

MAP NO.

ASSESSMENT REPORT X

DOCUMENT NO.: 092087

PROSPECTUS

MINING DISTRICT: WHITEHORSE

CONFIDENTIAL X

TYPE OF WORK: Geochemical

105 D 3

OPEN FILE

REPORT FILED UNDER: Skukum Ventures Inc

DATE PERFORMED: July 28-29, 1987

DATE FILED: February 12, 1988

LOCATION: LAT.: 60°14'N

AREA: Wheaton River

LONG.: 135°05'W

VALUE \$: 2400.00

CLAIM NAME & NO.: BARR 1-16 YA96945-YA96960

WORK DONE BY: I. Coster

WORK DONE FOR: Skukum Ventures Inc

DATE TO GOOD STANDING | REMARKS: #234 FOX


GEOCHEMICAL REPORT  
ON THE  
BARR 1-16 MINERAL CLAIMS

(YA96945 - 960)

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

JULY 28, 29, 1987

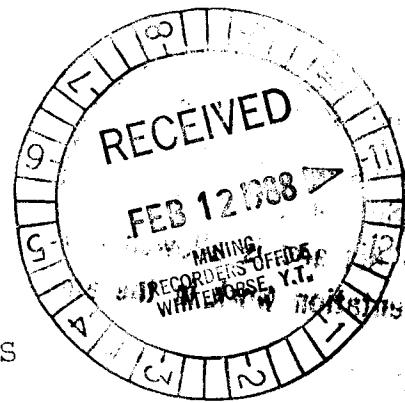
NTS 105 D-3

LAT. 60° 14' LONG. 135° 5'

BY

IAN COSTER B. SC. F.G.A.C.  
SKUKUM VENTURES INC.  
706 -595 HOWE STREET  
VANCOUVER, B.C.  
V6C 2T5

JANUARY 18, 1988



092087

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 2480.00.

*J. J. Bremner*

*for* Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

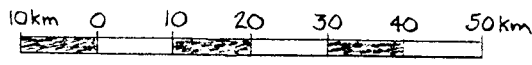
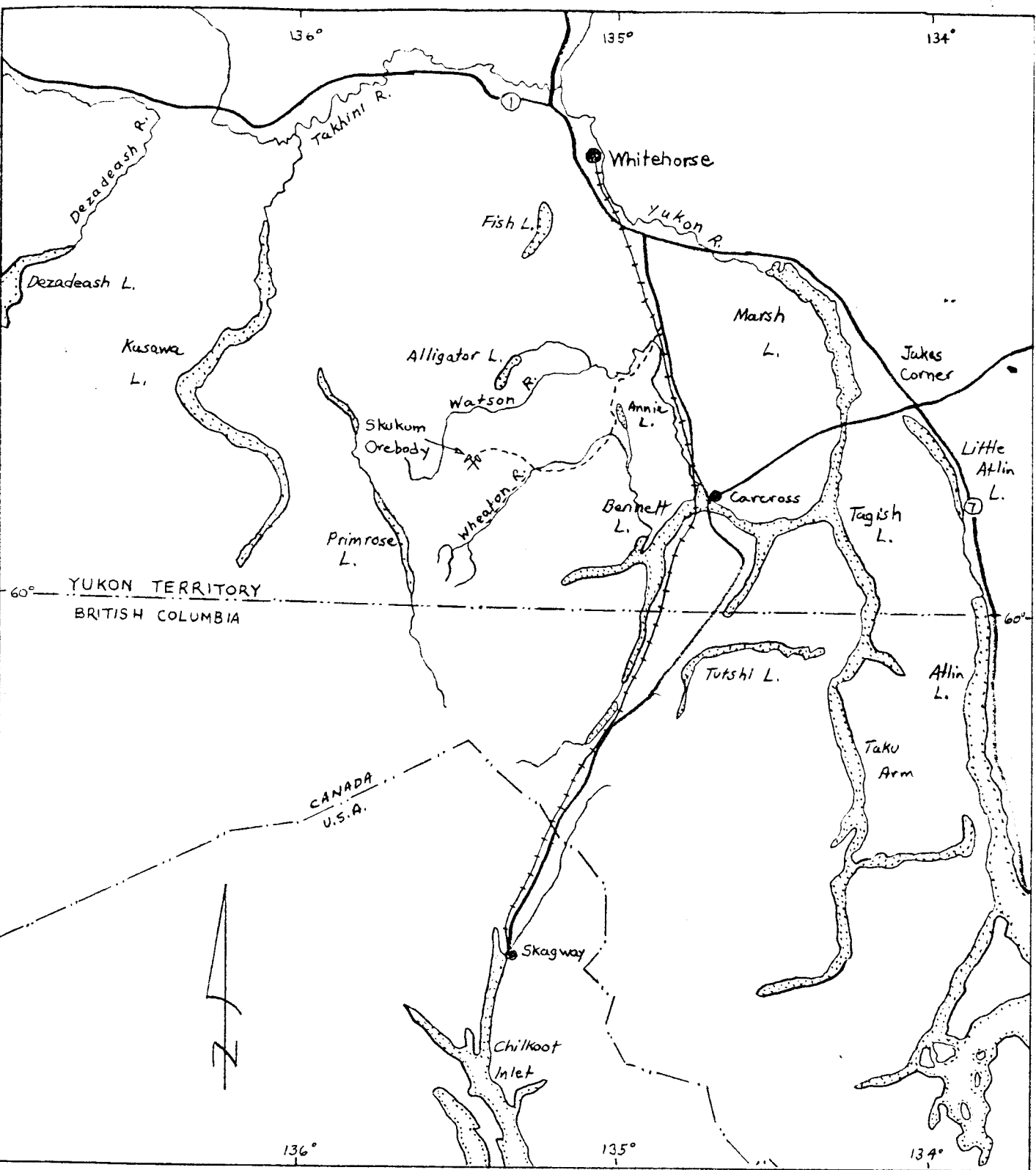
## TABLE OF CONTENTS

	Page
INTRODUCTION	1
LOCATION AND ACCESS	1
PROPERTY	1
PREVIOUS WORK HISTORY	2
PERSONNEL	3
CLIMATE, TOPOGRAPHY AND VEGETATION	3
REGIONAL GEOLOGY	3
GEOCHEMISTRY	4
- PROCEDURE	4
- RESULTS	5
CONCLUSIONS AND RECOMMENDATIONS	5
REFERENCES	6
STATEMENT OF QUALIFICATIONS	7
STATEMENT OF COSTS	8

## APPENDIX: ANALYTICAL RESULTS

### LIST OF FIGURES:

- FIG. 1. LOCATION MAP 1:1,000,000  
2. CLAIM LOCATION 1:30,000  
3. PROPERTY MAP 1:10,000 (in pocket)



SKUKUM VENTURES INC.		
BARR 1-16 CLAIMS		
LOCATION		
OCT. 87	SCALE 1:1,000,000	FIG. 1

## INTRODUCTION

This report describes a soil sampling survey carried out on the BARR 1-16 claims, located in the Wheaton River valley, just east of Partridge Creek, south of Whitehorse, Yukon.

Soil samples were collected at approximately 30 m centers along the 3500 foot and 3900 foot elevation contours, on the northwest facing slope of Tally - Ho Mountain.

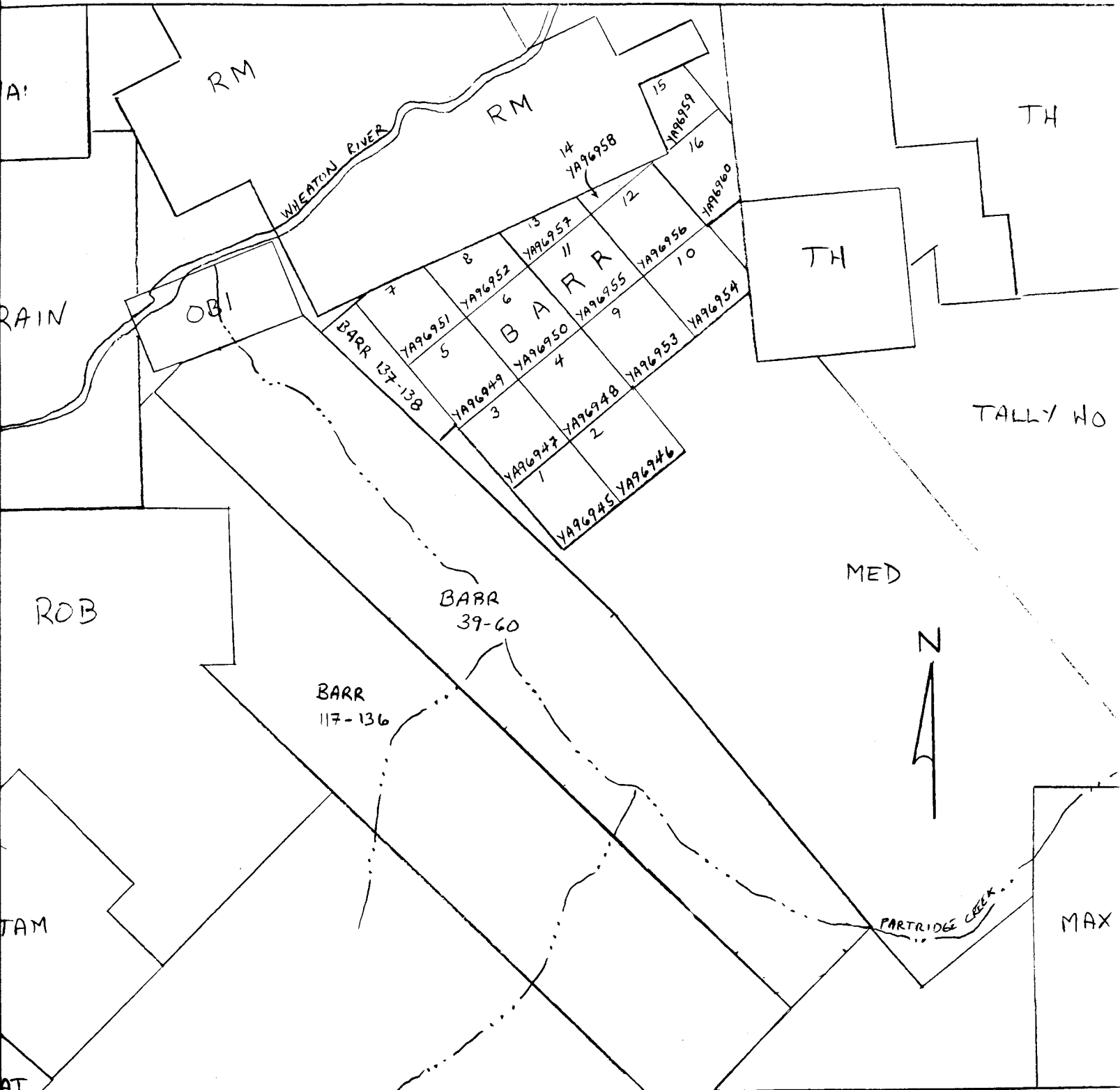
## LOCATION AND ACCESS

The BARR 1-16 claims are a contiguous group of mineral claims located in southwestern Yukon Territory. Specifically, the claims are centered 1 km east of Partridge Creek on the northwest facing slope of Tally - Ho Mountain in the Wheaton River valley at approximately 60° 14' latitude, 135° 5' longitude.

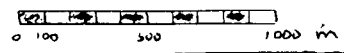
Access to the property is provided by the all weather road running along the south side of the Wheaton River. This road, which 500 m south of the claim group, links the producing Mt. Skukum Au, Ag mine with the road linking Carcross with Whitehorse. Total distance by road from Whitehorse to the claim group is approximately 80 km (50 miles).

## PROPERTY

The claims discussed in this report consist of 16 contiguous mineral claims staked under the Yukon Quartz Mining Act totaling approximately 324 hectares (797 acres). The claims are listed as follows:



SKUKUM VENTURES INC.  
 BARR 1-16 CLAIMS  
 LOCATION MAP  
 SCALE 1:30,000



092087

<u>NAME</u>	<u>NUMBER</u>	<u>EXPIRY DATE</u>
BARR 1-16	YA96945 - 960	20 FEB 1988

These claims are shown on D.I.A.N.D. Quartz and Placer Sheet 105 D-3, and are within the Whitehorse Mining District. All the claims are 100% owned by Skukum Ventures Inc.

PREVIOUS WORK HISTORY

Exploration began in the Wheaton River valley in the late 1800's with the discovery gold bearing veins and shears on Carbon Hill, Chieftan Hill and Mt. Anderson, and turned into a staking rush in 1906 with the discovery of high grade gold and gold telluride bearing veins on Gold Hill. By the first world war, adits had been driven into structures on Gold Hill, Tally - Ho Mountain, Mt. Stevens and Carbon Hill. Higher grade zones on Tally - Ho Mountain, Mt. Stevens and Gold Hill saw "limited production" until the mid 1920's. From the mid 1920's to the mid 1970's the Wheaton River area saw only sporadic exploration work, and mainly for base metals. In 1981 AGIP discovered a high grade gold-silver deposit near Mt. Skukum that soon developed into 165,000 tons grading 0.73 opt Au, 0.63 opt Ag. Production began in early 1986. The consequences of this discovery has influenced a dramatic increase in exploration work in the Wheaton River district. In 1986 OMNI announced discovery of a deposit calculated at 418,000 tons grading 0.23 opt Au, 9.87 opt Ag, with great potential of increasing the reserves.

022608.



### PERSONNEL

The geochemical survey was carried out by Lorne Rowan, Mike Genn, Pat Varas and Adam Travis. Drafting was done by Pat Varas. Data Compilation, interpretation and report preparation were completed by Ian Coster.

### CLIMATE, TOPOGRAPHY AND VEGETATION

The climate in the Wheaton River area is variable with hot summers enhanced by 18 - 20 hours of daylight, and long cold winters. Precipitation is relatively light (40 cm annual), with about half falling as rain. The rivers and lakes are open from early May to late October.

Regional topography consists of upland plateau, incised by v - shaped drainage systems. The average elevation of the plateau surface is approximately 5000 feet (1525 m), giving a relative relief of about 3000 feet (900 m). The BARR 1-16 claim group lies at an elevation of between 2900 feet and 5100 feet, most of which is below treeline.

Vegetation on the claim group is variable. Above tree line stunted willow, alpine grasses and shrubs thrive. Below treeline, mixed spruce, pine and poplar forest prevails.

### REGIONAL GEOLOGY

The BARR 1-16 claim group lies on the eastern edge of the Cretaceous Coast Plutonic Belt, near the boundary with folded Mesozoic and Paleozoic volcanic and sedimentary rocks of the Whitehorse Trough. The region was mapped in detail by J.O. Wheeler of the G.S.C. and reported on in 1961. In general, he concludes that this part of the Coast Plutonic

Belt comprises foliated and non-foliated Mesozoic (Cretaceous) granitoid rocks flanked by metamorphosed and unmetamorphosed sedimentary and volcanic rocks. Irregular belts of metavolcanic and metasedimentary rocks of Mesozoic, Paleozoic and Precambrian age occur as roof pendants. All of the above geology is overlain and intruded by a coeval suite of Tertiary (Eocene?) rhyolite to andesite flows, dikes and stocks derived from volcanic complexes at Montana Mountain, Mount Macauley and Mount Skukum. Most mineral occurrences in the Wheaton River are associated with the Tertiary igneous event.

#### GEOCHEMISTRY

#### PROCEDURE

Two separate soil traverses of approximately 2 km length each were run on the northwest facing slope of Tally -Ho Mountain, following the 3500 foot and 3900 foot elevation contours. Samples were collected at approximately 30 m intervals, resulting in a total of 150 soil samples collected. Soil horizontal development was variably moderate to poor with soil being more of a mixture of glaciofluvial and talus fines material, rather than true residual material. Profiles showed an organic "A" horizon varying in the thickness between 1 and 10 inches, and below this was an orange-brown "B" to "C" horizon of undetermined thickness. This latter horizon was the preferred sampling medium.

All the samples were geochemically analyzed (-80 mesh

fraction) for Au, Ag, Cu, Sb, Pb and Zn at ACME Analytical Laboratories Ltd. of Vancouver, B.C. Silver, Lead, Zinc, Copper and Antimony were determined from a 0.50 gm sample by ICP (Induced Coupled Plasma) analysis after digestion in a hydrochloric-nitric acid solution, and are reported in ppm. Gold was analyzed by conventional AA (Atomic Absorption) techniques from a 10 gm sample and are reported in ppb.


### RESULTS

Of the 150 sample taken and analyzed, five are weakly anomalous in gold, one sample is weakly anomalous in silver, and one sample is weakly anomalous in copper. These are: 4C-6007 (40 ppb Au), 4C-6028 (31 ppb Au), 4C-6052 (55 ppb Au), 4C-6059 (69 ppb Au), 4C-6029 (218 ppm Cu), 4d-6059 (37 ppb Au), 4d-6066 (1.3 ppm Ag), (see Appendix). All these anomalous samples are very weak and are isolated from one another. A cluster of three consecutive subanomalous antimony values occurs at about 4d-6065, near the lone silver anomaly.

### CONCLUSIONS AND RECOMMENDATIONS

Although the sampling survey was successful in outlining several isolated, weakly anomalous areas, the strength and nature of the anomalies is not deemed significant. It is therefore recommended that no further work be done on the property at this time.

Respectfully Submitted,



IAN P.D.A. COSTER B.Sc, F.G.A.C.

REFERENCES

- Cairnes, D.D.           Wheaton District, Yukon Territory, G.S.C.  
1912                    Memoir 31
- Wheeler, J.O.           Whitehorse Map Area, Yukon Territory, 105D  
1961                    Memoir 312

10000


STATEMENT OF QUALIFICATIONS

I, IAN P.D.A. COSTER, of P.O.BOX 27 Atlin, B.C., hereby certify that:

1. I am a geologist with SKUKUM VENTURES INC. of 706-595 Howe Street, Vancouver, B.C.;
2. I obtained a Batchelor of Science degree in Geology from the University of British Columbia, in 1981;
3. I am a Fellow of the Geological Association of Canada, and a member of the Prospectors and Developers Association;
4. I have been engaged in mineral exploration since 1979 in Ontario, Quebec, N.W.T., British Columbia and Yukon;
5. I oversaw the geochemical surveying of the BARR 1-16 claims and am the author of this report.

Dated this 18th day of January, 1988

IAN P.D.A. COSTER, B. SC. F.G.A.C.



STATEMENT OF COSTS

Assessment Valuation, BARR 1-16 Mineral Claims, Whitehorse  
Mining Division, Yukon Territory.

Ian Coster. B. SC., F.G.A.C. of Atlin, B.C.

1 day @ \$120.00/day.....\$ 120.00

Mike Genn, B. SC. of Vancouver, B.C.

2 day @ \$ 67.00/day..... 134.00

Adam Travis, student of Vancouver, B.C.

1 day @ \$ 67.00/day..... 67.00

Pat Varas, B. SC. of Vancouver, B.C.

1 day @ \$ 67.00/day..... 67.00

Lorne Rowan, B. SC. of Vancouver, B.C.

1/2 day @ \$ 90.00/day..... 45.00

Camp Costs

5 1/2 mandays @ \$ 35.00/manday..... 192.50

Analytical Costs

150 samples @ \$ 9.25/sample..... 1387.50

shipping..... 70.00

Report Preparation

drafting, copying etc..... 250.00

Truck Costs

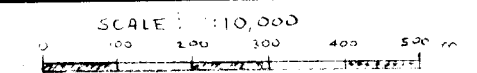
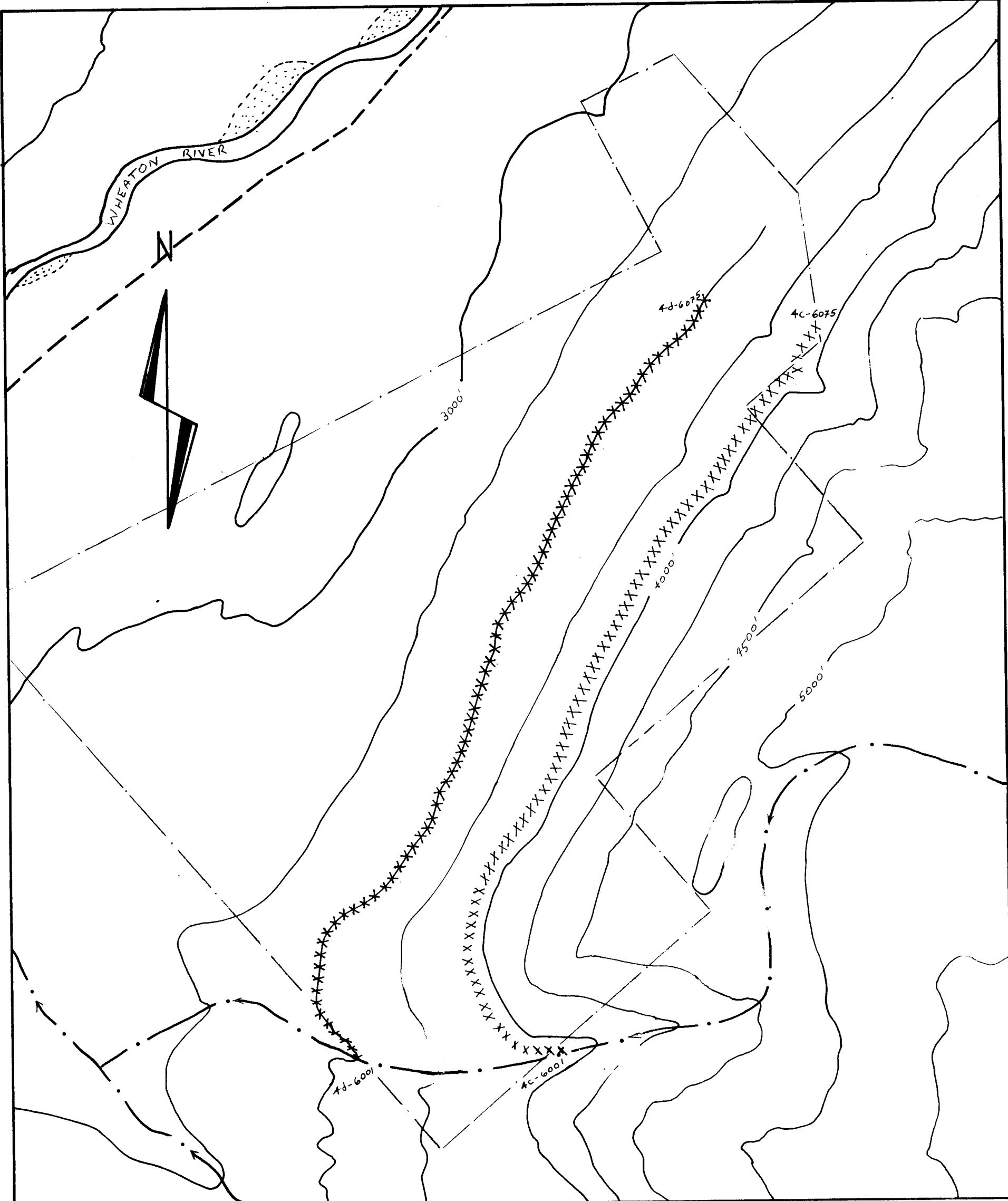
2 days @ \$ 50.00/day..... 100.00

TOTAL 1987 EXPENDITURES

2433.00

=====

092087



- Approx. Property Outline
- x 4d-6001 Sample Site and Number
- Annie Lake Road

*[Handwritten Signature]*

SKUKUM VENTURES

BARR 1-16 CLAIMS

Aug. 87

ACME ANALYTICAL LABORATORIES  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 8 1987

DATE REPORT MAILED: *Aug. 15/87...*

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: P1-3 TALUS FINES P4-6 SOIL AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

SKUKUM VENTURES		File # 87-3098				Page 1	
SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	SB PPM	AU* PPB	
87-2e-4c-6001	23	8	56	.1	2	2	
87-2e-4c-6002	16	7	37	.1	2	2	
87-2e-4c-6003	17	3	51	.1	2	3	
87-2e-4c-6004	10	8	35	.1	2	3	
87-2e-4c-6005	12	4	36	.1	2	8	
87-2e-4c-6006	10	6	50	.2	2	9	
87-2e-4c-6007	13	8	50	.2	2	40	
87-2e-4c-6008	11	5	60	.1	2	2	
87-2e-4c-6009	15	9	69	.1	2	1	
87-2e-4c-6010	11	9	57	.1	3	2	
87-2e-4c-6011	9	11	56	.2	2	1	
87-2e-4c-6012	18	6	73	.2	2	2	
87-2e-4c-6013	22	7	67	.3	2	4	
87-2e-4c-6014	24	8	59	.2	2	3	
87-2e-4c-6015	16	15	82	.3	2	10	
87-2e-4c-6016	17	11	52	.1	2	8	
87-2e-4c-6017	14	14	48	.1	2	8	
87-2e-4c-6018	16	4	59	.2	2	1	
87-2e-4c-6019	26	7	47	.3	3	7	
87-2e-4c-6020	17	7	49	.2	2	2	
87-2e-4c-6021	18	13	66	.1	2	3	
87-2e-4c-6022	12	10	39	.1	2	4	
87-2e-4c-6023	14	6	61	.1	2	2	
87-2e-4c-6024	53	12	60	.1	5	2	
87-2e-4c-6025	59	11	56	.2	2	2	
87-2e-4c-6026	45	12	51	.2	2	19	
87-2e-4c-6027	75	5	33	.1	2	1	
87-2e-4c-6028	20	12	65	.1	3	31	
87-2e-4c-6029	95	15	83	.2	2	4	
87-2e-4c-6030	130	12	78	.3	2	13	
87-2e-4c-6031	44	14	57	.3	2	1	
87-2e-4c-6032	15	11	49	.1	2	13	
87-2e-4c-6033	60	12	39	.4	2	1	
87-2e-4c-6034	30	9	113	.1	2	1	
87-2e-4c-6035	15	7	41	.2	2	1	
87-2e-4c-6036	154	17	94	.4	2	4	
STD C/AU-S	62	39	132	7.1	17	49	



SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	SB PPM	AU* PPB
87-2e-4c-6037	32	17	82	.1	2	1
87-2e-4c-6038	65	23	76	.1	2	2
87-2e-4c-6039	48	12	66	.1	2	4
87-2e-4c-6040	11	18	69	.1	2	1
87-2e-4c-6041	64	23	89	.1	2	1
87-2e-4c-6042	83	11	67	.5	2	13
87-2e-4c-6043	44	30	87	.3	2	9
87-2e-4c-6044	22	10	45	.1	2	1
87-2e-4c-6045	30	44	81	.3	2	2
87-2e-4c-6046	30	27	70	.1	2	1
87-2e-4c-6047	17	6	36	.1	2	1
87-2e-4c-6048	13	12	54	.1	2	4
87-2e-4c-6049	46	22	70	.5	2	2
87-2e-4c-6050	20	26	52	.3	2	22
87-2e-4c-6051	11	16	48	.1	2	3
STD C/AU-S	60	40	136	7.1	18	52
87-2e-4c-6052	15	17	61	.2	2	55
87-2e-4c-6053	12	11	40	.1	2	4
87-2e-4c-6054	11	16	52	.2	2	2
87-2e-4c-6055	13	26	58	.2	2	16
87-2e-4c-6056	32	26	79	.3	2	6
87-2e-4c-6057	46	47	73	.5	2	19
87-2e-4c-6058	11	19	47	.1	2	2
87-2e-4c-6059	14	18	48	.1	2	69
87-2e-4c-6060	12	14	48	.1	2	5
87-2e-4c-6061	20	18	44	.2	3	27
87-2e-4c-6062	10	14	44	.2	2	3
87-2e-4c-6063	11	12	32	.2	2	19
87-2e-4c-6064	11	17	43	.1	2	5
87-2e-4c-6065	50	17	62	.7	3	6
87-2e-4c-6066	35	23	60	.3	2	2
87-2e-4c-6067	68	22	85	.5	2	1
87-2e-4c-6068	58	16	84	.6	4	10
87-2e-4c-6069	58	16	74	.4	4	29
87-2e-4c-6070	69	23	77	.8	3	2
87-2e-4c-6071	60	20	72	.3	2	25
87-2e-4c-6072	43	16	64	.3	3	11

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	SB PPM	AU* PPB
87-2e-4c-6073	20	16	51	.1	2	3
87-2e-4c-6074	24	13	65	.1	2	1
87-2e-4c-6075	16	13	63	.2	2	1
STD C	59	40	131	7.4	18	-

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	SE PPM	AU* PPB
87-2e-4d-6001	33	2	24	.1	2	1
87-2e-4d-6002	27	10	66	.1	2	1
87-2e-4d-6003	25	15	76	.1	2	1
87-2e-4d-6004	30	31	95	.2	2	1
87-2e-4d-6005	19	16	67	.2	2	22
87-2e-4d-6006	21	10	58	.2	2	1
87-2e-4d-6007	20	15	63	.1	2	3
87-2e-4d-6008	19	14	56	.1	2	3
87-2e-4d-6009	24	17	69	.1	2	6
87-2e-4d-6010	22	9	60	.1	2	1
87-2e-4d-6011	26	12	91	.1	2	2
87-2e-4d-6012	19	21	113	.1	3	1
87-2e-4d-6013	14	22	71	.1	2	20
87-2e-4d-6014	18	24	66	.1	3	3
87-2e-4d-6015	11	13	78	.1	2	1
87-2e-4d-6016	24	34	88	.2	2	2
87-2e-4d-6017	22	34	94	.3	2	1
87-2e-4d-6018	19	46	81	.3	2	2
87-2e-4d-6019	11	8	36	.1	2	19
87-2e-4d-6020	11	12	60	.1	2	1
87-2e-4d-6021	44	34	69	.7	2	15
87-2e-4d-6022	25	6	35	.1	2	1
87-2e-4d-6023	53	21	68	.2	2	2
87-2e-4d-6024	61	27	112	.3	2	2
87-2e-4d-6025	73	21	115	.2	2	2
87-2e-4d-6026 P	41	10	67	.1	2	1
87-2e-4d-6027	70	26	95	.2	2	1
87-2e-4d-6028	49	22	83	.1	2	1
87-2e-4d-6029	218	13	101	.3	2	3
87-2e-4d-6030	141	20	116	.4	2	1
87-2e-4d-6031	72	18	94	.4	2	7
87-2e-4d-6032	148	14	64	.2	2	3
87-2e-4d-6033	41	13	74	.1	2	1
87-2e-4d-6034	33	22	78	.2	2	1
87-2e-4d-6035	133	16	118	.3	2	18
87-2e-4d-6036	21	11	44	.2	2	1
STD C/AU-S	59	41	130	7.6	18	50

P-20 MESH, PULVERIZED

102002

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	SB PPM	AU* PPB
87-2e-4d-6037	105	24	59	.3	2	3
87-2e-4d-6038	102	16	91	.3	2	1
87-2e-4d-6039	101	22	77	.3	2	1
87-2e-4d-6040	39	22	67	.3	2	1
87-2e-4d-6041	168	17	85	.4	2	2
87-2e-4d-6042	27	9	48	.1	2	1
87-2e-4d-6043	56	30	136	.4	3	2
87-2e-4d-6044	41	20	97	.3	2	1
87-2e-4d-6045	26	23	109	.1	2	28
87-2e-4d-6046	24	22	80	.1	2	1
87-2e-4d-6047	39	28	72	.2	2	3
87-2e-4d-6048	20	30	88	.1	2	1
87-2e-4d-6049	45	20	73	.3	2	1
87-2e-4d-6050	46	42	75	.4	2	5
87-2e-4d-6051	31	30	94	.1	2	1
87-2e-4d-6052	23	32	106	.2	2	1
87-2e-4d-6053	18	26	69	.2	2	1
87-2e-4d-6054	54	27	69	.5	4	29
87-2e-4d-6055 P	15	13	64	.3	2	1
87-2e-4d-6056	17	33	71	.1	2	1
87-2e-4d-6057	21	54	100	.9	2	2
87-2e-4d-6058	8	21	62	.7	2	8
87-2e-4d-6059	16	24	60	.2	2	<u>37</u>
87-2e-4d-6060	11	24	44	.1	2	1
87-2e-4d-6061	14	10	35	.2	2	1
87-2e-4d-6062	32	72	83	.6	2	6
87-2e-4d-6063	42	30	82	.4	2	1
87-2e-4d-6064	40	56	114	.7	7	5
87-2e-4d-6065	36	66	75	.6	6	22
87-2e-4d-6066	62	56	125	<u>1.3</u>	6	4
87-2e-4d-6067	28	38	112	.4	3	4
87-2e-4d-6068	54	35	104	.5	4	10
87-2e-4d-6069	37	20	79	.2	2	18
87-2e-4d-6070	71	21	81	.4	4	15
87-2e-4d-6071	55	11	109	.4	3	1
87-2e-4d-6072	100	21	81	.5	3	10
STD C/AU-S	59	40	131	7.4	16	53

092087

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	SB PPM	AU* PPB
87-2e-4d-6073	78	16	93	.8	2	12
87-2e-4d-6074	36	20	82	.3	2	1
87-2e-4d-6075	36	21	86	.4	2	6
STD C	58	36	132	7.1	17	-