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ANNUAL REPORT FOR
YEAR FIVE
EL 4733

18 JUNE 1989 TO 17 JUNE 1990

FOR

J J SULLIVAN, K F EUPENE & R J STONE

BY

SUSAN H HICKEY
BSc(Hons)

OF

EUPENE EXPLORATION ENTERPRISES PTY LTD

FOG BAY SD 52-3
Fog Bay 4972

DARWIN, NT
July, 1988

DIRECTORS: Geoffrey Samuel Eupene BSc(Hons) Peter Michael Nicholson BSc(Hons)
# TABLE OF CONTENTS

INTRODUCTION ......................................................... 3

TENURE ................................................................. 4

TOPOGRAPHY AND ACCESS ........................................... 5

GEOLOGY ................................................................. 6

EXPLORATION DURING YEAR FIVE ................................. 7

CONCLUSIONS .......................................................... 8

RECOMMENDATIONS FOR YEAR SIX ............................... 9

ESTIMATED EXPENDITURE FOR YEAR SIX ....................... 10

EXPENDITURE FOR YEAR FIVE ....................................... 11

REFERENCES ............................................................ 12

FIGURES

1. Location Map
2. Sample Location Plan
INTRODUCTION

Exploration Licence 4733 lies of the black soil plains of Fog Bay and has been explored over the past five years for gold, base metals and peat (Figure 1.).

Field work over the remaining seven blocks consisted of three field trips to undertake peat sampling and a feasibility study for extraction of the peat over the central portion of the licence.
TENURE

Exploration Licence 4733 was granted to Messrs K F Eupene, M V Western, J J Sullivan and R J Stone on 18 June, 1985 for a period of six years. The exploration licence is now held by Eupene, Sullivan and Stone and this report covers exploration in the fifth year of tenure.
TOPOGRAPHY AND ACCESS

The area contains six physiographic elements;

(i) an isolated rugged north-south trending hill consisting of Depot Creek Sandstone,

(ii) lateritic soil cover over undulating terrain in the northern half of the licence,

(iii) paludal and estuarine plains in the southern portion of the licence,

(iv) a complex system of dunes and beach ridges along the coastline on the western edge of the licence,

(v) beaches, and

(vi) tidal mudflats and mangroves fringing the coastline.

Access from Darwin is via the Stuart Highway, Mandorah road and the Finniss River Road.

There are various tracks which access most of the licence, although the central portion of the licence, the black soil plains, are inaccessible during the "wet".
GEOLOGY

The regional geology of the licence is described by Hickey (1985), in the notes to accompany the 1:100,000 Geological Map of Fog Bay (First Edition, 1984).

The licence lies over black soil plains which cover subcrop of Early Proterozoic metasediments (unit Pc) and in part over the Early Proterozoic Wagait Granite (unit Pgwa). Neither unit outcrops in the area currently covered by the licence.
EXPLORATION DURING YEAR FIVE

Exploration of the licence during Year Five concentrated on reconnaissance over the black soil plains to determine suitable peat sample locations.

Up to 20 peat samples were taken over suitable black soil plain in the licence area (Figure 2.). The samples comprised a single shovel sample and were taken for analysis to determine the texture, fibre and actual peat content of the deposits.

During the field trip discussions with experts were also made on how the peat could be extracted, either by cut and dig methods or scoop and suction method.
CONCLUSIONS

The results of the sampling revealed that further suitable peat could be available over the central portion of the licence, and that the peat could be extracted using the scoop and suction method.
RECOMMENDATIONS FOR YEAR SIX

Undertake final reconnaissance and sampling studies over the remaining three blocks to determine whether further suitable peat deposits are available.
ESTIMATED EXPENDITURE FOR YEAR SIX

Expenditure on the remaining three blocks is expected to be $1000.00.
EXPENDITURE FOR YEAR FIVE

Wages:-
- 6 man days @ $300/day $1800.00
- 6 man days @ $220/day 1320.00

Vehicle Expenses:
- 1400km @ 40c/km x two vehicles 1120.00
- Parts and accessories 150.00

Equipment and Supplies 200.00
Camping Allowances and Insurance 400.00
Report Compilation and Drafting 200.00

SUB-TOTAL: $5190.00
Administration 15% 778.50

TOTAL: $5968.50
REFERENCES
