# STOCDKDALE PROSPECTING LIMITED

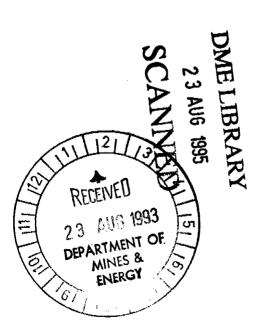
# ANNUAL REPORT FOR THE PERIOD ENDING 22nd JULY 1993

TIMBER CREEK AREA

**EXPLORATION LICENCE 7647** 

A.K. BERRYMAN

**AUGUST, 1993** 





Registered Office: 60 Wilson Street South Yarra Victoria 3141 Australia

# STOCKDALE PROSPECTING LIMITED

A.C.N. 004 912 172

131 Reichardt Road, Winnellie NT P.O. Box 3152 Darwin NT 0801 Australia Telephone (089) 47 1333 Fax (089) 47 0932

Project Name:

**BRADSHAW** 

Title:

Annual Report Timber Creek Area Exploration Licence 7647

For the period ending 22nd July 1993

Author:

A.K. Berryman

Edited/Approved:

J. Joyce

Date:

August, 1993

Place:

Darwin

1:250,000 Sheet Name & No:

Auvergne SD 52-15, Delamere SD 52-16

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1

Keywords:

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Spinels, Diamond

Abstract:

Closely spaced reconnaissance sampling over EL 7647 during the reporting period 23/7/92 to 22/7/93 recovered a single diamond, 2

possibly kimberlitic garnets and a number of singleton chromites.

Follow-up of these results with close interval follow-up sampling will be

conducted during the second year of tenure.

Copy to:

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RVD, JJ, BMcC, DVH

# **SUMMARY**

Exploration Licence:

7647

Date Granted:

23rd July 1992

Area:

395 blocks (1272 sq km approx)

Occupant:

Stockdale Prospecting Limited

Operator:

Stockdale Prospecting Limited

Commodities sought:

Diamonds

Exploration:

Closely spaced reconnaissance sampling over EL 7647 during the reporting period 23/7/92 to 22/7/93 recovered a single diamond, 2 possibly kimberlitic garnets and a number of singleton chromites.

Follow-up of these results with close interval follow-up sampling will be conducted during the second year of tenure.

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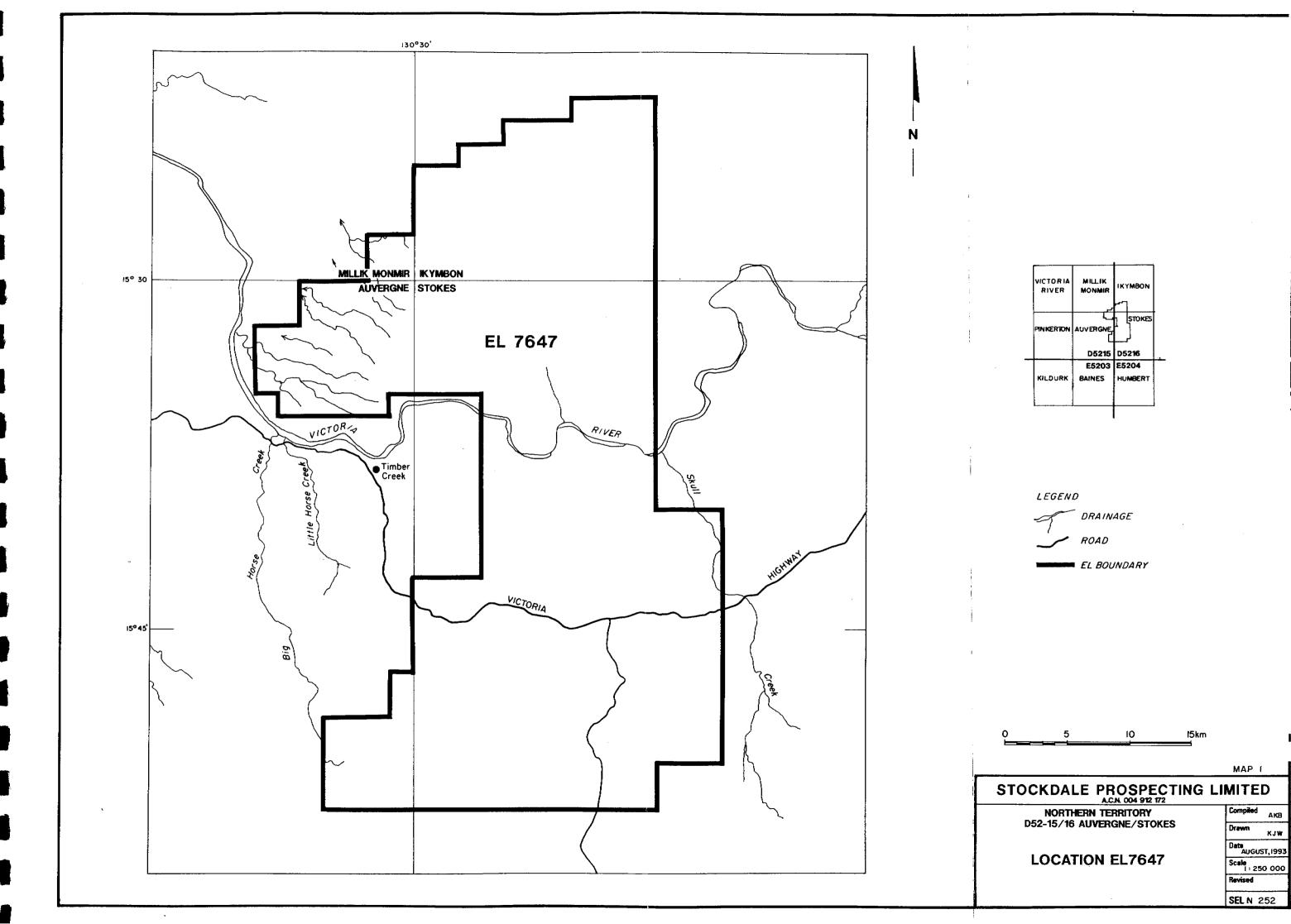
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Appendix 1 Correspondence: SPL + NTDME



STOCKDALE PROSPECTING LIMITED EXPLORATION LICENCE 7647 ANNUAL REPORT FOR THE PERIOD ENDING 22nd JULY 1993

#### 1. **INTRODUCTION**

Exploration Licence 7647 is located partly on the Auvergne and Millik Monmir 1:100,000 mapsheets (Auvergne SD 52-15 1:250,000) and partly on the Stokes and Ikymbon 1:100,000 mapsheets (Delamere SD 52-16 1:250,000). It surrounds the township of Timber Creek to the north, south and east.

This licence, along with EL's 7768, 7648 and 7848 form what has been termed the Bradshaw Project. During the reporting period 23rd July 1992 to 22nd July 1993, Stockdale Prospecting Limited carried out a programme of relatively close interval reconnaissance stream sampling and geochemical sampling.

#### 2. **TENURE**

An application for two licences to the east of Timber Creek was made on the 15th November 1991 (ELA 7648, EL 7647 Appendix 1). EL 7647, covering an area of 395 blocks (1272 sq km approx) was subsequently granted on the 23rd of July 1992, for a period of six years.

Stockdale Prospecting Limited is both the occupant and operator of the licence.

## 3. ACCESS

Access to the station is gained via the Victoria River Highway, which bisects the licence. Good subordinate tracks exist to the south, leading to Bullita or VRD, and to the north to Saltwater or Bottle Tree yards. The majority of the licence however was accessible only with the use of a helicopter.

## 4. PHYSIOGRAPHY

EL 7647 falls within the broad physiographic region of the Victoria River Basin. This region has been subdivided into four main units. The two main units that dominate the tenement area are described below.

The dominant unit is the VICTORIA RIVER PLATEAU, which has in turn been subdivided into four smaller sub units. The tablelands, an area of well dissected sandstone plateaus bounded by steep scarps, is common close to the Victoria river. Gently sloping plateaus, rounded hills and inland plain also occur as part of the Victoria River Plateau within the tenement area.

The second physiographic unit in the area is the DELAMERE PLAINS and BENCHES. This unit consists of plains with rounded and terraced hills.

#### 5. **GEOLOGY**

# 5.1 <u>Tectonic History</u>

The Victoria River Basin (VRB) consists of a maximum thickness of 3.5km of relatively stable

carbonate and ferruginous sequences, covering an area of some 160,000 sq km on the Sturt Block. Folds are generally broad, and faulting is rare. It is believed the VRB has been relatively undeformed since Carpentarian time. Deformation has been less severe with time.

The VRB is bounded to the north west by the Fitzmaurice Mobile Zone, to the south west by the Ord Basin, to the south by the Carpentarian Birrindudu Basin, to the south east by the Paleozoic Wiso Basin, to the north east by the Cambrian/Ordovician Daly River Basin, and to the north by the Pine Creek Geosyncline and Litchfield Block.

# 5.2 Geological History/Stratigraphy

The geological history of the region is as follows:

#### ARCHAEAN/LOWER PROTEROZOIC

Formation of the Inverway Metamorphics in the south. The composition of basement in the north is unclear.

# **CARPENTARIAN**

Deposition of the shallow marine Limbunya Group

## ADELAIDEAN OR CARPENTARIAN

The precipitation of carbonate mud during a period of shallow marine conditions lead to the formation of the Bullite Group. This consists of dolomites and dolomitic siltstones. Some stromatolites are present. More active erosion and uplift lead to the formation of the non marine and shallow marine Wondoom Formation.

#### **ADELAIDEAN**

Staggered inundation deposited the Auvergne Group unconformably over the Wandoan Hill Formation. This sedimentation took the form of both calcareous precipitation (minor) and blanket sand cover (ie Jasper Gorge Sandstone).

Later uplift and erosion reduced the thickness and lateral extent of some of these formations.

#### LOWER CAMBRIAN

Widespread eruption of the Antrim Plateau Volcanics occurred onto a land surface of moderate relief. Interbeds of sediments represent minor dunes, covered by later flows. This unit unconformably overlies Proterozoic sediments to the east of EL 7647.

#### **CRETACEOUS**

Later subsidence lead to the deposition of silts and clay in a shallow sea (Mullaman Beds).

# **CRETACEOUS-TERTIARY**

After deposition, these sediments were uplifted, eroded and weathered to form a lateritic profile.

# **TERTIARY**

Further uplift and erosion, re-exposing some Proterozoic sediment.

# 6. **EXPLORATION**

Reconnaissance stream sediment samples were collected to a density of 1 sample per 3.4 sq km during the first year of tenure. A total of 367 heavy mineral samples were collected. Each sample consisted of 100 litres of material, excavated and screened to -1.0 + 0.3mm if dry, or -12mm if damp.

Sample numbers for this work are as follows:

BD 7201 - 79	(79)
BD 7281- 7300	(20)
BD 8401 - 10	(10)
BD 8412 - 99	(88)
BD 9804 - 06	(3)
BD 9808	(1)
BD 9812	(1)
BD 9814 - 9955	(142)
BD 9957 - 79	(23)
Total	367

Total

<u> 367</u>

# 7. **RESULTS**

Results from reconnaissance sampling are summarised in Table 1.

TABLE 1: EL 7647 SAMPLE RESULTS

Sample No	Mapsheet	Result
BD 9852	Ikymbon	1 Chromite
BD 9854	Ikymbon	1 Diamond: 0.0001 cts
√ BD 9860	Ikymbon	1 Chromite
✓ BD 7211	Stokes	1 Chromite
BD 7262	Stokes	1 Chromite
√ BD 9894	Stokes	1 Garnet
<sup>√</sup> BD 9906	Stokes	1 Chromite
<sup>9</sup> BD 9919	Stokes	1 Chromite
√ BD 9954	Stokes	1 Garnet

# 8. **EXPENDITURE**

Expenditure for the reporting period totalled \$170,155, as allocated in Table 2.

#### TABLE 2: EXPENDITURE

Operational Staff Costs	47,616
General Operation Expenses	7,513
Transport & Travel	31,890
Tenement Costs	6,019
Sample Analysis	540
Central Treatment Plant	27,727
Lab Treatment	2,581
Lab Examination	4,982
Drilling	0
General Contractors	113
Geophysical Contracts	. 0
Remote Sensing	6,344
Geophysics	0
Drafting	1,100
Computer Services	21
Mineralogy	155
Regional Administration	14,362
Head Office Administration	13,063
Capital Expenses	6,129
Total:	<u>170.155</u>

# 9. **FORWARD WORK PROGRAMME**

All of the results found in Table 1 are anomalous, perhaps with the exception of BD 9854, which may be part of the background scatter of diamonds found across the Kimberley and Victoria River region.

No mapped geological unit would explain the results. It is felt that the garnet recovered in sample BD 9894 was the most significant result. BD 9954 may have been a common garnet, but was lost prior to a formal identification.

It is envisaged that all nine positive samples will be followed up with both close interval and infill sampling. Priority will be given to the garnet grain, but all results will be check sampled at the very least.

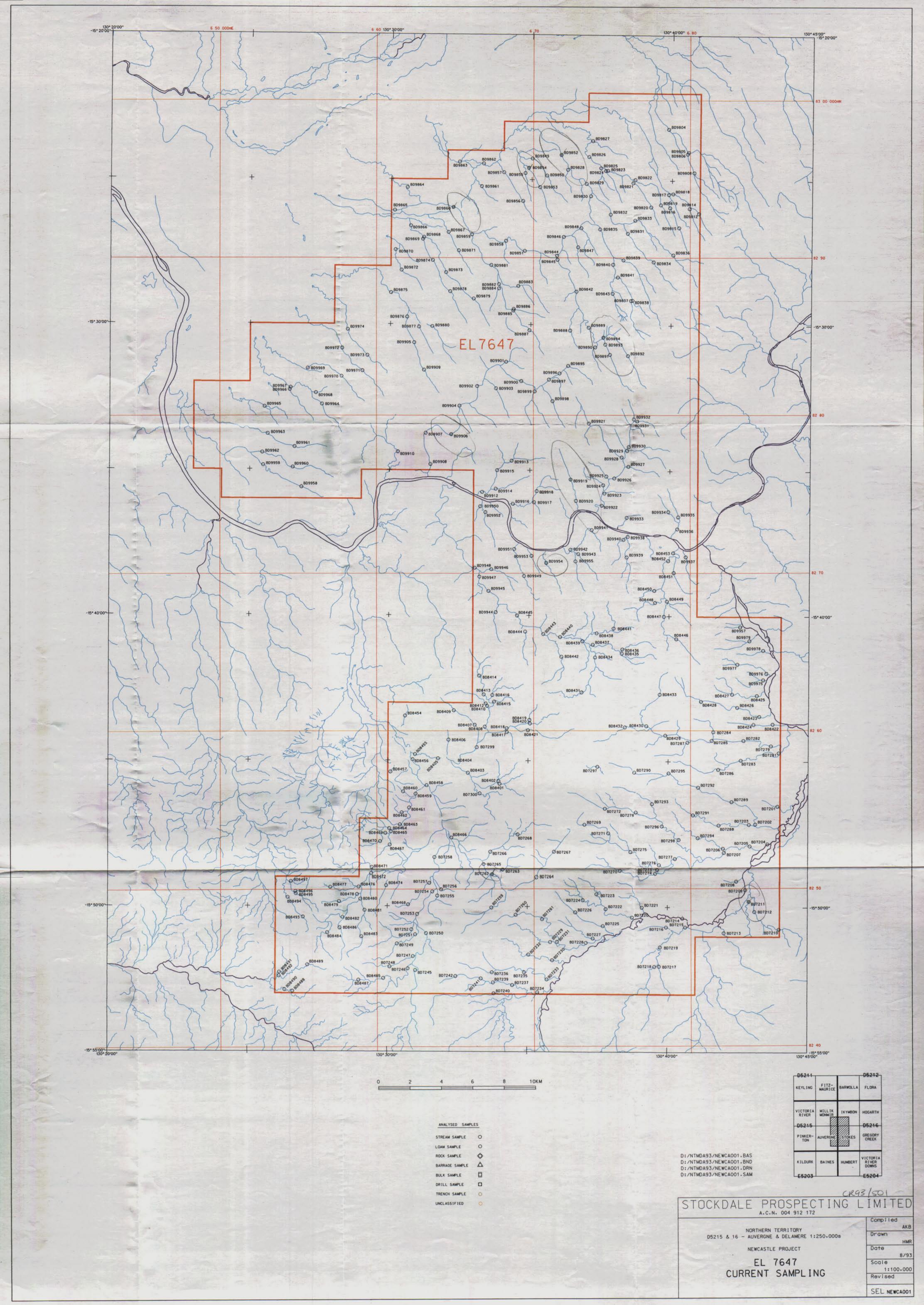
Proposed minimum expenditure for the second year of tenure over EL 7647 is outlined in Table 3.

# TABLE 3: PROPOSED EXPENDITURE

Operational Staff Costs	5,900
General Operational Expenses	320
Transport and Travel	5,000
Tenement Costs	2,500
Sample Analysis	1,600
Remote Sensing	500
Drafting	500
Computer Services	180
Regional Administration	1,900
Head Office Administration	1,600

Total: 20,000

A.K. BERRYMAN PROJECT GEOLOGIST DARWIN, N.T.



# APPENDIX 1

CORRESPONDENCE: SPL + NTDME



Registered Office: 60 Wilson Street South Yarra Victoria 3141 Australia STOCKDALE PROSPECTING LIMITED

Incorporated in the State of Victoria

131 Reichardt Road, Winnellie NT PO. Box 3152 Darwin NT 0801 Australia Telephone (089) 47 1333 Fax (089) 47 0932

ACN 004 912 172,

15th November, 1991

The Director
Department of Mines & Energy
GPO Box 2901
DARWIN NT 0801

Dear Sir

Stockdale Prospecting Limited is applying for two (2) Exploration Licences in the Victoria River region of the NT.

These exploration licences are required to extend sample coverage in an area already partly covered by Exploration Licences 5441, 5443 and 5444.

At present Stockdale holds Exploration Licences in the Northern Territory totalling 17,434 km², 5414 blocks (as detailed in Section F of the attached forward work program). Under the Mining Amendment Act 1989, Section 16(3) we therefore seek approval by the Minister for grant of this exploration licence application as our total area under application currently exceeds 5,000 blocks.

Should you have any queries in relation to the attached application over 505 blocks (total), 1626km<sup>2</sup> (total) please contact myself at the Darwin Office.

Sincerely yours,

J. JOYCE

SENIOR DIVISIONAL GEOLOGIST

DARWIN, N.T.

JJ-578,LET



Registered Office: 60 Wilson Street South Yarra Victoria 3141 Australia STOCKDALE PROSPECTING LIMITED

Incorporated in the State of Victoria

131 Reichardt Road, Winnellie NT P.O. Box 3152 Darwin NT 0801 Australia Telephone (089) 47 1333 Fax (089) 47 0932

ACN 004 912 172

15th November, 1991

The Director Department of Mines & Energy GPO Box 2901 DARWIN NT 0801

Dear Sir

Stockdale Prospecting Limited, the Holder of Miners Right No. 1782, hereby applies for two (2) Exploration Licences in the "Victoria River" region of the Northern Territory.

\$ 125

The details of the area applied for and additional information are attached.

Annual Rental

"Fitzroy" 395 blocks at \$10 each
Advertisement Fee \$3950

"Dodger Spring Yard" 110 blocks at \$10 each \$1100

is covered by our attached cheque for \$5300.

Please advise if you have any further requirements in this matter.

Yours faithfully,

Advertisement Fee

T.R. FRIED

DISTRICT GEOLOGIST

DARWIN, N.T.

# NAMES AND ADDRESSES OF LANDHOLDERS

"Fitzroy"

Location:

Bradshaw Station PL 1024

Owner:

Bradshaw Pastoral Enterprise

Address:

PMB 64, Katherine 0852

Location:

Fitzroy Station PL 674

Owner:

Aboriginal Benefit Trust Account

Address:

C/- ATSIC, PO Box 3064, Darwin 0801

# "Dodger Spring Yard"

Location:

Gregory National Park CL(P) 890

Owner:

Admin. Northern Territory Conservation Commission

Address:

PO Box 496, Palmerston NT 0831

Location:

Stokes Range

Owner:

Aboriginal Freehold Title

Address:

C/- Northern Land Council

Highway Arcade

STUART PARK NT



# NORTHERN TERRITORY OF AUSTRALIA

# APPLICATION FOR EXPLORATION LICENCE

ACN 004 912 172

# No. 7647

Pursuant to the provisions of the Mining Act, application is hereby made for an Exploration Licence for a period of six years over 395 blocks in the Victoria River area, the boundaries of which are more particularly described in the attached Schedule.

**FULL NAME OF APPLICANT(S):** 

Stockdale Prospecting Limited

60 Wilson Street

SOUTH YARRA VIC 3141

MINERS RIGHT NUMBER:

1782

ADDRESS IN THE NORTHERN TERRITORY FOR SERVICE OF NOTICE AND NORMAL POSTAL **ADDRESS** 

Stockdale Prospecting Limited GPO Box 3152 DARWIN NT 0801

DARWIN OFFICE ADDRESS:

131 Reichardt Road WINNELLIE NT 0820

Dated this 15th day of November 1991

Signature of Applicant(s)

SENIOR DIVISIONAL GEOLOGIST

DARWIN, N.T.

## DESCRIPTION

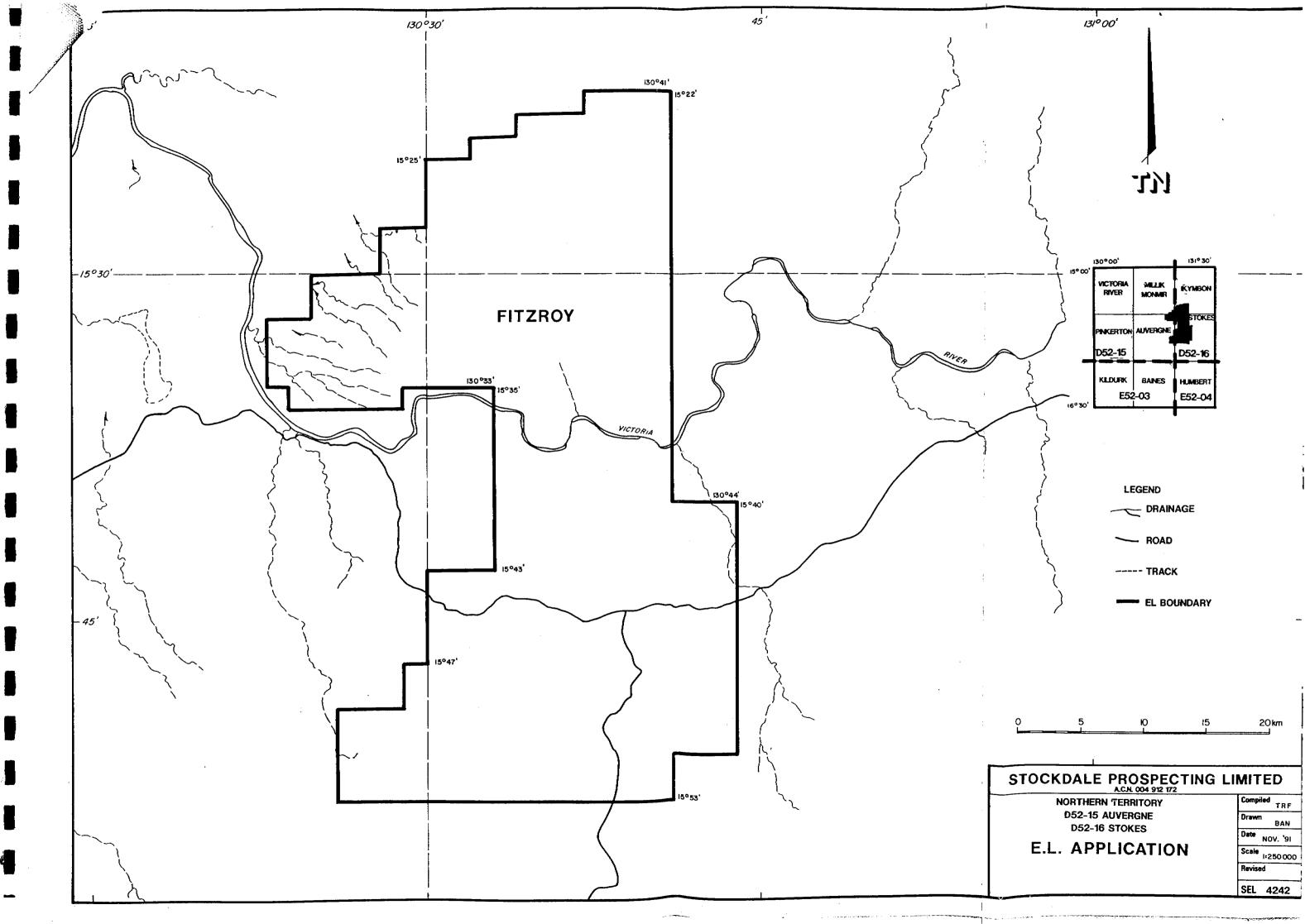
#### "Fitzroy"

Commencing at intersection of latitude 15°22' and longitude 130°37', thence east to intersection of latitude 15°22' and longitude 130°41', thence south to intersection of latitude 15°40' and longitude 130°41', thence east to intersection of latitude 15°40' and longitude 130°44', thence south to intersection of latitude 15°51' and longitude 130°44', thence west to intersection of latitude 15°51' and longitude 130°41', thence south to intersection of latitude 15°53' and longitude 130°41', thence west to intersection of latitude 15°53' and longitude 130°26', thence north to intersection of latitude 15°49' and longitude 130°26', thence east to intersection of latitude 15°49' and longitude 130°29', thence north to intersection of latitude 15°47' and longitude 130°29', thence east to intersection of latitude 15°47' and longitude 130°30', thence north to intersection of latitude 15°43' and longitude 130°30', thence east to intersection of latitude 15°43' and longitude 130°33', thence north to intersection of latitude 15°35' and longitude 130°33', thence west to intersection of latitude 15°35' and longitude 130°29', thence south to intersection of latitude 15°36' and longitude 130°29', thence west to intersection of latitude 15°36' and longitude 130°24', thence north to intersection of latitude 15°35' and longitude 130°24', thence west to intersection of latitude 15°35' and longitude 130°23', thence north to intersection of latitude 15°32' and longitude 130°23', thence east to intersection of latitude 15°32' and longitude 130°25', thence north to intersection of latitude 15°30' and longitude 130°25', thence east to intersection of latitude 15°30' and longitude 130°28', thence north to intersection of latitude 15°28' and longitude 130°28', thence east to intersection of latitude 15°28' and longitude 130°30', thence north to intersection of latitude 15°25' and longitude 130°30', thence east to intersection of latitude 15°25' and longitude 130°32', thence north to intersection of latitude 15°24' and longitude 130°32', thence east to intersection of latitude 15°24' and longitude 130°34', thence north to intersection of latitude 15°23' and longitude 130°34', thence east to intersection of latitude 15°23' and longitude 130°37', thence north to the point of commencement.

AUVERGN	E 25/6
3641 - 4041 3642 - 4042 3443 - 4043 3444 - 4044 3445 - 4045 3546 - 3946 4058 4059 3760 - 4060 3761 - 4061 3762 - 4062 3763 - 4063	(5) (7) (7) (5) (1) (1) (4) (4)
MILLIK MO	NMIR 25/3
3969 - 4069 3970 <b>-</b> 4070	(2) (2)
IKYMBON 2	26/1
1863 - 2163 1564 - 2164 1365 - 2165 1166 - 2166 1167 - 2167 1168 - 2168 1169 - 2169 1170 - 2170	(4) (7) (9) (11) (11) (11) (11)
STOKES 26/4	1
1141 - 2141 1142 - 2142 1143 - 2143 1144 - 2144 1145 - 2145 1446 - 2146 1447 - 2147 1448 - 2148 1449 - 2149 1450 - 2150 1451 - 2451 1452 - 2452 1453 - 2453 1154 - 2454 1155 - 2455 1156 - 2456 1157 - 2457 1158 - 2458 1159 - 2459 1160 - 2460 1161 - 2461 1162 - 2162 1163 - 2163	(11) (11) (11) (11) (11) (8) (8) (8) (8) (8) (11) (11

Total number of blocks: 395

Area: 1272 sq km (approx)



# Department of Mines and Energy

CENTREPOINT TOWERS BUILDING, THE MALL, DARWIN N.T. 0800 G.P.O. BOX 2901, DARWIN, N.T. 0801, AUSTRALIA

TELEPHONE: (089) 89 5511 FACSIMILE: (089) 81 4806



PROMOTING GROWTH THROUGH RESOURCES

#### TITLES ADMINISTRATION BRANCH

EL 7768

Mr J Joyce Senior Divisional Geologist Stockdale Prospecting Limited PO Box 3152 DARWIN NT 0801 267 IUC 5 2 O JUL 1935

Dear Mr Joyce

I am pleased to advise that I, as Delegate of the Minister for Mines and Energy have granted Exploration Licences 7647, 7656, 7657, 7658, 7659, 7671, 7672 and 7708 each for a period of 6 years. The relevant licence documents are enclosed.

You are reminded that exploration licences are granted with the expectation that you will *inter alia* comply with the expenditure covenant. Failure to honour this obligation could result in the licences being liable for cancellation.

These licences are granted subject to the Mining Act 1980 and its Regulations and all other laws of the Northern Territory as are applicable. Before any field work is commenced, it is essential that all persons to be employed on the licence areas be fully conversant with the conditions on which the licences are granted.

Your attention is drawn to the requirement for notification and prior approval of substantial disturbance, and I enclose Environmental Guideline No. 1 on this subject.

Explanatory Notes are attached for submitting annual and final reports under sections 32 and 34 of the Mining Act. Please note item 3 in the Explanatory Notes on Reporting, whereby transparencies must be provided for any plans larger than A3 size. Transparencies are less susceptible to damage or fading and are easier to reproduce for future records.

Under the Mineral Royalty Act, expenditure in the Northern Territory on exploration work carried out may be claimable as eligible exploration expenditure for the issue of Exploration Expenditure Certificates. These may be sold or used to reduce royalty payable on exploration or mining titles. Guidelines with respect to these Certificates are available from the Royalty Branch (telephone 89 5444).

Strict compliance with the enclosed "Code of Conduct" of the Northern Territory Chamber of Mines is expected. Any deviation from this code which has an adverse impact on the landowner(s)/occupier(s) may jeopardise your title holdings and tarnish the mining industry's image and relationship with other land users and interested groups. In the interest of a smooth working relationship, you should contact the landowner(s)/occupier(s) whose land is likely to be affected by any exploration or mining activity, including access, to provide details of your programs and to exchange contact names and addresses, particularly where you engage contractors.

You should be aware that the land over which Exploration Licences 7647, 7656, 7657, 7671, 7672 and 7708 are granted is subject to Aboriginal land claims. Areas covered by land claims within EL's 7671 and 7672 have been recommended for grant as Aboriginal land in accordance with provisions of the Aboriginal Land Rights (Northern Territory) Act. Accordingly, the land may become "Aboriginal land" within the meaning of that Act. It is the view of the Department of Mines and Energy that a licence which predates the grant of Aboriginal land is not invalidated by the grant. However, the Northern Territory makes absolutely no warranty to this effect and advises you to take your own legal advice to satisfy yourself that your rights under the licence are preserved if and when the land becomes Aboriginal land under the Aboriginal Land Rights (Northern Territory) Act.

Exploration Licences 7656, 7657, 7658 and 7659 partially fall over Gregory National Park, therefore special conditions are attached to those licence documents.

The Conservation Land Corporation of the NT have requested that in the future, when you notify them, as land owners/occupiers under section 17(2) of the NT Mining Act, you provide details of exploration proposals for the first year of any licence. This will allow them to better determine the effects of proposed exploration on their Parks.

I concur with this request and enclose a list of suggested particulars that may be included with notices. To expedite processing and ensure validity of licence grant, I would suggest also that lists of owners and occupiers required under s17(c) are lodged **individually** with each application.

Yours sincerely

Principal Registrar

 $C^{7}P$  SMITH

# NORTHERN TERRITORY OF AUSTRALIA

#### MINING ACT

#### EXPLORATION LICENCE

EL No. 7647

Stockdale Prospecting Limited, ACN 004 912 172 is hereby licensed, for a period of 6 (six) years from the date hereof, to explore in accordance with the provisions of the Mining Act, the regulations thereunder and the terms and conditions specified in the First Schedule, all the area of land delineated in the Second Schedule excluding therefrom all land vested in the Commonwealth and all radio repeater sites held by the Australian Telecommunications Commission.

C P SMITH

Principal Registrar

as Delegate of the Minister for Mines and Energy

DATE 23/7/92

#### FIRST SCHEDULE

- 1. The licensee shall ensure that a minimum amount of \$15 000 is expended in carrying out exploration on the licence area during year one (1) of the licence.
- 2. The licensee shall comply with the provisions of and directions lawfully given under this Act and all other laws in force in the Territory as are applicable to his activities on the licence area.
- 3. Not later than one (1) month after the expiration of each 12 month period of this licence, the holder shall submit in writing a statement specifying the details of the exploration programme reflecting expenditure for the next year of the licence.

# SECOND SCHEDULE (Plan of Area)

