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Appendix 1 - Rotary Percussion Drill Logs - Red Rock and Crippled Horse Anomalies
# LIST OF PLATES

<table>
<thead>
<tr>
<th>Description</th>
<th>Plate No.</th>
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<tr>
<td>Location Map of Exploration Licence No's 121, 122, 124 and 125</td>
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<td>Crippled Horse Anomaly - Percussion Drill Hole Sections 187N and 143N</td>
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1. **INTRODUCTION**

Exploration Licence (E.L.) No. 121 is located near the Nicholson River in the north-eastern part of the Northern Territory near the Queensland border. See Plate 1, Location Map, E.Ls. 121, 122, 124 and 125.

At the Red Rock Anomaly two radiometric anomalies, associated with altered acid volcanics of the Cliffdale Volcanics, were subjected to further geological and radiometric investigation and were then tested at depth by a drilling programme consisting of five rotary-percussion drill holes totalling 983 feet.

At the Crippled Horse Anomaly, radiometric anomalies are associated with near vertical alteration zones in an acid volcanic sequence of the Cliffdale Volcanics. Uranium mineralisation is patchily distributed within these zones.

A total of 5.5 miles of track was prepared by bulldozing to give access to the Crippled Horse Anomaly. Some proposed drill sites could not be prepared, due to the steep slope, and bars of altered volcanics the outcrops of which proved impossible to bulldoze.

The bulldozer was able to establish only two alternative sites and a modified drilling programme of two holes totalling 400 feet was completed.
2. CONCLUSIONS

2.1 Red Rock Anomaly

At Red Rock, spectrometer traverses indicated positive uranium contribution and a surface sample assayed 105 ppm U₃O₈.

The radiometric anomalies were associated with zones of altered, haematised acid volcanics of the Cliffdale Volcanics. The alteration zones are in contact with a sandstone breccia, interpreted as a fault zone along which sandstones of the Westmoreland Conglomerate have been thrust under the Cliffdale Volcanics.

Drilling revealed that mineralisation is patchy at depth and where anomalous values were encountered, they represent only very low grade mineralisation.

2.2 Crippled Horse Anomaly

No significant uranium mineralisation was encountered during drilling. The two drill holes are considered to have not adequately tested the alteration zones. The dimensions of the surface exposure are not impressive and only very patchy mineralisation is indicated. Further drilling would require substantial costs to establish accessible and useful drill sites.
3. RECOMMENDATIONS

3.1 In view of the low grade and patchy nature of mineralisation, no further work is recommended at Red Rock Anomaly.

3.2 Although testing is considered inadequate at the Crippled Horse Anomaly, the results obtained to date do not appear to justify the cost of additional drilling, and therefore no further work is recommended.
4. REGIONAL GEOLOGY

Basement rocks in the area consist of Lower Proterozoic schists, slates and gneisses of the Murphy Metamorphics, which have been intruded by the Nicholson Granite. These basement rocks are exposed in an east-west trending block, the Murphy Tectonic Ridge, which separates the McArthur Basin to the north and west from the South Nicholson Basin to the south.

The regional stratigraphic sequence is as follows:

<table>
<thead>
<tr>
<th>South Nicholson Basin</th>
<th>McArthur Basin</th>
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<tr>
<td><strong>Upper Proterozoic</strong></td>
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<tr>
<td>South Nicholson Group</td>
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<tr>
<td>Mittiebah Sandstone</td>
<td></td>
</tr>
<tr>
<td>Mullera Formation</td>
<td></td>
</tr>
<tr>
<td>Constance Sandstone</td>
<td></td>
</tr>
<tr>
<td>Wallis Siltstone Member</td>
<td></td>
</tr>
<tr>
<td>Pandanus Siltstone Member</td>
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<td><strong>UNCONFORMITY</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lower Proterozoic</strong></td>
<td></td>
</tr>
<tr>
<td>Fickling Beds</td>
<td></td>
</tr>
<tr>
<td><strong>UNCONFORMITY</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Lower Proterozoic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karns Dolomite</td>
</tr>
<tr>
<td><strong>UNCONFORMITY</strong></td>
</tr>
</tbody>
</table>

Tawallah Group

<table>
<thead>
<tr>
<th>Peter's Creek Volcanics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina Sandstone Member</td>
</tr>
<tr>
<td>Westmoreland Conglomerate</td>
</tr>
<tr>
<td><strong>UNCONFORMITY</strong></td>
</tr>
</tbody>
</table>
Rocks of the Murphy Tectonic Ridge

Norris Granite
Clifdale Volcanics
Nicholson Granite
Murphy Metamorphics

In the eastern part of the area the basement rocks are overlain by an acid volcanic sequence, the Clifdale Volcanics, which defines the base of the Carpentarian System. The Clifdale Volcanics act as host rock to uranium mineralization at the Eva Mine and to copper mineralization at Norris Copper.

The Norris Granite intrudes both basement rocks and the Clifdale Volcanics, and is associated with the introduction of minor tin and tungsten mineralization.

The Tawallah Group overlies this sequence, a section of dominantly shallow water sediments and volcanics, with volcanics prominent near the base, being deposited in the McArthur Basin. Only the basal Westmoreland Conglomerate and the Peter's Creek Volcanics are exposed in the South Nicholson Basin. These crop out only on the northern rim of the basin, and are overlain by the Fish River Formation of Carpentarian Age, which has a sequence of feldspathic and quartzose sandstones with some basic and intermediate volcanics.

The McArthur Basin is a shallow elongate basin, with low angle bedding dips near the centre of the basin. Local steep dips are found along the northern margin of the Murphy Tectonic Ridge. The basin is cut by the north-west to south-east trending Calvert Fault.

The Westmoreland Conglomerates, and the Peter's Creek Volcanics act as host rocks for uranium mineralization. Mineralization has been found in fault zones in the Westmoreland Conglomerate associated with sheared basic rocks. In the Peter's Creek Volcanics mineralization is found in shear zones and volcanic plugs. Low grade uranium mineralization has also been found in a tuff bed at the base of the Peter's Creek Volcanics.
Copper mineralization occurs in the Gold Creek Member of the Masterton Formation where it is localized in collapse breccia pipes, formed during the late stages of the extrusive activity.

The Tawallah Group is succeeded by further Carpentarian sedimentation, the McArthur Group, represented by the Karns dolomite in the McArthur Basin and by the Fickling Beds in the South Nicholson Basin.

These formations mark the upper limit of Carpentarian deposition in the area. Minor copper, lead and manganese mineralization has been recorded in the Karns Dolomite. During the Adelaidian period, deposition occurred only in the South Nicholson Basin where a succession of shallow water sediments was deposited. The basal formation, the Constance Sandstone unconformably overlies the Fickling Beds. The Constance Sandstone has two siltstone members, the basal Pandanus Siltstone Member which crops out in the northern part of the basin, and the Wallis Siltstone Member. Both of these members are dominantly micaceous siltstone with minor fine sandstones, and glauconitic siltstones occur in the Wallis Siltstone. The Constance sandstone is a medium grained sandstone with very minor interbedded siltstone. The overlying Mullera Formation is made up of micaceous siltstone, shale, quartz, sandstone, glauconitic sandstone and ferruginous sediments. This formation is overlain by the Mittiebah Sandstone, which consists of quartzose and feldspathic sandstones.

This Adelaidian sequence was followed by the Lower to Middle Cambrian Bukalara Sandstone, which was deposited as a thin extensive sheet over much of the South Nicholson and McArthur Basin.

Subsequent deposition is not recorded in the area until the Lower to Middle Cretaceous, when a sequence of claystones, siltstones, sandstones and conglomerate were deposited over the area. Post Cretaceous weathering, lateritization, erosion and redeposition has given rise to Cainozoic alluvials, laterite, soil, and sand cover.
5. ROTARY PERCUSSION DRILLING PROGRAMME

5.1 Drilling and Sampling

Drilling was carried out by Mitchell Drilling Contractors of Brisbane with a Mayhew 1000 rig mounted on a Foden tandem drive truck. Drilling commenced at Red Rock on October 3rd and was completed at Crippled Horse Anomaly on October 18.

In all, a total of seven vertical holes were drilled for a total of 1,383 feet of drilling.

Bulk samples were taken over five foot intervals. Each was split and a 2 lb sample was submitted for assay while a duplicate 2 lb sample was retained for submission to the Mines Branch, Northern Territory Administration. All samples were assayed for uranium by fluorometric analysis, by Geochemical and Mineralogical Laboratories (N. T.) Pty. Ltd., Darwin.

Lithological and gamma spectrometer logs were recorded in a low radiometric background area near the site.

5.2 Results of Drilling Programme - Red Rock Anomaly

Red Rock is situated approximately 7.2 miles east of the Eva Mine. Access was gained along the existing track from the Eva Mine via the Pandanus Creek Mine and Chapmans Camp. Many sections of this track were cleaned up with the bulldozer. See Plate 2, Location of Field Activities 1972, E. L. 121.

The surface radiometric anomaly lies on a scree slope below a sandstone escarpment which rises up to about 400 feet above the valley floor. The valley area itself is gently undulating with a relief of about 50 feet.

The rocks underlying the valley are shown, by patchy outcrops of acid intrusive and extrusive rocks, to belong respectively to the Norris Granite and the Cliffdale Volcanics (Tucker, 1971). These rocks are overlain unconformably by the sandstones and conglomerates of the Westmoreland Conglomerate which form the escarpment.

At Red Rock the Cliffdale Volcanics are locally thrust faulted over the Westmoreland Conglomerate. See Plate 3, Red Rock Anomaly, Geological and Radiometric Map and Plate 4, Red Rock Anomaly, Percussion Drill Sections. This fault is marked along the scree slope by a series of outcrops of quartzite breccia striking approximately east-west and dipping about 35° south. North-south trending cross-faulting has tilted a central block southward. In this block the major fault is dipping 55° south.
"Hot Spot" anomalous radioactivity occurs in altered and haematised volcanics in contact with this breccia.

Five holes were drilled to test for uranium mineralisation in volcanics adjacent to the fault zone at depth. (Table 1).

<table>
<thead>
<tr>
<th>Hole No.</th>
<th>Co-ordinates</th>
<th>Total Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDRR1</td>
<td>10210N 10100E</td>
<td>200 ft</td>
</tr>
<tr>
<td>PDRR2</td>
<td>10025N 10400E</td>
<td>200 ft</td>
</tr>
<tr>
<td>PDRR3</td>
<td>10042N 10300E</td>
<td>220 ft</td>
</tr>
<tr>
<td>PDRR4</td>
<td>10003N 10200E</td>
<td>220 ft</td>
</tr>
<tr>
<td>PDRR5</td>
<td>9957N 10096E</td>
<td>143 ft</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>983 ft</strong></td>
</tr>
</tbody>
</table>

The assay results (see Appendix 1) show that no significant uranium values were intersected by any of the five holes. Although no ore grade mineralisation was detected, holes PDRR1 and PDRR3 show anomalous uranium values (2-3 times background) in the volcanics immediately above the thrust fault.

In holes PDRR2, 3 and 4, not only did the drill pass through the thrust fault contact from volcanics to sandstone but it passed on through the unconformity back into the volcanics. See Plate 4, Red Rock Anomaly, Percussion Drill Sections.

It is considered that this area is adequately tested and that no further drilling is warranted.

5.3 Results of Drilling Programme - Crippled Horse Anomaly

The Crippled Horse Anomaly is associated with near vertical alteration zones in Cliffdale Volcanics and is located 9.4 miles east-north-east of the Eva Mine.

Access to the drill sites was gained by bulldozing five miles of new road northward over the escarpment from the existing track between Chapmans Camp and Red Rock.

The geology of this area is described by Taylor and Charles (1971) (Fig. 4). Two holes were drilled to test the alteration zones at depth (Table 2).
### Table 2

<table>
<thead>
<tr>
<th>Hole No.</th>
<th>Co-ordinates</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDCH1</td>
<td>187N 321E</td>
<td>200 ft</td>
</tr>
<tr>
<td>PDCH2</td>
<td>143N 284E</td>
<td>200 ft</td>
</tr>
<tr>
<td></td>
<td><strong>Total:</strong></td>
<td><strong>400 ft</strong></td>
</tr>
</tbody>
</table>

The fact that the anomaly lies on the top of a steep sided hill scattered with ridge outcrops of silicified acid volcanics, which are immovable to a bulldozer alone, resulted in access not being gained to several of the proposed drill sites near the top of the hill.

PDCH1 is located on a northeasterly trending alteration zone on the southern flank of the hill. PDCH2 is at the base of the hill on the projected intersection of the same north-easterly and a major northerly trending alteration zone. See Plate 5, Crippled Horse Anomaly, Geological and Radiometric Plan.

PDCH1 passed out of the alteration zone on which it was collared only 25 feet below surface. The remainder of the hole passed through a variety of unaltered acid volcanics. PDCH2 intersected quartz veining in weathered volcanics in the first 10 feet, below which it passed continuously through unaltered acid volcanics, see Plate 6, Crippled Horse Anomaly, Percussion Drill Sections.

No significant uranium mineralisation was intersected in either of these holes. See assay values in Appendix 1 and Plate 6. Anomalous uranium values were encountered in the alteration zone in the top 25 feet of PDCH1 but these are only 2–3 times background and are about one tenth of the peak value obtained from surface sampling of "hot spots" (i.e. 105 ppm U₃O₈).

PDCH2 intersected anomalous uranium values of up to five times background (i.e. up to 31 ppm U₃O₈) between 5 and 15 feet. No other anomalous values were encountered.

Although the two holes recently drilled are not considered to have adequately tested the alteration zones, the high cost of regaining access and of blasting in order to prepare further drill sites does not seem warranted for such a prospect.

As commented previously (Taylor and Charles (1971)), the dimensions of the surface anomaly, which is confined to a few narrow alteration zones, are not impressive and the potential volume of mineralised material is probably low. If further drilling were to be undertaken however, and it is not recommended herein, it is strongly suggested that angle
holes be drilled from the flank of the hill in order to ensure intersecting the near vertical alteration zones at depth.

A Mineral Lease of 40 acres known as Crippled Horse Anomaly ML348C has been pegged and applied for.
6. OTHER ACTIVITIES

Two mining leases were pegged and applied for at the Eva Mine. These are known as Eva North, ML 347C and Eva South, ML 351C.
7. STATEMENT OF EXPENDITURE

Expenditure on the area the subject of Exploration Licence No. 121 for the year ended December 31, 1972 was :-

<table>
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<th>Category</th>
<th>Amount</th>
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<td>Geochemistry</td>
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<tr>
<td>General</td>
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<tr>
<td><strong>Total</strong></td>
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APPENDIX 1

Rotary Percussion Drill Logs
Red Rock and Crippled Horse Anomalies
## Drill Record

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<th>From</th>
<th>To</th>
<th>Sample Length</th>
<th>Recovery %</th>
<th>Sample No</th>
<th>Assays</th>
<th>U-235 ppm</th>
<th>Geological Log</th>
<th>Angle</th>
<th>Survey</th>
<th>Depth</th>
<th>Bearing</th>
<th>Inclination</th>
<th>Notes</th>
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<td>5</td>
<td>701</td>
<td>9</td>
<td>Fine grained acid volcanic, haematitized and quartz veining</td>
<td>Background reading</td>
<td>52</td>
<td>15</td>
<td>8</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>5</td>
<td>702</td>
<td>10</td>
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<td></td>
<td>55</td>
<td>15</td>
<td>8</td>
<td>25</td>
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<td>10</td>
<td>15</td>
<td>5</td>
<td>703</td>
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<tr>
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<td>20</td>
<td>5</td>
<td>704</td>
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<td>As above and quartz veining becoming less frequent</td>
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<td>74</td>
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<td>6</td>
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</tr>
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</tr>
<tr>
<td>25</td>
<td>30</td>
<td>5</td>
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<td>Purple fine grained acid volcanic with green phenocrysts and minor quartz veining</td>
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<td>13</td>
<td>5</td>
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<td>68</td>
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</tr>
<tr>
<td>35</td>
<td>40</td>
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<td>708</td>
<td>7</td>
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<td>75</td>
<td>13</td>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>40</td>
<td>45</td>
<td>5</td>
<td>709</td>
<td>8</td>
<td>As above and quartz fine grained acid volcanic</td>
<td></td>
<td>74</td>
<td>13</td>
<td>6</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>45</td>
<td>50</td>
<td>5</td>
<td>710</td>
<td>8</td>
<td>As above and minor red brown acid volcanic</td>
<td></td>
<td>74</td>
<td>13</td>
<td>6</td>
<td>2</td>
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<td></td>
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<td>50</td>
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<td>5</td>
<td>711</td>
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<td>13</td>
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<td>2</td>
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<td>5</td>
<td>712</td>
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Drilled by Mitchell Drilling  Type of Drilling Rotary-Percussion  Hole Size  % Recovery  Surveyed by D.C. TUCKER  Instrument Used  
Date Started 16 October, 1972  Date Completed 17 October, 1972  Legged by D.C. TUCKER  Sampled by D.C. TUCKER  Record Completed M.F. FOY  
No. of Hole CH-1  Location Pandanus Creek - Crippled Horse  Depth of Hole 200  Co-ords. of Collar 187N, 321E  Bearing  Inclination Vertical.
**Drill Record**

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| 0    | 5  | 5              |          | 741        | 7    | Weathered light brown acid volcanic quartz veined
| 5    | 10 | 5              |          | 742        | 14   | As above |
| 10   | 15 | 5              |          | 743        | 31   | Dark red brown fine grained acid volcanics
| 15   | 20 | 5              |          | 744        | 10   | As above |
| 20   | 25 | 5              |          | 745        | 5    | As above |
| 25   | 30 | 5              |          | 746        | 5    | As above |
| 30   | 35 | 5              |          | 747        | 5    | As above |
| 35   | 40 | 5              |          | 748        | 4    | As above |
| 40   | 45 | 5              |          | 749        | 5    | As above |
| 45   | 50 | 5              |          | 750        | 4    | As above |
| 50   | 55 | 5              |          | 751        | 4    | As above |
| 55   | 60 | 5              |          | 752        | 6    | As above |
| 60   | 65 | 5              |          | 753        | 5    | As above |
| 65   | 70 | 5              |          | 754        | 6    | As above |
| 70   | 75 | 5              |          | 755        | 6    | As above |
| 75   | 80 | 5              |          | 756        | 8    | As above |
| 80   | 85 | 5              |          | 757        | 6    | As above |
| 85   | 90 | 5              |          | 758        | 6    | As above |
| 90   | 95 | 5              |          | 759        | 4    | As above |
| 95   | 100| 5              |          | 760        | 5    | As above |
| 100  | 105| 5              |          | 761        | 9    | As above |
| 105  | 110| 5              |          | 762        | 9    | As above |
| 110  | 115| 5              |          | 763        | 7    | As above |
| 115  | 120| 5              |          | 764        | 5    | As above |
| 120  | 125| 5              |          | 765        | 7    | Ad above |
| 125  | 130| 5              |          | 766        | 5    | As above |
| 130  | 135| 5              |          | 767        | 7    | As above |
| 135  | 140| 5              |          | 768        | 5    | As above |
| 140  | 145| 5              |          | 769        | 5    | As above |
| 145  | 150| 5              |          | 770        | 4    | As above |
| 150  | 155| 5              |          | 771        | 4    | As above |
| 155  | 160| 5              |          | 772        | 5    | As above |
| 160  | 165| 5              |          | 773        | 7    | As above |
| 165  | 170| 5              |          | 774        | 5    | As above |
| 170  | 175| 5              |          | 775        | 5    | As above |
| 175  | 180| 5              |          | 776        | 8    | As above |
| 180  | 185| 5              |          | 777        | 9    | As above |
| 185  | 190| 5              |          | 778        | 5    | As above |
| 190  | 195| 5              |          | 779        | 4    | As above |
| 195  | 200| 5              |          | 780        | 4    | End of Hole |

Background reading 52 8 4 15

- Drilled by Mitchell Drilling
- Type of Drilling: Rotary Percussion
- Hole Size
- % Recovery
- Surveyed by
- Instrument Used

Date Started: 18 October, 1972
Date Completed: 18 October, 1972
Legged by: D.C. TUCKER
Sampled By: D.C. TUCKER
Record Completed: M.F. FOY

No. of Hole: CH2 Location: Pandanus Creek - Crippled Horse
Depth of Hole: 200 ft
Co-ords. of Collar: 143N, 284E
Bearing: Vertical
Inclination: Vertical...
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End of Hole

Background Reading

Drilled by Mitchell Drilling
Type of Drilling Rotary Percussion
Size of Hole 40
Date Started 3 October, 1972
Date Completed 7 October, 1972
Logged by D.C. TUCKER
Sampled by D.C. TUCKER
Record Completed M.F. FOY
No. of Hole PBRR 1
Location Pandanus Creek - Red Rock
Depth of Hole 200'
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**End of Hole**

**Notes**: T1 72 73 74

**Geological Log**: T1

**Survey**: Depth 72

**Inclination**: Vertical

**Instrument Used**: Sampled by D.C. TUCKER

**Date Completed**: 9 October, 1972

**Date Started**: 8 October, 1972

**Logging**: D.C. TUCKER

**Hole Size**: 90 mm

**Drilled by**: Mitchell Drilling

**Type of Drilling**: Rotary Percussion

**% Recovery**: -

**Surveyed by**: D.C. TUCKER

**Instrument Used**: -

**Location**: Pandanus Creek - Red Rock

**No. of Hole**: PDGR 2

**Co-ords. of Collar**: 10025N, 10400E

**Depth of Hole**: 200 ft

**Bearing**: -

**Background Reading**: 32 5 3 1
# DRILL RECORD

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Drilled by: Mitchell Drilling
Type of Drilling: Rotary Percussion
Hole Size: -
% Recovery: -
Surveyed by: D.C. TUCKER
Instrument Used: -

Date Started: 10 October, 1972
Date Completed: 12 October, 1972
Legged by: D.C. TUCKER
Sampled By: D.C. TUCKER
Record Completed: M.F. FOY
No. of Hole: PDRR 3
Location: Pandanus Creek - Red Rock
Depth of Hole: 220'
Bearing: -
Inclination: Vertical.
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End of Hole

Background reading

Notes: T1 T2 T3 T4

Drilled by: Mitchell Drilling
Type of Drilling: Rotary Percussion
Hole Size: -
% Recovery: -
Surveyed by: -
Instrument Used: -

Date Started: 12 October, 1972
Date Completed: 13 October, 1972
Logged by: D.C. Tucker
Sampled by: D.C. Tucker
Record Completed: M.F. FOY

No. of Hole: PD2R 4
Location: Pandanus Creek - Red Rock
Depth of Hole: 220ft
Co-ords. of Collar: 10003N, 10200E
Bearing: -
Inclination: Vertical
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**End of Hole**

Date Started: 13 October, 1972 Date Completed: 15 October, 1972 Legged by D. C. TUCKER Sampled by D. C. TUCKER Record Completed: M. F. FOY  
No. of Hole: PDGR 5 Location: Pandanus Creek - Rod Rock  