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Transparencies In
Cylinder 3492/1

TENEMENT: E.L. 454 - Cooyerdoo Station.

TENEMENT HOLDER: Stockdale Prospecting Limited.

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Env. -3492, 3493

EL 451, 454, 874 Gilles Downs, Cooyerdoo. Progress reports from 11.1.79 to 13.3.83. (Stockdale Prospecting Ltd, Mobil Energy Minerals Aust. Inc.). 41 pages (~~including 78 pages text, 2 figs., 17 references, 21 reports~~), ~~maps, 10 volumes.~~

Authors: Stracke, K.J., Falk, T.L., Birch, J.S. and Von Strokirch, T.

Map area: PORT AUGUSTA (SI/53-04:6232-1, 2, 6332-3,4)
WHYALLA (SI/53-08:6331-4)

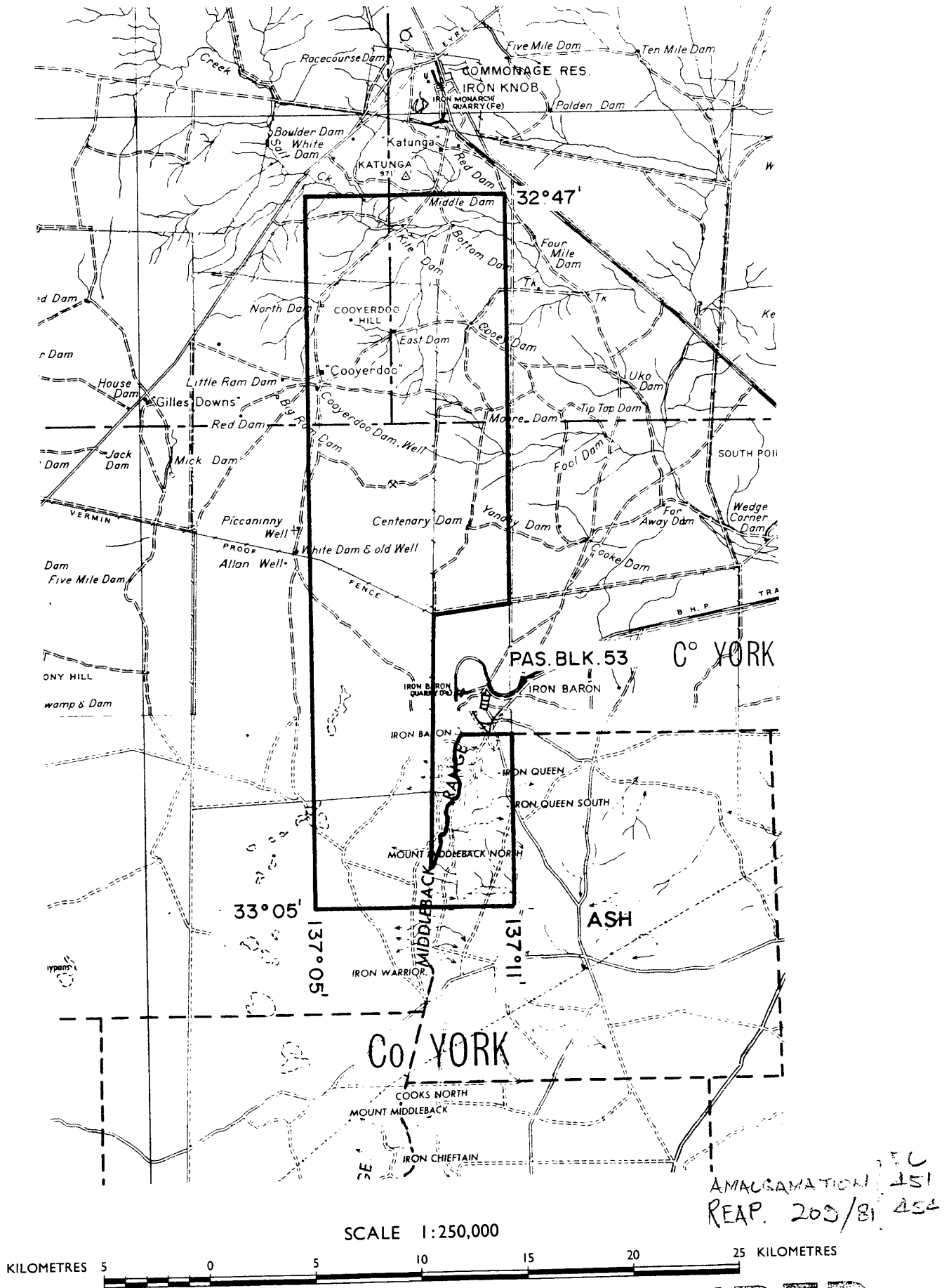
About 1800 stream and loam samples were collected for kimberlite indicator minerals analysis, and some detailed geological mapping was carried out in an area centred about 15 km east of L. Gilles on Northern Eyre Peninsula. Follow up ground magnetic surveys were used to site 37 rotary drill holes totalling 1280 m. No kimberlitic rocks were identified. About 650 samples were analysed for uranium and a ground spectrometric survey was carried out at the north eastern end of L. Gilles.

Following a joint venture agreement, ground magnetic, gravity and track etch surveys, stream and rock chip sampling, and RAB drilling (40 holes totalling 1521 m) was carried out in Hutchison Group for base metals and uranium.

Keywords: MINERAL EXPLORATION-SA/Diamonds/Base metals/
Uranium/Heavy mineral sampling/Geochemical exploration/Soil
sampling/Stream sediment sampling/Trenching/Geological mapping/
Photointerpretation/Rotary drilling/Geological logs/Petrology/
Geophysical surveys/Ground magnetic surveys/Ground radioactivity
surveys/EM survey method/Gravity surveys/Track etch surveys/
Magnetic susceptibility/Proterozoic/Hutchison Group/Burkitt
Granite/Gawler Craton/Gilles Downs/Lake Gilles/Cooyerdoo Hill/
Middleback Ranges/Katunga Hills/

Elements analysed: U/Th/Y/Zr/Ce/La/Cu/Pb/Zn/Ag/Ni/Co/Fe/Mn

SCHEDULE A



APPLICANT: STOCKDALE PROSPECTING LIMITED

DME: 611 / 78

AREA: 283

square kilometres

1:250 000 PLANS: PORT AUGUSTA WHYALLA

LOCALITY: COOYERDOO STN. AREA - approx. 50 km NW of Whyalla

DATE GRANTED: 13-3-79

DATE EXPIRED: 29.3.80 *81*

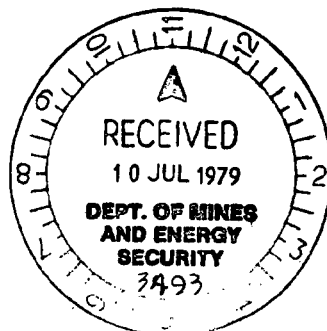
EL No: 454

EXPIRES

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NUMBER 454 COOYERDOO

FIRST QUARTERLY REPORT TO 29TH JUNE, 1979



STOCKDALE PROSPECTING LIMITEDEXPLORATION LICENCE NUMBER 454 - COOYERDOOFIRST QUARTERLY REPORT TO 29TH JUNE, 19791. INTRODUCTION

Exploration Licence Number 454, covering 283 square kilometres of the Cooyerdoo Station area (Map 1), was granted on the 30th March, 1979 to Stockdale Prospecting Limited.

This report gives a brief resume of Stockdale's prospecting in the general area, prior to the granting of the Exploration Licence.

2. PROSPECTING HISTORY PRIOR TO MARCH 1979

Regional prospecting by Stockdale on the Eyre Peninsula has proceeded intermittently since 1968. This work has been successful in delineating two distinct areas where samples were found to contain kimberlitic indicator minerals.

To the east, centred on Port Augusta, kimberlitic indicators led us to three kimberlite bodies. To the west, centred on Gilles Downs station, follow-up work is presently in progress within EL 451 also held by Stockdale Prospecting Limited. The spread of kimberlitic indicator grains within EL 451 is such that it was in our interest to secure ground to the immediate east. Up to 12th December 1978 this ground however was reserved from the operation of the Mining Act pursuant to the BHP Indenture Act of 1958. We thus had no idea of the potential of this area for diamondiferous kimberlite intrusion.

Once the BHP Indenture Act expired therefore, application was made for ground as shown on Map 1.

3. CURRENT SAMPLING

Detailed prospecting within ELs 451 and 454 is being undertaken as a single exercise. Up to this time however, all sampling has been conducted within EL 451 so that no work has taken place with EL 454.

4. SUMMARY OF PROSPECTING PROGRESS

No sampling has been conducted during the report period.

5. FUTURE PROGRAMME

Once initial follow-up work within EL 451 has been completed, staff will become available to similarly tackle the area covered by EL 454. It is anticipated that this shift of emphasis should come about either late in the second quarter or early in the third quarter.

6. STAFF

Other than for scant ground orientation and background reading by both the Regional Geologist and Project Geologist, no staff have been allocated to this area during the report period.

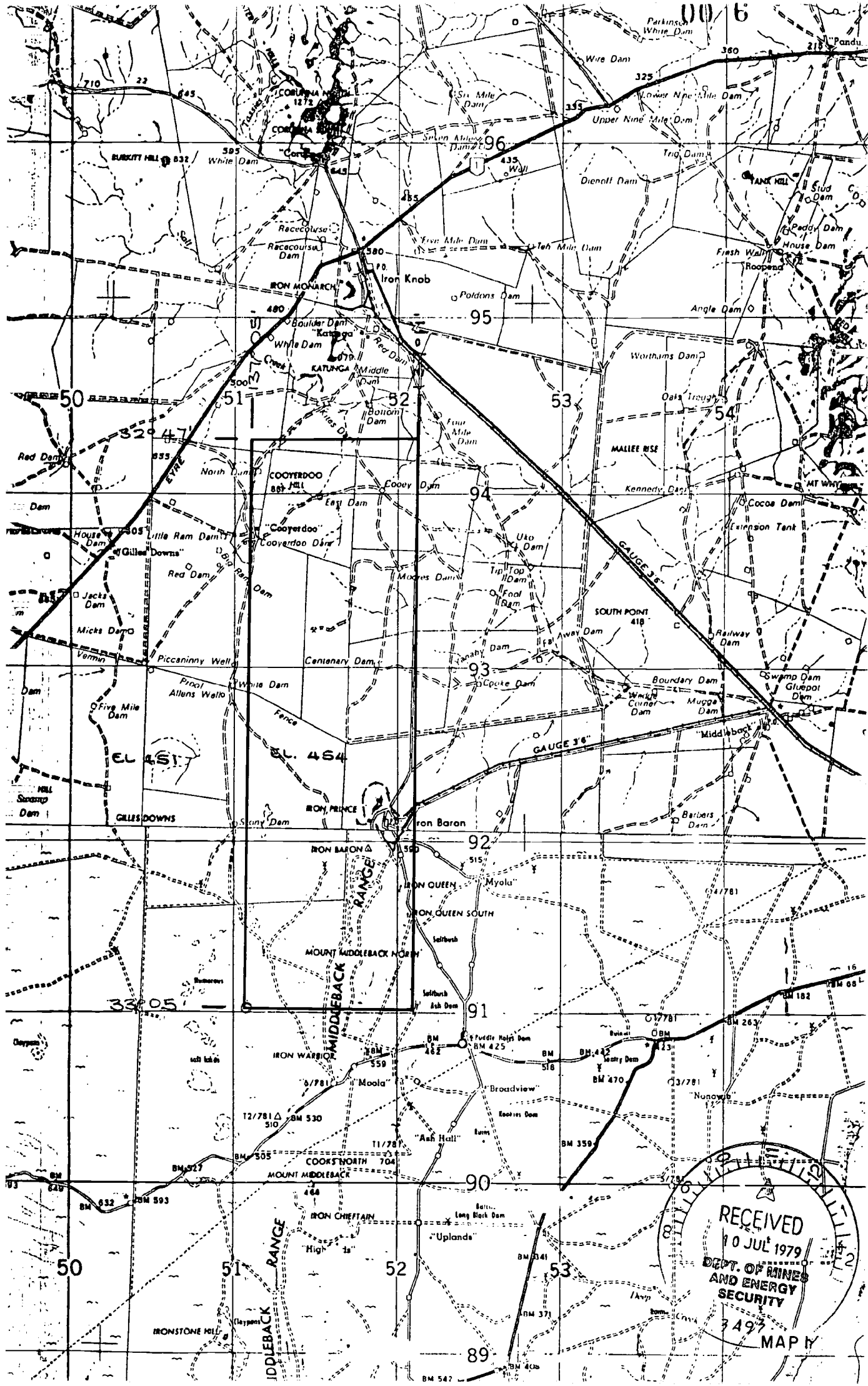
7. EXPENDITURE

No expenditure has been attributed to this project for this period.



Melbourne
June 1979.

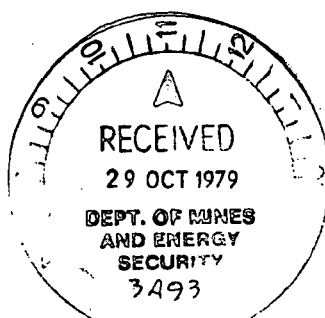
K.J. STRACKE
Exploration Manager.



STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NUMBER 454 COOYERDOO

SECOND QUARTERLY REPORT TO 29TH SEPTEMBER, 1979.



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STOCKDALE PROSPECTING LIMITEDEXPLORATION LICENCE NUMBER 454 COOYERDOOSECOND QUARTERLY REPORT TO 29TH SEPTEMBER, 1979.1. INTRODUCTION

This report covers exploration work in the licence area for the three month period ended 29th September 1979.

2. CURRENT SAMPLING

The anticipated shift in emphasis from neighbouring EL 451 to EL 454 came about late in the report period. To cover the 283 square kilometres of EL 454 close interval stream samples are collected, with loam sampling over ill-drained areas.

To date 20 such samples have been collected mainly in the southern half of the EL, as shown by Map 2 SEL 868.

3. SUMMARY OF PROSPECTING PROGRESS

Stream samples	20
Area covered	80 sq km

4. FUTURE PROGRAMME

Continue the present sampling programme to cover the remainder of EL 454.

5. RESULTS

No results have been received.

6. STAFF

The staff employed during the period were as follows: -

<u>Classification</u>	<u>Average No. Employed</u>
Geologist	1
Prospecting Hand	1

Assistance was given by the Exploration Manager and Regional Geologist and this project was supported by the facilities of our office and laboratories in Melbourne and Johannesburg.

7.

The expenditure for the period was as follows: -

Management	\$ 85
Administration/office overheads	432
Field Staff costs - technical	476
other	745
General filed expenses	590
Transport - ground	260
air	632
Equipment	760
Sample examination	726
Remote Sensing	152
	<hr/>
Total for this period	\$ 4858
Previous expenditure	\$ Nil
Expenditure to date	\$ 4858

Melbourne
October 1979.

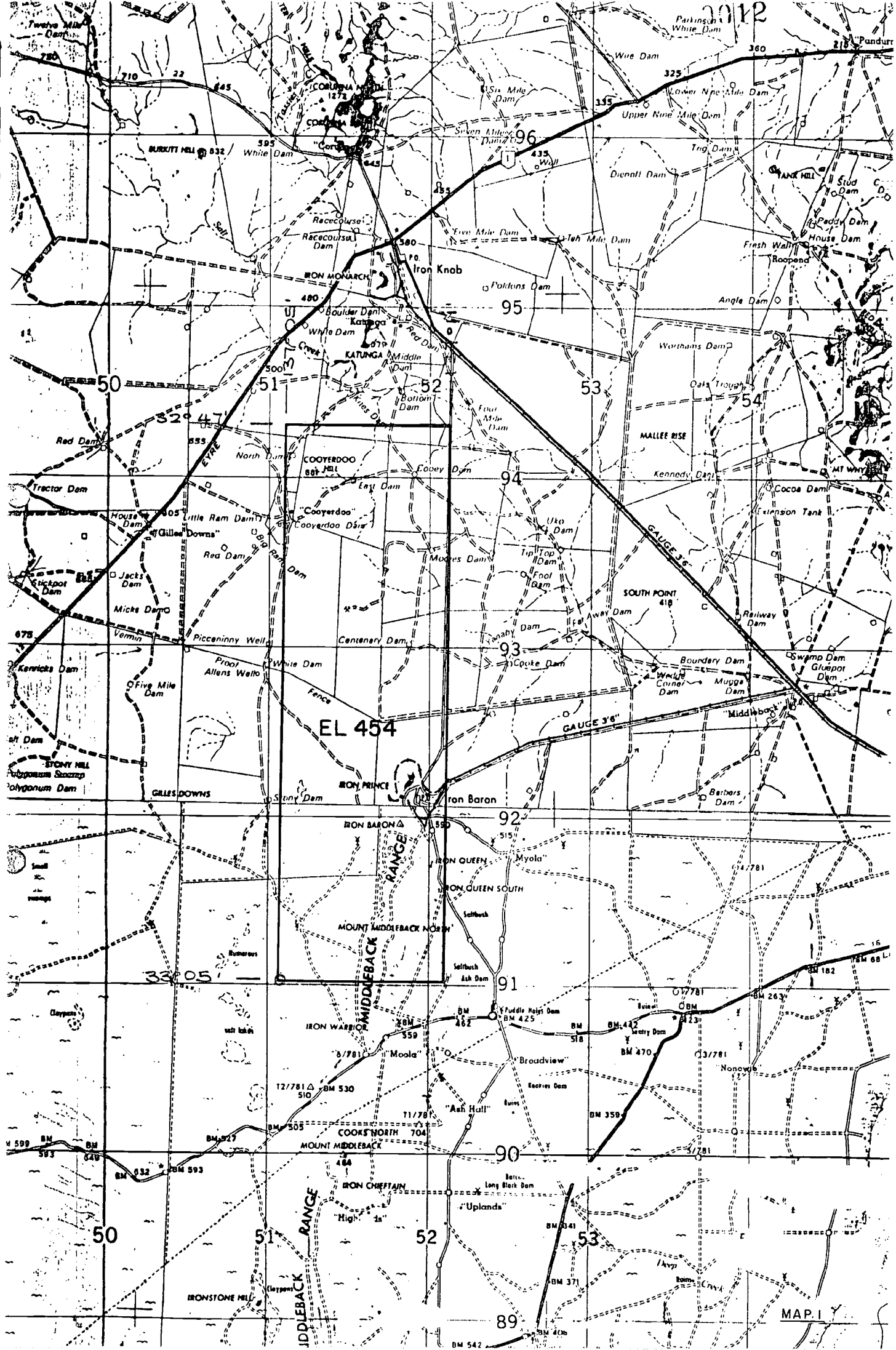
F. Hirsch

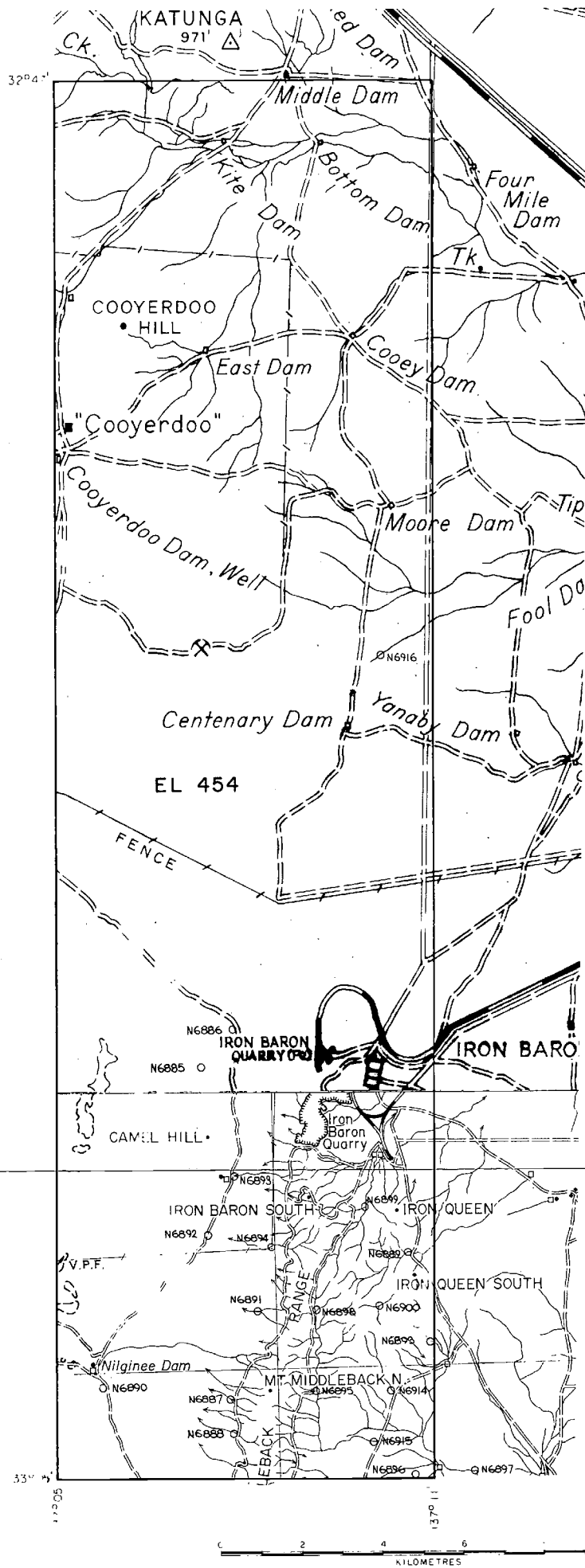
K.J. STRACKE,
Exploration Manager.

JJ:SS

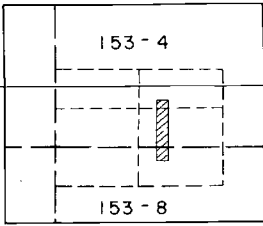
M A P S

Map 1	Cooyerdoo Exploration Licence	1:250,000
Map 2	SEL 868 EL 454 Current Sampling	1:100,000





SAMPLES
N6885 - N6900
N6914 - N6916



LOCATION MAP



STOCKDALE PROSPECTING LIMITED

EL 454 CURRENT SAMPLING

DRAWN BY: COMPILED: SCALE 1:100,000 SEL 868

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NUMBER 454 COOYERDOO

THIRD QUARTERLY REPORT TO 29TH DECEMBER, 1979.

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STOCKDALE PROSPECTING LIMITEDEXPLORATION LICENCE NUMBER 454 COOYERDOOTHIRD QUARTERLY REPORT TO 29TH DECEMBER, 1979.1. INTRODUCTION

This report covers exploration work in the licence area for the three month period ended 29th December, 1979.

2. CURRENT SAMPLING

To cover the 283 square kilometres of EL 454 close interval stream samples have been collected, with loam sampling over ill-drained areas. Over half the area of EL 454 has now been effectively covered with such sampling.

3. SUMMARY OF PROSPECTING PROGRESS

Stream samples	50
Area covered	60
Loam samples	37
Area covered	40

4. RESULTS

No results have been received.

5. FUTURE PROGRAMME

Any future programme is largely dependent on results received. Consequently no comment can be made at this time. However fill-in sampling will continue to cover the remainder of the EL area.

6. STAFF

The staff employed during the period were as follows: -

<u>Classification</u>	<u>Average No. Employed</u>
Geologist	1
Prospecting Hand	1

Assistance was given by the Exploration Manager and Regional Geologist and this project was supported by the facilities of our office and laboratories in Melbourne and Johannesburg.

7. EXPENDITURE

The expenditure for the period was as follows: -

Management	\$ 364
Administration/office overheads	1,878
Field Staff costs - technical	2,070
other	3,236
General field expenses	2,557
Transport - ground	1,130
- air	2,748
Equipment	3,304
Sample examination	3,157
	<hr/>
Total for this period	\$ 20,444
Previous expenditure	\$ 4,858
Expenditure to date	\$ 25,302

Melbourne
January, 1980.

Hirsch

K.J. STRACKE,
Exploration Manager.

JJ:ss

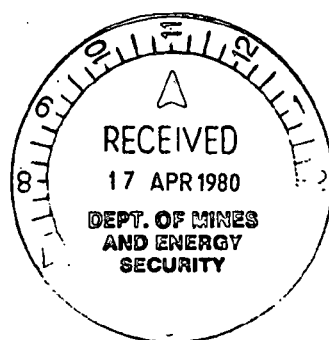
M A P S

MAP 1		1:250,000	Cooyerdoo Exploration Licence
MAP 2	SEL 868	1:100,000	EL 454 Current Sampling

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NUMBER 454 COOYERDOO

FOURTH QUARTERLY REPORT TO 29th MARCH, 1980.



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EXPLORATION LICENCE NUMBER 454: COOYERDOO
FOURTH QUARTERLY REPORT TO MARCH 29, 1980.

1. INTRODUCTION

This report covers exploration work in the licence area for the three month period ended March 29, 1980.

2. PROSPECTING PROGRESS

Since the area had effectively been covered by close interval stream and loam samples during the last quarter no further field work was planned until results were received. With the Christmas work break/holidays results were delayed until late in the last quarter and the results produced required further "processing" prior to any follow-up work being conducted. Consequently no field work was undertaken during the report period.

A photo-geological study was made of available photographs over EL 451, EL 454 and EL 537, all held by Stockdale Prospecting Limited. Results of this study are awaited.

3. RESULTS RECEIVED

Two samples P7515 and P7510 were reported to contain "ilmenitic" grains which have been despatched for more critical examination prior to any definite conclusions being drawn.

Two further samples, one in EL 451 (P7525) and the other in EL 537 (P7424), also contained ilmenitic grains which were similarly submitted for further analysis. These grains may be derived from a source or sources within EL 454.

4. FUTURE PROGRAMME

Exploration sampling will be continued in EL 451, EL 454 and EL 537. Follow-up sampling of the results noted above will be undertaken if the grains are confirmed as kimberlitic.

A possibly kimberlitic garnet site at K1195 within EL 451 may be derived from within EL 454 and the follow-up exercise on that site will encroach into the Cooyerdoo Licence.

Any photo-anomalies observed will be investigated.

5. STAFF

0022

<u>Classification</u>	<u>Average Number Employed</u>
Geologist	1
Prospecting Hands	2

The Exploration Manager supervised the project and assistance was given by the Regional Geologist. The work was supported by the facilities of our Melbourne Office and laboratories in Johannesburg and Melbourne.

6. EXPENDITURE

Expenditure for the period was as follows:

Management/Office services	\$ 474
Field Staff - Technical	879
Other	543
General Field Expenses	572
Transport - Ground	216
Equipment amortisation	310
Specialist services:	
Photogeology	500
 TOTAL FOR THIS PERIOD	 \$ 3,494
 Total for previous period	 \$ 25,302
 Total expenditure to date	 \$ 28,796



K.J. STRACKE,
Exploration Manager.

Melbourne,
10/4/80

PRJ:ss

0023

STOCKDALE PROSPECTING LIMITED
EXPLORATION LICENCE NUMBER 454 COOYERDOO
FIFTH QUARTERLY REPORT TO 29TH JUNE, 1980



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STOCKDALE PROSPECTING LIMITED
EXPLORATION LICENCE NUMBER 454 COOYERDOO
FIFTH QUARTERLY REPORT TO 29TH JUNE, 1980

1.0 INTRODUCTION

This report covers exploration work in the licence area for the three month period ended June 29th, 1980.

2.0 DIAMOND SEARCH

2.1 PROSPECTING PROGRESS

No diamond search field work has been carried out in the EL 454 during this quarter.

2.2 RESULTS RECEIVED

The two samples P7515 and P7510 which were previously reported to contain "ilmenite" grains have been examined and were found to be non-kimberlitic.

Two other samples, one in EL 451 (P7525) and the other in EL 537 (P7424) also contained ilmenite grains which were also found to be non-kimberlitic in origin.

Results in EL 451 have been most encouraging with many positive samples in the southern central area. The effect of these positive results will be reflected in the proposed future work to be carried out in EL 454.

2.3 FUTURE WORK PROGRAMME

The possibly kimberlitic garnet at K1195 in the south-east of EL 451 will be followed up by establishing a 200m loam grid of approximately 2km x 2km over the site to try to confirm or negate the presence of indicator minerals.

On the 1:50,000 scale aeromagnetic map sheet 79-251, Iron Baron 6332-111 there is an anomaly which has been selected by our geophysicist for investigation. A ground magnetometer survey will be carried out on a 50 x 50m or 50 x 25m grid spacings with sampling where necessary.

Photo anomalies will also be studied and sampled where necessary.

2.4 STAFF

CLASSIFICATION

AVERAGE NUMBER EMPLOYED

0026

Geologist	1
Prospecting Hands	2

The Exploration Manager supervised the work on this project and assistance was given by the Regional Geologist.

Work was supported by the facilities of our Melbourne office and laboratory and personnel from Johannesburg, South Africa.

2.5 EXPENDITURE

Since no field work was carried out during this quarter no expenditure allocation has been made.

Total expenditure to date on diamond exploration in EL 454 is \$28,796.

3.0

URANIUM SEARCH

3.1 INTRODUCTION

As indicated in earlier reports, stream and loam geochemical samples are collected simultaneously with samples taken for heavy mineral analysis in our diamond search.

In this area south-west of Port Augusta it is apparent that adjacent exploration licences are being explored for uranium. It was decided therefore to use the geochemical samples already collected to provide a preliminary coverage of uranium analyses. Geochemical samples collected in Stockdale Exploration Licences 451, 454 and 537 have been analysed and assessed under the supervision of the Senior Geochemist of Stockdale's associate company, Australian Anglo American Limited.

3.2 SAMPLING - ANALYTICAL WORK

The -175 micron fraction of each sample was analysed for uranium at a detection limit of 0.1 ppm by laser induced fluorescence after digestion in hot 70% HClO_4 and solvent extraction. Statistics were not calculated for individual licences and relevant statistics for all samples are shown in Table 1.

In all, 719 loam geochemical samples and 435 stream samples were submitted for analysis. Of these, 40 stream samples and one loam sample were from EL 454.

3.3 RESULTS

Since most of the samples analysed in this exercise were collected from EL 451, the results obtained have been discussed in detail in the Fifth Quarterly Report to 11th June 1980 for that area. 0027

Results of the 41 samples in EL 454 are generally low with maximum values of 2.4 ppm U being obtained from two samples in the north-west of the licence area, in drainage from an anomalous area (2.9 - 4.9 ppm) in EL 451, apparently associated with the Cleve Metamorphics.

3.4 FOLLOW-UP WORK

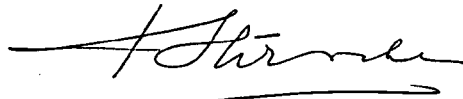
From the results of this analytical work the following targets appear plausible in Stockdale's licences in this area.

- a) Uranium (vein or disseminated) deposits associated with the Burkitt Granite.
- b) Calcrete deposits associated with the north-eastern margins of Lake Gilles.
- c) Undefined type targets within the Cleve Metamorphics possible associated with volcanics.

Follow-up work consisting of ground spectrometer traverses are proposed to define areas of further interest.

3.5 EXPENDITURE

Uranium search expenditure of \$7,040 reported in the Fifth Quarterly Report to 11th June, 1980 for EL 451, includes the work done in EL 454.



K.J. STRACKE
Exploration Manager

Melbourne
June 1980

TJI:ALC:bg

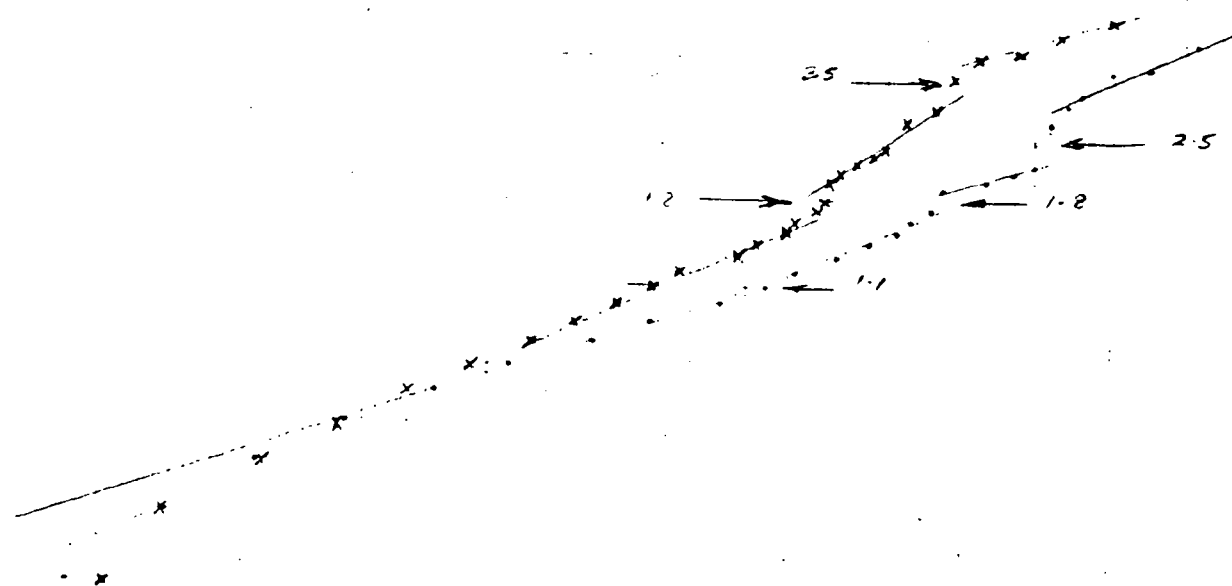
~~10/1/88~~

0028

Sample Type	No.	Range (ppm) U	Mean (ppm) U	Standard Deviation (ppm)	Breakpoints
(a) Stream sediments	435	0-14	1.4	1.2	0.65, 1.7, 3.0, 5.0
(b) Detailed loams	605	0-5.0	0.8	0.5	1.1, 1.8, 2.5
(c) Regional loam	215	0-6.2	1.0	0.8	1.8, 3.5

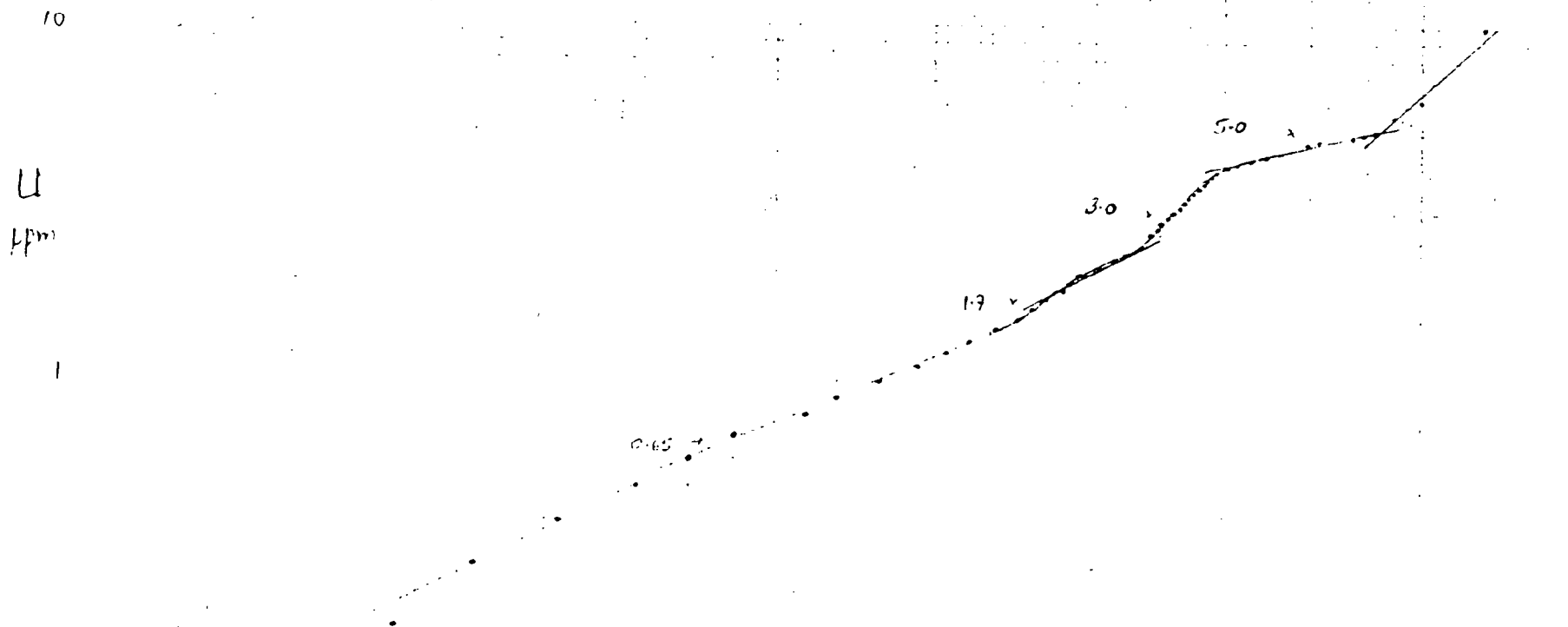
Table 1 - Geochemical statistics of sample coverage.

NB For results and numbered sample locations see Env. 3492 5th Quarterly Rpt.



LAKE GILLES

xx Regional Loam
.. Detailed traverses

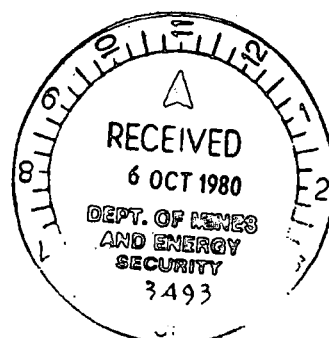


LAKE GILLES

Stream Sediments

0031

STOCKDALE PROSPECTING LIMITED
EXPLORATION LICENCE NUMBER 454 COOYERDOO
SIXTH QUARTERLY REPORT TO 29TH SEPTEMBER, 1980



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STOCKDALE PROSPECTING LIMITED
EXPLORATION LICENCE NUMBER 454 COOYERDOO
SIXTH QUARTERLY REPORT TO 29TH SEPTEMBER, 1980

0033

1.0 INTRODUCTION

This report covers exploration in the licence area for the three month period to 29th September, 1980.

2.0 DIAMOND SEARCH

2.1 Prospecting Progress

No field work has been carried out in the licence during this quarter.

2.2 Results Received

No results were outstanding.

2.3 Future Work Programme

Further work in EL 454 will depend upon results received from a loam sampling grid recently completed on site K1195, a possibly kimberlitic garnet in EL 451.

On the 1:50,000 scale aeromagnetic map sheet 79-251, Iron Baron 6332 - III, there is an anomaly which has been selected by our Consultant Geophysicist for investigation. A ground magnetometer survey will be carried out over the area on a grid of either 50 x 50 m or 50 x 25 m, with sampling where necessary.

Air photographs will be studied and any photo-anomalies will also be investigated and sampled where deemed appropriate.

2.4 Staff

<u>Classification</u>	<u>Average No. Employed</u>
Geologist	1
Prospecting Hands	3

The Exploration Manager supervised the work on the project and assistance was given by the Regional Geologist.

2.5 Expenditure

0034

Since no field work was carried out during this quarter no expenditure allocation has been made.

Total expenditure to date on diamond exploration in EL 454 is \$28,796.

3.0 URANIUM SEARCH

From the results of the analytical work reported in the previous quarter the following targets were suggested as plausible in Stockdale's licences in the area.

- a) Uranium (vein or disseminated deposits associated with the Burkett Granite).
- b) Calcrete deposits associated with the north-eastern margin of Lake Gilles.
- c) Targets of undefined type within the Cleve Metamorphics, possibly associated with volcanics.

The third possibility (c) is considered the more likely in Exploration Licence 454. However, since the anomalous analytical results were recorded from samples taken in streams draining the adjacent licence (Gilles Downs EL 451), all follow-up work done so far has been confined to that licence (See the Sixth Quarterly Report to 11th September on EL 451 for details.)



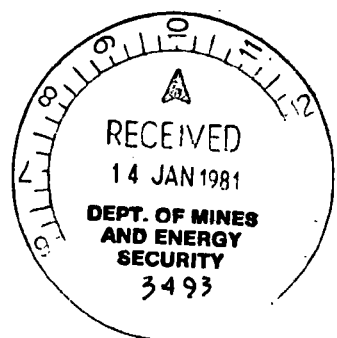
MELBOURNE
SEPTEMBER, 1980

K.J. STRACKE
Exploration Manager

TJI/ALC:bs

0035

STOCKDALE PROSPECTING LIMITED
EXPLORATION LICENCE NUMBER 454 COOYERDOO
SEVENTH QUARTERLY REPORT TO 29TH DECEMBER, 1980



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STOCKDALE PROSPECTING LIMITED
EXPLORATION LICENCE NUMBER 454 COOYERDOO
SEVENTH QUARTERLY REPORT TO 29TH DECEMBER, 1980

0037

1.0 INTRODUCTION

This report covers exploration in the licence area for the three month period to 29th December, 1980.

2.0 PROSPECTING PROGRESS

No field work has been carried out in the licence during this quarter.

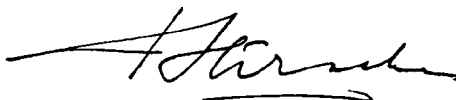
3.0 RESULTS RECEIVED

All samples from the loam grid on EL 451 close to the boundary with EL 454 were negative making this area of a lower priority than others. However, there is still ground magnetometer work to be done out in the EL during the next quarter.

4.0 EXPENDITURE

Since no field work was carried out during this quarter no expenditure allocation has been made.

Total expenditure to date on diamond exploration in EL 454 is \$28,796.



K.J. STRACKE
Exploration Manager

MELBOURNE
DECEMBER, 1980

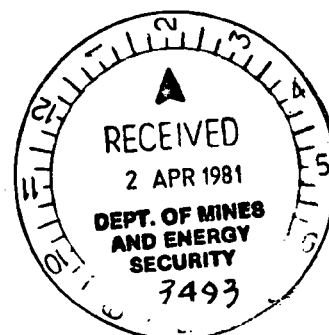
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0038

STOCKDALE PROSPECTING LIMITED

EXPLORATION LICENCE NO 454 : COOYERDOO

EIGHTH QUARTERLY REPORT TO 29TH MARCH 1981



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STOCKDALE PROSPECTING LIMITED

0040

EXPLORATION LICENCE NUMBER 454 : COOYERDOO

EIGHTH QUARTERLY REPORT TO 29TH MARCH, 1981

1. INTRODUCTION

This report covers exploration conducted in the licence area for the three month period ending 29th March 1981.

2. EXPLORATION WORK

With tenure of the licence area for a two year period ending on the 29th March, 1981 *? reviewed* it was necessary to review all the work and results for the period of tenancy. Considering the number of sites reported to contain kimberlitic indicator minerals from Stockdale Prospecting Limited's adjoining EL's 451 and 537, the Cooyerdoo EL had been surprisingly unproductive. Since this seemed anomalous in itself, the Regional Geologist requested re-examination of the stream samples in the southern portion of the licence. The re-examined samples were the twenty samples reported in the 2nd Quarterly report for the period ending 29th September 1979, which lay closest to a possible kimberlitic garnet known from EL 451 and the abundant ilmenitic sites in that licence.

The re-examination produced from sample N6890, immediately south of Nilginee Dam, a single kimberlitic ilmenite which now requires more detailed follow up.

3. SUMMARY OF PROSPECTING PROGRESS

20 stream sediment samples were re-examined for kimberlitic indicators.

4. RESULTS RECEIVED

Sample N6890 was found, on re-examination, to contain kimberlitic ilmenite.

5. FUTURE PROGRAMME

A follow up programme will be mounted upon completion of a study of the aerial photographs on order from South Australian Government.

6. STAFF

0041

The staff employed during the quarter were as follows:

<u>Classification</u>	<u>Av. No. Employed</u>
Geologist	1

The Regional Geologist was closely involved during the report period since expiry of the licence was imminent. The project was supported by the facilities of our office and laboratory in Melbourne with special services provided by our Johannesburg laboratory.

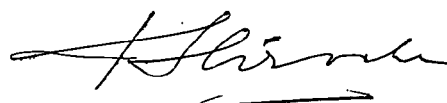
7. EXPENDITURE

Expenditure for the period was as follows:

Management/Office Services	\$900
Sample Handling/Examination	\$800
TOTAL FOR THIS PERIOD	\$1700
TOTAL PREVIOUSLY REPORTED	\$28796
TOTAL EXPENDITURE TO DATE	\$30496

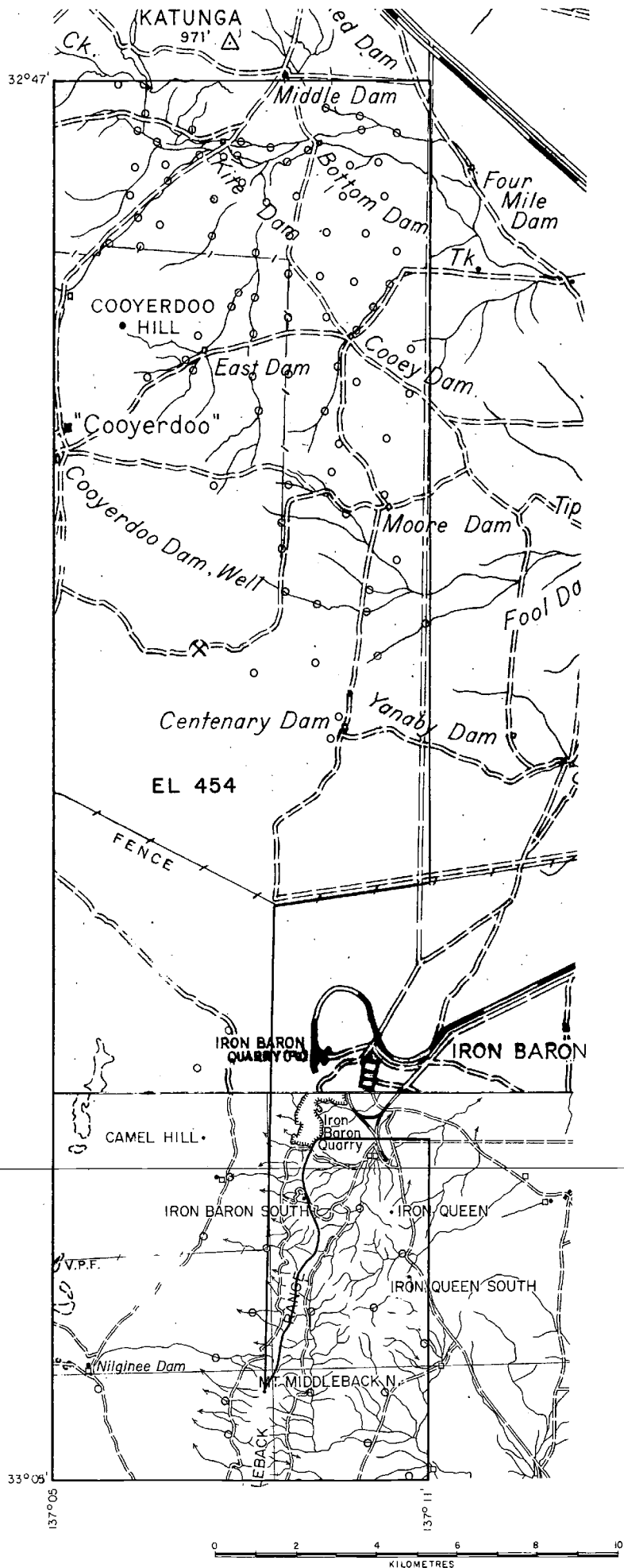
P.R. JONES
Whyalla
29/3/81

PRJ/kss

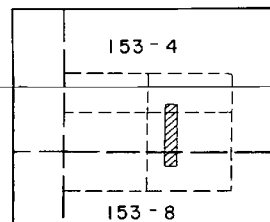


K.J. STRACKE
Exploration Manager

Distribution: SADME, PRJ, IC.



O Sample locations



LOCATION MAP

STOCKDALE PROSPECTING LIMITED

EL 454 CURRENT SAMPLING

DRAWN MAX COMPILED SCALE 1:100,000 SEL 868