January 5, 1972

Director of Mines
Mines Branch
Northern Territory Administration
Darwin, N.T. 5790

Dear Sir:

Re: Prospecting Authority No. 1374 (Ahoy Area) Period Ending December 31, 1971

An Application for an Exploration Licence over a portion of P.A. 1874 was submitted December 14, 1971, requesting an area of about 500 sq. miles.

We were informed by the Director of Mines on December 20, 1971, of acknowledgment of our application and that the matter was receiving attention.

Total expenditure to date is $57,263 including all applicable salary allocations and overhead.

This will be the final monthly report of this Prospecting Authority.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LTD.

Earl O. Abbott

EOA:bb

Earl O. Abbott

OPEN FILE

RECEIVED 10 JAN 1972
MINES BRANCH.
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, N.T. 5790

December 16, 1971

Dear Sir :

Re: PROSPECTING AUTHORITY NO. 1874 (Alroy Area)
PERIOD ENDING NOVEMBER 30, 1971

The second report obtained from Minoil Services Pty.Ltd.
has been examined and a recommendation prepared to carry out further
exploration in 1972 to determine the extent of the base metal anomaly
shown in the 1971 drilling around hole A-2-71.

We plan to drill about (20) holes at a cost of around
$12,000.

An application for an Exploration Licence covering a
portion of P.A.1874 was submitted on December 14, 1971, requesting
an area of approximately 500 square miles.

Total expenditure to date is $57,077 including all
applicable salary allocations and overhead.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

Earl O. Abbott

EOA: smg

RECEIVED
20 DEC 1971
MINES BRANCH.
November 22, 1971

Director of Mines
Mines Branch
Northern Territory Administration
Darwin, Northern Territory 5750

Dear Sir:

Re: Prospecting Authority No. 1874 (Alroy Area)
Period Ending - October 31, 1971

Results of the 1971 drilling program are still being assessed.

A program for further exploration in 1972 will be based on the assessment of the 1971 results.

Total expenditure to date is $56,891 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA, LTD.

Earl O. Abbott
October 13, 1971

Director of Mines
Mines Department
Northern Territory Administration
Darwin, Northern Territory 5750

Dear Sir:

Re: Prospecting Authority No. 1874 (Soudan Area)
Annual Report - For Period Ending September 30, 1971

During the year twenty-one (21) holes were drilled for a total footage of around 2,000 feet. Ground elevations were run on each of the new holes and also on holes drilled in earlier programs.

Attached is the Annual Report covering the 1971 drilling program.

Expenditure for the 1971 drilling program was approximately $13,500.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LTD.

Earl O. Abbott

EOA: bb

Encl.
October 13, 1971

Director of Mines
Mines Branch
Northern Territory Administration
Darwin, Northern Territory, 5750

Dear Sir:

Re: Prospecting Authority No. 1874 (Alroy Area)
   Period Ending September 30, 1971

Work is proceeding on information gathered from the holes drilled in this Prospecting Authority during June and July of 1971.

The annual report has been prepared and being submitted under a separate letter.

Total expenditure to date is $56,705 including all applicable salary allocations and overhead.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LTD.

Earl O. Abbott

EOA:bb

Earl O. Abbott
Director of Mines,  
Mines Branch,  
Northern Territory Administration,  
DARWIN, NORTHERN TERRITORY, 5750  

September 6, 1971

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Alroy Area)  
PERIOD ENDING - AUGUST 31, 1971

Final results from the 1971 drilling program have not been received. However, we expect the final report to be completed and be available for the annual report which will be submitted in October 1971.

The 1971 drilling indicated a zone of anomalous base metal mineralization. Although none of the assay values is of economic grade further work may be recommended for the Alroy Area.

Possible reserves in the two areas drilled total about 14,000,000 tons of phosphate rock having a plus 20% P₂O₅ content. The deposits are not regarded as having economic significance at this time.

Expenditures for drilling, geological, etc. of the 1971 program are as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilling</td>
<td>$5,394.40</td>
</tr>
<tr>
<td>Laboratory Testing</td>
<td>649.40</td>
</tr>
<tr>
<td>Geological Fees &amp; Expenses</td>
<td>6,654.32</td>
</tr>
<tr>
<td>Sundries (freight etc.)</td>
<td>579.39</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$13,277.51</strong></td>
</tr>
</tbody>
</table>

Total expenditure to date is $56,519 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

EOA: smg
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY, 5750

August 16, 1971

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Aldroy Area)
PERIOD ENDING - JULY 31, 1971

The drilling operations and sample collecting were completed during July, 1971.

Twenty-one holes were drilled for a total footage of around 2000 feet. Ground elevations were run on each of the new holes and also on holes drilled in earlier programs.

Samples are currently being tested by AMDEL in South Australia.

Expenditures for the drilling, geological, etc. are not all in but will be reported for the month of August.

Total expenditure to date is $43,053 including all applicable salary allocations and overhead. Expenditures for the drilling, geological, etc. are not all in but will be available for the month of August.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

EOA: smg
June 10th, 1971

Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY, 5750.

Dear Sir:

Re: Prospecting Authority No. 1874 (Alroy Area)
    Period Ending - May 31, 1971

The geologists and surveyor will leave for the field on about the middle of June. The drilling rig should be on location in the later part of June.

A total of around 16 holes are tentatively planned unless something of unusual significance is discovered during drilling.

Total expenditure to date is $42,681. including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott
Vice President and Executive Assistant
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY, 5790

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Aldroy Area)
PERIOD ENDING MARCH 31, 1971

April 20, 1971

No field work was carried out during March, 1971.

The 1971 exploration program is being reviewed by the geologists who plan on visiting this area to assess ground conditions with respect to moving a drilling rig.

At this date, access tracks in and around the tenement area are still generally impossible for heavy equipment.

Total expenditure to date is $42,309 including all applicable salary allocations and overhead.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

EOA: smg
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY 5790

February 18, 1971

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Alroy Area)
PERIOD ENDING JANUARY 31, 1971

No field work was carried out during December.

The application for renewal of Prospecting Authority No.1874 was approved for a period of twelve months expiring on the 28th December, 1971.

A meeting is scheduled in March to outline a program for 1971.

Total expenditure to date is $41,937 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

Earl O. Abbott

EOA: smg
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY, 5790

November 30, 1970

Dear Sir :

Re: PROSPECTING AUTHORITY NO.1374 (Alroy Area)
PERIOD ENDING OCTOBER 31, 1970

During the month, reports on the drilling program carried out in July-August, 1970, were completed and copies forwarded to the Director of Mines, Darwin.

Total expenditure to date is $40,345 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

Earl O. Abbott

EOA: smg
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY, 5790

October 19, 1970

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Alroy Area)
ANNUAL REPORT FOR PERIOD ENDING
SEPTEMBER 29, 1970

During the year a program of 15 holes for a total of
1,632 feet was completed in the Alroy area.

Two areas of interest were defined.

Area 1 is controlled by two holes A2-2A (Continental's
1968 drilling program) and A-10-70 (1970 drilling program). In this area
reserves of 100 million tons of 15% P₂O₅ are indicated. Drilling has
closed the area off and hence the figure quoted would be near the maximum
that could be expected.

Area 2 is controlled by hole A-12-17. In this hole
twenty feet of average 25% P₂O₅ was intersected. The area has not been
closed off by drilling.

Attached is the report on the Alroy drilling program.

Total expenditure for the year ended 30th September, 1970
is $12,206.00.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

Encl:
EOA: smg
September 17, 1970

Director of Mines,
Mines Branch,
Northern Territory
Administration,
DARWIN, Northern Territory 5790

Dear Sir,

Re: Prospecting Authority No. 1874 (Alroy Area)
Period Ending August 31, 1970

During the month of August 12 holes were drilled, thus completing the 15-hole drilling program which commenced in July, 1970.

The holes were as follows:

<table>
<thead>
<tr>
<th></th>
<th>Total Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>A- 1-70</td>
<td>100 ft.</td>
</tr>
<tr>
<td>A- 4-70</td>
<td>50 ft.</td>
</tr>
<tr>
<td>A- 6-70</td>
<td>80 ft.</td>
</tr>
<tr>
<td>A- 7-70</td>
<td>162 ft.</td>
</tr>
<tr>
<td>A- 8-70</td>
<td>90 ft.</td>
</tr>
<tr>
<td>A- 9-70</td>
<td>100 ft.</td>
</tr>
<tr>
<td>A-10-70</td>
<td>130 ft.</td>
</tr>
<tr>
<td>A-11-70</td>
<td>110 ft.</td>
</tr>
<tr>
<td>A-12-70</td>
<td>90 ft.</td>
</tr>
<tr>
<td>A-13-70</td>
<td>130 ft.</td>
</tr>
<tr>
<td>A-14-70</td>
<td>80 ft.</td>
</tr>
<tr>
<td>A-15-70</td>
<td>110 ft.</td>
</tr>
</tbody>
</table>

Total footage drilled in the month of August was 1,232 feet.

Samples have been despatched for analyses and samples representing each hole have been bagged for despatch to the Department of Mines and Water Resources, Darwin.
Data from the drilling program is now being processed.

Total expenditure to date is $38,885, including all applicable salary allocations and overhead.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LTD.

Earl O. Abbott

EARL O. ABBOTT
Director of Mines,  
Mines Branch,  
Northern Territory Administration,  
DARWIN, NORTHERN TERRITORY, 5790  

August 24, 1970

Dear Sir:  

Re: PROSPECTING AUTHORITY NO.1874 (Alroy Area)  
PERIOD ENDING JULY 31, 1970

Drilling commenced in July and to July 30th four holes of the 15 hole program were drilled as follows:

<table>
<thead>
<tr>
<th>Hole No.</th>
<th>Total Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-2-70</td>
<td>135 ft.</td>
</tr>
<tr>
<td>A-3-70</td>
<td>135 ft.</td>
</tr>
<tr>
<td>A-5-70</td>
<td>120 ft.</td>
</tr>
<tr>
<td>A-7-70</td>
<td>162 ft.</td>
</tr>
</tbody>
</table>

Progress was slow on the first three holes due to insufficient casing and an underpowered compressor. This situation was quickly rectified and progress has since been satisfactory.

Information on the above holes is now being processed.

Total expenditure to date is $35,679 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

EOA: smg
Director of Mines,  
Mines Branch,  
Northern Territory Administration,  
DARWIN, NORTHERN TERRITORY, 5790  

July 29, 1970

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Alroy Area)  
PERIOD ENDING JUNE 30, 1970

During the latter part of June, the fifteen (15) hole locations in the Alroy area were located and flagged.

A delay in availability of the contractor's equipment has postponed commencement of drilling until around mid-July 1970. The recommended program should be completed by the end of July, 1970.

Preliminary marketing and engineering studies have been completed. Although the studies pertain specifically to the Queensland phosphate deposits, the data should be adaptable to any Northern Territory deposits which may emerge as a result of the current and future exploration programs.

Total expenditure to date is $31,193 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott
Vice President and Executive Assistant

EOA: smg
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY, 5790

June 16, 1970

Dear Sir:

Re: PROSPECTING AUTHORITY NO.1874 (Alroy Area)
PERIOD ENDING MAY 31, 1970

Contract for the drilling of 15 air-rotary holes in the Alroy area has been let, and arrangements made for hole-site marking and tract clearing have been made. It is still proposed to commence drilling late in June 1970.

The preliminary phosphate marketing study undertaken by International Technical Services concerning the Queensland deposits is also expected to be pertinent to the Northern Territory.

Total expenditure to date is $29,826 including all applicable salary allocations and overhead.

Yours sincerely,

CONTINENTAL OIL COMPANY OF AUSTRALIA LIMITED

Earl O. Abbott

EOA:smg
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY 5790

May 13, 1970

Dear Sir:

Re: PROSPECTING AUTHORITY NO. 1874 (Alroy Area)
PERIOD ENDING - APRIL 30, 1970

During the period 24th to 26th April, 1970, the proposed fifteen drill hole sites in the Alroy area were inspected to determine accessibility and to provide the geologist with a geological and geophysical orientation.

The sites are all in flat, open country, and aside from a few rather rough dry creek crossings, little difficulty is anticipated in siting the drills. Graded tracks will not be required.

Commencement of drilling is scheduled for June, 1970.

Total expenditure to date is $28,881 including all applicable salary allocations and overhead.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LTD.

Earl O. Abbott

EOA: smg
April 24, 1970

Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY.

Re: Prospecting Authority - No. 1874 (Alroy Area)
Period Ending - March 31, 1970

Dear Sir,

Reconnaissance of the proposed 1970 drilling sites in the Northern Territory will be conducted in April.

Drilling is scheduled to begin later in the dry season.

During March study of the economics of phosphate production in Queensland continued. This work will have a bearing on evaluation of the deposits in the Northern Territory.

Total expenditure to date is $28,171.00, including all applicable salary allocations and overhead.

Yours sincerely,

Earl O. Abbott
March 24, 1970

Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY.

Re: Prospecting Authority - No. 1874 (Alroy Area)
Period Ending - February 28, 1970

Dear Sir:

During the month of February, 1970, engineering and economic feasibility studies were continued. Although these studies centre about the Queensland phosphate areas, the results of the studies will be applied to the Northern Territory Prospecting Authorities, and modified as required after data is gained from the proposed drilling program.

It is now proposed to examine the sites of the recommended drill holes during March or April to determine the requirements for surveys and track cutting. Commencement of the 1970 drilling program is still scheduled for June 1970.

Total expenditure to date is $27,164.00, including all applicable salary allocations and overhead.

Yours sincerely,

Earl O. Abbott

Earl O. Abbott

EOA:cea
February 19, 1970

Mr. C.F. Adams,
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY.

Re: Prospecting Authority - No. 1874 (Alroy Area)
Period Ending - January 31, 1970

Dear Sir,

During the subject month, the Northern Territory phosphate areas were reviewed in context with the over-all Australian phosphate exploration program. Latest information pertaining to domestic and overseas mining, production and marketing economics, was obtained to determine the minimum size and grade requirements of potential targets within the Northern Territory Prospecting Authorities.

In preparation for the planned 1970 drilling program, published data pertaining to the geology of the area has been reviewed. A geologist is scheduled to reconnoiter the areas in February to determine more accurately the accessibility and geological environment of proposed hole locations.

Information gained from the 1969 drilling program in Queensland, especially pertaining to drilling, sampling and assay methods has been applied to the Northern Territory areas, where more stringent techniques will be employed. The major recommended improvement in drilling technique will be the use of casing in air-rotary holes where contamination of samples due to caving of the hole is suspected. As contamination of samples has been demonstrated to be a severe problem, the additional cost of casing is believed to be justified.

The 1970 field program in the Northern Territory is scheduled to commence in June. As outlined in 1969, the 1970 program will consist of further field mapping and several air-rotary holes.
Mr. C.F. Adams,  

February 19, 1970

Total expenditure to date is $26,800.00, including all applicable salary allocations and overhead.

Yours sincerely,
CONTINENTAL OIL COMPANY OF AUSTRALIA LTD

Earl O. Abbott

EOA: cea
January 15, 1970

Mr. C.F. Adams,
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY.

Re: Prospecting Authority
No. 1874 (Alroy Area)
Period Ending December 31, 1969

Dear Sir:

Prospecting Authority No. 1874 was renewed to 28th December, 1970.

A field inspection is planned in February or March 1970, prior to commencing a drilling program.

Drilling for 1970 is being scheduled for May through September.

Total expenditure to date is $26,650, including all applicable salary allocations and overhead. This does not include renewal fees which were paid in December, 1969.

Yours sincerely,

Earl O. Abbott

Earl O. Abbott

EOA: cea
Mr. C.F. Adams,
Director of Mines,
Mines Branch,
Northern Territory Administration,
DARWIN, NORTHERN TERRITORY 5790

Dear Sir,

Re: Authority to Prospect No. 1874
Period Ending August 31, 1968

During the period, preparations for additional drilling in the area were completed.

To expand further on the announcement of phosphate in the area made in our last report, the discovery hole found phosphate up to 15% P₂O₅. The entire phosphatic section, however, was not penetrated due to difficulties in drilling.

To date, a preliminary assessment of mining feasibility is encouraging. The phosphate horizons are shallow; sizeable tonnages are indicated, and the area is ideally suited for an open-cut operation.

Additional holes will be drilled during the coming period. A complete report on these activities will be submitted as soon as possible.

Total expenditure to date is $2,083.24, including salaries.

Yours very truly,

B.F. Fitzpatrick
DIRECTOR OF MINERAL EXPLORATION