

MAP NO.: PLACER ASSESSMENT REPORT X  
105 M 11 PROSPECTUS CONFIDENTIAL X  
OPEN FILE

DOCUMENT NO: 120004  
MINING DISTRICT: Mayo  
TYPE OF WORK: Sampling, Assays

REPORT FILED UNDER: Meyer Properties, Incorporated

DATE PERFORMED: Aug. 26-27, 1982

DATE FILED: Dec. 13, 1982

LOCATION: LAT.: 63° 44'N

AREA: Owl Creek

LONG.: 135° 08'W

VALUE \$: 2,030.20

CLAIM NAME & NO.: Bench Claim PL5440, PL5603, PL5604

WORK DONE BY: D.L. Melrose

WORK DONE FOR: Meyer Properties, Incorporated

DATE TO GOOD STANDING:

REMARKS: OWL CREEK


MEYER PROPERTIES INC.

A Geological Report on the Evaluation  
of the Owl Creek Bench Claims  
Mayo Mining District, Yukon Territory



1st Tier Bench No. 1 P5440  
1st Tier Bench No. 2 P5603  
1st Tier Bench No. 3 P5604

NTS Location 105 M/11  
63 44'N  
135 8'W

Work Dates: August 26th - 27th, 1982

Prepared by

Dwayne L. Melrose, B.Sc.

October 1982

**SUMMARY**

Nevin Sadlier-Brown Goodbrand Ltd. has carried out an evaluation program on behalf of Meyer Properties Inc., on their Owl Creek Bench Claims located in the Mayo Lake area of the Mayo Mining District, Yukon Territory. Results of the testing do not indicate values of sufficient tenor to justify further exploration in the area under discussion.

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## 1.0 INTRODUCTION

### 1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Meyer Properties Inc., as its technical consultants to carry out a placer evaluation program on the Owl Creek Bench claims.

The sampling program under discussion was carried out on August 26th and 27th, 1982 under the supervision of the author.

### 1.2 Property Description

The Owl Creek Bench property is comprised of 3 bench claims. The claim names and record numbers are as follows:

1st Tier Bench No. 1	P5440
1st Tier Bench No. 2	P5603
1st Tier Bench No. 3	P5604

### 1.3 Location and Access

The Owl Creek Bench claims are situated on the south shore of the Mayo Arm of Mayo Lake in the Mayo Mining District, Yukon Territory (Figure No. 1) at 63° 44'N latitude and 135° 8'W longitude on NTS map sheet 105 M/11.

Access from the community of Mayo is by gravel road about 50 kilometres northeasterly to the west end of Mayo Lake and then by boat 12 kilometres southeasterly to the property. Mayo is 320 kilometres north of Whitehorse and is accessible from there via an all-weather gravel road or by air.

### 1.4 Physiography and Vegetation

Owl Creek lies within the Yukon Plateau physiographic province, a terrain characterized by well developed, flat-bottomed, interlocking valleys, numerous small isolated mountain groups, and areas of well dissected upland. Elevations in the vicinity of Owl Creek range from 2200 feet at Mayo Lake to as high as 5000 feet. Overburden on the slopes generally consists of a mixture of colluvial and glacial gravels. Larger creek valleys, such as those of Anderson and Steep Creek contain a large component of locally derived alluvial gravels.

The slopes in the area of Owl Creek are forested with conifers--northern black spruce with local stands of

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pine--and a variety of deciduous brushes, grasses and moss. These plants grow well in areas underlain by permafrost which covers most of the property.

### 1.5 Previous Work

The auriferous gravels of Owl Creek have been mined or tested intermittently since the early 1900's. Old work sites such as sluice boxes, shafts, and tailings piles can be seen on the property.

## 2.0 GEOLOGY

### 2.1 Regional Geology

The Mayo Lake area is underlain mainly by rocks of the Yukon Group which is thought to be of Pre-cambrian age. Throughout the greater part of the area the rocks are dominantly metamorphosed sediments, mainly mica schists, quartz mica schists, schistose quartzites, and occasional beds of crystalline limestone.

The rocks of the Mayo Lake area are generally complex in structure and are part of the Selwyn Fold Belt.

The Mayo District on the whole has been intensely glaciated resulting in production of abundant glacial deposit moraines, eskers and tills, and valley walls which are smoothed, planated and steepened giving the valleys the typical U-shaped cross-sections.

### 2.2 Property Geology

The Owl Creek property is underlain by a sequence of Proterozoic schists and quartzites. They strike between 80 and 115 , dip steeply (65 to 85 ) towards the south, and are locally cut by numerous barren quartz veins. The schists are mineralized with lenses or stringers of pyrite which tend to occur on planes of schistosity and jointing or more commonly as euhedral crystals within the rock itself.

### 2.3 Owl Creek Gravel Deposit

The Owl Creek gravel deposit is comprised of mainly alluvial gravels with local occurrences of glacial and colluvial gravels. The alluvial gravels are found in the existing creek bed and areas of local widening within the valley. Glacial gravels are largely confined to lateral

- 3 -

moraines on lower slopes of Mayo Lake Valley. Colluvial material is also widely distributed on the slopes above the lake and most of its tributaries.

The alluvial gravel is comprised of 90% phyllite, schist and quartzite locally derived from the Yukon Group rocks that occur on the property. The shape of the fragments range from angular to sub-rounded. The remaining 10% is comprised of rounded to sub-rounded glacially transported material. The alluvial gravel has been broken into size fractions as listed below:

<u>Size Fraction</u>	<u>Amount</u>
+6 "	5 to 10%
+2 "	5 to 30%
+ 1/4 "	10 to 50%
finer (- 1/4 ")	15 to 30%

### 3.0 SAMPLING PROGRAM

#### 3.1 Purpose

Testing on the Owl Creek Bench claims was intended to determine the spacial distribution of any gold bearing gravels and to delineate and provide a detailed evaluation of the grade and quantity of gravel available for mining.

#### 3.2 Procedure

A total of 3 bulk samples were taken from 3 locations on the claims. Samples were either dug from bank gravels or from test pits excavated by a track-mounted backhoe.

Samples taken by the backhoe (usually consisting of 0.73 yd<sup>3</sup>) were transported by the backhoe to a sluice box. The gravel was washed from the bucket of the hoe into a dump box over a +2" grizzly. The -2" gravel flowed into the 16' x 12" sluice box. The sluice concentrate was then panned down and the coarse gold removed and weighed. The remaining concentrate was sent to the Nevin Sadlier-Brown Goodbrand Ltd. warehouse in North Vancouver, B.C. where further reduction was carried out using a small sluicing system. All visible gold was extracted and weighed.

### 3.3 Observations

The samples were found to contain fine colours amounting to between 15 and 20 mg of gold. A summary of results is as follows:

Sample No. 1	18 mg Au/yd <sup>3</sup>
Sample No. 2	20 mg Au/yd <sup>3</sup>
Sample No. 3	15 mg Au/yd <sup>3</sup>

### 4.0 CONCLUSION

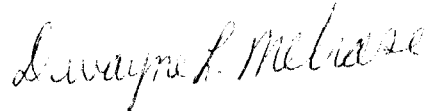
#### 4.1 Conclusions

Although gravel reserves are substantial on the Owl Creek property, testing in the delta area did not identify sufficient anomalous values to warrant further exploration. The possibility remains, however, that higher values may be present in untested alluvial gravels in the valley upstream.

#### 4.2 Recommendations

On the basis of the testing program we do not recommend further testing on the Owl Creek Bench claims. Prospecting and testing of gravel deposits in the upper part of the valley is considered justified.

Respectfully submitted,  
NEVIN SADLIER-BROWN GOODBRAND LTD.



Dwayne L. Melrose



REFERENCES

- Bostock, H.S., 1959: Yukon Territory, Selected Field Reports of the Geological Survey of Canada 1898 to 1933, Memoir 284.
- Gabrielse, H., et.al., 1977: MacMillan River, Yukon Territory, Map 1398A, Geological Survey of Canada.
- Wells, J.H., 1973: Placer Examination - Principles and Practice, Technical Bulletin 4, U.S. Department of the Interior, Bureau of Land Management.
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MEYER PROPERTIES, INC.

# OWL CREEK BENCH CLAIMS LOCATION MAP

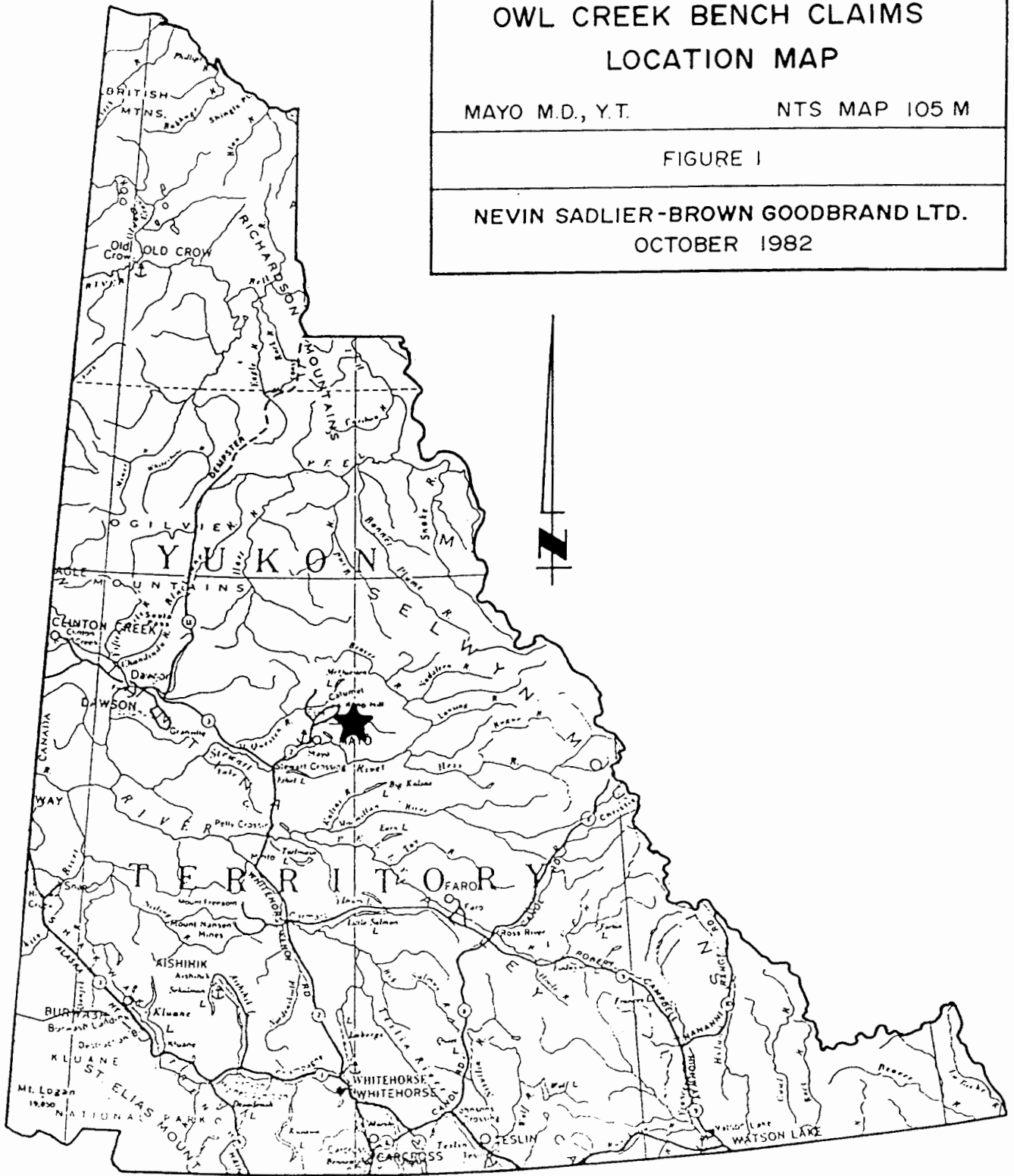
MAYO M.D., Y.T.

NTS MAP 105 M

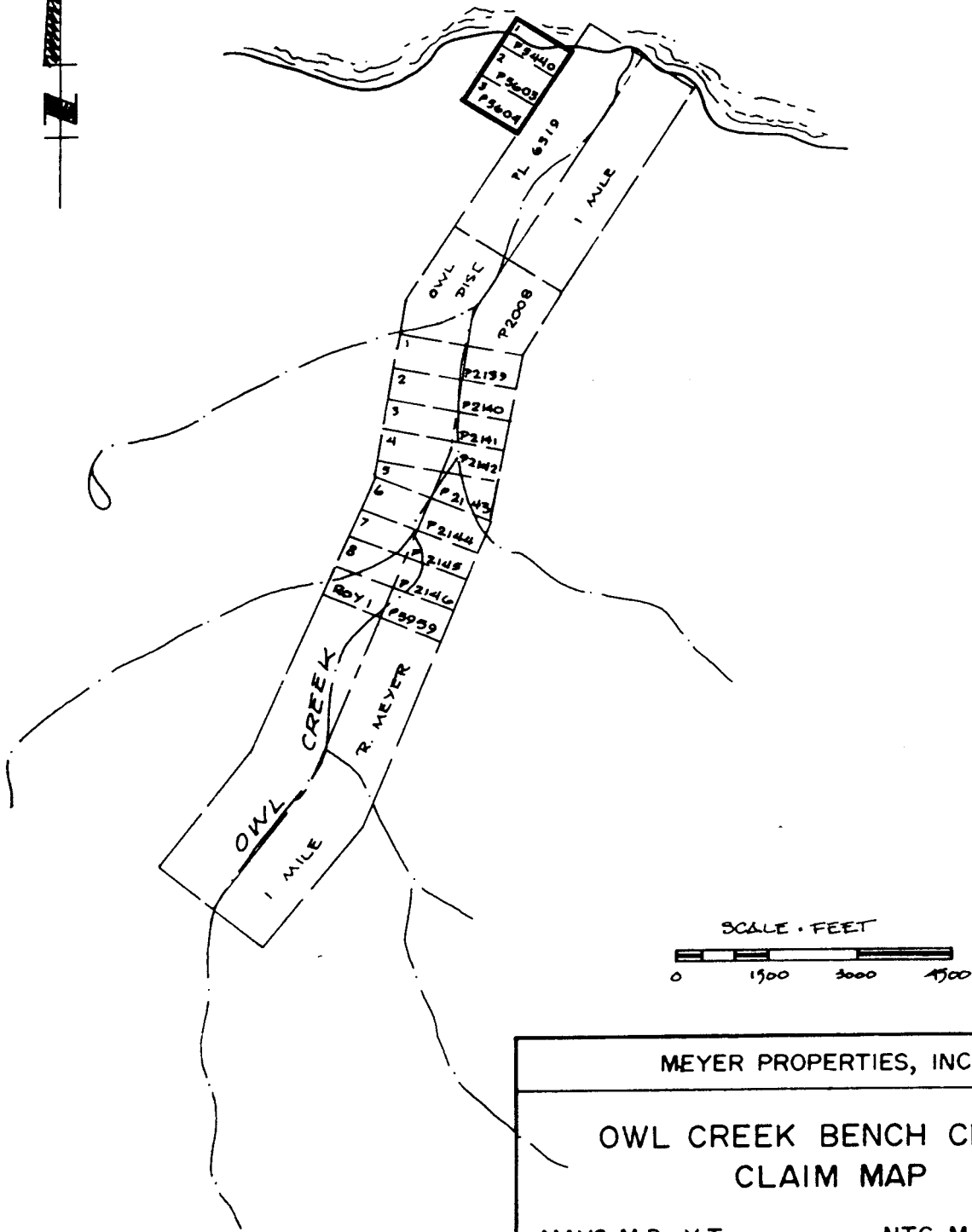
FIGURE 1

NEVIN SADLIER-BROWN GOODBRAND LTD.

OCTOBER 1982



MAYO LAKE



MEYER PROPERTIES, INC.

OWL CREEK BENCH CLAIMS  
CLAIM MAP

MAYO M.D., Y.T.

NTS MAP 105 M/11

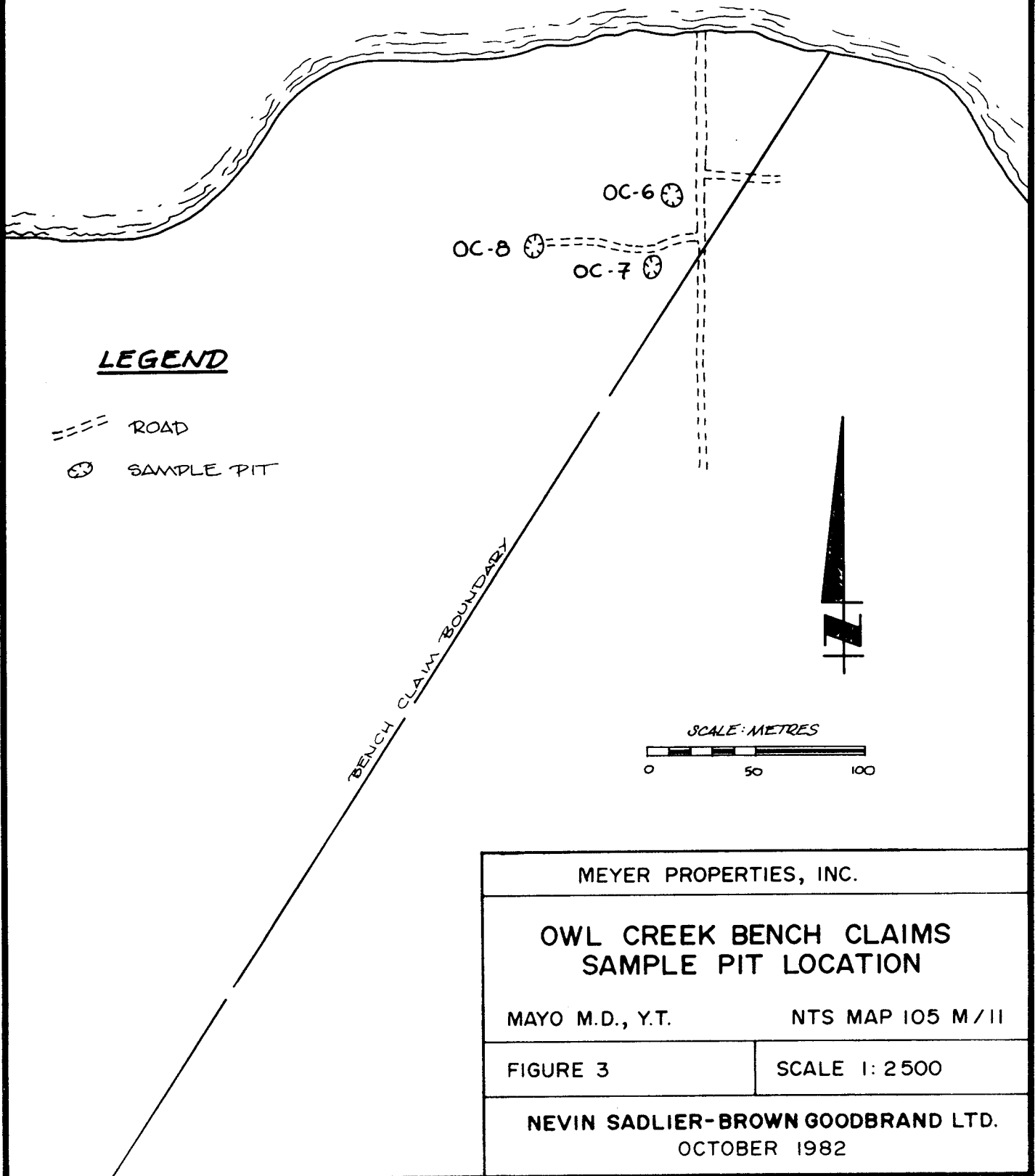
FIGURE 2

SCALE 1" = 1/2 MILE

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# MAYO LAKE

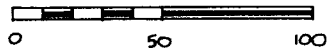


## LEGEND

- ROAD
- ⊗ SAMPLE PIT

BENCH CLAIM BOUNDARY

SCALE: METRES



MEYER PROPERTIES, INC.	
OWL CREEK BENCH CLAIMS SAMPLE PIT LOCATION	
MAYO M.D., Y.T.	NTS MAP 105 M / 11
FIGURE 3	SCALE 1: 2500
NEVIN SADLIER-BROWN GOODBRAND LTD. OCTOBER 1982	

CERTIFICATE OF QUALIFICATIONS

I, Dwayne L. Melrose, hereby certify that:

1. My residence is #34 - 1201 Emery Place, North Vancouver, B.C.  
V7J 1R1
2. I am a consulting geologist with the firm of Nevin Sadlier-Brown  
Goodbrand Ltd., 401-134 Abbott Street, Vancouver, B.C. V6B 2K4
3. I hold a B.Sc. in Honours Earth Science from the University of  
Waterloo, Waterloo, Ontario
4. I am an Associate member of the Geological Association of Canada.

Dwayne L. Melrose  
Dwayne L. Melrose, B.Sc.

October 1982

APPENDIX B

List of Personnel

Dwayne L. Melrose	August 26 and 27, 1982
Bruce J. Hardy	August 26 and 27, 1982
Barbara MacDougall	October 14 and 15, 1982

Address of the above:

Nevin Sadlier-Brown Goodbrand Ltd.  
Suite 401 - 134 Abbott Street  
Vancouver, B.C.  
V6B 2K4

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APPENDIX C

Itemized Cost Statement

**Labour**

D. Melrose	\$ 579.20
B. Hardy	366.00

**Equipment**

NSBG rental	100.00
Backhoe @ \$93.50/hr	935.00

Food and Lodging @ \$25/day	<u>50.00</u>
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TOTAL	<u>\$2,030.20</u>
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