MAP NO.: 105 M 11

PLACER
ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

**DOCUMENT NO:** 120003
**MINING DISTRICT:** MAYO
**TYPE OF WORK:** BULK SAMPLING, ASSAYING

**REPORT FILED UNDER:** Meyer Properties, Incorporated

**DATE PERFORMED:** 26-27 Aug., 1982

**DATE FILED:** Dec. 17, 1982

**LOCATION:** **LAT.:** 63° 44'N

**LONG.:** 135° 08'W

**AREA:** Owl Creek

**VALUE $:** 7,696.10

**CLAIM NAME & NO.:** PL6319

**WORK DONE BY:** D.L. Melrose

**WORK DONE FOR:** Meyer Properties, Incorporated

| DATE TO GOOD STANDING: | |
|---|---|
| | |
| | |
| | |
| | |

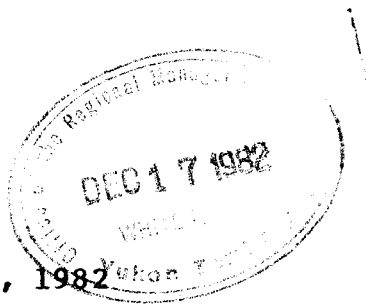
**REMARKS:** OWL CREEK

NEVIN | SADLIER-BROWN | GOODBRAND | LTD

Suite 401 - 134 Abbott St., Vancouver, B.C. Canada V6B 2K4 (604) 683-8271


MEYER PROPERTIES INC.

# A Geological Report on the Evaluation of the Owl Creek Placer Lease (PL 6319) Mayo Mining District, Yukon Territory




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

Work Dates: August 20th - 25th, 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 Placer Lease located in the Mayo Lake area of the Mayo Mining District, Yukon Territory. Gold values were found to be low and further testing in the area under discussion is not considered justified.

# TABLE OF CONTENTS

# 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 Placer Lease.

The sampling program under discussion was carried out between August 20th and 25th, 1982 under the supervision of the author.

## 1.2 Property Description

The Owl Creek Placer Lease is 1 mile in length and its record number is PL 6319. It is registered in the name of Mr. Robert E. Meyer of Santa Fe Springs, California.

## 1.3 Location and Access

The Owl Creek Placer Lease is 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 terraine 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 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 principally 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 which 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 vallley. Glacial gravels are confined to morraines on the valley sides of Mayo Lake. Colluvial gravels are found as slump material on the mountain sides.

The alluvial gravel is comprised of 90% phyllites, schist and quartzite that are 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 and are listed below:

| Size Fraction | Amount |
|---|---|
| +6" | 5 to 10% |
| +2" | 5 to 30% |
| + 1/4" | 10 to 50% |
| fines (- 1/4") | 15 to 30% |

## 3.0 SAMPLING PROGRAM

### 3.1 Purpose

Testing on the Owl Creek Placer Lease 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 14 samples were taken from 5 locations. Samples were either dug from bank gravels or from test pits excavated by a track-mounted backhoe.

Sample intervals were determined by the author in the field and were based on deposition intervals of the gravel. For example the contact between the cobble and boulder gravel would be the cut off point for 2 different sampling regimes. Samples taken by the backhoe (usually consisting of 0.73 $yd^3$) 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**

Of the 14 samples tested during the course of the work under discussion none returned values consistent with economical recovery all being less than 20 mg/cubic yard.

4.0 **CONCLUSION**

4.1 **Conclusions**

Although gravel reserves are substantial on the Owl Creek property, testing did not identify sufficient anomalous values to warrant further exploration on the lease under discussion.

4.2 **Recommendations**

On the basis of the testing program we do not recommend further testing on the Owl Creek Placer Lease. Prospecting in the upper part of Owl Creek drainage would, however, be justified.

Respectfully submitted,
NEVIN SADLIER-BROWN GOODBRAND LTD.

Dwayne L. Melrose

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.

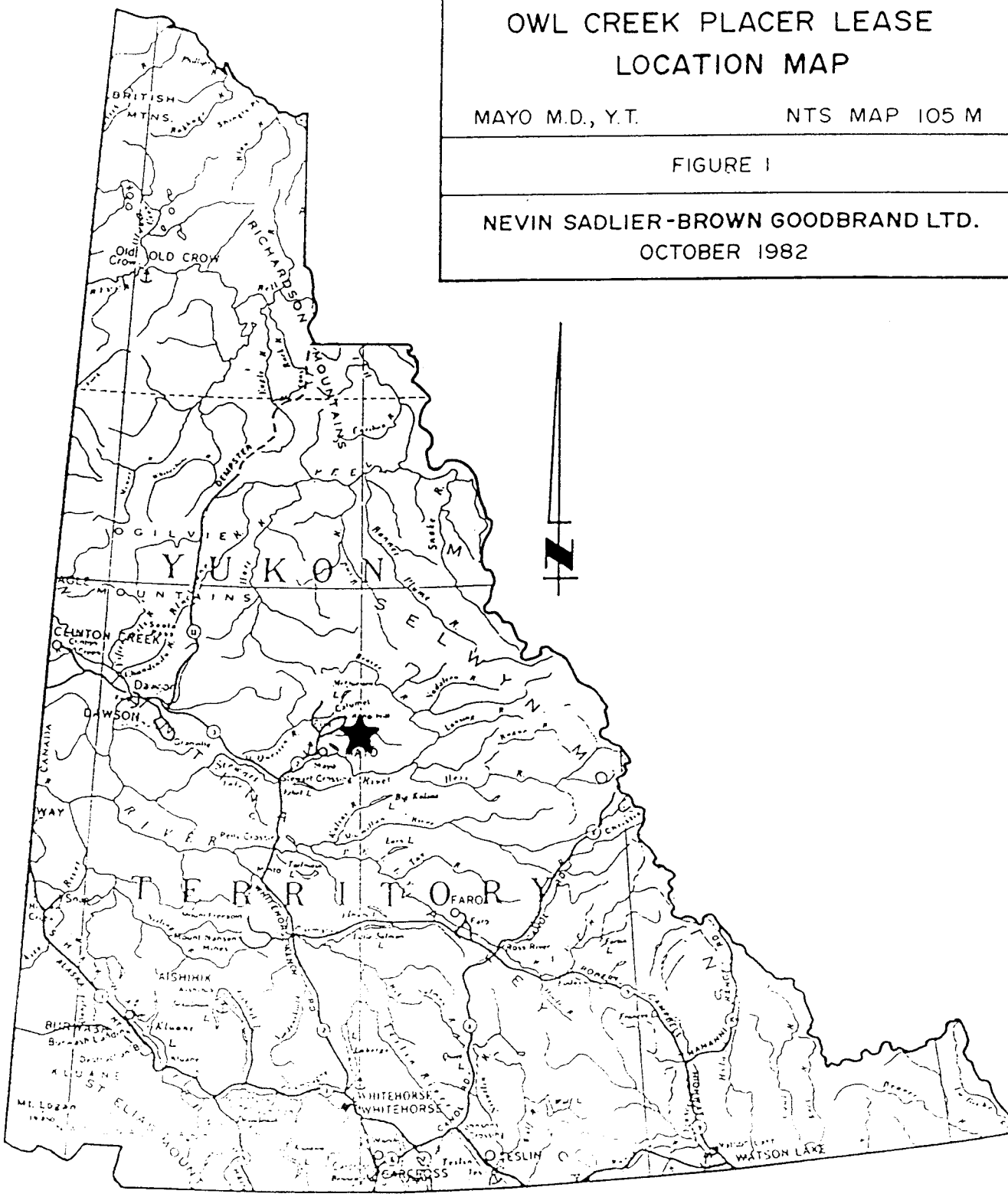
MEYER PROPERTIES, INC.

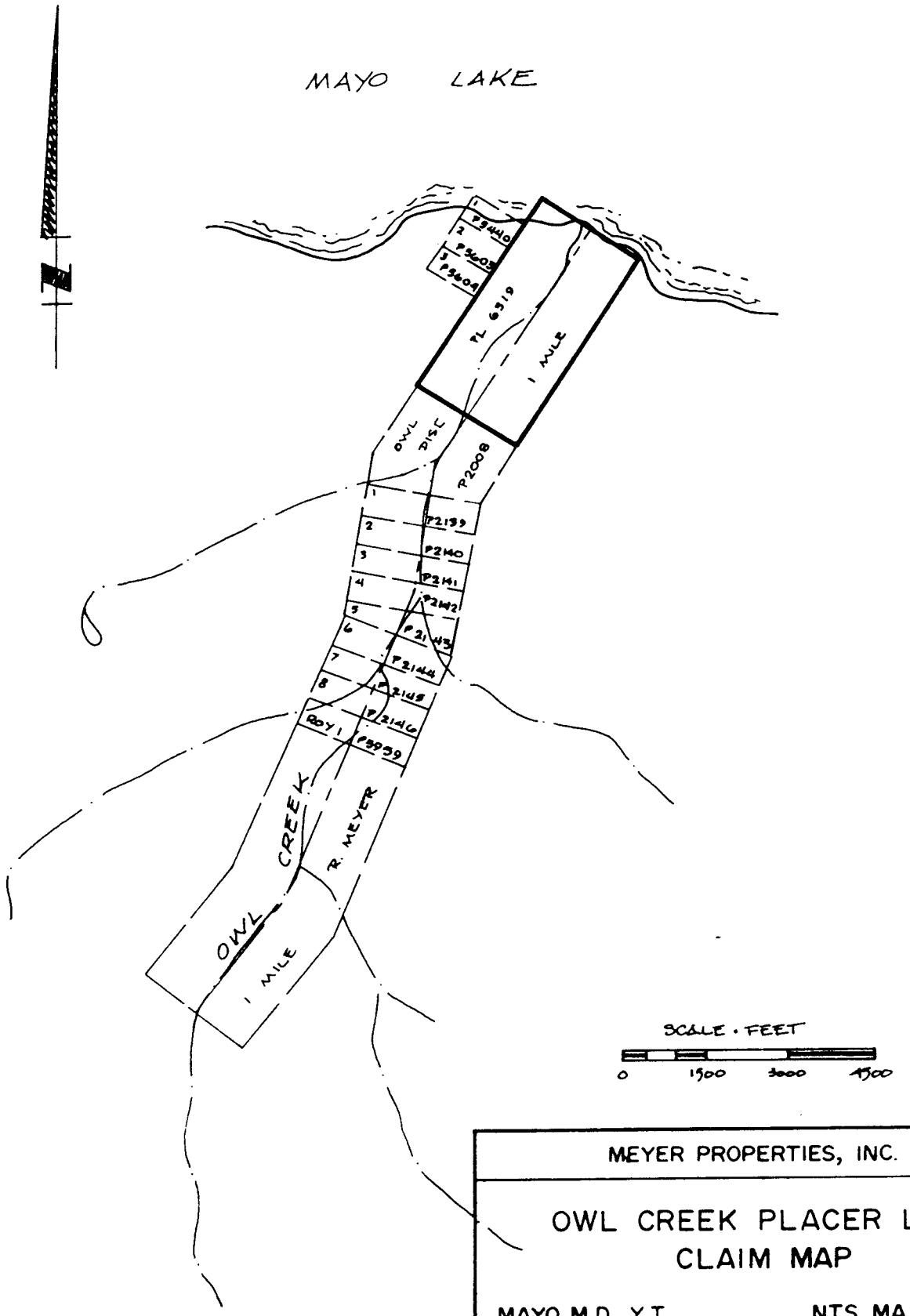
# OWL CREEK PLACER LEASE LOCATION MAP

MAYO M.D., Y.T. NTS MAP 105 M

FIGURE 1

NEVIN SADLIER-BROWN GOODBRAND LTD.
OCTOBER 1982



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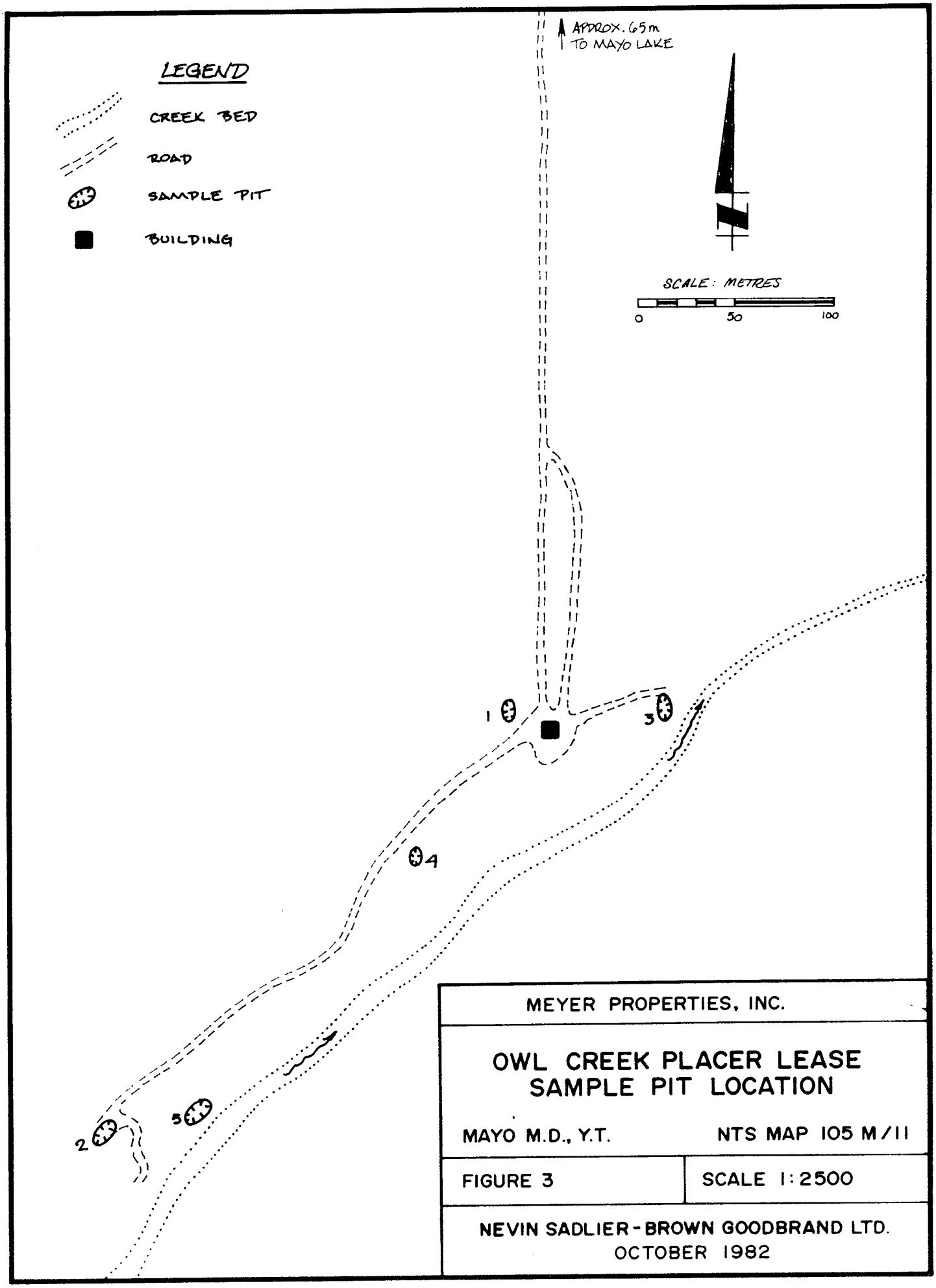
# OWL CREEK PLACER LEASE CLAIM MAP

MAYO M.D., Y.T. NTS MAP 105 M/11

FIGURE 2 | SCALE 1" = 1/2 MILE

NEVIN SADLIER-BROWN GOODBRAND LTD.
OCTOBER 1982




MEYER PROPERTIES, INC.

# OWL CREEK PLACER LEASE
# 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 20-25, 1982 |
| Bruce J. Hardy | August 20-25, 1982 |
| Barbara MacDougall | October 12-13, 1982 |

Address of the above:

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

# APPENDIX C

## Itemized Cost Statement

| | | |
|---|---|---|
| **Labour** | | |
| D. Melrose | | $ 1,737.60 |
| B. Hardy | | 1,098.60 |
| T. Sadlier-Brown | | 669.90 |
| **Equipment** | | |
| NSBG rental | | 300.00 |
| Backhoe @ $93.50/hr | | 3,740.00 |
| **Food and Lodging** $25/day | | 150.00 |
| | TOTAL | $7,696.10 |