

~~SECRET~~

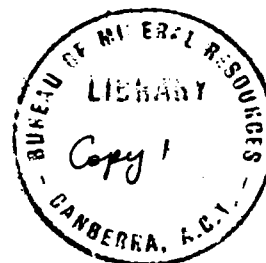
COMMONWEALTH OF AUSTRALIA. UNCLASSIFIED

(Director's 149 G/3 of 25/7/60)

DEPARTMENT OF NATIONAL DEVELOPMENT.
BUREAU OF MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS.

RECORDS.

1953/132



NON-LENDING COPY

NOT TO BE REMOVED
FROM LIBRARY

WHITE'S SOUTH PROSPECT, RUM JUNGLE, NORTHERN TERRITORY.

by

H. J. Ward.

DARWIN, N.T.

60
COMMONWEALTH OF AUSTRALIA. ~~SECRET~~ UNCLASSIFIED

(Director's 149 G/3 of 25/7/60)

DEPARTMENT OF NATIONAL DEVELOPMENT.

BUREAU OF MINERAL RESOURCES

GEOLOGY AND GEOPHYSICS.

RECORDS.

1953/1321

WHITE'S SOUTH PROSPECT, RUM JUNGLE, NORTHERN TERRITORY.

by

H. J. Ward.

R E P O R T

ON

WHITE'S SOUTH PROSPECT, RUM JUNGLE, N.T.

by H.J. Ward.

RECORDS

C O N T E N T S.

	<u>Page.</u>
INTRODUCTION	1
GEOLOGY	1
WORKINGS	1
DIAMOND DRILLING	1
CONCLUSIONS	3
ACKNOWLEDGEMENTS	3
REFERENCES	3

Plate No.

Plans.

Scale.

- | | | |
|---|--|-------------------|
| 1 | Surface Plan, White's South Prospect, Rum Jungle, N.T. | 1 inch - 40 feet. |
|---|--|-------------------|
-

INTRODUCTION.

White's South prospect is situated on the southern bank of the Finniss River (East branch) about 400 feet south southwest of White's Deposit (Ward 1953). Rocks do not outcrop in the area, but low radioactive anomalies were located in this area by the Geophysical Section 1951 suggesting that the western continuation of White's Deposit after faulting might be beneath the soil cover. Low grade ore intersections were obtained in five diamond drill holes put down in the area in 1952.

A plan of the area on a scale of 40 feet to 1 inch accompanies this report (Plate 1.)

GEOLOGY.

The area is completely covered by soil with slate rubble and alluvium. Diamond drilling has revealed that the same slate formation outcropping at White's Deposit, and consisting of carbonaceous slates and chlorite schist, lies beneath the mantle of soil and alluvium. The major north striking fault which terminates White's Deposit to the west is thought to have displaced the continuation of the ore body about 400 feet south.

WORKINGS

A costean about 400 feet long was bulldozed across the axis of the radiometric contours costeaning is yet to be completed and underground development may be necessary.

DIAMOND DRILLING.

Pattern diamond drilling was carried out in 1952. In all a total of 1734.5 feet were drilled by the Goldfields No. 7 drill from 9 drill sites, and low grade ore was intersected in 5 holes. The results of drilling are given in the following table -

Drill Hole	Coords of site.		Reduced Level of site.	Bearing.	Depression.	Bore Depth feet.	Instrument Assay% U_3O_8 .	Remarks.	Year.	Drill
WS1	256S	82W	313'89	347°55'	45°	189	Averages 0.21% Between 65 & 75 Ft.	-	1952	Goldfields
WS2	277S	179W	314'36	348°	45°	197	-	-	1952	"
WS3	318S	120W	316'.14	348°	45°	234	Average 0.11% between 85-90 ft. & 135' & 140'	No water return.	"	"
WS4	467S	242W	318'.13	348°	45°	223	-	-	"	"
WS5	322S	119SW	316'.14	348°	60°	225	0.12% between 125' - 130' 0.09% between 130' - 135'	-	"	"
WS6	236S	18E	312'.9	348°	45°	150	-	-	"	"
WS7	359.5S 211.8W		317.4	346°	45°	246.5	Averages 0.21% between 170' - 180'	-	"	"
WS8	350S	305..SW	314.6	347°30'	45°	140	0.11% between 80' - 85'	-	"	"
WS9	180S	280W	313'	347°30'	45°	130	-	-	"	"

CONCLUSIONS.

A great deal of exploratory work has yet to be done in this area before the value of the prospect can be determined. Costeaming and underground development will be necessary adjuncts to the diamond drilling programme.

ACKNOWLEDGEMENTS.

The author wishes to thank all officers of the Northern Territory Administration and Bureau of Mineral Resources who were connected with this work. He wishes to expressly thank Mr. R.S. Matheson, Senior Geologist, Mr. W. Rae, Mr. D.F. Dyson and Mr. D.N. Smith all of the Bureau of Mineral Resources.

REFERENCES.

- | | | |
|---------------|-------|---|
| Matheson R.S. | 1953. | Run Jungle Investigations 1951 and 1952
C'wealth Bur. Min. Res., Records Rept.
1953/24. |
| Ward H.J. | 1953. | White's Deposit, Bur.Min.Res., Geol.
Records Rept. (in preparation). |

WHITE'S SOUTH RUM JUNGLE N.T.

SURFACE PLAN

SCALE

by H.J. WARD.

LEGEND

Radiometric anomaly
x = times background
S.P. anomaly in millivolts
Costeans

2x

30

TRUE

MAGNETIC

100W

00

100E

200N

200E

White's
No 4 Shaft

NT47C-29

500S
400S
300S
200S
100S
00
100W
200W
300W
400W
500W

200S
300S
400S
500S

100S
200S
300S
400S
500S

00
100E
200E

100N

