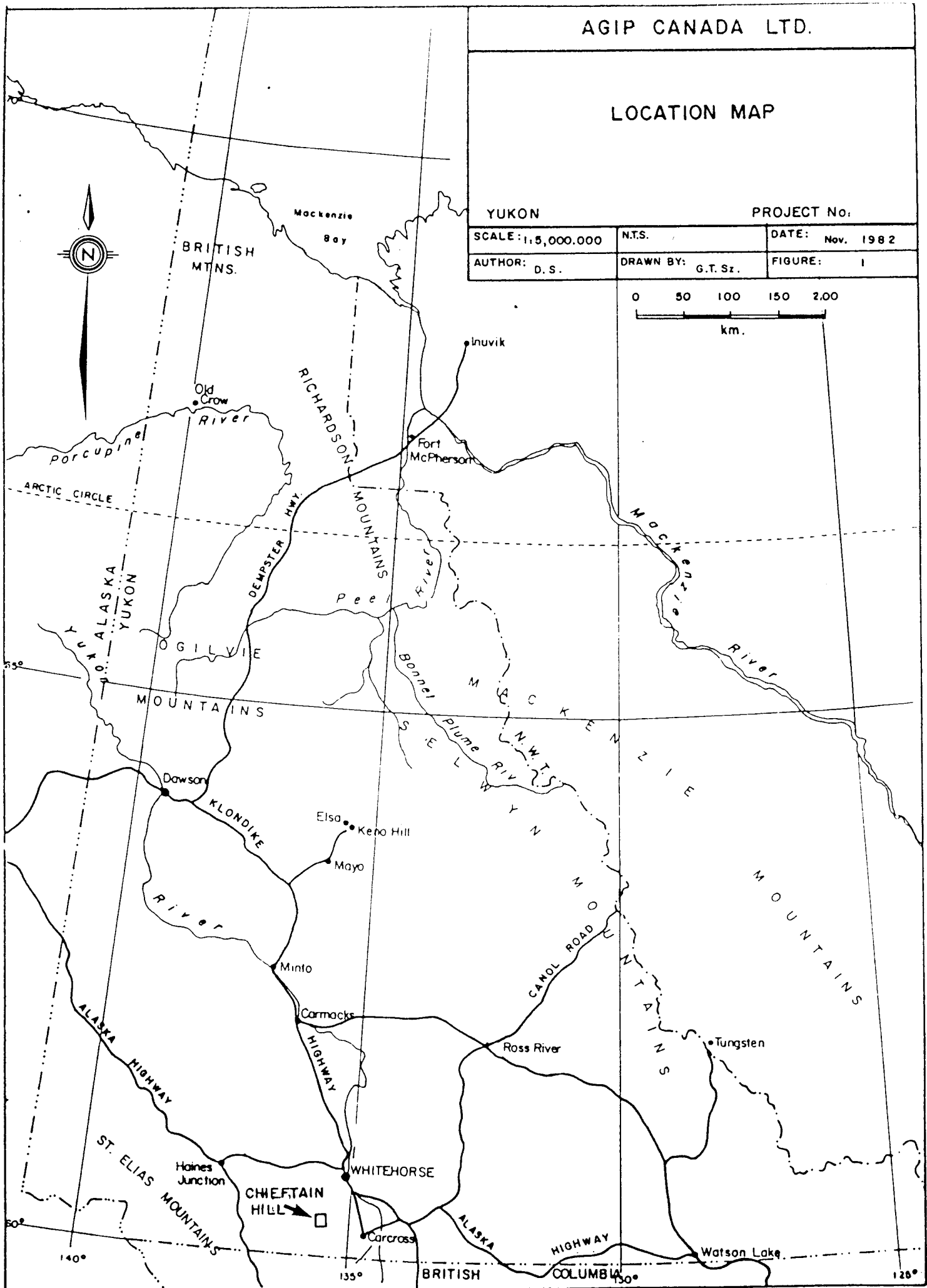
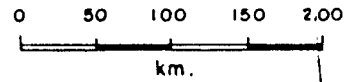
N.T.S.

DATE: Nov. 1982

AUTHOR: D. S.

DRAWN BY: G.T. Sz.

FIGURE: 1



## 2. GEOLOGY

### 2.1 General Geology

The Chieftain Hill area lies on the eastern side of the Mount Skukum volcanic complex which consists of a 10 km wide circular volcanic edifice of Tertiary (Eocene) intermediate to felsic subarial volcanic rocks. The Skukum group volcanics are considered to be part of the Mount Nansen group which range in age from 50 to 70 m.a. and outcrop along the boundary of the Coast Crystalline Complex and the Intermontane belt in the Yukon.

The Skukum volcanics consist of a lower cycle of intermediate to andesitic flows, tuffs, lahars and breccias and an upper cycle of predominantly felsic flows and welded ash flow tuffs. Late felsic domes and quartz latite dykes cut both cycle I and cycle II volcanics.

The Skukum volcanics unconformably overlie a basement consisting of metamorphosed late Precambrian marbles and schists (Yukon Metamorphic Complex) intruded by monzonitic to granitic rocks of the Coast Crystalline Complex. The Skukum Group on the east side of Chieftain Hill is in fault contact with these basement lithologies.

Apart from cliffs on the east and south side of Chieftain Hill, outcrops are relatively sparse and much of the area is covered with soil and poorly exposed felsenmeer.

### 2.2 Volcanic Stratigraphy

Most of Chieftain Hill is underlain by felsic lapilli tuff, welded tuff, and spherulitic rhyolite which comprise the upper volcanic cycle of the Skukum Group. These units are capped by prophyritic hornblende andesites. A suite of coarsely porphyritic hornblende andesites outcrop on the east side of Chieftain Hill and may represent an earlier volcanic event.

Cretaceous granite to monzonites are poorly exposed in the southeast shoulder of Chieftain Hill.

A prominent north trending quartz latite dyke crosscuts the volcanic stratigraphy on the east side of Chieftain Hill and possibly marks a ring fracture zone. Distributed about this dyke are a number of small zones of shattered and brecciated granites and volcanics invaded by ignimbrite dykes which are interpreted as small volcanic vents.

Commonly volcanic dyke breccias are observed crosscutting other volcanic units and acting as feeder dykes for pyroclastic blankets of limited lenslike distribution.

On the eastern side of Chieftain Hill, downslope from the quartz latite dyke a number of outcrops of heterolithic conglomerate occur. Cobbles within this unit consist of schist, granite and metamorphic vein quartz. The age relation of this unit is not presently understood, however, it appears to be localized along a prominent fault scarp.

### 2.3 Structure and Alteration

Volcanic units on Chieftain Hill dip very gently west and are displaced by numerous small east-west and north-south trending faults. On the east side of Chieftain Hill the volcanics are in fault contact with the basement lithologies.

Volcanic rocks on the south and east side of Chieftain Hill commonly weather a deep ochre red color. These gossans or alteration zones are caused by up to 1% finely disseminated pyrite in andesites and felsic volcanics.

### 3. SUMMARY OF PREVIOUS WORK

Mineralization in Chieftain Hill was first discovered in 1893; the earliest recorded claims are the Morning and Evening claims, staked over a quartz-stibnite vein in a steep gully on the east side of Chieftain Hill, the vein contains massive stibnite over a 30 cm width but cannot be traced for any length.

Yukon Antimony Corporation carried out exploration for porphyry copper in 1967 and 1968, work was mainly in the south side of Chieftain Hill and included mapping, chip sampling, surveying grids, an I.P. survey and diamond drilling (Assessment Reports Skukum Creek Copper Deposit, by A.P. Fauly, 1967, 1968).

Reconnaissance soil sampling carried out by Agip Canada in 1981 indicated anomalous gold values and a block of claims, CHIEF 1-71, were staked to cover these anomalies (Figure 2).

### 4. 1982 WORK PROGRAM

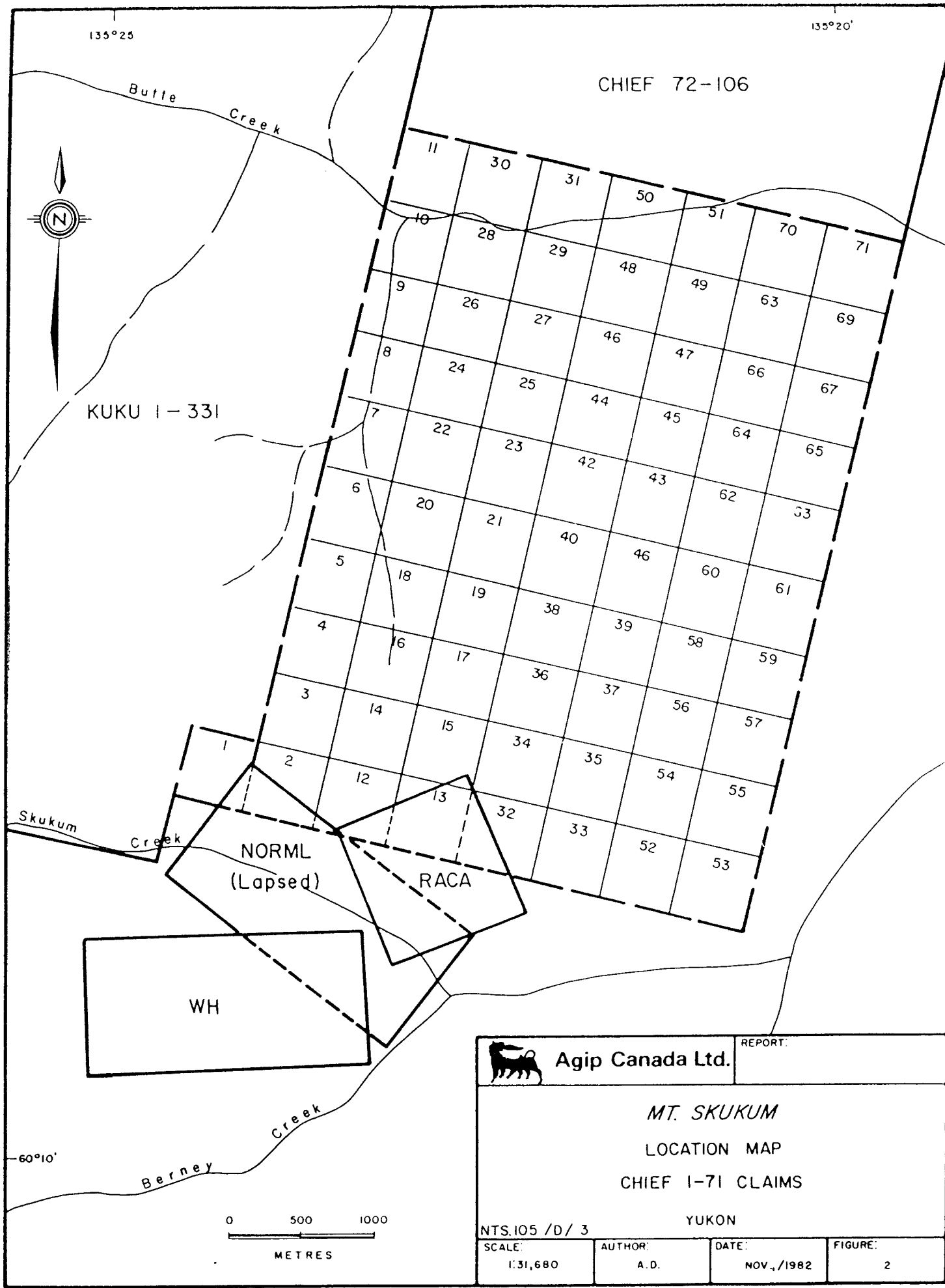
#### 4.1 Introduction

Work by Agip Canada crews in 1982 consisted of mapping, chip sampling and soil sampling, surveying a 200 x 300 m grid for soil sampling and a magnetometer survey.

In total 40 man/days were expended working on the CHIEF 1-71 claims.

An orthophoto mosaic with superposed topographic contours at 20 m intervals was produced by Pacific Surveys Corporation of Vancouver in April 1982. The orthophotos at 1:10,000 scale covers all of the KUKU and CHIEF claims. The contoured orthophoto was used as a base for geological mapping (Figure 3). Complete copies of the contoured orthophoto mosaic included with the KUKU 1-48 and KUKU 49-331 Assessment Report, 1981.

Color airphotographs at 1:20,000 scale were flown over the same area in August 1982, by McElhanney Surveying and Engineering of Vancouver.



#### 4.2 Geological Mapping

A geological map at 1:10,000 scale (Figure 3) was compiled from foot traverses over exposed outcrops. The outcrops are confined to cliffs on the south, east and north sides of Chieftain Hill. Geology underlying drift and soil covered areas was inferred from float and by projecting stratigraphic units using stratum-contour methods. Fault traces are inferred from geology and airphoto interpretation.

#### 4.3 Soil and Rock Geochemistry

Eighty-one soil samples were collected in 1982, predominantly on traverse lines on the steep east and south tracing slopes. Ten rock chip samples were also collected in this area, over altered and/or veined volcanic rocks. Results of soil and chip samples are shown in Figures 4 and 5 respectively.

The maximum values for soil samples range to 700 ppb Au on the southeast shoulder of Chieftain Hill, other samples on the east facing slopes returned a number of analyses of 200-500 ppb Au. Soil samples from traverses on the west side of the claim block returned only background values.

Only limited chip sampling was undertaken on the east side of Chieftain Hill and the highest values (1130, 690 and 445 ppb Au) were across a quartz-stibnite vein on the old Morning and Evening claims.

Some of the anomalous gold values will require additional sampling with mapping to determine the extent and significance of anomalous zones.

#### 4.4 Hawk Zone Soil Grid

Figure 6 shows the results from soil sampling on the Hawk Grid. The grid is 300 x 200 meters and was located over high soil anomalies located during 1981 reconnaissance sampling. Results of the 1982 soil samples did not reproduce the anomalies. The

highest values returned were 125 and 165 ppb Au, other samples returned only background values ranging from <5 ppb Au to 20 ppb Au. An additional 20 samples were collected and analysed at three separate laboratories. Results of these duplicate samples are listed in Table 1, Appendix A.

## 5. MAGNETIC SURVEY

### 5.1 Introduction

A total field magnetic survey was completed in an attempt to map geology and structure beneath talus cover over the grid area (Hawk Zone).

### 5.2 Survey Specifications

A total of 6.25 line km were surveyed at 12.5 m centers by Agip personnel on July 12, 1982.

Data was collected with EDA PPM series 350 and 400 magnetometer and base station recorder respectively. Diurnal drift corrections were completed automatically (a feature of the instrumentation) and maintained to within 2 gamma accuracy.

### 5.3 Results

The area is characterized by relatively low magnetic relief on which several high amplitude, short wavelength, circular anomalies occur (Figure 7). Magnetic strike is generally in a NE/SW direction with several discontinuities occurring in a NW/SE direction.

#### 5.4 Interpretation

The high amplitude, short wavelength circular features are suggestive of small pipe-like bodies (of basic composition) intrusive into a more magnetically homogenous country rock.

The weakly inferred NE/SW magnetic strike probably indicates the intersection of flat lying units with the topographic surface. Linear discontinuities are suggestive of a regular NW/SE faulting pattern.

APPENDIX A  
CLAIM NAMES AND GRANT NUMBERS

CHIEF 1	YA 74384	CHIEF 36	YA 74419
CHIEF 2	YA 74385	CHIEF 37	YA 74420
CHIEF 3	YA 74386	CHIEF 38	YA 74421
CHIEF 4	YA 74387	CHIEF 39	YA 74422
CHIEF 5	YA 74388	CHIEF 40	YA 74423
CHIEF 6	YA 74389	CHIEF 41	YA 74424
CHIEF 7	YA 74390	CHIEF 42	YA 74425
CHIEF 8	YA 74391	CHIEF 43	YA 74426
CHIEF 9	YA 74392	CHIEF 44	YA 74427
CHIEF 10	YA 74393	CHIEF 45	YA 74428
CHIEF 11	YA 74394	CHIEF 46	YA 74429
CHIEF 12	YA 74395	CHIEF 47	YA 74430
CHIEF 13	YA 74396	CHIEF 48	YA 74431
CHIEF 14	YA 74397	CHIEF 49	YA 74432
CHIEF 15	YA 74398	CHIEF 50	YA 74433
CHIEF 16	YA 74399	CHIEF 51	YA 74434
CHIEF 17	YA 74400	CHIEF 52	YA 74435
CHIEF 18	YA 74401	CHIEF 53	YA 74436
CHIEF 19	YA 74402	CHIEF 54	YA 74437
CHIEF 20	YA 74403	CHIEF 55	YA 74438
CHIEF 21	YA 74404	CHIEF 56	YA 74439
CHIEF 22	YA 74405	CHIEF 57	YA 74440
CHIEF 23	YA 74406	CHIEF 58	YA 74441
CHIEF 24	YA 74407	CHIEF 59	YA 74442
CHIEF 25	YA 74408	CHIEF 60	YA 74443
CHIEF 26	YA 74409	CHIEF 61	YA 74444
CHIEF 27	YA 74410	CHIEF 62	YA 74445
CHIEF 28	YA 74411	CHIEF 63	YA 74446
CHIEF 29	YA 74412	CHIEF 64	YA 74447
CHIEF 30	YA 74413	CHIEF 65	YA 74448
CHIEF 31	YA 74414	CHIEF 66	YA 74449
CHIEF 32	YA 74415	CHIEF 67	YA 74450
CHIEF 33	YA 74416	CHIEF 68	YA 74451
CHIEF 34	YA 74417	CHIEF 69	YA 74452
CHIEF 35	YA 74418	CHIEF 70	YA 74453
		CHIEF 71	YA 74454

APPENDIX B  
SAMPLING AND ANALYTICAL METHODS

Soil and Talus Fine Samples

Soil samples were collected on soil grids and talus fine samples below cliffs and outcrops showing evidence of veining or alteration. Soil grid samples were collected at 25 m intervals; talus fine samples were collected on contour lines at 20-50 m horizontal spacing.

Samples were collected using small collapsible shovels at depths between 15-30 cm in the B horizon; in many areas, soil profiles are poorly developed. Frequently in talus slopes this proved impractical due to the very coarse blocky nature of the material, although generally sufficient fine material could be collected near the top of the talus slope. Where possible, the samples were field-screened through a 10 mesh stainless steel sieve. Field notes on color, size fraction and organic content were taken.

Chip Sampling

Chip samples were collected using a small sledge hammer and moil into sample bags held by a sampling ring. Samples were collected in narrow 5-10 cm swaths as continuous chips across the strike of lithological units or veins. All samples were terminated at prominent lithological contacts. Lengths of samples ranged from 1-5 meters.

Analytical Methods (as detailed by Bondar-Clegg, Whitehorse)

Samples collected were analysed for gold and silver. Analyses were done by Bondar-Clegg Laboratories in Whitehorse and/or Vancouver.

Soil samples are dried and sieved to -80 mesh. Rock chip samples are pulverized and a split of the -100 mesh fraction is analysed.

Gold analyses are by fire assay techniques, a 10 g sample is mixed with flux and heated in the fire assay furnace. The molten mixture is then poured and the lead button containing the metals is separated from the slag. The button is then placed in a cupel and heated so that the lead is removed and the noble metals remain behind as a small bead.

The bead is transferred to a test tube and treated with nitric acid followed by aqua regia to dissolve it completely. The solution is then analysed for gold by atomic absorption using standards with a similar matrix.

Silver is analysed using a hot nitric acid digestion. A sample weighing 0.5 gm is placed in a test tube and 1.5 ml  $\text{HNO}_3$  is added and the sample is heated in a hot water bath for one-half hour. Then 0.5 ml of HCL are added and the sample is heated for 1 1/2 hours further. The sample is then diluted with 10 ml water and allowed to settle. The sample is then analysed by atomic absorption using standards.

TABLE 1  
HAWK GRID SOIL SAMPLES

SAMPLE NUMBER	(1) <u>CHEMEX LABS</u>		(2) <u>MIN-EN LABS</u>		SAMPLE NUMBER	(3) <u>ACME LABS</u>
	Au (ppb)	Ag (ppm)	Au (ppb)	Ag (ppm)		Au (ppb)
1234772	34	<0.1	5	0.9	1234739	5
1234773	<5	<0.1	5	1.0	1234740	5
1234775	7	<0.1	5	1.2	1234741	5
1234776	7	<0.1	5	0.9	1234746	5
1234777	12	<0.1	5	1.1	1234747	5
1234794	5	<0.1	5	1.2	1234748	5
1234795	7	<0.1	5	1.1	1234761	5
1234796	12	<0.1	<5	1.0	1234762	5
1234801	5	<0.1	5	0.9	1234763	10
1234802	5	<0.1	5	1.2	1234768	5
1234803	12	<0.1	<5	1.1	1234768	5
1234814	5	<0.1	<5	1.2	1234769	5
1234816	7	<0.1	<5	1.1	1234770	5
1234818	41	<0.1	5	1.2	1234783	20
1234823	5	<0.1	5	1.1	1234784	5
1234824	7	<0.1	5	0.9	1234785	5
1234825	9	<0.1	5	1.0	1234790	5
1234838	14	<0.1	10	1.1	1234791	5
1234839	7	<0.1	5	0.9	1234792	5

(1) Chemex Labs: Gold fire assay and AA finish  
Silver Hot nitric digestion

(2) Min-En Labs: Hot aqua regia digestion,  
AA finish

(3) Acme Labs: Gold fire assay and AA finish

APPENDIX C  
STATEMENT OF COSTS

Surface Work CHIEF 1-71, Dec. 1981 to Sept. 1982

a) Preparation of contoured orthophoto map (1:10,000 scale) by Pacific Survey Corporation, Vancouver.

Total cost \$9,500 the area covered is 148 km<sup>2</sup> and includes all of KUKU 1-331 and CHIEF 1-71 claims, prorated by claims is  $9500/402 = \$23.50$  per claim.

CHIEF 1-71	71 x \$23.50	<u>\$1,668.50</u>
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b) Color Airphoto - 1:20,000 scale over KUKU 1-331 and CHIEF 1-102, flown on August 13, 1982 by McElhanney Surveying and Engineering.

Total Cost (including 3 hours helicopter time to set out grid targets) \$500.00

CHIEF 1-71	71 x \$11.5	<u>\$ 816.50</u>
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Labour Costs

J.A. Climie, 1 day @ \$200/day (Exploration Manager)	\$ 200.00
R. Robertson, 1 day @ \$170/day (Senior Geologist)	170.00
A. Doherty, 2.5 days @ \$115/day (Project Geologist)	287.00
D. McLaughlin, 9 days @ \$120/day (Project Geologist)	1,080.00
R. Arthur, 3 days @ \$99/day (Senior Assistant)	297.00
K. Bertrand, 5 days @ \$88/day (Senior Assistant)	440.00
M. Balog, 1 day @ \$88/day (Senior Assistant)	88.00
K. Coswan, 1 day @ \$110/day (Surveyor)	110.00
F. Ferri, 1 day @ \$88/day (Senior Assistant)	88.00
C. Malboeuf, 8 days @ \$80/day (Intermediate Assistant)	640.00
B. Scott, 1 day @ \$60/day (Intermediate Assistant)	60.00
J. Morris, 2 days @ \$60/day (Junior Assistant)	120.00
R. Farrar, 4 days @ \$60/day (Junior Assistant)	<u>240.00</u>
Total Labour Costs	\$3,820.00

### Analytical Costs

#### Soil Sampling, Hawk Grid

132 samples analysed for gold-silver by Bondar-Clegg @ \$8.60=	\$1,135.20
20 samples re-analysed for gold-silver by Chemex Labs @ \$8.70=	174.00
gold-silver by Min-En Labs @ \$7.85=	157.00
gold by Acme Labs @ \$4.25	= 85.00
(see Table 1, Appendix A for results)	
Talus fine and soil samples, CHIEF 1-71 - 81 @ \$8.60	= 696.60
Rock Chip samples, CHIEF 1-71 - 10 @ \$10.65	= <u>106.50</u>
Total Analytical Costs	\$2,354.30

### Helicopter Costs

June 6th to August 23rd, 1982, Hughes 500 D helicopter on contract from Canwest Aviation, at \$505/hour includes fuel

19 days worked in Chieftain Hill @ 0.4/hr/day

$$0.5 \times 505 \times 19 = \$3,838.00$$

### Camp and Field Costs

1. Food costs estimated at \$20/man-day	
CHIEF 1-71, 40 man-days x \$20	\$ 800.00
2. Field supplies estimated at \$10/man-day	
40 man-days x \$10	400.00
3. Cooks wages estimated 15% of daily rate for 18 days	
Daily rate #120 x 0.15 x 18	<u>324.00</u>
Total Field Costs	\$1,524.00

### Geophysical Survey

2 man-days at \$200 per day	\$ 400.00
2 instrument days at \$1500 per month	100.00
Drafting	<u>50.00</u>
Total Survey Costs	\$ 550.00

Report Preparation and Drafting

A. Doherty, 2 days at \$115	\$ 230.00
Drafting costs	<u>200.00</u>
Total	430.00

Total Costs

Orthophoto Map	\$ 1,668.50
Color Air Photo	816.50
Labour	3,830.00
Analytical Costs	2,354.30
Helicopter Costs	3,838.00
Camp and Field Costs	1,524.00
Geophysical Survey	550.00
Report Preparation	<u>430.00</u>
TOTAL	15,001.30

APPENDIX D  
STATEMENT OF QUALIFICATIONS

I, RICHARD ALLAN DOHERTY, of the city of Calgary in the Province of Alberta, hereby certify: —

That I am a geologist employed by Agip Canada Ltd. and that I caused to be performed the work described in this report.

That I obtained a Bachelor of Science degree with Honours in Geology from the University of New Brunswick at Fredericton in 1977 and carried out graduate studies at Memorial University, St. John's Newfoundland.

That I have been engaged in mineral exploration on a full-time and part-time basis for nine years of which five have been on mineral exploration programs in the Yukon Territory, Northwest Territories and British Columbia.

That I am a member of Calgary Mineral Exploration Group and of the Canadian Insitutute of Mining and Metallurgy.

Signed at Calgary, in the Province of Alberta, this 23rd day of November, A.D., 1982.

  
R. Allan Doherty

APPENDIX D  
STATEMENT OF QUALIFICATIONS

I, ROMAN TYKAJLO, of the city of Calgary in the Province of Alberta, hereby certify:

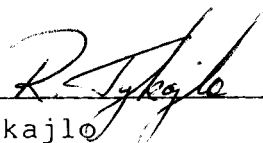
That I am a geophysicist employed by Agip Canada Ltd. and that I caused to be performed the work described in this report.

That I obtained a Bachelor of Science degree with Honours in Geology/Physics from Lakehead University of Thunder Bay in 1978.

That I have been engaged in mineral exploration on a full-time and part-time basis for five years.

That I am a member of the Society of Exploration Geophysicists and of the Canadian Institute of Mining and Metallurgy.

Signed at Calgary, in the Province of Alberta, this 23rd day of November, A.D., 1982.

  
\_\_\_\_\_  
R. Tykajlo



Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	R. Allan Doherty	Occupation	Geologist
(Postal Address)	Suite 3000 350 - 7th Avenue S.W. Calgary, Alberta T2P 3N9		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

Chief 1 - 71 inclusive, Grant number YA74384 - YA74454 inclusive  
(See attached list)

situated at Chieftain Hill Claim Sheet No. 105/D/3  
 in the Whitehorse Mining District, to the value of at least \$14,200  
 dollars, since the 25th day of November 19 81

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_  
 (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

Chief 1 - 71 inclusive, Grant number YA74384 - YA74454 inclusive  
 Each claim renewed from November 25, 1982 to November 25, 1984  
 (See attached list)

- The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

Geological mapping, rock and soil geochemical sampling, grid surveying, magnetometer survey; orthophotomosaic and colour air photography April 1st to September 1, 1982

09139

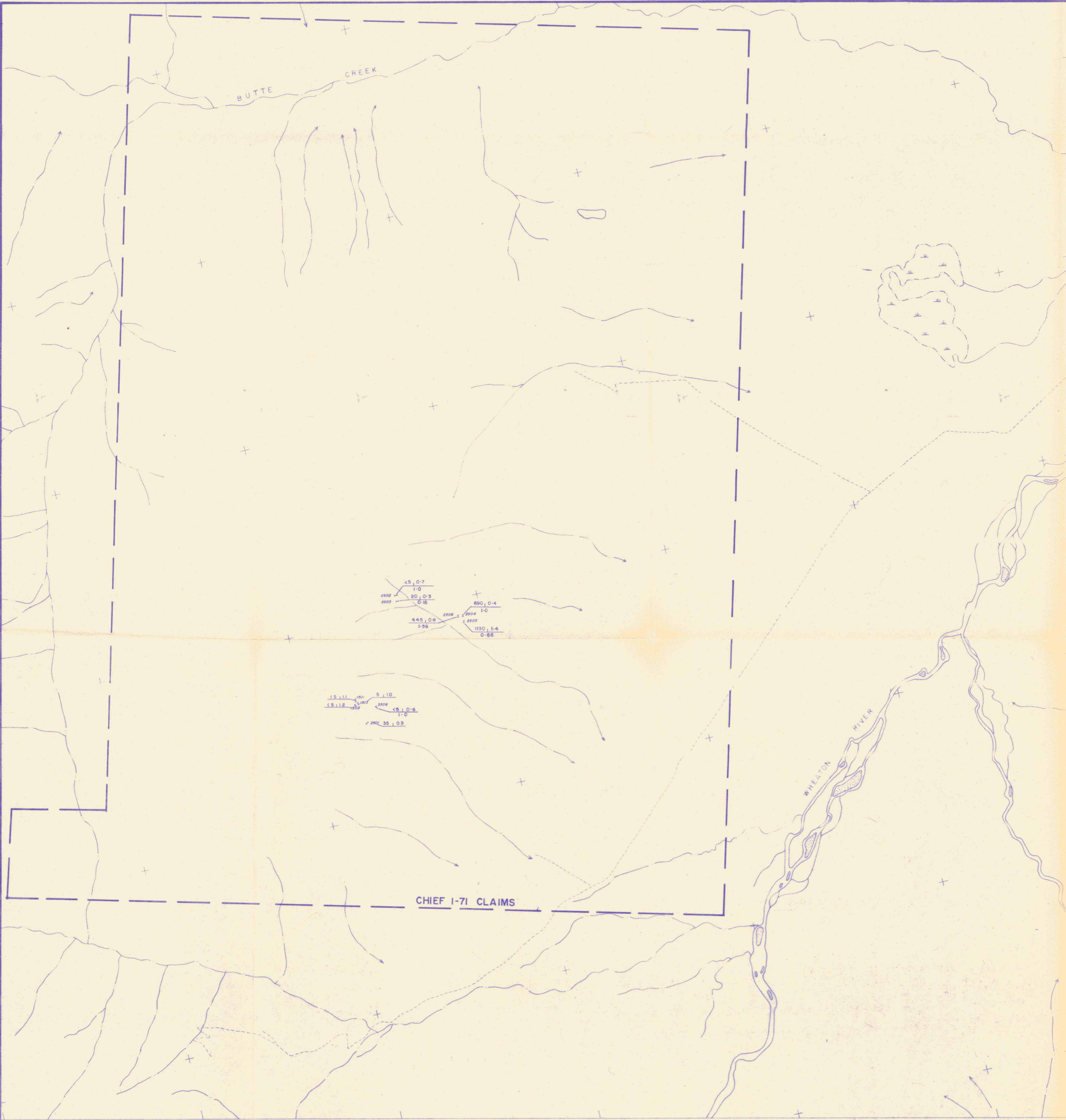
Sworn before me at \_\_\_\_\_  
 this 26 day of November 19 82

A Notary Public for  
 the Province of Alberta  
 Solicitor

DALLAS L. DROTT

Applicant.





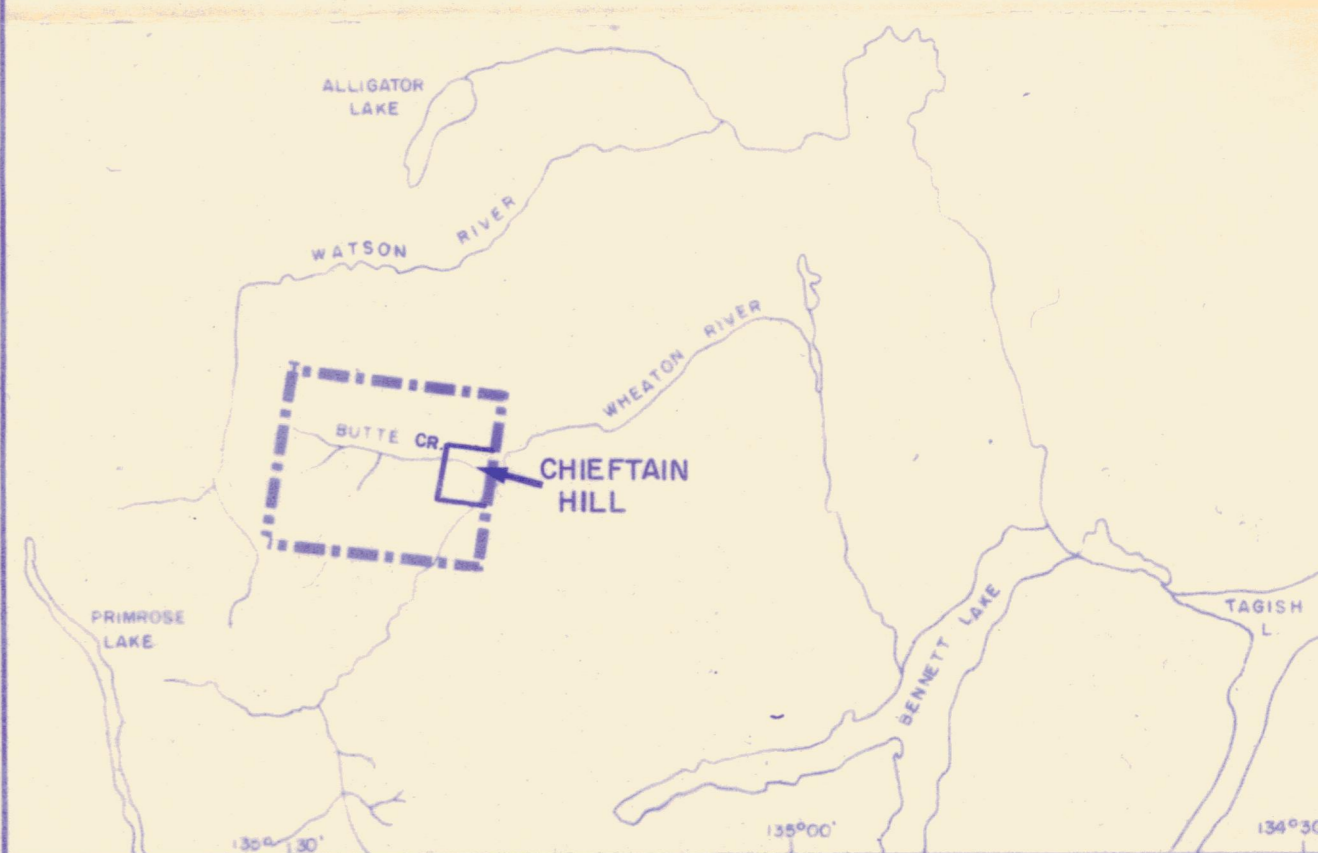
**LEGEND**

Chip Sample Location and Number

290# Au (ppb) Ag (ppm)  
meter

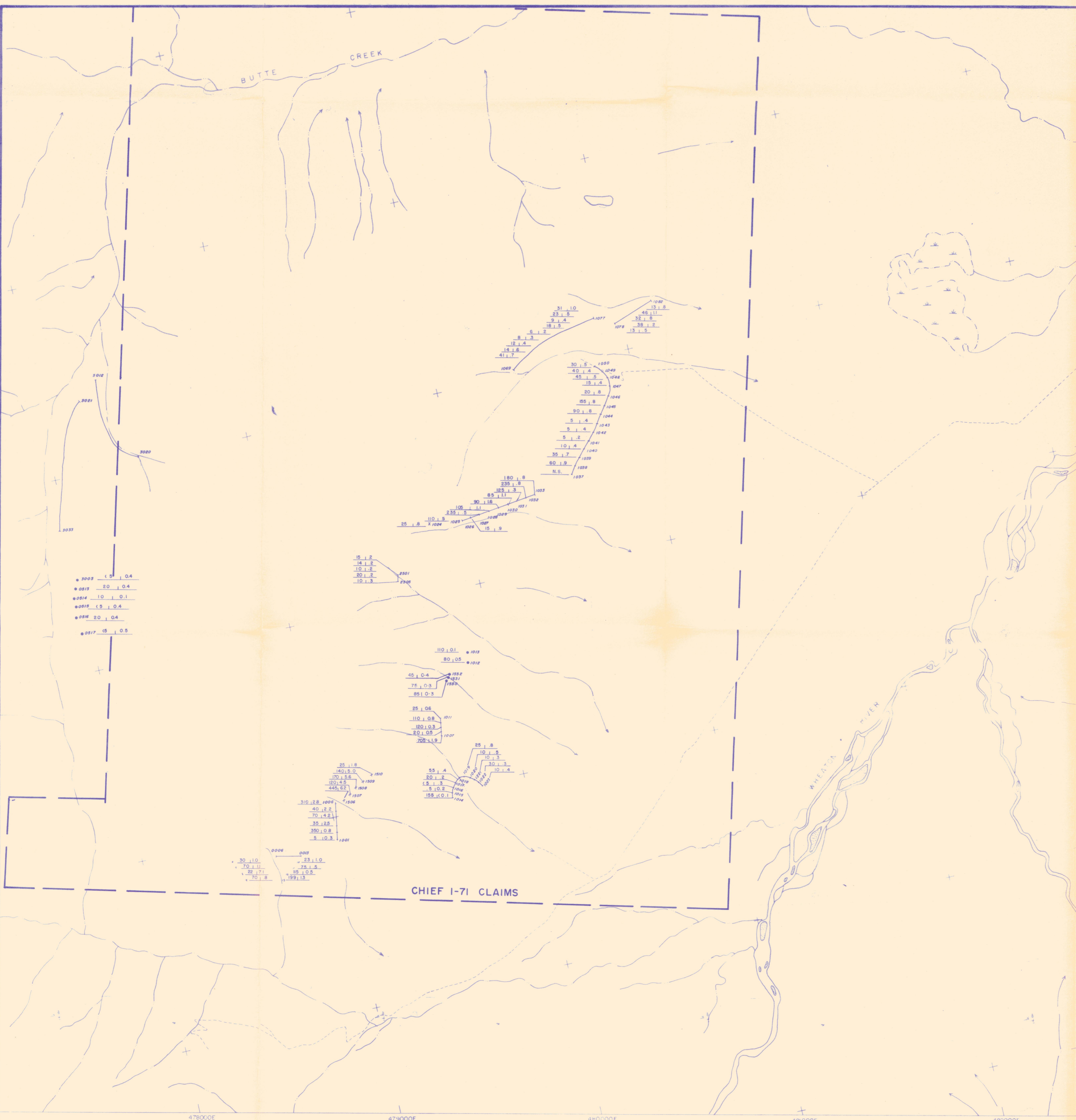
**LOCATION MAP**

420 500 0 1 2 3 4 5  
KM



0 100 200 300 400 500 meters

<p><b>CHIEFTAIN HILL AREA CHIP SAMPLES</b></p>		PROJECT NO	400630
		SURVEYED BY	ORTHOPHOTO
<p>SCALE 1:10,000 PROJECT</p>	<p><b>MT. SKUKUM</b> YUKON</p>		<p>DRAWN BY</p> <p>G.T.Sz.</p>
	<p>091391</p>		<p>DATE</p> <p>1982</p>
<p><b>AGIP CANADA LTD.</b></p>		<p>APPROVED</p>	
		<p>FIGURE</p> <p>5</p>	

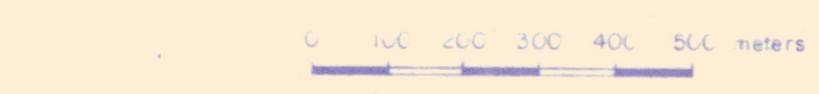
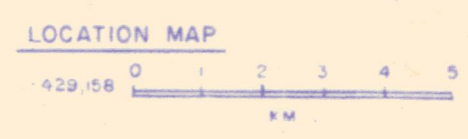


**LEGEND**

Soil Sample and Number  
 Au (ppb) Ag (ppm)

Contoured Soil Lines with Numbers  
 Au (ppb) Ag (ppm)

N.S. No Sample



<b>CHIEFTAIN HILL AREA</b>		PROJECT NO
<b>GOLD/SILVER/SOIL ANALYSES</b>		400630
SCALE 1:10,000		SURVEYED BY
PROJECT <b>MT. SKUKUM</b>		ORTHOPHOTO
YUKON <b>091201</b>		DRAWN BY
AGIP CANADA LTD.		G.T.S.
		DATE
		1982
		APPROVED
		FIGURE
		4



**LEGEND**

**QUARTERNARY**

8 Tillis and recent aluvium

**TERTIARY**

7 Rhyolite porphyry dykes

**Skukum Group**

6 Quartz latite dykes

5 Porphyritic andesite, andesite tuffs

4 Undifferentiated rhyolitic tuffs, welded tuff, lapilli tuff

**MEZOZOIC**

3 Heterolithic conglomerate

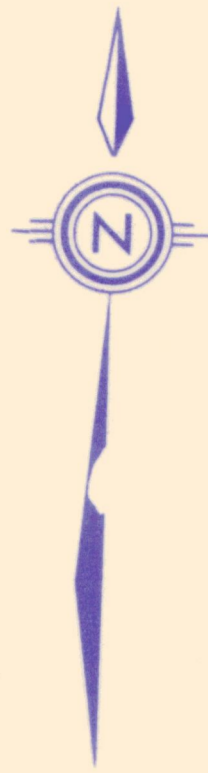
2 Hornblende andesite pophyry

1 Granitic to monzonite, includes large roof pendants of Yukon Group metamorphics

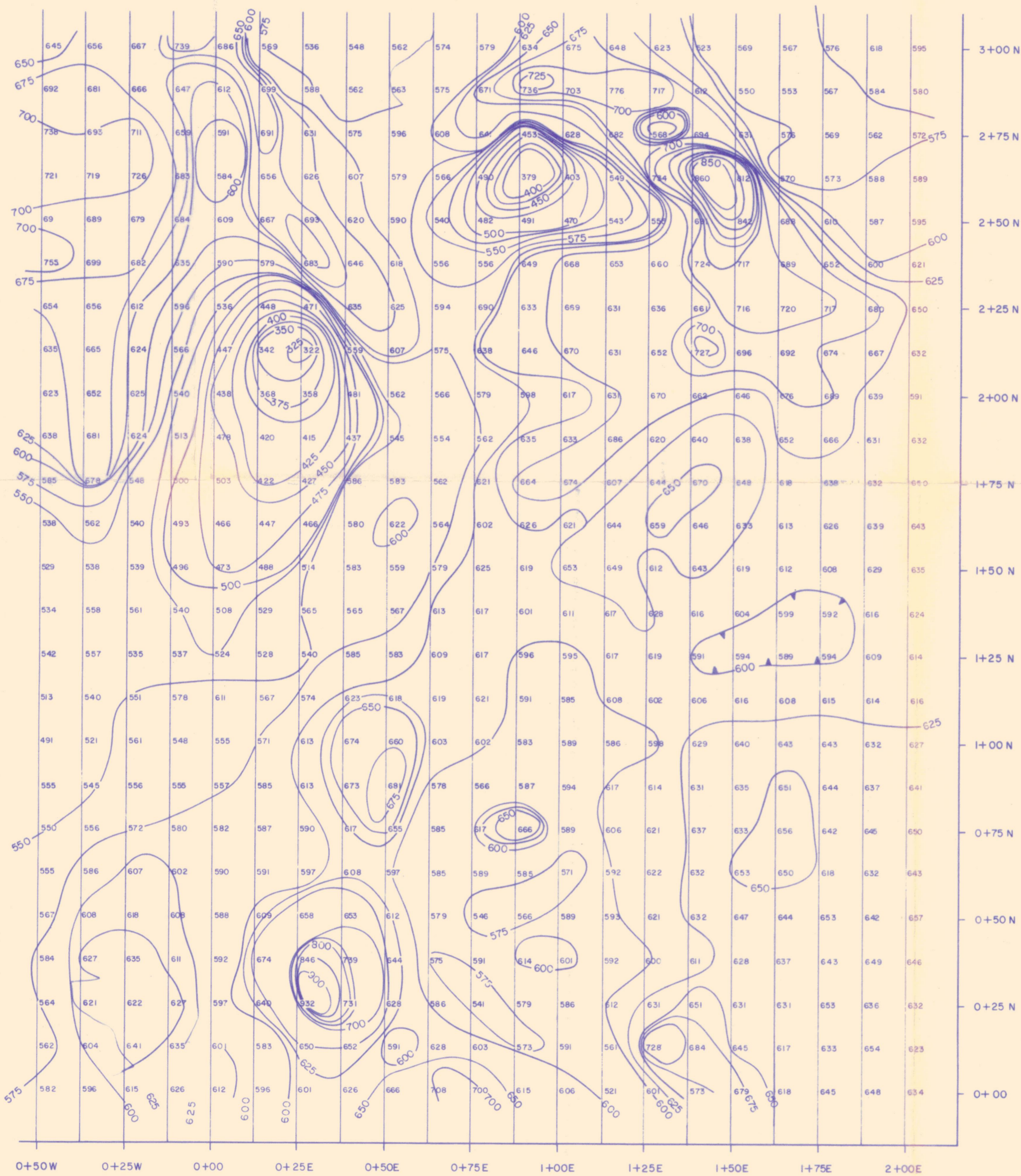
**SYMBOLS**

- Geological contact (defined, approximate, assumed)
- Outcrops
- ~~~~~ Fault (defined, approximate)

PRELIMINARY GEOLOGY <b>CHIEFTAIN HILL AREA</b>		PROJECT NO. 400 630
SCALE: 1:10,000 PROJECT: <b>MT. SKUKUM</b> YUKON <b>091391</b>		SURVEYED BY A.D.M. R.A.D.
<b>AGIP CANADA LTD.</b>		DRAWN BY J.B.
		DATE November/1982
		APPROVED
		FIGURE 3



UTM 478100 E  
6673600N



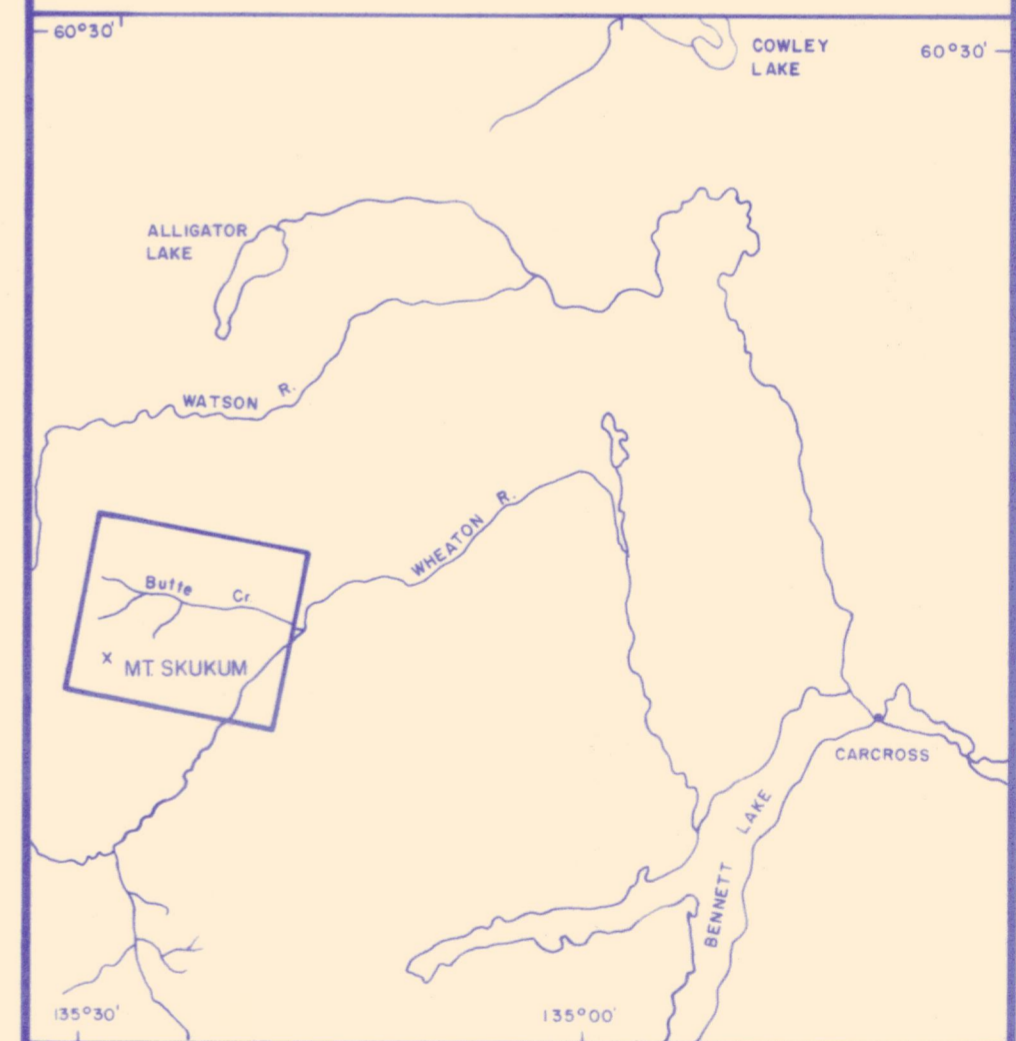
0+50W 0+25W 0+00 0+25E 0+50E 0+75E 1+00E 1+25E 1+50E 1+75E 2+00E

UTM 478100 E  
6673200N

LEGEND

- Grid
- Instrument : EDA ppm
- Contour Interval : 25 gamma
- Datum : 57,000 gammas

0 10 20 30 40 50  
METRES



CHIEFTAIN HILL, Hawk Grid  
MAGNETIC SURVEY  
(Total Field)

PROJECT:  
**MT. SKUKUM**  
091801  
YUKON

AGIP CANADA LTD.

PROJECT:  
APPROVED:  
NTS:  
DATE: JUNE, 1982  
DRAWN BY: J.B.  
SCALE: 1:1000  
FILE:  
FIGURE: 7