REPORT, INTROSP CTING

EXPLORATION LICENCE No.

NORTHERN TERRITORY

1972

Report No. 187

Ву

G. Pietsch

D. Tucker

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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:

Lower Cretaceous UNCONFORMITY

Lower Cambrian UNCONFORMITY

South Nicholson Basin

McArthur Basin

Upper Proterozoic

South Nicholson Group

Mittiebah Sandstone Mullera Formation Constance Sandstone Wallis Siltstone Member Pandanus Siltstone Member

UNCONFORMITY

Lower Proterozoic

Lower Proterozoic

Fickling Beds

Karns Dolomite

UNCONFORMITY

UNCONFORMITY

Tawallah Group

Fish River Formation
Masterton Formation
Gold Creek Volcanic Member
Wollogorang Formation
Settlement Creek Volcanics
Aquarium Formation
Sly Creek Sandstone
McDermott Formation
Peter's Creek Volcanics
Carolina Sandstone Member
Westmoreland Conglomerate

Peter's Creek Volcanics Carolina Sandstone Member Westmoreland Conglomerate

UNCONFORMITY

UNCONFORMITY

Rocks of the Murphy Tectonic Ridge

Norris Granite Cliffdale Volcanics Nicholson Granite Murphy Metamorphics

In the eastern part of the area the basement mocks are overlain by an acid volcanic sequence, the Cliffdale Volcanics, which defines the base of the Carpentarian System. The Cliffdale 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 Cliffdale 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 (Tücker, 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 eastwest 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 1

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

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

Hole No.	Co-or	dinates		Depth
PDCH1	187N	321E		200 ft
PDCH2	143N	284E		200 ft
			Total:	400 ft

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:-

Geology	2,801
Geophysics	1,350
Geochemistry	1,150
Drilling	6,569
General	3,174
	\$ 15,044

APPENDIX 1

Rotary Percussion Drill Logs Red Rock and Crippled Horse Anomalies NORANDA

AUSTRALIA

LIMITED

From	To	Sample		ry	Sample No.		,	Ass	ays	 Geological Log	Angle to core		Survey			Notes
	+	Lengur	+		PCPD	U ₃ 0 ₈					1000	Depth	Bearing	Inclination	T1 T2	2 T3 T4
0 5 10 15 20 25	10 15 20 25 30	5 5 5 5 5 5			701 702 703 704 705 706	9 10 7 11 13 7				Fine grained acid volcanic, haematitized and quartz veine As above As above As above and quartz veining becoming less frequent As above Purple fine grained acid volcanic with green phenocrysts and minor quartz veining As above	ed.	¢kgrou	nd rea	ding	68 13 70 14 74 13	5 8 2.5 3 5 2.5 4 6 2 3 6 2 5 2.5 3 5 2.5
30 35 40 45 55 66 50 77 80 85 90 90 10 12 20 33 40	95 100 105 110 115 120 125 130 135 140	*************************			708 709 710 7112 7113 7114 7115 7117 7118 7120 7221 7223 7224 7225 7227 7228 7229	7888896765445544453445				As above and minor haematitized fine grained acid volcanic Purple fine grained acid volcanics As above and minor red brown acid volcanics Red brown acid volcanic Purple and green fine grained acid volcanics As above As above As above Purple and green fine grained acid volcanics As above As above Dark red-brown fine grained acid volcanic As above		ckgrou	nd Rea	ting	64 11 64 12 64 13 64 11 65 12 60 11 66 12 60 10 66 13 62 10 66 13 68 13 68 13 64 11 64 11	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
145 150 160 165 170 175 188 188 199 195	155 160 165 170 175 180 185 190	5555555555			730 731 732 733 734 735 736 737 738 739 740	4 4 4 5 4 5 6 6 6 6 6 5 5				Dark red brown fine grained acid volcanic As above End of Hole.				9	35 6 35 7 34 6 30 5 36 6 36 6 36 6 32 5 34 7	4 15 3 15 25 15 3 15 3 15 3 15 3 15 3 15 3 15 3 15

Drilled by Mitchell	Drilling	Type of Drilling	Rotary Percussion	Hole Size	•	% Recovery	Sui	rveyed by	 Instrument	Used			
Date Started . 16 Octo	ober, 1972	Date Completed	17 October, 1972	Logged byD	C. TUCK	KERSample	ed By D.	C. TUCKER	 Record Completed	M.F.	FOY		
No. of Hole Cu_1	Location pandanus	Chapt C	ninalad Harwa	Depth of Hole	2001	Co-ords.of Collar	187N. 3	21E	 Bearing _		Inclination	Vertical.	

NORANDA .



LIMITED

	T	Sample	Recovery	7	mple	r	 				DRILL RECORD		·			
From	To	Length			No.	0308	^3:	ays	1	r	Geological Log	Angle to core		Survey	Inclination	Notes
4				. P	CPD	bbm								Jes mg		T1 T2 T3 T4
0 5 10 15 20 25 30 45 50 65 70 560 65 70 85 100 105 115 120 125 130 145 155 165 175 185 170 175 185 190 195	5 10 15 20 25 30 35 40 45 50 560 65 70 780 85 90 105 110 125 120 125 130 145 155 160 160 175 180 195 195 200	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$		777777777777777777777777777777777777777	58 59 70 71 72 73 74 75 76 77	74110555454465668664599757575544575589544	•				Weathered light brown acid volcanic quartz veined As above Dark red brown fine grained acid volcanics As above	Вас	kgrou	nd read	ing	54 10 5 2 64 11 5 2 68 11 6 L5 62 11 5 2 60 11 5 L5 56 10 5 L5 60 10 5 L5 60 11 4 2 60 11 5 2 53 11 5 2 60 11 4 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 60 11 5 2 61 11 5 2 62 10 4 L5 75 15 8 25 68 11 5 25 58 19 5 L5 58 10 5 L5 58 10 5 L5 58 10 5 L5 59 10 4 L5 57 10 5 L5 58 10 5 L5 58 10 5 L5 59 10 5 L5 50 10 4 L5 57 10 5 L5 58 10 5 L5 59 10 5 L5 59 10 5 L5 50 10 5 L5 50 10 5 L5 50 10 5 L5 50 10 5 L5 51 15 52 8 4 L5

Drilled by Mitchell Drilling Type of Drilling Rotary Percussion Hole Size % Recovery Surveyed by Instrument Used	***	202 110
Date Started 18-October, 1972 Date Completed 18-October, 1972 Logged by D.C. TUCKER Sampled By D.C. TUCKER Record Completed M.F. FO	Y	,
No. of Hole CH 2 Location Pandanus Creek - Crimied Horse Depth of Hole 2001 Co-ords of Collar 143N, 284E Bearing - Inclina	ition Ver	tical.

LIMITED

From	То	Sample Recovery Sample Assays Length 6 No. 11-00 Geological Log					Angle	T	Survey				_						
	 -	Cangu	+	-	-+		U3		 				to core	Depth		Inclination	No	tes	
	-	-	4		-	PCPD	bb	m.	 	<u> </u>							T1 T	2 T3	:
0 5 10 15 20 25 30 35	10 15 20 25 30 35		5 5 5 5 5 5 5			501 502 503 504 505 506 507	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 6				Pale brown weathered acid volcanics with minor bleached and haematitic patches Pale green chloritized acid volcanics Pale green chloritized acid volcanics Partly pale green chloritized acid volcanics, partly red fine grained acid lava with small quartz phenocrysts. Haematitic medium grained quartzite Haematitic medium grained quartzite very minor grains pale green silicate - nontronite? Haematitic medium grained quartzite with very minor vein quartz and nontronite? Haematitic medium grained quartzite plus fine grained quartz porphyry, dark red with pale green (nontronite?)					35 45 35 40 30 38 40	5 3 7 4 4 3 5 3 5 2 7 4	
40 45	4.5 50	1	5			509 510		3				veining. Haematitic medium grained quartzite Haematitic medium grained quartzite plus very minor red					40 d 35 d	6 3 6 3	
50	55		5			511	10	•				fine grained quartz porphyry and nontronite Haematitic medium grained quartzite with very fine quartz					40 8	3 4	
56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56650 56	60 65 70 75 85 90 95 105 110 115 120 125 130 145 155 165 175 180 185 190 195 200	555555555555555555555555555555555555555				513 514 5114 5115 5116 5119 5120 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 51212 512	10 14 4 3 3 2 2 2 5 3 3 4 4 3 3 2 2 2 5 5 2 5 5 2 5 5 2 5 5 2					As above	- Back	groun	d Read	ing	4588888884508888450888450888450888450888450888450888450888450888677777768867766777776886776677667766	333546564556554545555486653	1.

Drilled by Mitchell Drilling	Type of Drilling	Rotary Percussion Size		% Recovery	Surveyed by		Instrument Used		
Date Started 3 October, 1972	Date Completed	7 October, 1972 Logged by	D.C. TUCKER	Sampled By D.			Completed M.F.		
No. of Hole PDRR 1 Location Pandanu	s Creek - Red	Rock Depth of Hol	e 2001 C	o-ords.of Collar 10210N,	, 10100E	Bearing		Vertical	

LIMITED

From	То	Sample Length	Recove	ry	Sample No.	0,08	,	Ass	ays	 Geological Log	Angle to core		Survey		Notes
	 	25			PCPD	ppm.						Depth	Bearing	Inclination	T1 T2 T3 T4
0 5 10 5 20 5 30 5 45 5 5 6 6 5 7 7 5 0 8 8 9 9 5 10 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 2	5 10 15 20 20 25 30 35 40 45 50 50 60 65 70 75 80 80 85 100 105 110 115 120 125 130 145 150 145 150 165 170 180 185 190 195 190	55 5555555555 5555555 5555555555555555			5412 5442 5445 5447 5445 5447 5447 5447 5447 5447 5457 5557 5557 5557 5557 5557 5577 5777 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778 5778	66 767643543337 665346 456564545554422566566				Bulldozed mullock, mostly quartzite Pink fine grained quartz porphyry, partly weathered and with veins of chloritic clay As above As above As above As above Pale brown weathered fine grained acid volcanic As above Dark greeny-grey partly weathered fine grained acid volca As above Dark blue-grey fine grained acid volcanic As above Dark purple and green fine grained acid volcanic with narrow quartz veining, green is chlorite and nontronite (As above As above As above As above As above Dark red brown acid volcanic with narrow quartz veining and part chloritization As above	?)	ekgrou	nd Rea	ding	36 7 4 1 40 8 4 L5 42 7 4 1 40 8 4 1 48 8 4 1 42 7 4 1 42 7 4 1 42 7 4 1 42 7 4 1 42 7 4 1 42 7 4 1 40 6 3 2 40 6 3 2 40 6 3 15 42 8 3 2 40 6 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 7 3 1 40 8 3 2 42 7 4 L5 38 6 3 1 40 7 4 L5 38 7 4 L5 38 7 3 L5 38 6 3 5 1 38 6 3 5 1 38 6 3 5 1 38 6 3 5 1 38 7 4 L5 38 7 4 L5 38 7 4 L5 38 7 4 L5 38 7 3 L5 38 6 3 5 1 38 6 3 5 1 38 6 3 5 1 38 6 3 5 1 38 7 4 L5 38 7 4 L5 38 7 4 L5 38 7 3 L5 38 6 3 5 1 38 6 3 5 1 38 6 3 5 1 38 6 3 5 1 38 7 4 L5 38 7 3 L5 38 6 3 5 1 38 6 3 5 1 30 6 3 5 1 30 8 4 L5 31 8 6 3 1 32 5 3 1

Drilled by	Mitchell Drilling	Type of Drilling	Rotary Percussion	Hole Size	% Reco	verySı	urveyed by	instru	ment Used		.
Date Started 8	3 October, 1972	Date Completed	9 October, 1972	Logged by D.C	. TUCKER Sa	mpled By	.C. TUCKER				
No. of HolePI	ORR 2 Location Panda	nus Creek - R	ed Rock	Depth of Hole 2	On Co-ords of Collar	10025N	104005	Bearing	_	Inclination	Vontinal





		Sample			Assays Geological Log							Survey	i	Notes				
		Length		•	No.	U308	1					- Confidence and	to core	Depth	Bearing	Inclination		
_					PCPD	ppm	-	 		ļ	ļ						T1 T2 T3	
0	5	5			581	6		Ĭ.				Weathered acid volcanics and some bulldozed fill						L
5	10	5		-	582	4	1		1	1		Pale brown weathered acid volcanics				1 1	44 7 3	
ן כ	15	5	1		583	4	ì	1 .	1			Weathered purple and green acid volcanic			1	1	40 8 4	
5	20	5		ı	584	3	1	l	ł	1		As above			Í	1	42 6 4	
1	25	5			585	4	1.		ŀ	!	1	As above	l			1	40 8 3	
	30	5			586	4	1	1		1	j	As above			ĺ	1 1		L
1	3.5	5	1		587	3	1			1		As above	l		l	1 1		_
-	40	5		İ	588	4	1		-	1	1	Purple fine grained acid volcanic	i		l	1 1		
	4.5 50	5		ł	589	5	1	1	l	1	1	As above				1 1	42 7 4	
1		5			590	4	1			1	1	As above				1 1		1.
	55 60	5	1		591 592	4	1	1	ł	1	1	As above plus green black fine grained volcanic	1		1	1 1	42 7 4 42 6 4	
5	65	5		- 1		3	į		1	1	1				l	1 1	40 7 4	
í	70	5		- 1	593 594	3			1	l	1	Dark red-brown and green black fine grained volcanics As above				1 . 1	40 / 4	
.	75	5			595	4	1				1	As above	1 1		ł	1 1		L
j	80	5	1	- 1	596	3	}		1	1	1	Dark red brown fine grained acid volcanics			[1 1		1
	85	3	!!	- 1	597	3	1	1	İ	1	l	As above			İ	1 !		
١	90	5		- 1	598	2		İ	l	İ		As above	1 1		1	1		1
- {	95	5	J t		599	3		1			İ	As above			i	1 1		ı
1	100	5			600	3			1	1		Dark red brown and green fine grained acid volcanics			ŀ	1 1	40 8 3	
-	105	5	i I		601	3		1 .	1			As above	1 1		['	1	38 7 3	
-	110	5			602	5	1	1 .	ĺ			As above	i i		i	1		
1	115	5	i I		603	3		i	ł			As above				!!!	40 6 4	
1	120	5		- 1	604	3		1.	i		1.	As above	:			1	40 7 4	
ĺ	125	5	1		605	3		i		1	· .	As above				1 1	40 6 4	
: [130	Ś	(l	- 1	606	3	Į		l	1	1	As above			ļ	1 1	38 7 4	
١ ١	135	5			607	3	1	1	l	1		As above	i		1	1	38 7 4	
	140	5	i		608	2			1	1	1	As above	1 1		Ì	1 1	37 8 4	1
1	145	5			609	3	.		!		1	As above	1 1			1	36 7 4	1.
:	150	5		-	610	4				l	ŀ	Intensely haematitized dark red brown and green fine			ĺ			
ł		i					1			•		grained acid volcanics			•	1 1	32 6 35	ı.
)]	155	5		1	611	4		1		İ		As above plus minor pale pink quartzite			ł	1	34 5 4	
	160	5	[]		612	. 3	ł			Ì		Pale pink quartzite with very minor volcanic fragments				1 [35 7 4	
	165	5	[]		613	2]		As above	<u>'</u>			1	32 6 35	
	170	5			614	2		1 .	1		· .	As above				1	32 6 3	L
۱ ا	175	5			615	5		,		1	1	Dark red brown and green fine grained acid volcanics with			۱.	1 1	0 -	
.	180	_ ا			4.4	_			1		1	minor quartzite	i i			1 1		
	185	5 5		1	616 617	5 4	İ		1	1		Fine grained purple and pale green acid vokanics				1 1	40 7 4 40 7 4	
- 1	190	5			618	5			ĺ	l		As above As above	l i			1 1	40 7 4 36 6 4	
١	195	5			619	4	i			1	1	As above				1 [37 7 5	
1	200	5		- 1	620			ı	l	1	1	As above			1		46 8 6	
- 1	205	5		- 1	621	5 5	1]	1.	As above					45 8 6	
	210	5			622	5	1	1.	1	i	l .	As above				1	46 8 6	
-	215	5			623	5	1	1 .		1		As above					46 8 6	
	220	5			624	. 5		1				As above				1 [2
		_		-					1		İ	·						
1			.		İ			1				End of Hole	Ba	ckgro	und Re	ading	30 5 3	1
					ļ					1								
											1							
-1		ĺ		- 1				1	1						1	1		
- 1		l	1 1	l l		!	1	ł	J	1	1	· ·	1 1		ı	1 1		

Drilled by	Mitchell Drilling	Type of Drilling Rotary Percussion.	Hole Size	, 	% Recovery		Surveyed by	ln	nstrument Used	.	
Date Started	10.October, 1972	Date Completed12Octobor,19.72	Logged by	D.C. TUCKE	R Sampl	ed ByD	.C. TUCKER	Record Con	mpleted M.F.	FOY	
No. of Hole	PDRR 3 Location Pandanus	s Creek - Red Rock	Depth of H	ole 220 1	Co-ords.of Collar	10042N	. 10300E	Bearing	_	Inclination	Vertical.



LIMITED

From	rom To Sample Recovery Sample			Sample	1						Angle Surve		Survey			
- rom	10	Length		•	No.	0308					Geological Log	to core	Depth		Inclination	Notes
	ļ				PCPD	ppm		<u> </u>								T1 T2 T3 T4
0 5 5 10 5 10 5 10 5 10 5 10 5 10 5 10	5 10 15 20 25 30 35 40 45 55 60 65 77 80 85 90 90 105 110 115 120 145 155 130 145 155 160 160 175 170 175 180 180 180 180 180 180 180 180 180 180	55555555555555555555555555555555555555			526 526 527 526 527 528 529 529 533 533 533 533 533 533 533 533 533 53	435555632222322246246 9 053323343446443 25654					Bulldozed mullock and weathered acid volcanics Pale brown weathered acid volcanics As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above Dark green and red-brown partly weathered volcanics As above Dark green-black fine grained volcanics and minor medium grained pale brown acid volcanics and minor medium grained pale brown acid volcanics Mulum grained pale brown acid volcanics Purple and green acid volcanics Purple and green acid volcanics Purple and green acid volcanics Purple and green acid volcanics Purple and green acid volcanics Purple and green acid volcanics Purple and green acid volcanics Purple and green acid volcanics As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above		cgroun	d read	ing	40 8 4 1.5 40 8 4 2 38 6 4 2 40 7 4 1.5 40 8 4 2 38 7 3 2 38 7 4 2 38 7 3 2 38 7 4 2 38 7 3 2 38 6 3 1.5 36 6 3 1.5 36 6 3 1.5 37 4 2 38 7 4 2 38 6 3 1.5 36 6 3 1.5 37 4 2 38 7 4 2 38 7 4 2 38 7 4 2 42 7 35 2 42 7 35 2 42 7 35 2 42 7 3 3 2 38 7 4 2 42 7 35 2 42 7 3 3 2 38 7 4 2 42 8 4 2 40 8 4 2 40 8 3 2 38 7 4 2 41 5 3 38 7 4 2 42 8 4 2 40 8 3 2 31 6 4 1.5 31 6 3 1.5 32 6 3 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 33 6 6 4 1.5 34 6 6 4 1.5 35 6 6 4 1.5 36 6 7 7 4 1.5 37 6 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 4 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.5 38 7 7 7 1.

Drilled by . Mitchell Drilling	Type of Drilling Rotary Percussion Hole Size -	% Recovery - Surveyed by -	Instrument Used	-
Date Started 12 October, 1972	Date Completed 13 Octmber, 1972 Logged by D.C. TUCKER	Sampled By D.C. TUCKER	Record Completed M.F. F	OY
No. of Hole PDRR 4 Location Pandanus	Creek - Red Rock Depth of Hole 220 Co-ords.	of Collar 10003N, 10200E	Bearing - In	nclination Vertical.



LIMITED

DRILL RECORD																	
From	То	Sample Length	Recovery	-	Sample No.			A:	says	,	,	Geological Log	Angle to core		Survey		Notes
	 	Length	 `	+		U ₃ 0 ₈	<u> </u>	 		 			to core	Depth	Bearing	Inclination	
	 	ļ	├ -	+	PCPD	ррт	·	 	 		ļ				 		T1 T2 T3 T4
0 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5	5 10 15 20 25 30 35 40 45 50 65 70 75 80 95 100 115 110 115 125 130	**************************************			671 671 6773 6774 6775 67778 67778 68812 6886 6886 6886 6886 6889 6993 6995	35566544555644255343433444						Sandy soil Weathered granite As above As above As above As above As above As above Fresh pink and green granite As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above As above End of Hole					34 6 35 L5 40 6 3 2 42 7 4 L5 42 8 3 L5 42 8 3 L5 40 6 35 2 38 7 4 2 38 7 4 2 40 6 35 2 38 7 4 2 40 6 35 2 36 7 4 2 40 6 3 5 2 36 7 4 2 40 6 4 2 36 8 4 L5 38 6 3 L5 38 7 4 L5 35 7 35 2 34 6 35 L5 35 6 3 5 2

Orilled by MitchellDrilling	Type of Drilling Rotary Pencussic	n Hole Size	% Recovery Surveyed t	by Instrument Use	:d ,,,,,,,,,	
Date Started 13.Octuber, 1972	Date Completed15_October19.72	Logged by D. C. TUCKER	Sampled By D.C. TUC	CKER Record Completed M	.F. FOY	
No. of Hole PDPR 5 location Panda	nus Chook Pad Book	Depth of Hole + 20.1 Co-ords	s.of Collar on Fav. 10006r	Bearing	Inclination	













