

PLACER TESTING PROGRAM

JAMIE #1

PLACER LEASE 5533

**PLACER TESTING PROGRAM**

**JAMIE #1**

**PLACER LEASE 5533**

**DAWSON MINING DIVISION**

**NTS 115 P/14**

**63°54' LATITUDE, 137°11.2' LONGITUDE**

**Owned by:**

**CANADA TUNGSTEN MINING CORPORATION LTD.  
Executive Office  
Box 12525, Oceanic Plaza  
Ste. 1600-1066 W. Hastings St.  
Vancouver, B.C. V6E 3X1**

**Work by:**

**BEMA INDUSTRIES LTD.  
1995-56th Avenue  
Langley, B.C. V3A 3Y2**

**KEN HANSEN**

**SEPTEMBER, 1981**

TABLE OF CONTENTS

	<u>Page</u>
1.0 Introduction	1
1.1 Location and Access	1
2.0 The Placer Testing Program	2
2.1 Trenching	2
2.2 Hand Excavated Trenches and Pits	2
2.3 Concentration Procedure	2
2.4 Visual Examination	3
3.0 Results	5
4.0 Conclusions	7
Appendix I	8
Figures	

LIST OF FIGURES

FIGURE 1	Location and Access Map	Scale 1:250,000
FIGURE 2	Topography Map	Scale 1:50,000
FIGURE 3	Claim Map	Scale 1 inch to $\frac{1}{2}$ mile
FIGURE 4	Sample Site Plan	Scale 1 inch to 10 feet
FIGURE 5	Sluice (Longtom) Diagram	

APPENDIX

APPENDIX I Statement of Direct Costs

## **PLACER TESTING PROGRAM**

**JAMIE 01**

**PLACER LEASE 5533**

### **1.0 INTRODUCTION**

Bema Industries Ltd. was contracted by Canada Tungsten Mining Corporation Limited to carry out a placer testing program on their thirteen leases in the Clear Creek area. The purpose of the program was to define the heavy mineral potential and to fulfill their assessment requirements for each lease.

### **1.1 LOCATION AND ACCESS**

The West Ridge camp is situated in the Yukon Territory approximately 40 miles northwest of Stewart Crossing (see Fig. 1). Access is by travelling east along the Klondike highway for 47 miles then turn north along the Clear Creek road for 18 miles.

.. The leases are then accessible by a 4-X-4 road which follows Left Clear Creek. Since the leases are located well off the roadway a Bell 47 was used to reach the leases.



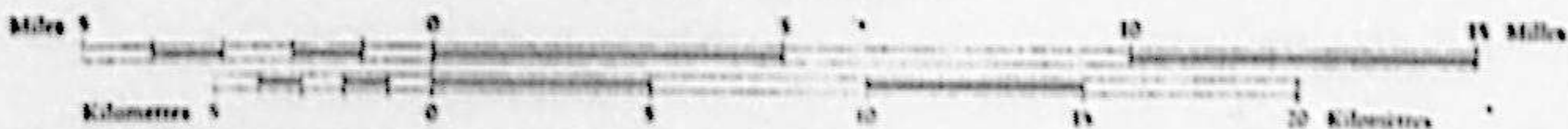
# McQUESTEN

## YUKON TERRITORY

115 P

Scale 1:250,000 Échelle

FIGURE 1



Stewart Crossing

## 2.0 THE PLACER TESTING PROGRAM

The program consisted of trenching, concentration of trenched material, visual examination, assay and geochemical analysis, and calculations of gold, scheelite, and cassiterite values per cubic yard.

### 2.1 TRENCHING

Two methods of trenching were used depending upon access to the lease. Upon easy access a D7G cat was used to excavate a trench. Where access was not possible by cat a two to three man crew was flown in by a Bell 47 to excavate a trench or test pits.

### 2.2 HAND EXCAVATED TRENCHES AND PITS

The hand trenches were dug as deep as possible though all trenches experienced water problems. Therefore the trenches reached a maximum depth of three to five feet. The trenches were dug perpendicular to the active creek.

The trenches were placed in the most favourable locations for heavy mineral concentration, usually below a steep gradient or on the inside curve of a creek.

### 2.3 CONCENTRATION PROCEDURE

The concentration process involves running all material from the hand dug trench through a small sluice.

Large rocks which were part of the sample were washed in a tub, then the residual material run through the sluice. After each sluice clean up a one half to one cubic foot concentrate was taken.

The sluice material was panned to approximately an eight and one half ounce concentrate. This final concentrate was dried for visual inspection.

The small sluice or longtom (see Fig. 5) consisted of a pump, trough, grizzly, and sluice box. A Monark pump was used to supply water at 70 gallons per minute. The grizzly was setup at a forty-five degree angle with one quarter inch by eight inch slotted openings. The oversize gravel was rejected off the side of the grizzly.

- (a) The water flows through the four foot trough.
- (b) The gravel is placed in the trough.
- (c) It is washed and self-fed at a constant rate over the grizzly.
- (d) The sized gravel goes in an eight foot by eight inch sluice. The bottom of the sluice has a layer of rubber matting, and on top of this three quarter inch expanded metal.
- (e) Panning: the panning of the sluice concentrates were done at base camp. Each sample was panned twice. The final concentrates were placed on trays to dry. An eight ounce panning tails sample was taken for geochemical analysis to ensure accuracy.

#### 2.4 VISUAL EXAMINATION

The visual examination procedure is as follows:

- (a) Dry panned, concentrate and tails.
- (b) Weigh concentrate and tails.
- (c) Sieve dried concentrate using a ten and twenty mesh screen (Tyler series).
- (d) Take counts on scheelite grains larger than twenty mesh with the aid of an ultraviolet lamp; at the same time note the presence of barite.

- (e) Take counts on gold using the following scale:
- coarse gold (cg) - larger than ten mesh
  - medium gold (mg) - smaller than ten mesh but larger than twenty mesh
  - fine gold (fg) - smaller than twenty mesh but larger than forty mesh
  - very fine gold (vfg) - smaller than forty mesh.
- (f) Examine each sieved portion under a binocular microscope. Take general overall counts on scheelite, barite, arsenopyrite, pyrite, hematite and magnetite using the following scale:
- 0 - no mineral grains were observed
  - 1 - trace
  - 2 - low
  - 3 - moderate
  - 4 - high
  - 5 - abundant

Note: Originally cassiterite counts were to be taken but field tests failed to provide any positive results of suspect grains.

3.0 RESULTS

JAMIE #1  
PLACER LEASE 5533

	GOLD	SCHEELITE		BARITE	ARSENOPYRITE	PYRITE	HEMATITE	MAGNETITE
J1-T1 concentrate	12 vfg		3	3	0	3	3	4
J1-T1 tails	0		1	1	0	0	0	1
J1-T2 concentrate	20 vfg	1 gr >10 mesh	3	3	3	2	4	4
J1-T2 tails	0		1	1	0	0	0	1
J1-T3 concentrate	15 vfg		3	3	3	2	4	4
J1-T3 tails	0		1	1	0	0	0	1
J1-T4 concentrate	7 vfg		2	3	0	2	3	4
J1-T4 tails	0		1	1	0	0	0	1
J1-T5 concentrate	3 vfg		2	2	1	1	2	3
J1-T5 tails	0		1	1	0	0	0	1

3.0 RESULTS

GOLD

Coarse Gold	(cg)	-	larger than 10 mesh
Medium Gold	(mg)	-	smaller than 10 mesh but larger than 20 mesh
Fine Gold	(fg)	-	smaller than 20 mesh but larger than 40 mesh
Very Fine Gold	(vfg)	-	smaller than 40 mesh

SCALE

0	-	denotes no mineral grains present
1	-	trace
2	-	low
3	-	moderate
4	-	high
5	-	abundant

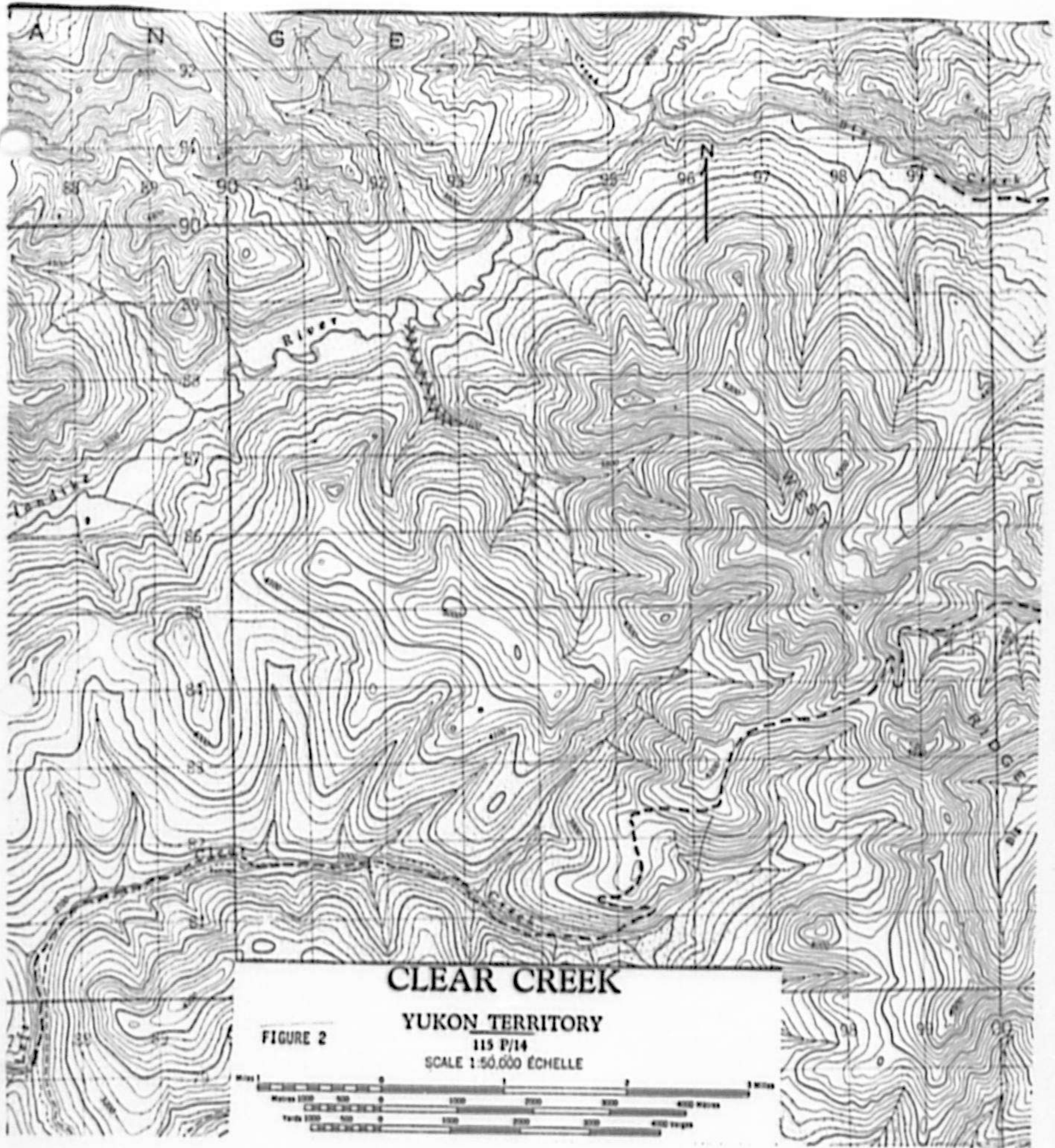
4.0 CONCLUSIONS

Conclusions pending Chemex Geochemical Analyses.



**DISBURSEMENTS**

Gas \$2.00 per gallon X .5 gallon per day X 3 days =	\$ 3.00
4.400 yds <sup>3</sup> X \$1.52 per yard <sup>3</sup> =	\$ 6.68
Chemex Geochemical Analyses	
Preparation \$0.65 per sample X 6	\$ 3.90
Each sample tested for Gold (\$5.75)	
Tin (\$4.00)	
Tungsten (\$4.00)	
\$13.75 X 6 samples =	\$ 82.50
	<hr/>
<b>TOTAL DISBURSEMENTS</b>	<b>\$ 96.08</b>
	<hr/>
<b>TOTAL COST APPLIED TO ASSESSMENT WORK</b>	<b>\$1,446.08</b>
	<hr/> <hr/>



115P14

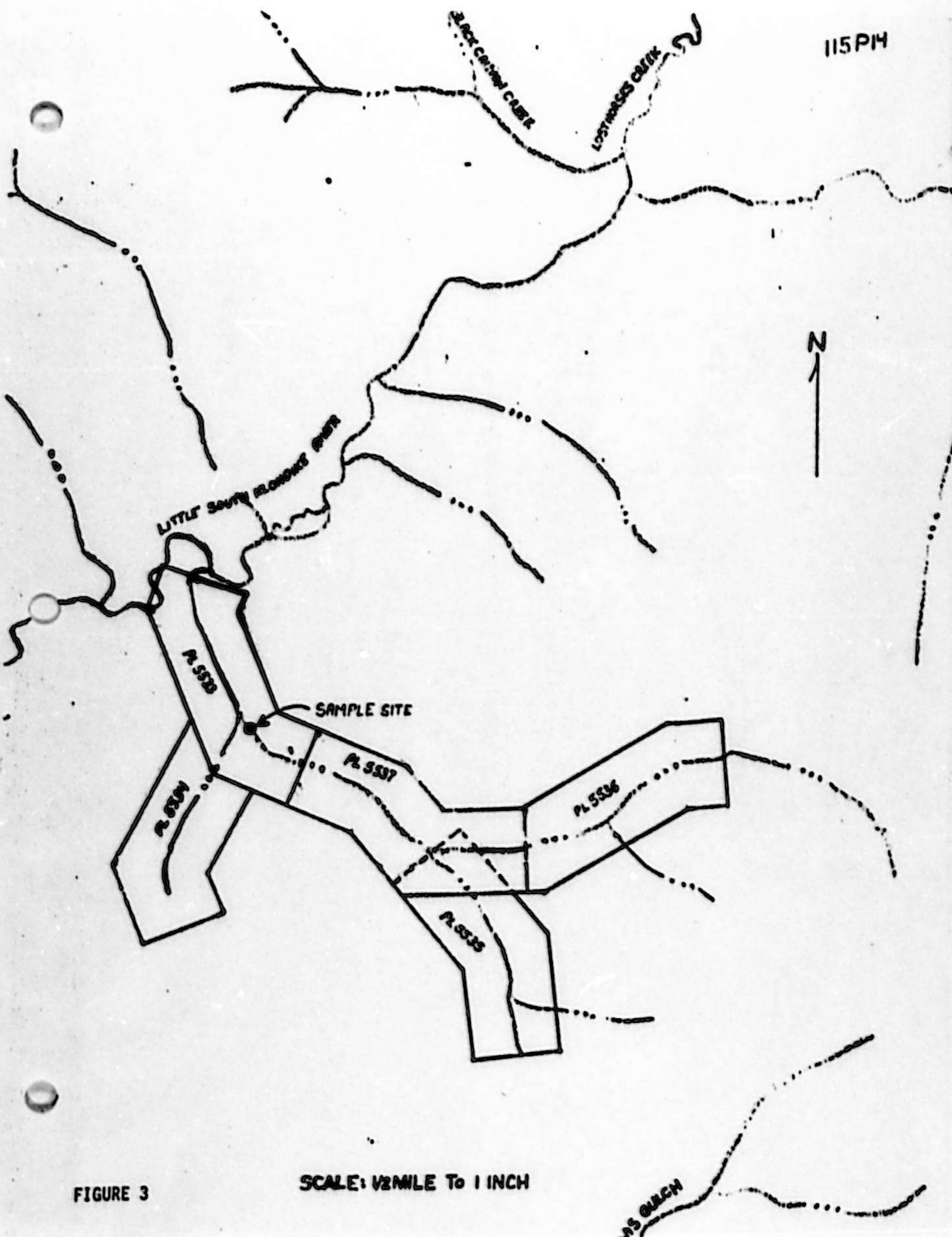
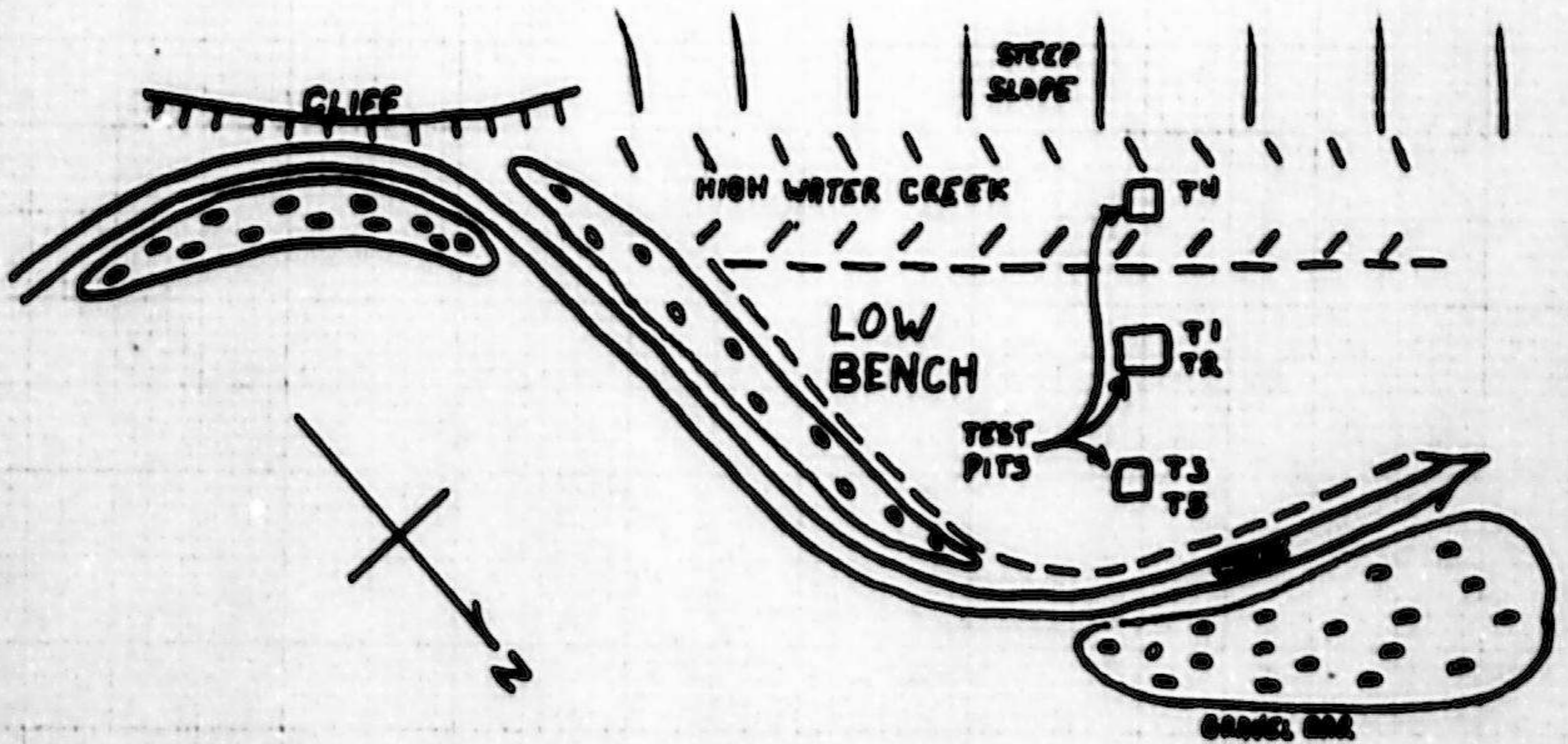


FIGURE 3

SCALE: 1/2 MILE TO 1 INCH

# JAMIE I SAMPLE SITE PLAN



## PIT VOLUMES

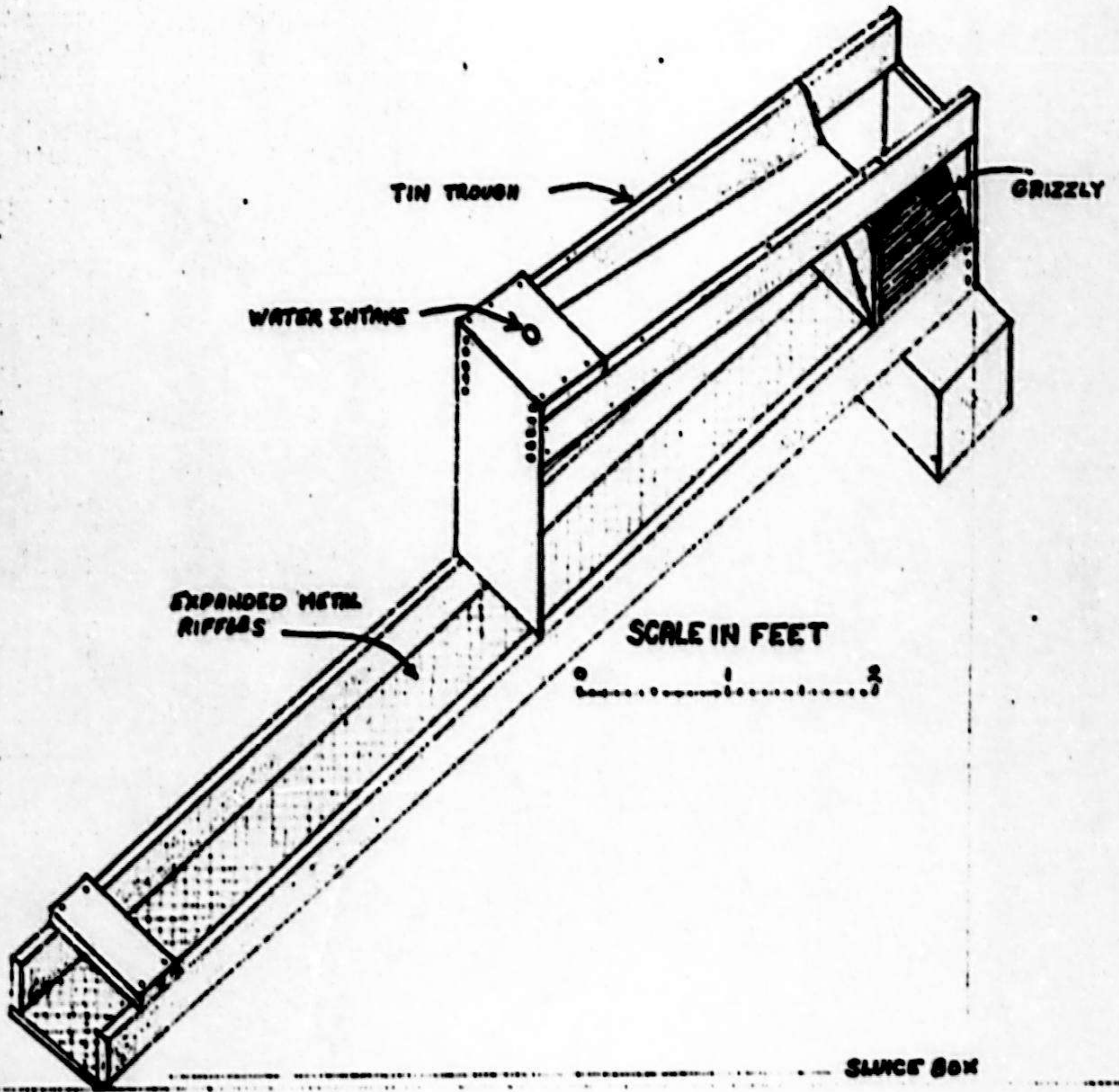
T1+2	$3' \times 5' \times 33' = 495' \div 27' = 1.8 \text{ YD}^3$
T3+5	$28' \times 45' \times 28' = 35' \div 27' = 1.3 \text{ YD}^3$
T4	$28' \times 45' \times 28' = 35' \div 27' = 1.3 \text{ YD}^3$
	TOTAL 4.4 YD <sup>3</sup>

SCALE 1 INCH TO 10 FEET

SITE IS 15-20 YARDS UPSTREAM FROM POST #1.

FIGURE 4

**SLUCE  
(LONGTOM)**



**FIGURE 5**

PLACER TESTING PROGRAM

JAMIE #2

PLACER LEASE 5537



PLACER TESTING PROGRAM

JAMIE #2

PLACER LEASE 5537

DAWSON MINING DIVISION

NTS 115 P/14

63°53.6' LATITUDE, 137°09.5' LONGITUDE

Owned by:

CANADA TUNGSTEN MINING CORPORATION LTD.  
Executive Office  
Box 12525, Oceanic Plaza  
Ste. 1600-1066 W. Hastings St.  
Vancouver, B.C. V6E 3X1

Work by:

BEMA INDUSTRIES LTD.  
19945-56th Avenue  
Langley, B.C. V3A 3Y2

KEN HANSEN

SEPTEMBER, 1981

TABLE OF CONTENTS

	<u>Page</u>
1.0 Introduction	1
1.1 Location and Access	1
2.0 The Placer Testing Program	2
2.1 Trenching	2
2.2 Hand Excavated Trenches and Pits	2
2.3 Concentration Procedure	2
2.4 Visual Examination	3
3.0 Results	5
4.0 Conclusions	7
Appendix I	8
Figures	

LIST OF FIGURES

FIGURE 1	Location and Access Map	Scale 1:250,000
FIGURE 2	Topography Map	Scale 1:50,000
FIGURE 3	Claim Map	Scale 1 inch to $\frac{1}{2}$ mile
FIGURE 4	Sample Site Plan	Scale 1 inch to 10 feet
FIGURE 5	Sluice (Longtom) Diagram	

APPENDIX

APPENDIX I Statement of Direct Costs

---

## **PLACER TESTING PROGRAM**

**JAMIE #2**

**PLACER LEASE 5537**

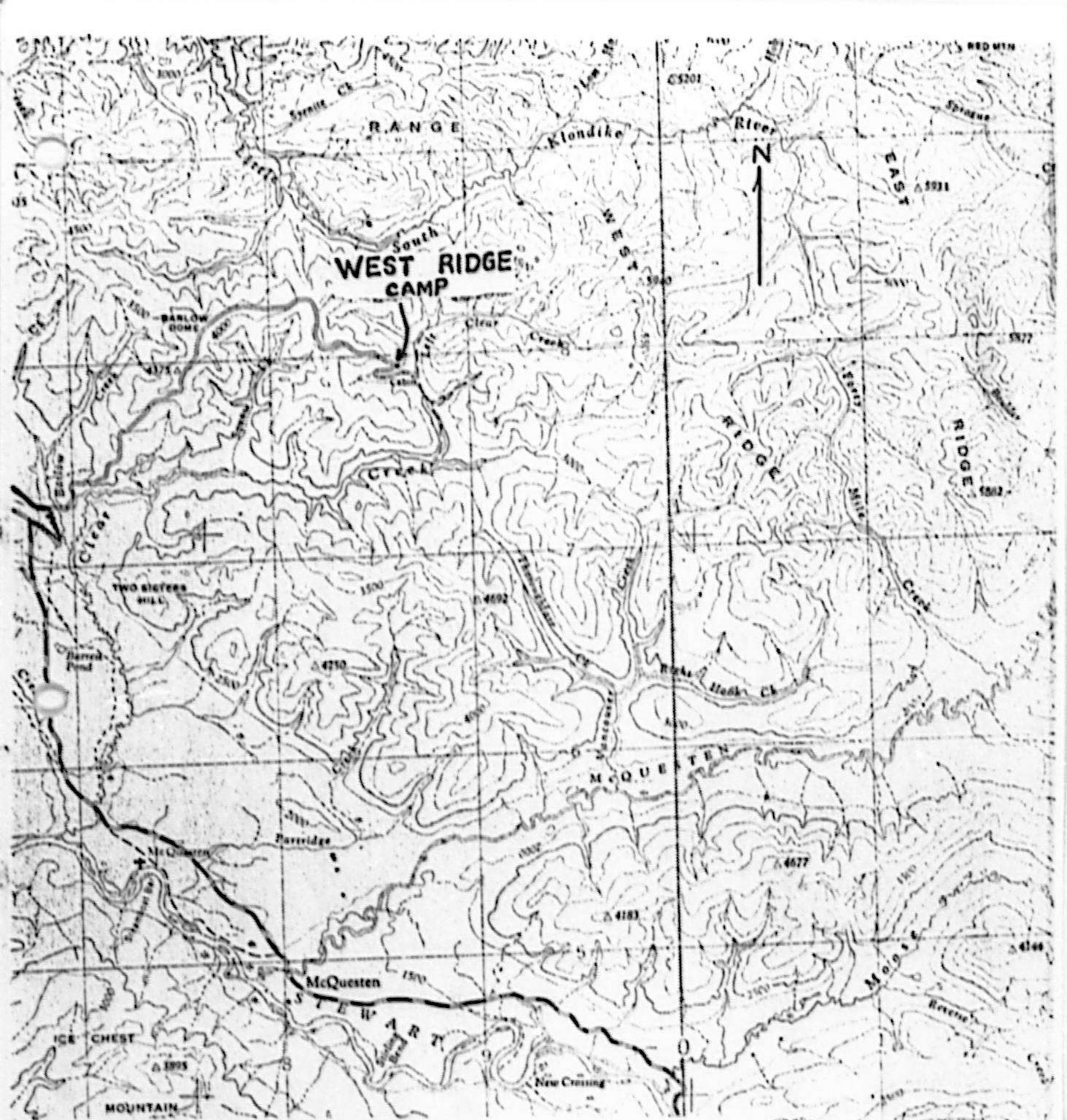
### **1.0 INTRODUCTION**

Benn Industries Ltd. was contracted by Canada Tungsten Mining Corporation Limited to carry out a placer testing program on their thirteen leases in the Clear Creek area. The purpose of the program was to define the heavy mineral potential and to fulfill their assessment requirements for each lease.

### **1.1 LOCATION AND ACCESS**

The West Ridge camp is situated in the Yukon Territory approximately 40 miles northwest of Stewart Crossing (see Fig. 1). Access is by travelling east along the Klondike highway for 47 miles then turn north along the Clear Creek road for 18 miles.

The leases are then accessible by a 4 X 4 road which follows Left Clear Creek. Since the leases are located well off the roadway a Bell 47 was used to reach the leases.



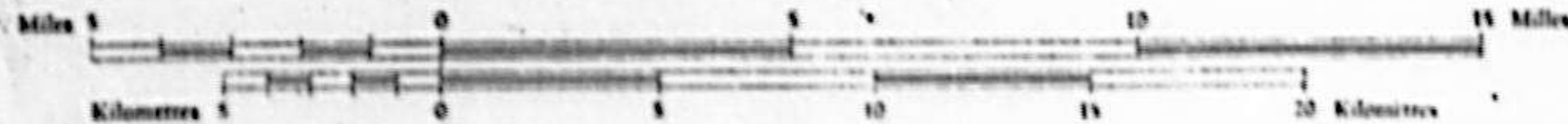
# McQUESTEN

YUKON TERRITORY

115 P

Scale 1:250,000 Echelle

FIGURE 1



Stewart Crossing

## 2.0 THE PLACER TESTING PROGRAM

The program consisted of trenching, concentration of trenched material, visual examination, assay and geochemical analysis, and calculations of gold, scheelite, and cassiterite values per cubic yard.

### 2.1 TRENCHING

Two methods of trenching were used depending upon access to the lease. Upon easy access a D7G cat was used to excavate a trench. Where access was not possible by cat a two to three man crew was flown in by a Bell 47 to excavate a trench or test pits.

### 2.2 HAND EXCAVATED TRENCHES AND PITS

The hand trenches were dug as deep as possible though all trenches experienced water problems. Therefore the trenches reached a maximum depth of three to five feet. The trenches were dug perpendicular to the active creek.

The trenches were placed in the most favourable locations for heavy mineral concentration, usually below a steep gradient or on the inside curve of a creek.

### 2.3 CONCENTRATION PROCEDURE

The concentration process involves running all material from the hand dug trench through a small sluice.

Large rocks which were part of the sample were washed in a tub, then the residual material run through the sluice. After each sluice clean up a one half to one cubic foot concentrate was taken.

The sluice material was panned to approximately an eight and one half ounce concentrate. This final concentrate was dried for visual inspection.

The small sluice or longtom (see Fig. 5) consisted of a pump, trough, grizzly, and sluice box. A Monark pump was used to supply water at 70 gallons per minute. The grizzly was setup at a forty-five degree angle with one quarter inch by eight inch slotted openings. The oversize gravel was rejected off the side of the grizzly.

- (a) The water flows through the four foot trough.
- (b) The gravel is placed in the trough.
- (c) It is washed and self-fed at a constant rate over the grizzly.
- (d) The sized gravel goes in an eight foot by eight inch sluice. The bottom of the sluice has a layer of rubber matting, and on top of this three quarter inch expanded metal.
- (e) Panning: the panning of the sluice concentrates were done at base camp. Each sample was panned twice. The final concentrates were placed on trays to dry. An eight ounce panning tails sample was taken for geochemical analysis to ensure accuracy.

#### 2.4 VISUAL EXAMINATION

The visual examination procedure is as follows:

- (a) Dry panned, concentrate and tails.
- (b) Weigh concentrate and tails.
- (c) Sieve dried concentrate using a ten and twenty mesh screen (Tyler series).
- (d) Take counts on scheelite grains larger than twenty mesh with the aid of an ultraviolet lamp; at the same time note the presence of barite.

- (e) Take counts on gold using the following scale:
- coarse gold (cg) - larger than ten mesh
  - medium gold (mg) - smaller than ten mesh but larger than twenty mesh
  - fine gold (fg) - smaller than twenty mesh but larger than forty mesh
  - very fine gold (vfg) - smaller than forty mesh.
- (f) Examine each sieved portion under a binocular microscope. Take general overall counts on scheelite, barite, arsenopyrite pyrite, hematite and magnetite using the following scale:
- 0 - no mineral grains were observed
  - 1 - trace
  - 2 - low
  - 3 - moderate
  - 4 - high
  - 5 - abundant

Note: Originally cassiterite counts were to be taken but field tests failed to provide any positive results of suspect grains.

3.0 RESULTS

JAMIE #2  
PLACER LEASE 5537

	GOLD	SCHEELITE	BARITE	ARSENOPYRITE	PYRITE	HEMATITE	MAGNETITE
J2-T1 concentrate	72 vfg	1 gr. >10 mesh 3	4	2	2	3	4
J2-T1 tails	0	9 gr. >10 mesh 1	1	0	0	0	1
J2-T2 concentrate	2 fg 68 vfg	8 gr. >20 mesh 3	4	2	2	3	4
J2-T2 tails	0	1	1	0	0	0	1
J2-T3 concentrate	3 fg 81 vfg	14 gr. >20 mesh 3	4	2	2	3	4
J2-T3 tails	0	1	1	0	0	0	1

3.0 RESULTS

GOLD

Coarse Gold	(cg)	-	larger than 10 mesh
Medium Gold	(mg)	-	smaller than 10 mesh but larger than 20 mesh
Fine Gold	(fg)	-	smaller than 20 mesh but larger than 40 mesh
Very Fine Gold	(vfg)	-	smaller than 40 mesh

SCALE

0	-	denotes no mineral grains present
1	-	trace
2	-	low
3	-	moderate
4	-	high
5	-	abundant

**4.0 CONCLUSIONS**

**Conclusions pending Chemex Geochemical Analyses.**

- 8 -  
- APPENDIX I -

JAMIE #2  
Placer Lease 5537

STATEMENT OF DIRECT COSTS

LABOUR

Ken Hansen, Supervisor

\$175.00 per day

July 27 (1.0 day), August 1 (0.5 day)  
3 (1.0 day) 30 (0.2 day) 31 (0.2 day)

Total Days 2.9 x \$175.00 = \$ 507.50

Sean Butler, Geological Assistant

\$125.00 per day

August 3 (1.0 day)

Total Days 1.0 x \$125.00 = \$ 125.00

Bill Mann, Geological Assistant

\$125.00 per day

August 3 (1.0 day) 4 (1.0 day)  
5 (1.0 day)

Total Days 3.0 x \$125.00 = \$ 375.00

Tim Olson

\$85.00 per day

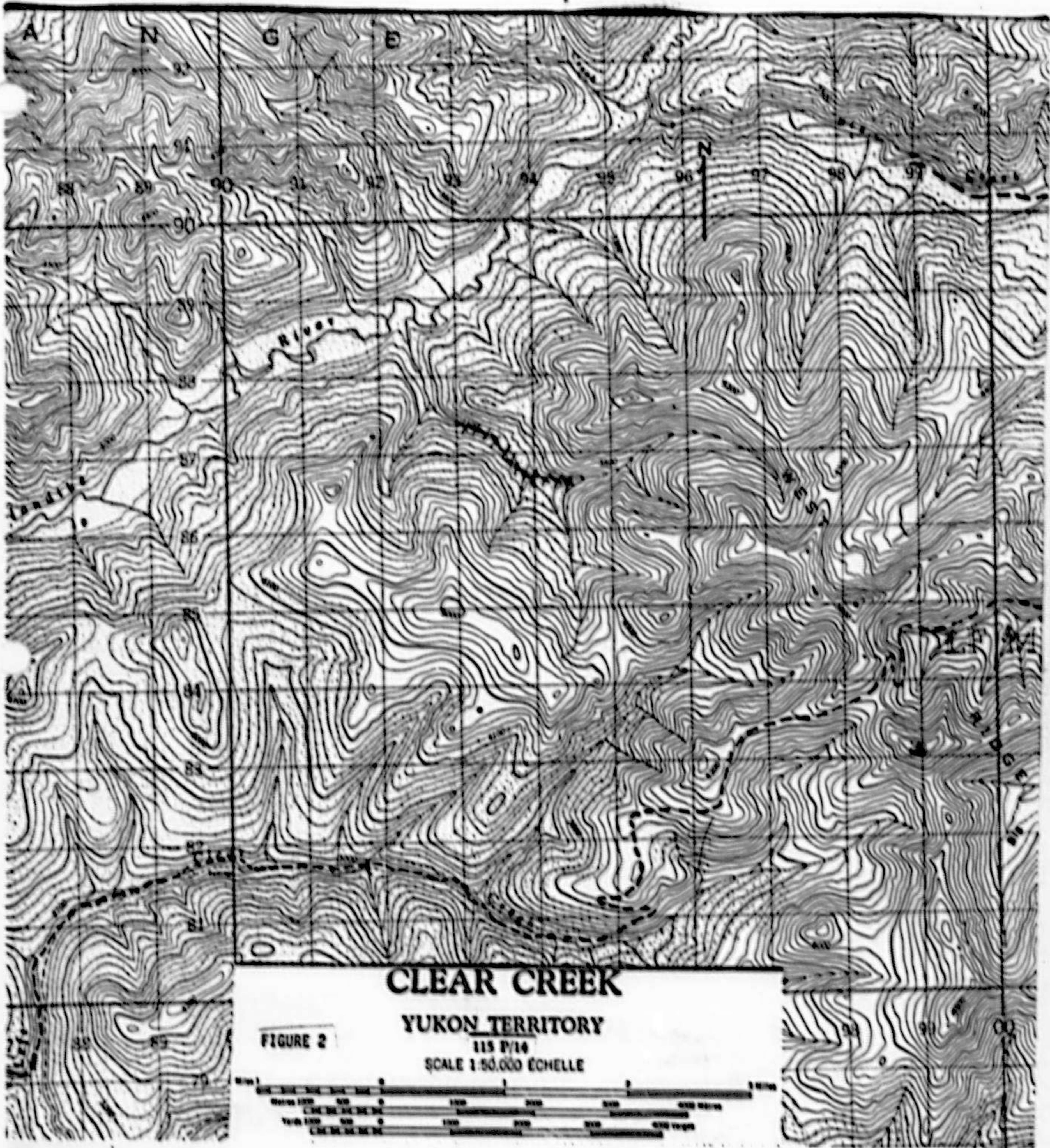
August 4 (1.0 day) 5 (1.0 day)

Total days 2.0 x \$85.00 = \$ 170.00

TOTAL LABOUR \$1,177.50

**DISBURSEMENTS**

Gas \$2.00 per gallon x .5 gallon per day x 3 days =	\$ 3.00
6.8 yds <sup>3</sup> x \$1.52 per yard <sup>3</sup> =	\$ 10.33
Chemex Geochemical Analyses	
Preparation \$0.65 per sample x 6	\$ 3.90
Each sample tested for Gold (\$5.75)	
Tin (\$4.00)	
Tungsten (\$4.00)	
\$19.75 x 6 samples =	\$ 82.50
	<hr/>
<b>TOTAL DISBURSEMENTS</b>	<b>\$ 99.73</b>
	<hr/>
<b>TOTAL COST APPLIED TO ASSESSMENT WORK</b>	<b>\$1,277.23</b>
	<hr/> <hr/>



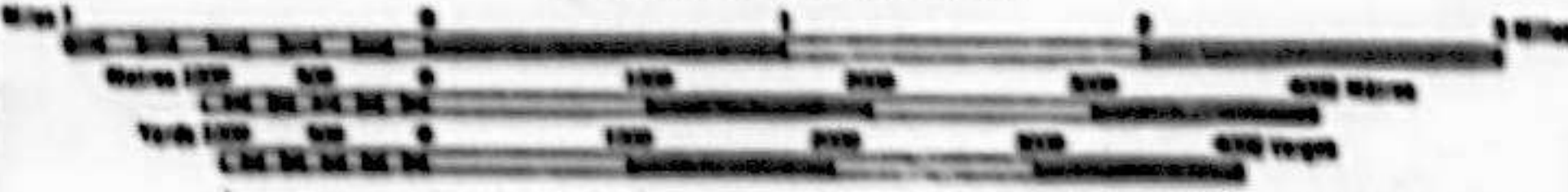
**CLEAR CREEK**

**YUKON TERRITORY**

115 P/16

SCALE 1:50,000 ÉCHELLE

FIGURE 2



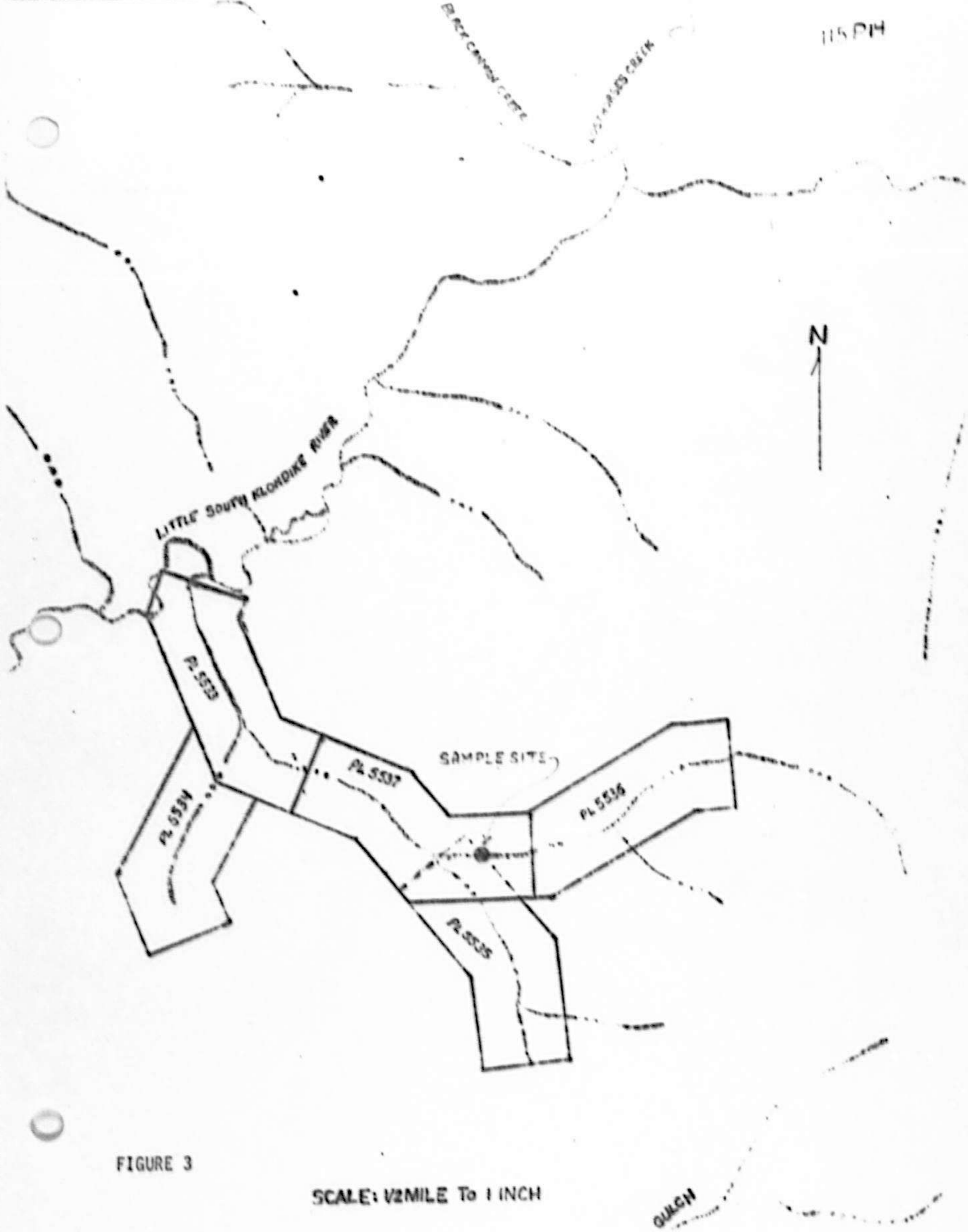
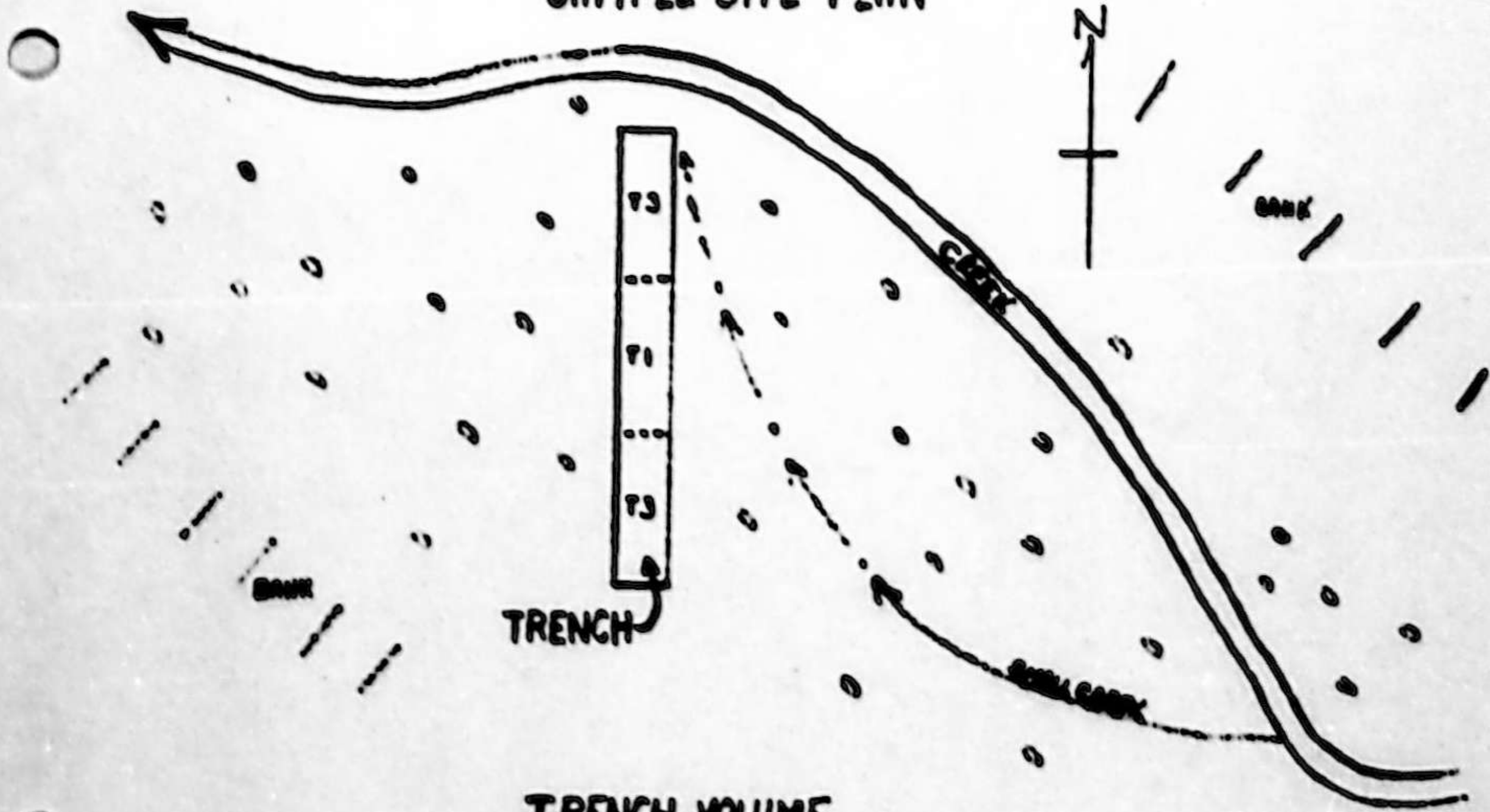


FIGURE 3

SCALE: 1/2 MILE TO 1 INCH

JAMIE 2  
SAMPLE SITE PLAN



TRENCH VOLUME  
 $245' \times 9' \times 2.5' = 1837.5 \div 27 = 68 \text{ YD}^3$

SCALE 1 INCH TO 10 FOOT

TRENCH IS 1075 YARD DOWNSTREAM FROM POST # 1.

FIGURE 4

SLUICE  
(LONGTOM)

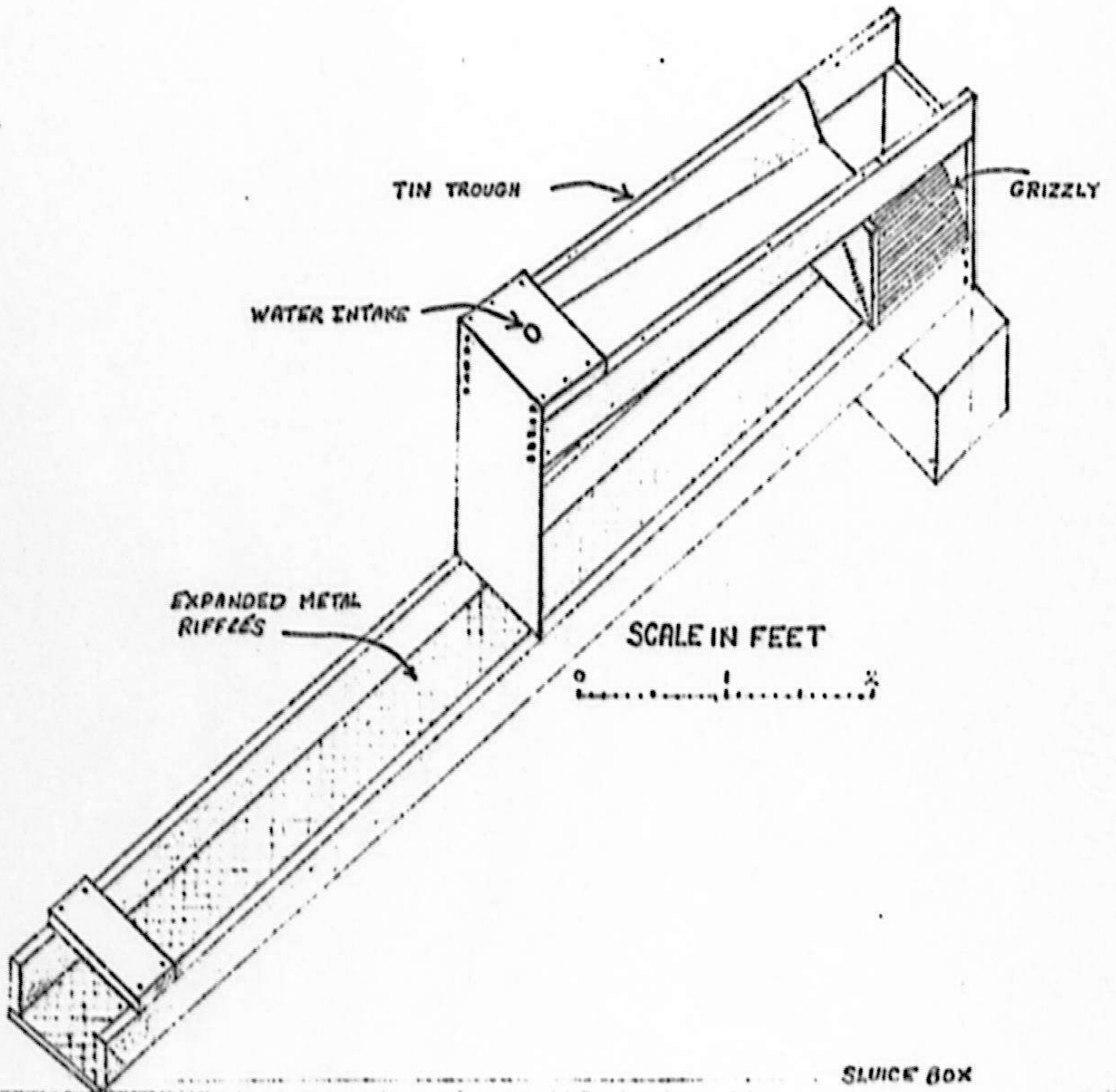


FIGURE 5

PLACER TESTING PROGRAM

JAMIE #3

PLACER LEASE 5536



**PLACER TESTING PROGRAM**

**JANIE #3**

**PLACER LEASE 5536**

**DANSON MINING DIVISION**

**NTS 115 P/14**

**63°53.6' LATITUDE, 137°08.9' LONGITUDE**

**Owned by:**

**CANADA TUNGSTEN MINING CORPORATION LTD.  
Executive Office  
Box 12525, Oceanic Plaza  
Ste. 1600-1066 W. Hastings St.  
Vancouver, B.C. V7E 3X1**

**Work by:**

**BEMA INDUSTRIES LTD.  
19945-56th Avenue  
Langley, B.C. V3A 3Y2**

**KEN HANSEN**

**SEPTEMBER, 1981**

**TABLE OF CONTENTS**

	<u>Page</u>
<b>1.0 Introduction</b>	<b>1</b>
<b>1.1 Location and Access</b>	<b>1</b>
<b>2.0 The Placer Testing Program</b>	<b>2</b>
<b>2.1 Trenching</b>	<b>2</b>
<b>2.2 Hand Excavated Trenches and Pits</b>	<b>2</b>
<b>2.3 Concentration Procedure</b>	<b>2</b>
<b>2.4 Visual Examination</b>	<b>3</b>
<b>3.0 Results</b>	<b>5</b>
<b>4.0 Conclusions</b>	<b>7</b>
<b>Appendix I</b>	<b>8</b>
<b>Figures</b>	

LIST OF FIGURES

FIGURE 1	Location and Access Map	Scale 1:250,000
FIGURE 2	Topography Map	Scale 1:50,000
FIGURE 3	Claim Map	Scale 1 inch to $\frac{1}{2}$ mile
FIGURE 4	Sample Site Plan	Scale 1 inch to 10 feet
FIGURE 5	Sluice (Longtom) Diagram	

APPENDIX

APPENDIX I Statement of Direct Costs

## **PLACER TESTING PROGRAM**

**JAMIE #3**

**PLACER LEASE 5536**

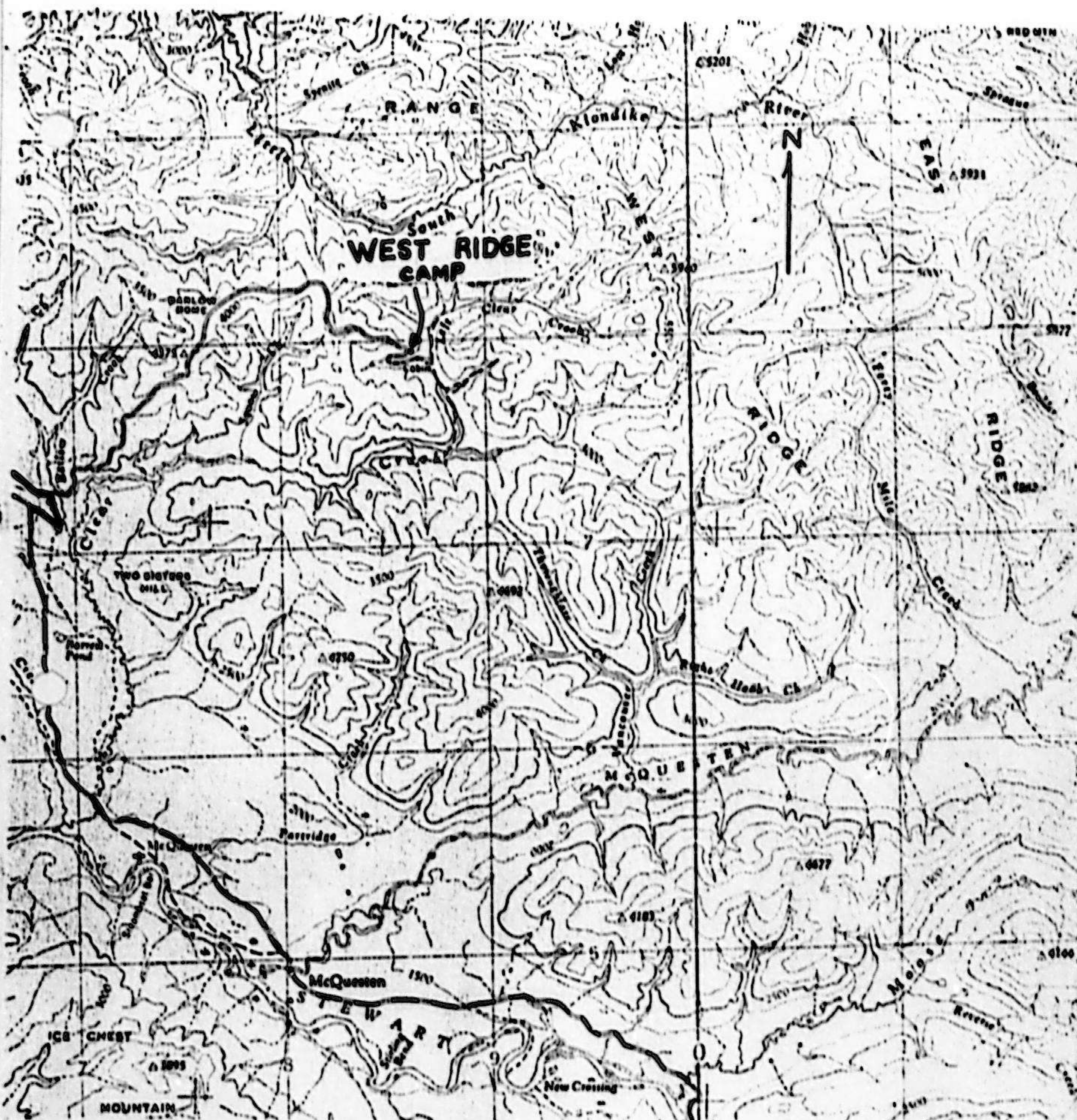
### **1.0 INTRODUCTION**

Bema Industries Ltd. was contracted by Canada Tungsten Mining Corporation Limited to carry out a placer testing program on their thirteen leases in the Clear Creek area. The purpose of the program was to define the heavy mineral potential and to fulfill their assessment requirements for each lease.

### **1.1 LOCATION AND ACCESS**

The West Ridge camp is situated in the Yukon Territory approximately 40 miles northwest of Stewart Crossing (see Fig. 1). Access is by travelling east along the Klondike highway for 47 miles then turn north along the Clear Creek road for 18 miles.

The leases are then accessible by a 4 X 4 road which follows Left Clear Creek. Since the leases are located well off the roadway a Bell 47 was used to reach the leases.



# McQUESTEN

YUKON TERRITORY

115 P

Scale 1:250,000 Échelle

FIGURE 1



Stewart Crossing

## **2.0 THE PLACER TESTING PROGRAM**

The program consisted of trenching, concentration of trenched material, visual examination, assay and geochemical analysis, and calculations of gold, scheelite, and cassiterite values per cubic yard.

### **2.1 TRENCHING**

Two methods of trenching were used depending upon access to the lease. Upon easy access a D7G cat was used to excavate a trench. Where access was not possible by cat a two to three man crew was flown in by a Bell 47 to excavate a trench or test pits.

### **2.2 HAND EXCAVATED TRENCHES AND PITS.**

The hand trenches were dug as deep as possible though all trenches experienced water problems. Therefore the trenches reached a maximum depth of three to five feet. The trenches were dug perpendicular to the active creek.

The trenches were placed in the most favourable locations for heavy mineral concentration, usually below a steep gradient or on the inside curve of a creek.

### **2.3 CONCENTRATION PROCEDURE**

The concentration process involves running all material from the hand dug trench through a small sluice.

Large rocks which were part of the sample were washed in a tub, then the residual material run through the sluice. After each sluice clean up a one half to one cubic foot concentrate was taken.

The sluice material was panned to approximately an eight and one half ounce concentrate. This final concentrate was dried for visual inspection.

The small sluice or longtom (see Fig. 5) consisted of a pump, trough, grizzly, and sluice box. A Monark pump was used to supply water at 70 gallons per minute. The grizzly was setup at a forty-five degree angle with one quarter inch by eight inch slotted openings. The oversize gravel was rejected off the side of the grizzly.

- (a) The water flows through the four foot trough.
- (b) The gravel is placed in the trough.
- (c) It is washed and self-fed at a constant rate over the grizzly.
- (d) The sized gravel goes in an eight foot by eight inch sluice. The bottom of the sluice has a layer of rubber matting, and on top of this three quarter inch expanded metal.
- (e) Panning: the panning of the sluice concentrates were done at base camp. Each sample was panned twice. The final concentrates were placed on trays to dry. An eight ounce panning tails sample was taken for geochemical analysis to ensure accuracy.

#### 2.4 VISUAL EXAMINATION

The visual examination procedure is as follows:

- (a) Dry panned, concentrate and tails.
- (b) Weigh concentrate and tails.
- (c) Sieve dried concentrate using a ten and twenty mesh screen (Tyler series).
- (d) Take counts on scheelite grains larger than twenty mesh with the aid of an ultraviolet lamp; at the same time note the presence of barite.

- (e) Take counts on gold using the following scale:
- coarse gold (cg) - larger than ten mesh
  - medium gold (mg) - smaller than ten mesh but larger than twenty mesh
  - fine gold (fg) - smaller than twenty mesh but larger than forty mesh
  - very fine gold (vfg) - smaller than forty mesh.
- (f) Examine each sieved portion under a binocular microscope. Take general overall counts on scheelite, barite, arsenopyrite, pyrite, hematite and magnetite using the following scale:
- 0 - no mineral grains were observed
  - 1 - trace
  - 2 - low
  - 3 - moderate
  - 4 - high
  - 5 - abundant

Note: Originally cassiterite counts were to be taken but field tests failed to provide any positive results of suspect grains.

3.0 RESULTS

JAMIE #3  
PLACER LEASE 5536

	GOLD	SCHEELITE	BARITE	ARSENOPYRITE	PYRITE	HEMATITE	MAGNETITE
J3-T1 concentrate	8 vfg	1 gr. > 10 mesh 3	3	4	5	2	3
J3-T1 tails	0	1	1	0	0	0	1
J3-T2 concentrate	10 vfg	1 gr. > 20 mesh 3	3	5	5	3	3
J3-T2 tails	0	1	1	0	0	0	1
J3-T3 concentrate	4 vfg	1 gr. > 20 mesh 3	3	4	4	2	4
J3-T3 tails	0	1	1	0	0	0	1
J3-T4 concentrate	8 vfg	3	3	3	3	2	3
J3-T4 tails	0	1	1	0	0	0	1
J3-T5 concentrate	10 vfg	3	3	3	4	2	3
J3-T5 tails	0	1	1	0	0	0	1

**3.0 RESULTS**

**GOLD**

<b>Coarse Gold</b>	<b>(cg)</b>	<b>-</b>	<b>larger than 10 mesh</b>
<b>Medium Gold</b>	<b>(mg)</b>	<b>-</b>	<b>smaller than 10 mesh but larger than 20 mesh</b>
<b>Fine Gold</b>	<b>(fg)</b>	<b>-</b>	<b>smaller than 20 mesh but larger than 40 mesh</b>
<b>Very Fine Gold</b>	<b>(vfg)</b>	<b>-</b>	<b>smaller than 40 mesh</b>

**SCALE**

<b>0</b>	<b>-</b>	<b>denotes no mineral grains present</b>
<b>1</b>	<b>-</b>	<b>trace</b>
<b>2</b>	<b>-</b>	<b>low</b>
<b>3</b>	<b>-</b>	<b>moderate</b>
<b>4</b>	<b>-</b>	<b>high</b>
<b>5</b>	<b>-</b>	<b>abundant</b>

4.0 CONCLUSIONS

Conclusions pending Chemex Geochemical Analyses.

- APPENDIX I -

JAMIE #3  
PLACER LEASE 5536

STATEMENT OF DIRECT COSTS

LABOUR

Ken Hansen, Supervisor

\$175.00 per day

July 2 (0.25 day) 22 (1.0 day)  
23 (1.0 day) 30 (0.2 day)  
31 (0.2 day)

Total Days 2.65 x \$175.00 = \$463.75

Ian Sturrock, Field Technician

\$125.00 per day

July 21 (0.25 day) 22 (1.0 day)  
23 (1.0 day) 24 (1.0 day)

Total Days 3.25 x \$125.00 = \$406.25

Mike Wylie, Field Technician

\$125.00 per day

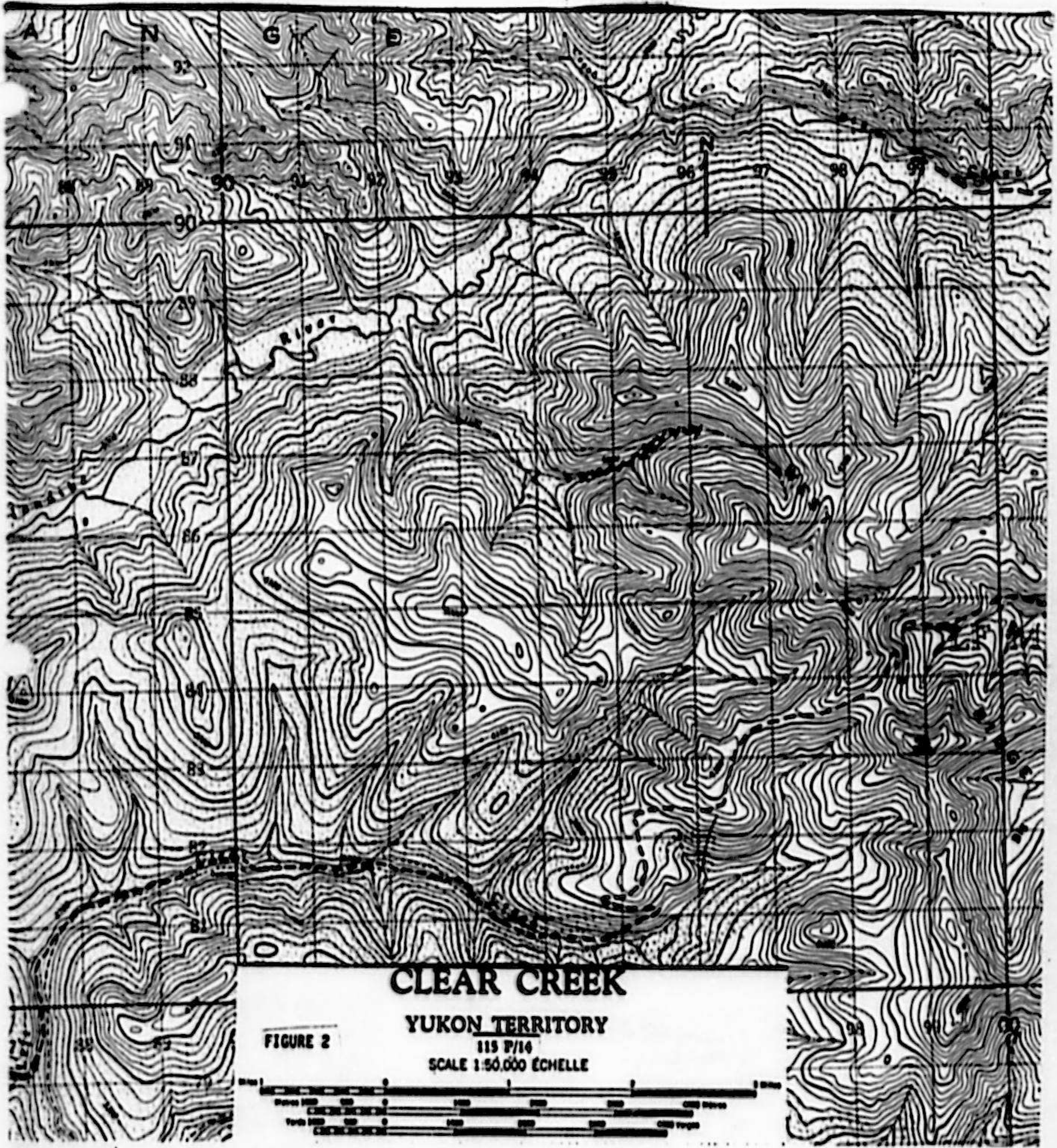
July 24 (1.0 day)

Total Days 1.0 x \$125.00 = \$125.00

TOTAL LABOUR \$995.00

**DISBURSEMENTS**

Gas \$2.00 per gallon x .5 gallon per day X 3 days =	\$ 3.00
6.5 yds <sup>3</sup> X \$1.52 per yard <sup>3</sup> =	\$ 9.88
Chemex Geochemical Analyses	
Preparation \$0.65 per sample X 6 =	\$ 3.90
Each sample tested for Gold (\$5.75)	
Tin (\$4.00)	
Tungsten (\$4.00)	
\$13.75 X 6 samples =	\$ 82.50
	<hr/>
<b>TOTAL DISBURSEMENTS</b>	<b>\$ 99.28</b>
<b>TOTAL COST APPLIED TO ASSESSMENT WORK</b>	<b>\$1,094.28</b>
	<hr/> <hr/>



**CLEAR CREEK**

**YUKON TERRITORY**

115 P/14

SCALE 1:50,000 ÉCHELLE

**FIGURE 2**



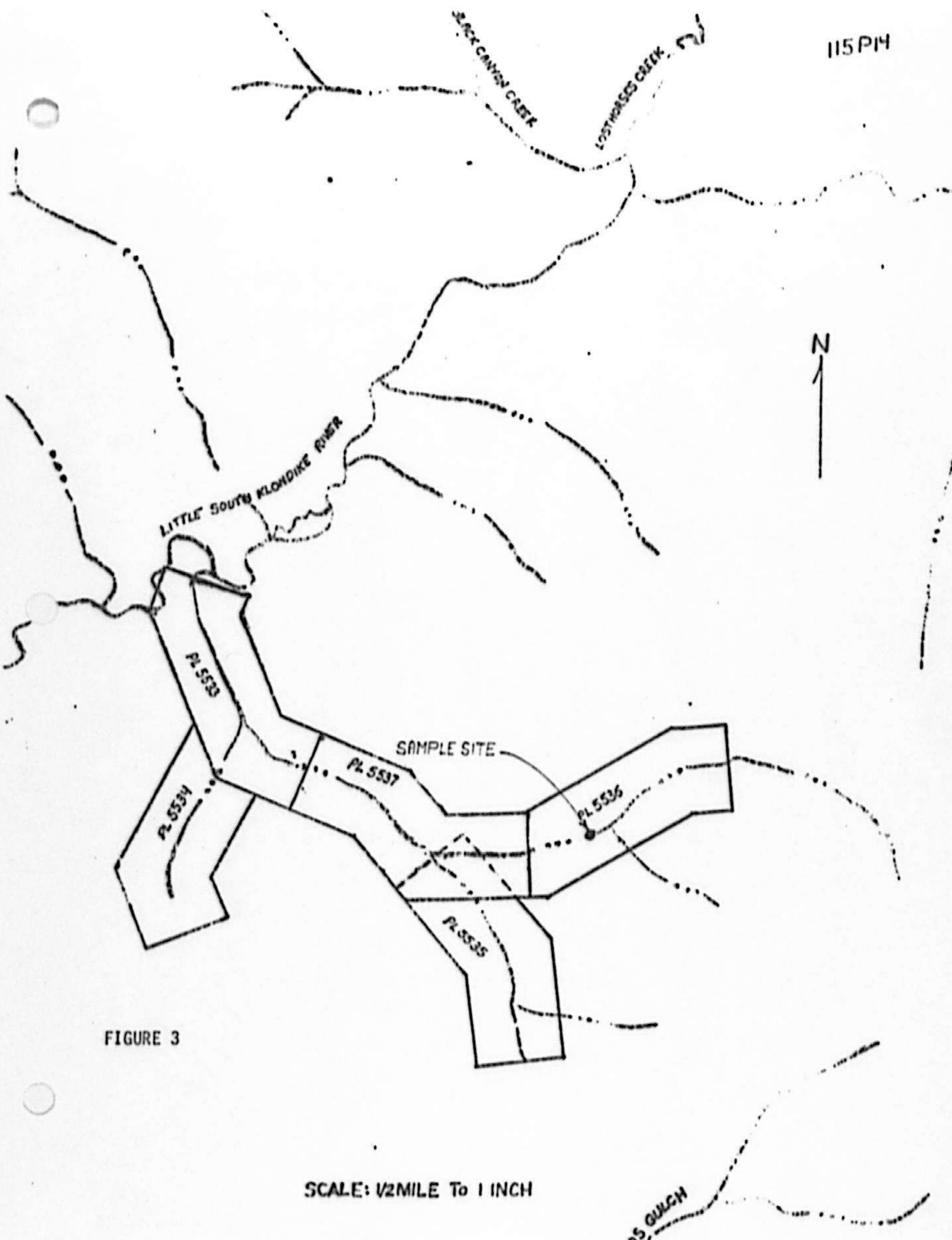
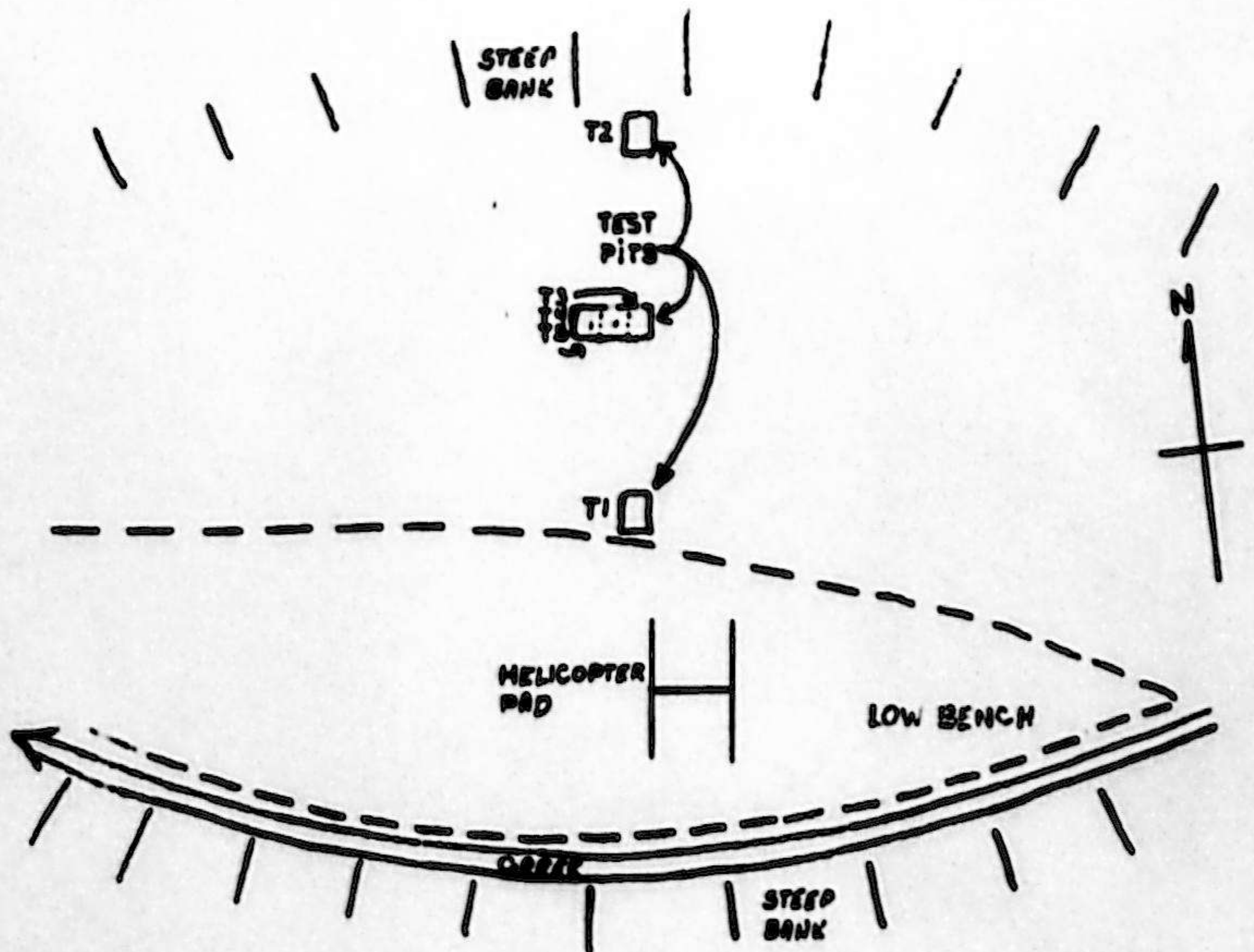


FIGURE 3

SCALE: 1/2 MILE TO 1 INCH

# JAMIE 3 SAMPLE SITE PLAN



**PIT VOLUMES**

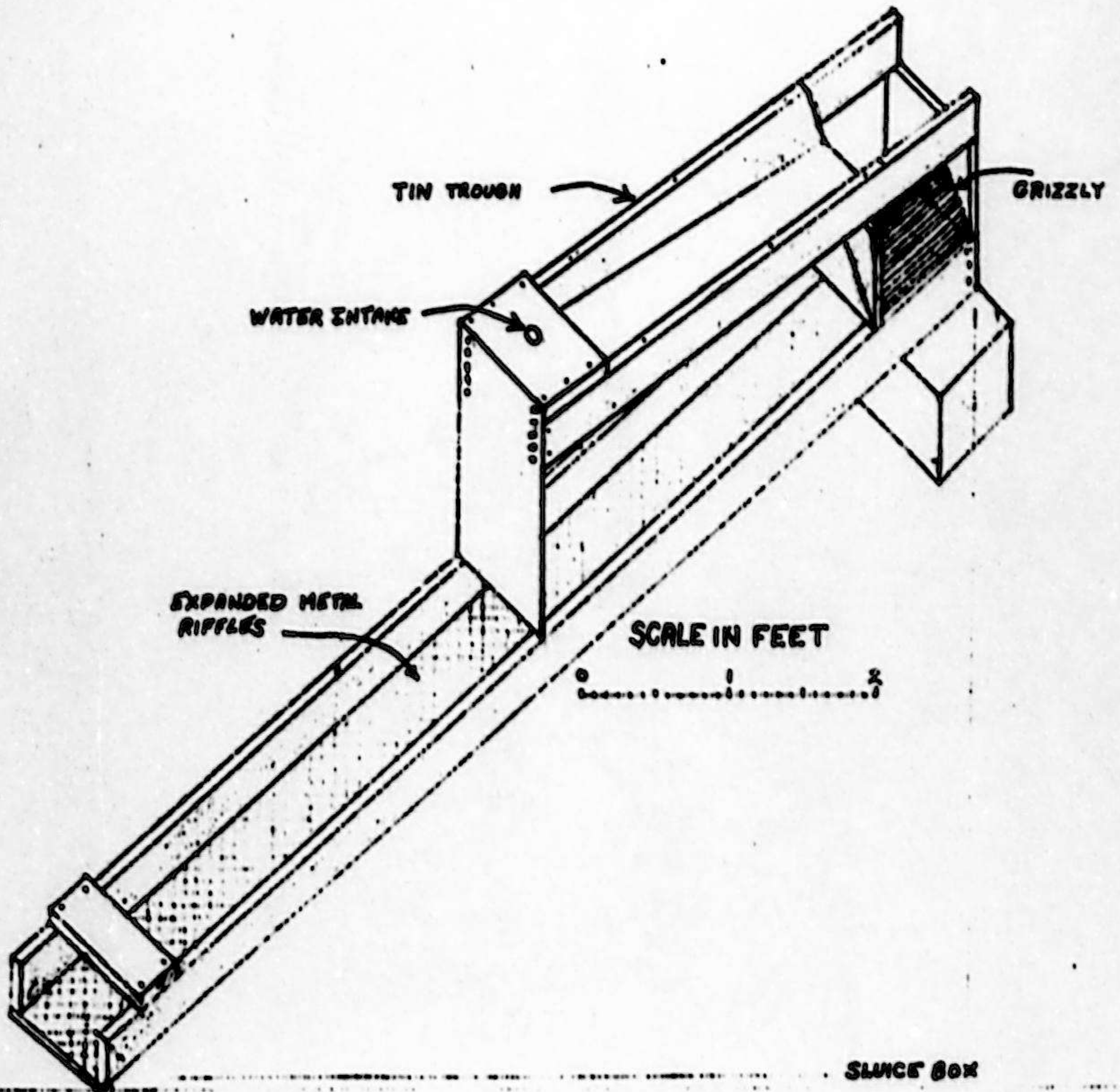
T1	$4' \times 3' \times 2.1' = 25.2'³ + 27'³ = 0.9 \text{ YD}³$
T2	$35' \times 25' \times 2.3' = 20'³ + 27'³ = 0.7 \text{ YD}³$
T 3,4,5	$8' \times 5' \times 33' = 123'³ \div 27'³ = 4.9 \text{ YD}³$
	<b>TOTAL 6.5 YD³</b>

SCALE 1 INCH TO 20 FEET

SITE IS 290 YARDS UPSTREAM FROM POST #1.

FIGURE 4

**SLUCE  
(LONGTOM)**



**FIGURE 5**



PLACER TESTING PROGRAM  
JAMIE #4  
PLACER LEASE 5534

DAWSON MINING DIVISION  
NTS 115 P/14  
63°53.8' LATITUDE 137°11.7' LONGITUDE

OWNED BY,

CANADA TUNGSTEN MINING CORPORATION LTD.  
EXECUTIVE OFFICE  
BOX 12525 OCEANIC PLAZA  
STE. 1600-1066 W. HASTINGS ST.  
VANCOUVER B.C. V6E-3X1

WORK BY:

BEMA INDUSTRIES LTD  
#203-19945-56<sup>th</sup> AVENUE  
LANGLEY B.C. V3A-3Y2

KEN HANSEN  
SEPT 1981

## 1.0 INTRODUCTION

BEMA INDUSTRIES LIMITED WAS CONTRACTED BY CANADA TUNGSTEN MINING CORPORATION LIMITED TO CARRY OUT A PLACER TESTING PROGRAM ON THEIR THIRTEEN LEASES IN THE CLEAR CREEK AREA. THE PURPOSE OF THE PROGRAM WAS TO DEFINE THE HEAVY MINERAL POTENTIAL AND TO FULFILL THEIR ASSESSMENT REQUIREMENTS FOR EACH LEASE. THIS REPORT COVERS PLACER LEASE 5534 (JAMIE 4).

## TABLE OF CONTENTS

1.0 INTRODUCTION	
2.0 LOCATION AND ACCESS	PAGE 1
3.0 THE PLAKER TESTING PROGRAM	PAGE 1
3.1 PANNING TRAVERSE PROCEDURE	PAGE 2
3.2 OBSERVATIONS	PAGE 2
3.3 VISUAL EXAMINATION	PAGE 3
4.0 CONCLUSIONS AND RECOMMENDATIONS	PAGE 4
5.0 VISUAL EXAMINATION RESULTS	PAGE 5

## LIST OF FIGURES

FIGURE 1	LOCATION AND ACCESS MAP	SCALE 1:250,000
FIGURE 2	TOPOGRAPHY MAP	SCALE 1:50,000
FIGURE 3	CLAIM MAP	SCALE 1 INCH = 1/2 MILE
FIGURE 4	SLUICE (LONGSTON) DIAGRAM	
APPENDIX 1	DIRECT COSTS SHEET	

## 2.0 LOCATION AND ACCESS

THE WEST RIDGE CAMP IS SITUATED IN THE YUKON TERRITORY APPROXIMATELY 40 MILES NORTHWEST OF STEWART CROSSING. (SEE FIGURE #1). ACCESS IS BY TRAVELLING EAST ALONG THE KLONDIKE HIGHWAY FOR 47 MILES THEN TURN NORTH ALONG THE CLEAR CREEK ROAD FOR 18 MILES.

THE LEASES ARE THEN ACCESSIBLE BY A 4x4 ROAD WHICH FOLLOWS LEFT CLEAR CREEK. SINCE THE LEASES ARE LOCATED WELL OFF THE ROAD-WAY A DILL 47 WAS USED TO REACH THE LEASES.

## 3.0 THE PLACER TESTING PROGRAM

THE PROGRAM CONSISTED OF TRENCHING, CONCENTRATION, OF TRENCHED MATERIAL, VISUAL EXAMINATION, ASSAY AND GEOCHEMICAL ANALYSIS, AND CALCULATIONS OF GOLD, SCHEELITE, AND CASSITERITE VALUES PER CUBIC YARD.

... DUE TO PROBLEMS WITH THE SAMPLE SITE, ON THE SECOND DAY A PANNING TRAVERS WAS ADOPTED. THE PANNING TRAVERS TAKES THE PLACE OF TRENCHING AND CONCENTRATION OF TRENCHED MATERIAL.

### 3.1 PANNING TRAVERSE PROCEDURE

THE PANNING TRAVERSE AND PROCEDURE AS FOLLOWS:

- ① THE CREEK WAS SURVEYED INTO 100 METER SAMPLE SITES WITHIN THE LEASE.
- ② AT EACH SAMPLE SITE TWO PANS OF MATERIAL WAS COLLECTED.
- ③ EACH 16" PAN WAS FILLED TO THE TOP, THEN DUMPED INTO A BUCKET
- ④ THE MATERIAL WAS THEN PANNED SO THAT ANY HEAVYS COULD BE EASILY OBSERVED

### 3.2 OBSERVATIONS

THE FOLLOWING OBSERVATIONS WERE MADE WHILE WORKING ON THE LEASE:

- ① NO REAL WATE WORN GRAVELS WERE FOUND, ONLY ANGULAR TO SUB-ANGULAR ROCK (BOULDERS) AND SILT. ALL OF LOCAL NATURE.
- ② THE CREEK FLOWS UNDERGROUND IN MANY LOCATIONS, THOU A SURFACE CREEK CAN BE FOLLOWED THE ENTIRE LENGTH
- ③ THE CREEK HAS AN AVERAGE GRADIENT OF 8%.
- ④ PANNING MATERIAL WAS DIFFICULT TO FIND. THE ONLY RELIABLE SOURCE WAS TO COLLECT THE SAND AND MAINLY SILT FROM UNDER THE CREEK MOSS.
- ⑤ THE SLUICE SAMPLE SITES PROVED TO HAVE BED-ROCK AND FRACTURED BED ROCK TO THE SURFACE.

WITHIN 10 FEET OF THE CREEK. THE WATER BOARD PROHIBITS US TO SLUICE SAMPLE WITHIN 25 FEET OF THE CREEK SO THE SITE WAS REJECTED AFTER ONE DAY.

- (E) THE SLUICE TESTED MATERIAL HAD ONLY TRACE AMOUNTS OF BLACKSAND.
- (G) NO GOLD WAS FOUND WHILE PANNING TRIBUTARIES AND SEEPS WITHIN THE LEASE ON THE 5<sup>TH</sup> OF AUGUST.

### 3.3 VISUAL EXAMINATION

THE VISUAL EXAMINATION PROCEDURE IS AS FOLLOWS:

- (A) DRY PANNED CONCENTRATE AND TAILS
- (B) WEIGH CONCENTRATE.
- (C) SIEVE DRIED CONCENTRATE USING A TEN AND TWENTY MESH SCREEN (TYLER SERIES).
- (D) TAKE COUNTS OF SCHEELITE GRAIN LARGER THAN TWENTY MESH WITH THE AID OF AN ULTRAVIOLET LAMP, AT THE SAME TIME NOTE THE PRESENCE OF BARITE.
- (E) TAKE COUNTS ON GOLD USING THE FOLLOWING SCALE:
  - COARSE GOLD (CG) - LARGER THAN 10 MESH.
  - MEDIUM GOLD (MG) - SMALLER THAN 10 MESH BUT LARGER THAN 20 MESH.
  - FINE GOLD (FG) - SMALLER THAN 20 MESH BUT LARGER THAN 40 MESH.
  - VERY FINE GOLD (VFG) - SMALLER THAN 40 MESH.
- (F) EXAMINE EACH SIEVED PORTION UNDER A BINOCULAR MICROSCOPE. TAKE GENERAL OVERALL COUNTS ON SCHEELITE, BARITE, ARSENOPYRITE, PYRITE, HEMITITE AND MAGNETITE USING THE FOLLOWING SCALE:

- 0 - NO MINERAL GRAINS WERE OBSERVED
- 1 - TRACE
- 2 - LOW
- 3 - MODERATE
- 4 - HIGH
- 5 - ABUNDANT

NOTE: ORIGINALLY CASSERITE COUNTS WERE TO BE TAKE BUT FIELD TESTS FAILED TO PROVIDE ANY POSITIVE RESULTS OF SUSPECT GRAINS.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS AND RECOMMENDATIONS PENDING GEOCHEMICAL RESULTS.

5.0 VISUAL EXAMINATION RESULTS

SAMPLE NUMBER	GOLD	SCHWEELITE	BARITE	ARSENOPYRITE	PYRITE	HEMITITE	MAGNETITE
J5-1	0	1	1	0	0	0	1
J5-2	0	1	1	0	0	0	1
J5-3	0	1	1	0	0	0	1
J5-4	0	1	1	0	0	0	1
J5-5	0	1	1	0	0	0	1
J5-6	0	1	1	0	0	0	1
J5-7	0	1	1	0	0	0	1
J5-8	0	1	1	0	0	0	1
J5-9	0	1	1	0	0	0	1
J5-10	0	1	1	0	0	0	1
J5-11	0	1	1	0	0	0	1
J5-12	0	1	1	0	0	0	1
J5-13	0	1	1	0	0	0	1

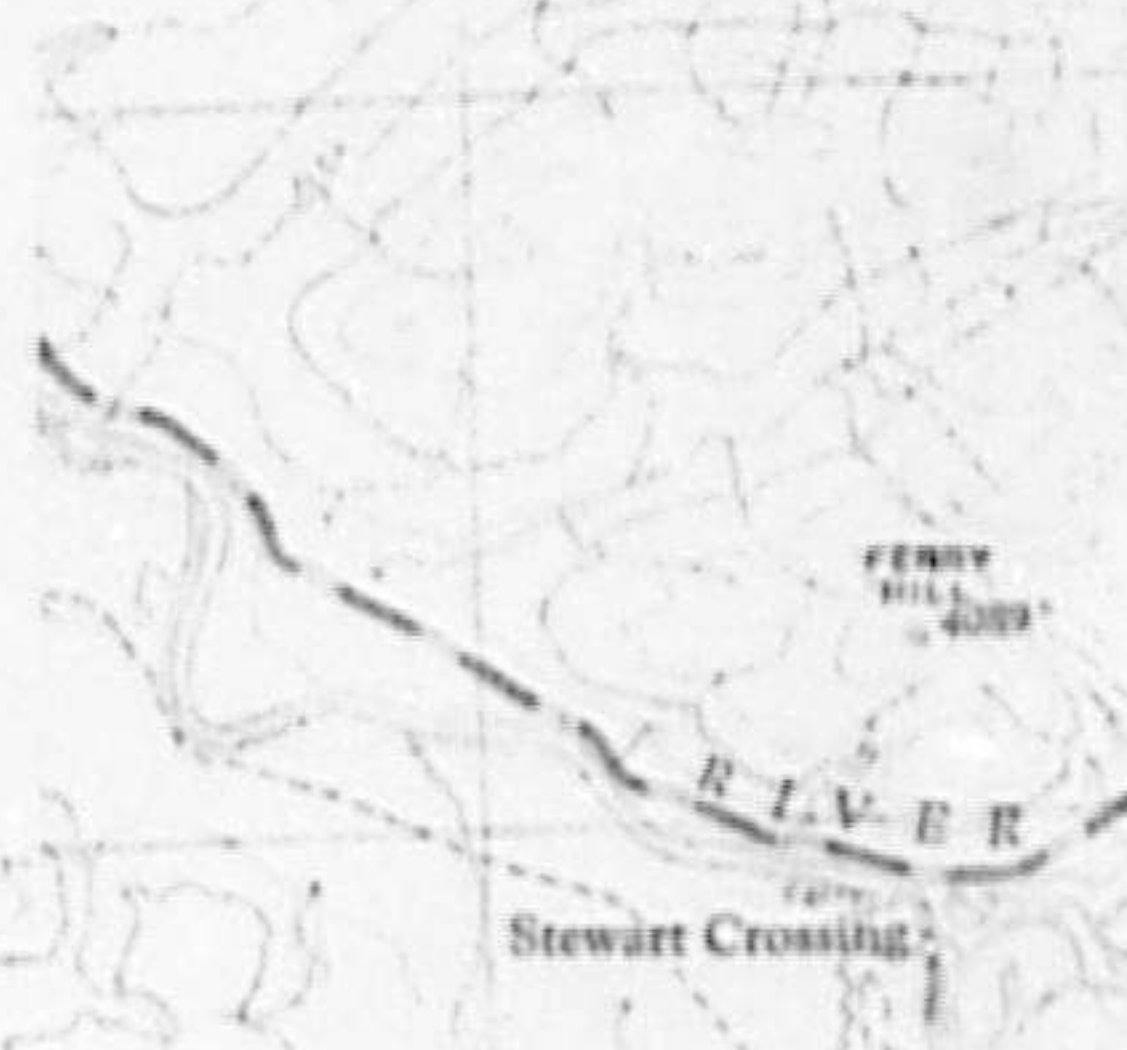
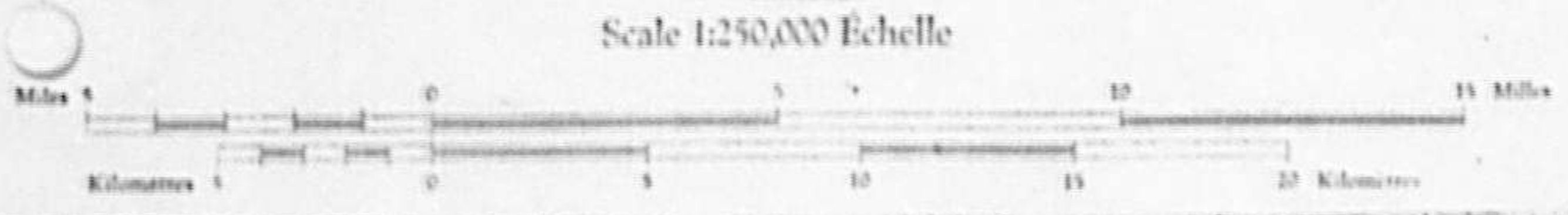
## SCALE

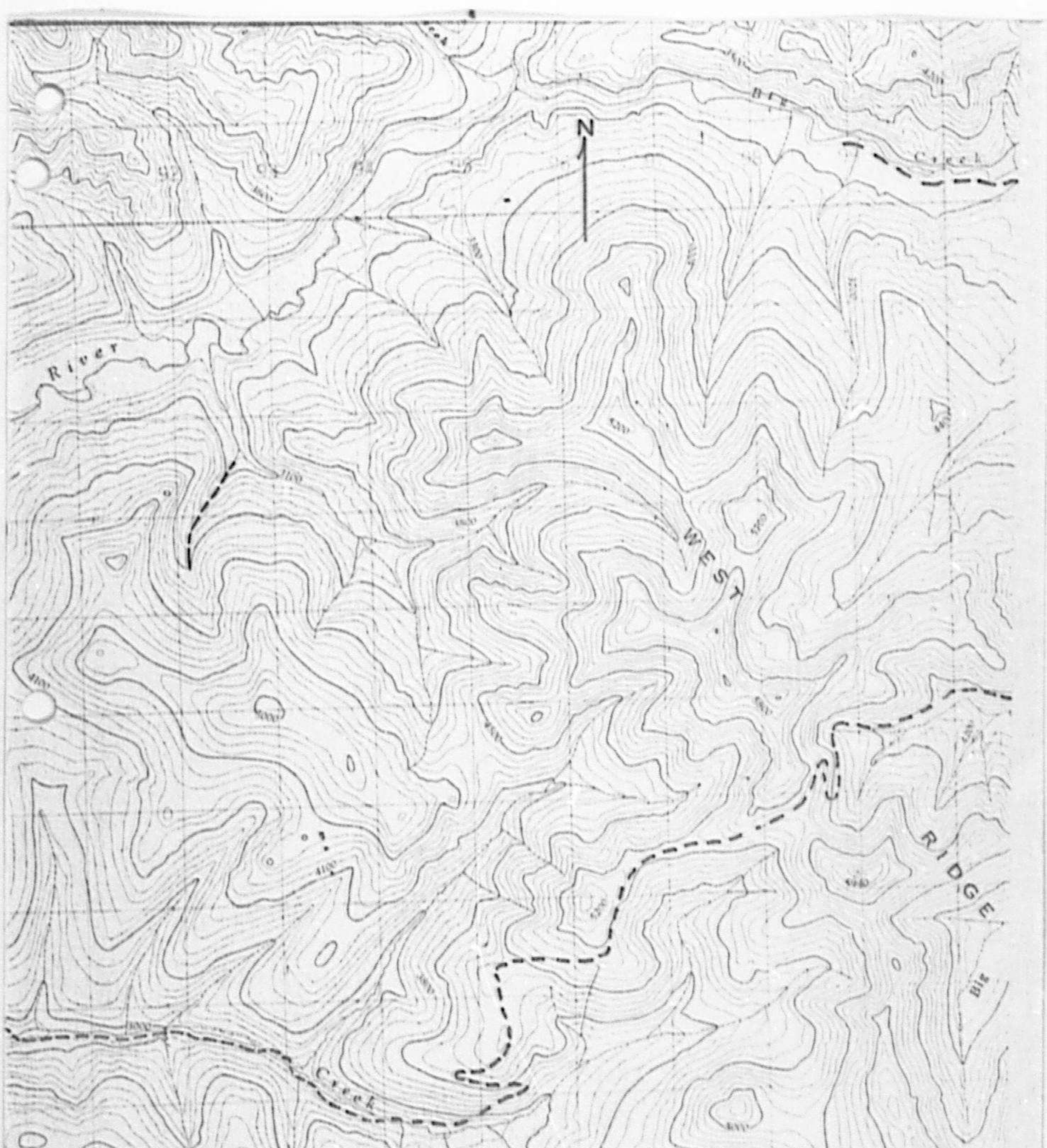
- 0 - NO MINERAL GRAINS PRESENT
- 1 - TRACE
- 2 - LOW
- 3 - MODERATE
- 4 - HIGH
- 5 - ABUNDANT



**McQUESTEN** *FIGURE #1*  
 YUKON TERRITORY  
 115 P

Scale 1:250,000 Echelle



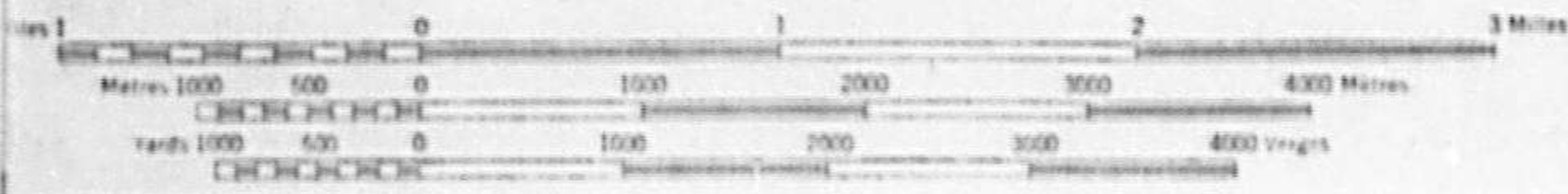


# CLEAR CREEK *FIGURE 2*

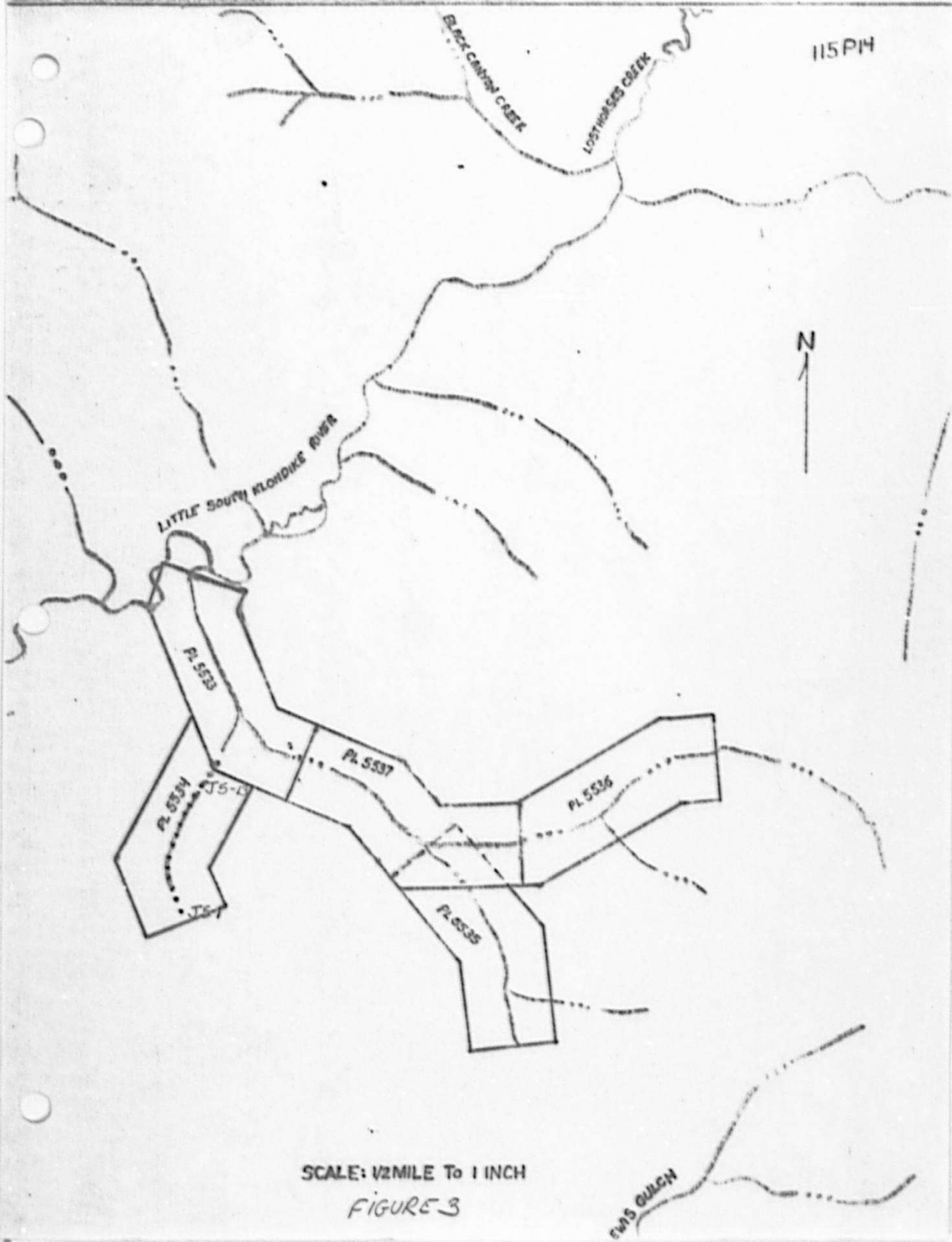
YUKON TERRITORY

115 P/14

SCALE 1:50,000 ÉCHELLE



115PH

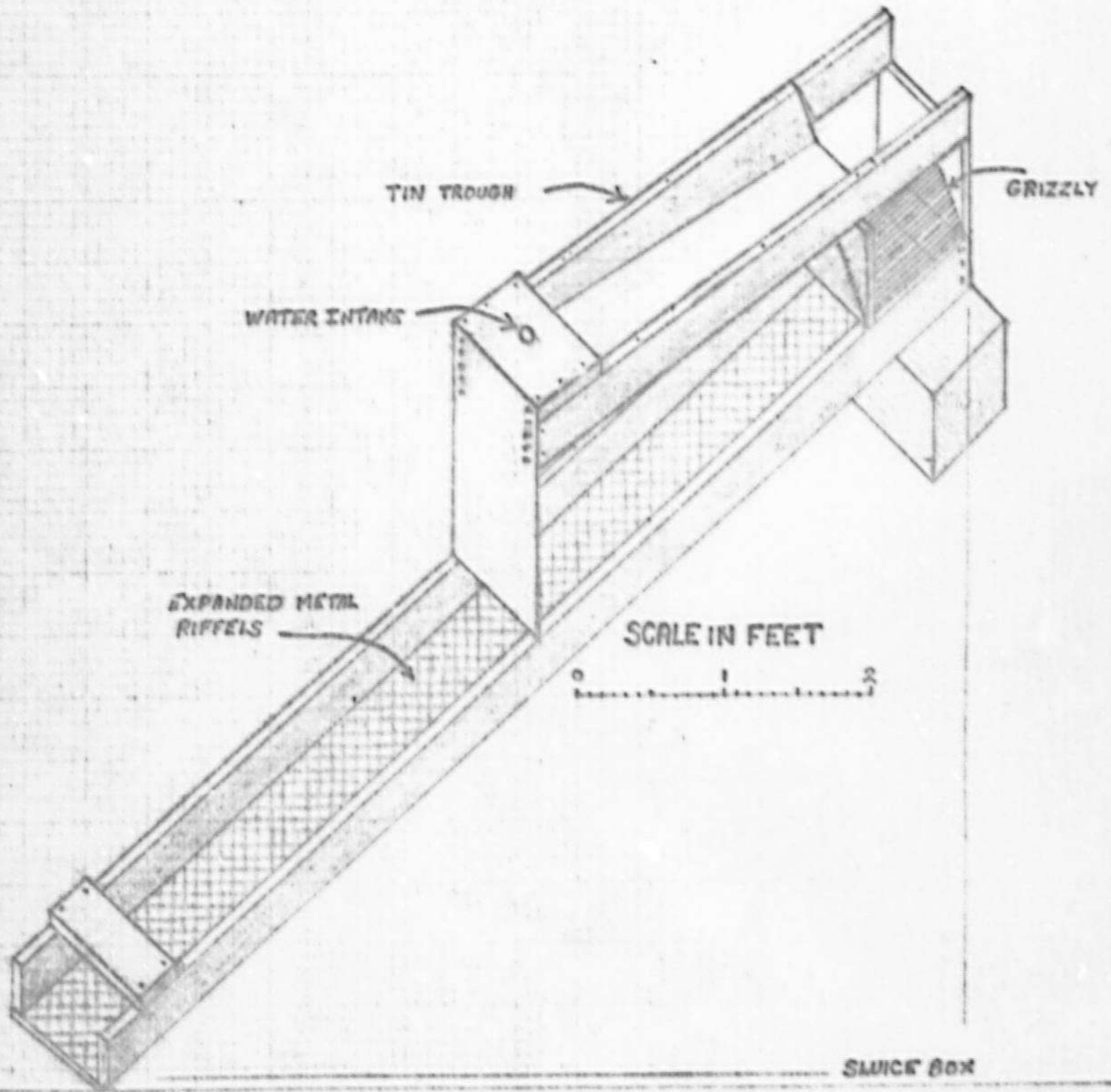


SCALE: 1/2 MILE TO 1 INCH

FIGURE 3

SWAN GULCH

SLUICE  
(LONGTOM)



NOTE THIS SLUICE AND A 1" MONARCH PUMP WAS USED ON THE FIRST DAY OF SAMPLING

FIGURE 4

JAMIE #4  
STATEMENT OF DIRECT COSTS  
PLACER LEASE 5534

LABOUR

KEN HANSEN \$175.00/DAY JULY 21 (.25 DAY), 28 (1.0 DAY), 29 (1.0 DAY)  
SUPERVISOR AUGUST 5 (1.0 DAY)  
TOTAL DAYS 3.25 x \$175 = \$568.75  
\$568.75

IAN STURROCK \$125.00/DAY JULY 21 (.25 DAY), 28 (1.0 DAY), 29 (1.0 DAY) +  
FIELD TECH 30 (1.0 DAY).  
TOTAL DAYS 3.25 x \$125.00 = \$406.25  
\$406.25

MIKE WILEY \$125.00/DAY JULY 30 (1.0 DAY).  
FIELD TECH TOTAL DAYS 1 x \$125.00 = \$125.00  
\$125.00

TOTAL LABOUR \$1,100.00

DISBURSEMENTS

CHEMEX GEOCHEMICAL ANALYSES  
PREPERATION \$6.85 EACH SAMPLE x 4 SAMPLES = \$27.40  
EACH SAMPLE TESTED FOR GOLD (\$5.75), TIN (\$4.00) + TUNGSTEN (\$4.00).  
TOTAL \$13.75 x 4 SAMPLES = \$55.00  
TOTAL DISBURSEMENTS \$57.60

TOTAL COST APPLIED TO ASSEMENT WORK \$1,156.60

PLACER TESTING PROGRAM

JAMIE #5

PLACER LEASE 5535



PLACER TESTING PROGRAM

JAMIE #5

PLACER LEASE 5535

DAWSON MINING DIVISION

NTS 115 P/14

63°53.1' LATITUDE, 137°09' LONGITUDE

Owned by:

CANADA TUNGSTEN MINING CORPORATION LTD.  
Executive Office  
Box 12525, Oceanic Plaza  
Ste. 1600-1066 W. Hastings St.  
Vancouver, B.C. V6E 3X1

Work by:

BEMA INDUSTRIES LTD.  
19945-56th Avenue  
Langley, B.C. V3A 3Y2

KEN HANSEN

SEPTEMBER, 1981

TABLE OF CONTENTS

	<u>Page</u>
1.0 Introduction	1
1.1 Location and Access	1
2.0 The Placer Testing Program	2
2.1 Trenching	2
2.2 Hand Excavated Trenches and Pits	2
2.3 Concentration Procedure	2
2.4 Visual Examination	3
3.0 Results	5
4.0 Conclusions	7
Appendix I	8
Figures	

LIST OF FIGURES

FIGURE 1	Location and Access Map	Scale 1:250,000
FIGURE 2	Topography Map	Scale 1:50,000
FIGURE 3	Claim Map	Scale 1 inch to ½ mile
FIGURE 4	Sample Site Plan	Scale 1 inch to 10 feet
FIGURE 5	Sluice (Longtom) Diagram	

APPENDIX

APPENDIX I Statement of Direct Costs

## PLACER TESTING PROGRAM

JAMIE #5

PLACER LEASE 5535

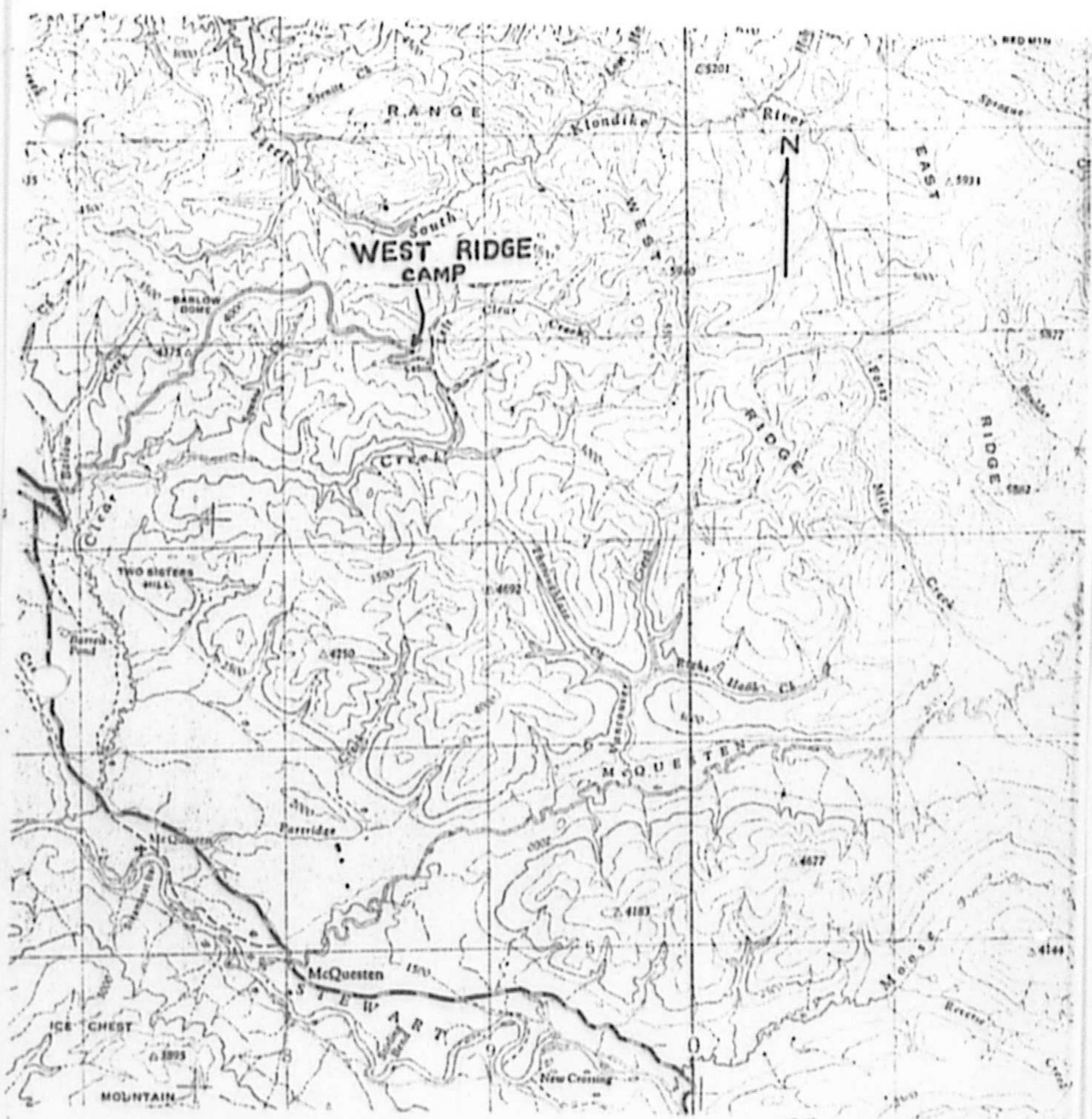
### 1.0 INTRODUCTION

Bema Industries Ltd. was contracted by Canada Tungsten Mining Corporation Limited to carry out a placer testing program on their thirteen leases in the Clear Creek area. The purpose of the program was to define the heavy mineral potential and to fulfill their assessment requirements for each lease.

### 1.1 LOCATION AND ACCESS

The West Ridge camp is situated in the Yukon Territory approximately 40 miles northwest of Stewart Crossing (see Fig. 1). Access is by travelling east along the Klondike highway for 47 miles then turn north along the Clear Creek road for 18 miles.

The leases are then accessible by a 4 X 4 road which follows Left Clear Creek. Since the leases are located well off the roadway a Bell 47 was used to reach the leases.

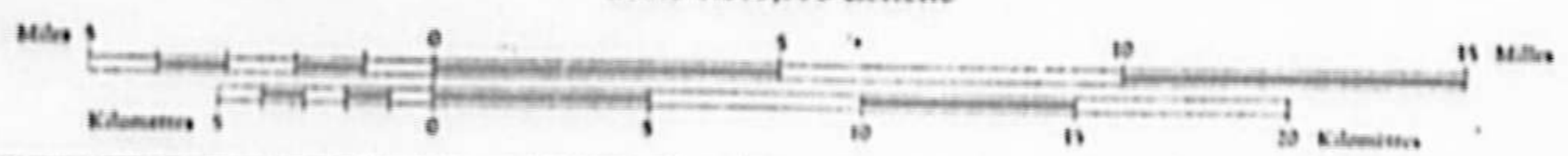


**McQUESTEN**  
**YUKON TERRITORY**

115 P

Scale 1:250,000 Échelle

FIGURE 1



Stewart Crossing

## 2.0 THE PLACER TESTING PROGRAM

The program consisted of trenching, concentration of trenched material, visual examination, assay and geochemical analysis, and calculations of gold, scheelite, and cassiterite values per cubic yard.

### 2.1 TRENCHING

Two methods of trenching were used depending upon access to the lease. Upon easy access a D7G cat was used to excavate a trench. Where access was not possible by cat a two to three man crew was flown in by a Bell 47 to excavate a trench or test pits.

### 2.2 HAND EXCAVATED TRENCHES AND PITS

The hand trenches were dug as deep as possible though all trenches experienced water problems. Therefore the trenches reached a maximum depth of three to five feet. The trenches were dug perpendicular to the active creek.

The trenches were placed in the most favourable locations for heavy mineral concentration, usually below a steep gradient or on the inside curve of a creek.

### 2.3 CONCENTRATION PROCEDURE

The concentration process involves running all material from the hand dug trench through a small sluice.

Large rocks which were part of the sample were washed in a tub, then the residual material run through the sluice. After each sluice clean up a one half to one cubic foot concentrate was taken.

The sluice material was panned to approximately an eight and one half ounce concentrate. This final concentrate was dried for visual inspection.

The small sluice or longtom (see Fig. 5) consisted of a pump, trough, grizzly, and sluice box. A Monark pump was used to supply water at 70 gallons per minute. The grizzly was setup at a forty-five degree angle with one quarter inch by eight inch slotted openings. The oversize gravel was rejected off the side of the grizzly.

- (a) The water flows through the four foot trough.
- (b) The gravel is placed in the trough.
- (c) It is washed and self-fed at a constant rate over the grizzly.
- (d) The sized gravel goes in an eight foot by eight inch sluice. The bottom of the sluice has a layer of rubber matting, and on top of this three quarter inch expanded metal.
- (e) Panning: the panning of the sluice concentrates were done at base camp. Each sample was panned twice. The final concentrates were placed on trays to dry. An eight ounce panning tails sample was taken for geochemical analysis to ensure accuracy.

#### 2.4 VISUAL EXAMINATION

The visual examination procedure is as follows:

- (a) Dry panned, concentrate and tails.
- (b) Weigh concentrate and tails.
- (c) Sieve dried concentrate using a ten and twenty mesh screen (Tyler series).
- (d) Take counts on scheelite grains larger than twenty mesh with the aid of an ultraviolet lamp; at the same time note the presence of barite.

- (e) Take counts on gold using the following scale:
- coarse gold (cg) - larger than ten mesh
  - medium gold (mg) - smaller than ten mesh but larger than twenty mesh
  - fine gold (fg) - smaller than twenty mesh but larger than forty mesh
  - very fine gold (vfg) - smaller than forty mesh.
- (f) Examine each sieved portion under a binocular microscope. Take general overall counts on scheelite, barite, arsenopyrite pyrite, hematite and magnetite using the following scale:
- 0 - no mineral grains were observed
  - 1 - trace
  - 2 - low
  - 3 - moderate
  - 4 - high
  - 5 - abundant

Note: Originally cassiterite counts were to be taken but field tests failed to provide any positive results of suspect grains.

3.0 RESULTS

JAMIE #5  
PLACER LEASE 5535

	GOLD	SCHEELITE	BARITE	ARSENOPYRITE	PYRITE	HEMATITE	MAGNETITE
J5-T1 concentrate	0	1	2	0	1	2	3
J5-T1 tails	0	1	1	0	1	0	1
J5-T2 concentrate	0	1	2	2	2	3	3
J5-T2 tails	0	1	1	0	1	0	1
J5-T3 concentrate	0	1	2	2	2	3	3
J5-T3 tails	0	1	1	0	1	0	1

3.0 RESULTS

GOLD

Coarse Gold	(cg)	-	larger than 10 mesh
Medium Gold	(mg)	-	smaller than 10 mesh but larger than 20 mesh
Fine Gold	(fg)	-	smaller than 20 mesh but larger than 40 mesh
Very Fine Gold	(vfg)	-	smaller than 40 mesh

SCALE

0	-	denotes no mineral grains present
1	-	trace
2	-	low
3	-	moderate
4	-	high
5	-	abundant

4.0 CONCLUSIONS

Conclusions pending Chemex Geochemical Analyses.

JAMIE #5  
Placer Lease 5535

STATEMENT OF DIRECT COSTS

LABOUR

Ken Hansen, Supervisor			
\$175.00 per day	July 18 (.25 day), August 1 (.5 day)		
	Total Days 0.75 x \$175.00 =		\$131.25
Sean Butler, Geological Assistant			
\$125.00 per day	August 1 (1.0 day) 2 (1.0 day)		
	Total Days 2.0 x \$125.00 =		\$250.00
Bill Mann, Geological Assistant			
\$125.00 per day	August 1 (1.0 day) 2 (1.0 day)		
	Total Days 2.0 x \$125.00 =		\$250.00
Mike Wylie, Field Technician			
\$125.00 per day	July 31 (1.0 day)		
	Total Days 1.0 x \$125.00 =		\$125.00
Ian Sturrock, Field Technician			
\$125.00 per day	July 18 (.25 day) 31 (1.0 day)		
	Total Days 1.25 x \$125.00 =		\$156.25
		TOTAL LABOUR	<u>\$912.50</u>

DISBURSEMENTS

Gas \$2.00 per gallons X .5 gallon per day X 3 days =	\$ 3.00
4.1 yds <sup>3</sup> X \$1.52 =	\$ 6.23
Chemex Geochemical Analyses	
Preparation \$0.65 per sample X 6	\$ 3.90
Each sample tested for Gold (\$5.75)	
Tin (\$4.00)	
Tungsten (\$4.00)	
\$13.75 X 6 samples =	\$ 82.50
	<hr/>
TOTAL DISBURSEMENTS	\$ 95.63
	<hr/>
TOTAL COST APPLIED TO ASSESSMENT WORK	\$1,007.88
	<hr/>

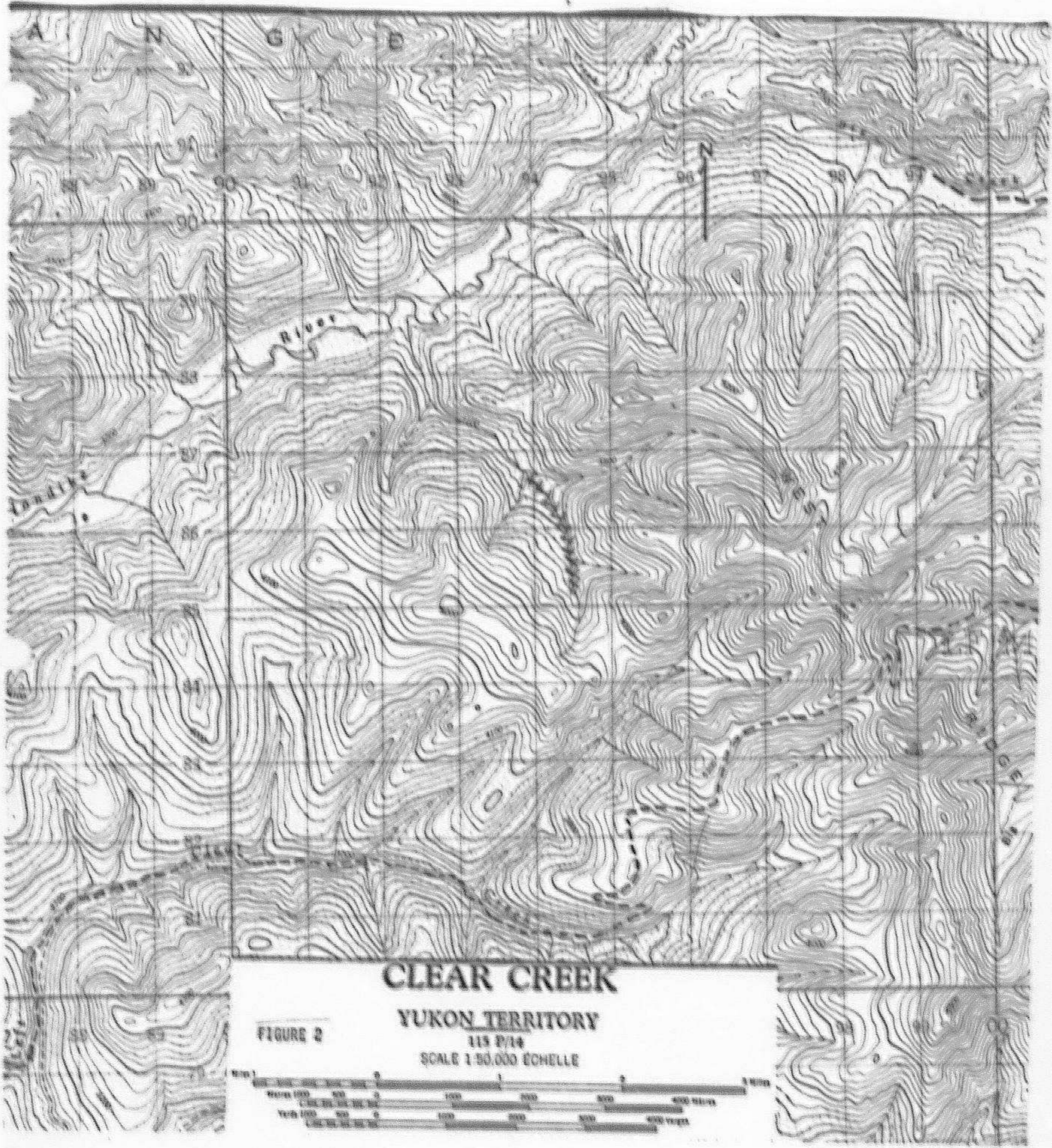


FIGURE 2

# CLEAR CREEK

YUKON TERRITORY

115 P/14

SCALE 1:50,000 ÉCHELLE



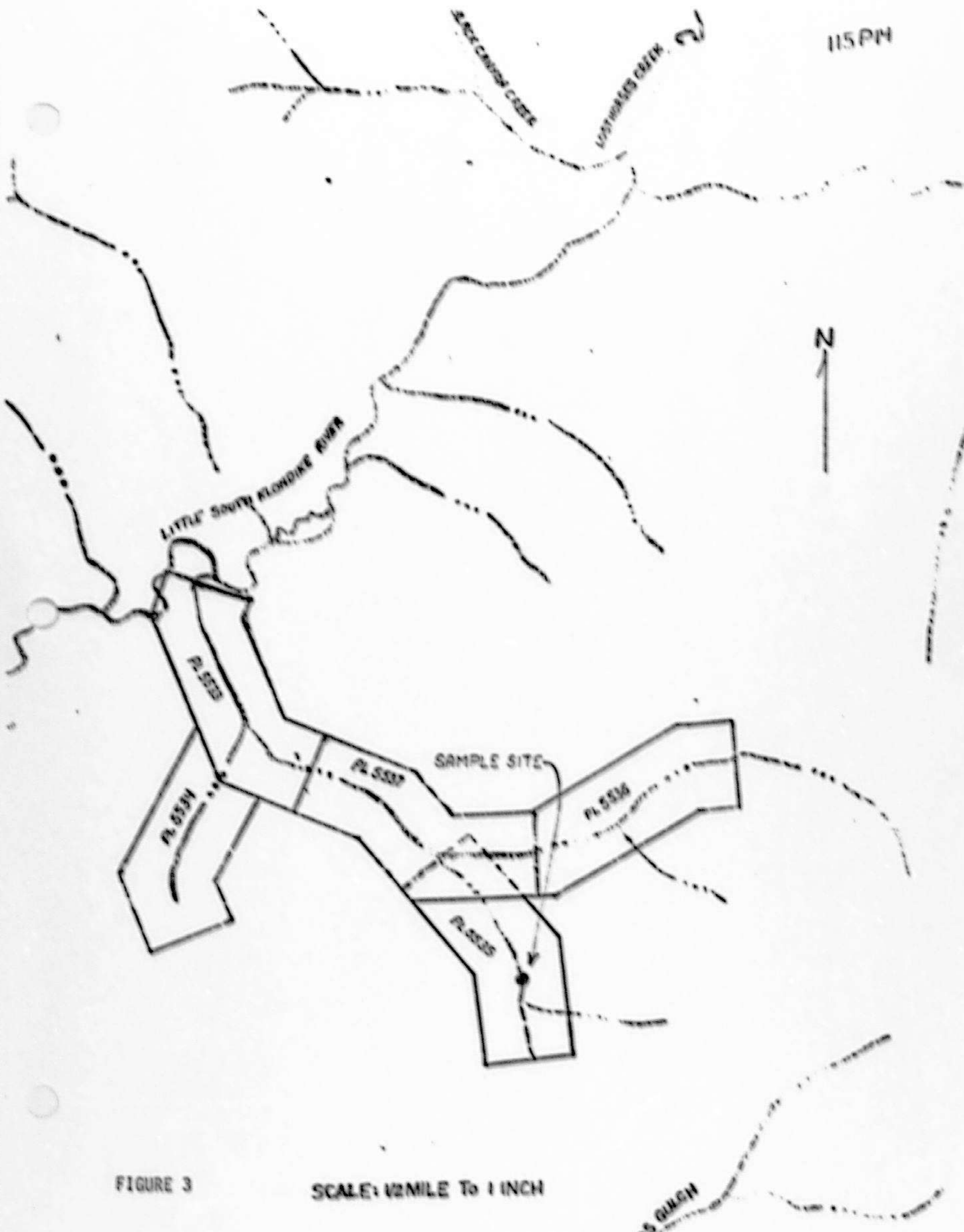
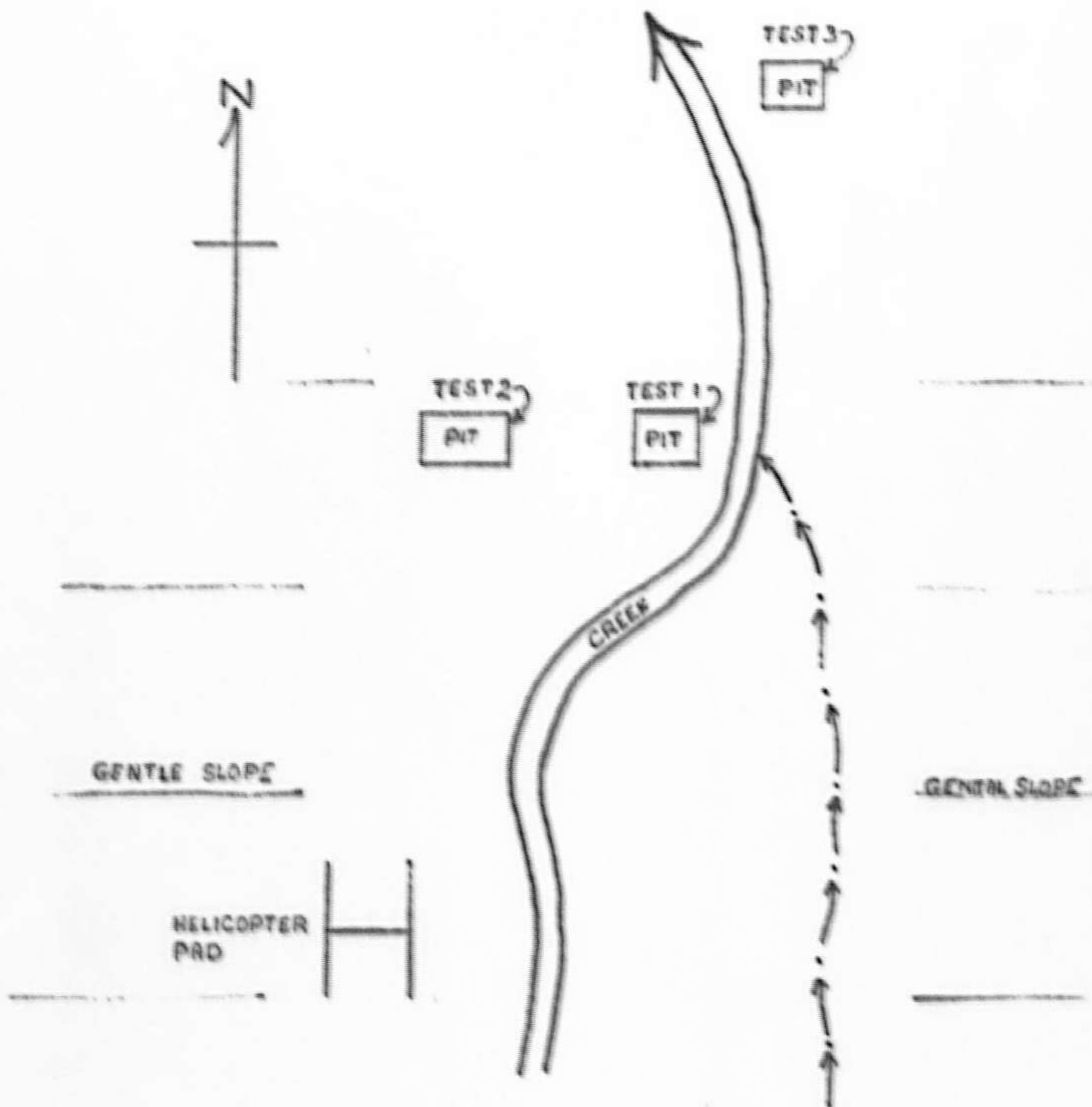


FIGURE 3

SCALE: 1/2 MILE TO 1 INCH

# JAMIE 5 SAMPLE SITE PLAN



TRENCH VOLUME

T1	$3' \times 39' \times 2.6' = 30.4' \div 27' = 1.1 \text{ YD}_3^3$
T2	$3' \times 5.5' \times 3' = 49.5' \div 27' = 1.2 \text{ YD}_3^3$
T3	$36' \times 26' \times 2.4' = 22.4' \div 27' = 0.8 \text{ YD}_3^3$
	TOTAL = 4.1 $\text{YD}_3^3$

SCALE 1 INCH TO 10 FEET  
 SITE IS 1120 YARDS UPSTREAM FROM POST #1.

FIGURE 4

SLUICE  
(LONGTOM)

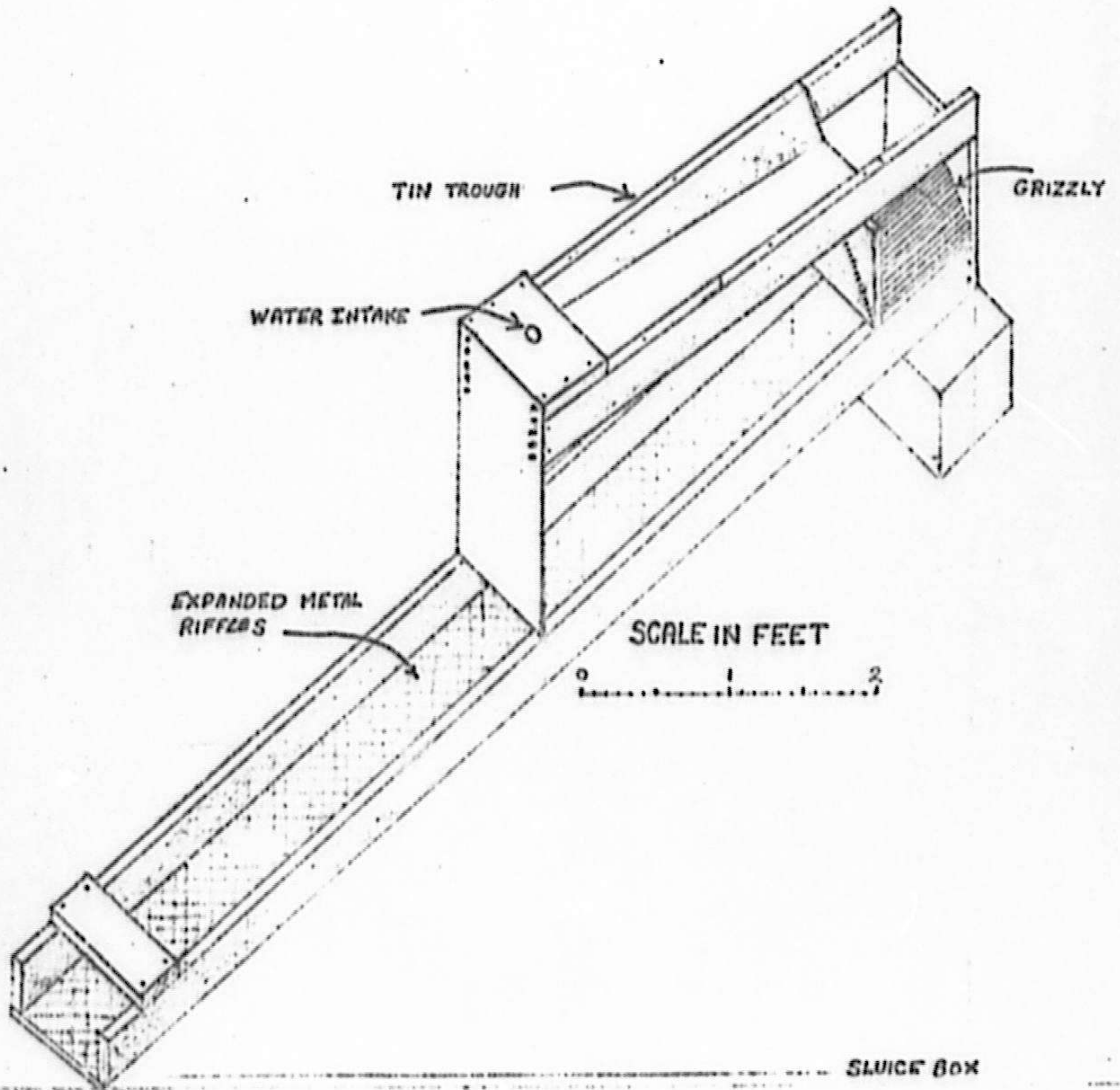


FIGURE 5