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DIAMOND DRILL REPORT

RINGWOOD COPPER PROSPECT.

- 4 -

I.P. YOULES.

GS 67/4

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DIAMOND DRILL REPORT

RINGWOOD COPPER PROSPECT.

INTRODUCTION

This report details the geological information from two diamond drill holes at the Ringwood Copper Prospect.

LOCATION & ACCES

From Alice Springs the prospect is 98 road miles east along a graded unmetalled road; it is 20 miles south east of Ringwood Homestead and 2 miles south of Phillipson No.6 Bore.

HISTORY

Traces of copper minerals were discovered in 1954, by M. Collins, who brought the occurrence to the attention of the Resident Geologist, Alice Springs. It was examined by Jones (1954) but the deposit was considered to be uneconomic. During an investigation of mineral deposits in the Alice Springs district in 1965 it was decided to examine the occurrence at depth.

PRIOR INVESTIGATIONS

The geology of the area is described by Wells et al. (1965). Jones (1954) examined the prospect, and so did Youles (1965), who recommended the drilling.

GEOLOGY

The prospect occurs near the base of the Areyonga Formation of Upper Proterozoic age.

Wells et al. described the lithology as:-
"The Areyonga formation consists of boulder clay, pebble and cobble conglomerate, arkose and poorly sorted sandstone and siltstone. -- The lithology of the formation varies rapidly along strike". Tuffaceous sediments have since been observed in the formation.

In the vicinity of the prospect some 400 feet of the formation is present. It crops out on a ridge 6 miles long, in which the rocks strike north-east and dip 50°-70° north-west. The formation overlies, apparently conformably, red-brown dolomitic siltstone of the Lovers Creek member of the Bitter Springs Formation; it is overlain conformably by the Pertatataka Formation.

In a transition zone at the base a red and green chert pebble conglomerate is interbedded with light brown dolomitic siltstone and green dolomitic siltstone. This grades upwards, in 3 - 5 feet, to 40 feet of green dolomitic siltstone with thin interbeds of white dirty sandstone. Overlying the siltstone, forming the crest of the ridge, is a sequence of silicified sandstone and arkose with soil covered intervals.

SURFACE MINERALISATION.

Low concentrations of malachite, azurite, and chalcocite occur along bedding planes in the 4 feet of green dolomitic siltstone immediately overlying the transition zone for over 8 miles along the ridge. Towards the eastern end the siltstone has interbeds of white dirty sandstone which show copper staining. To the east a highly ferruginous bed free of copper mineralization up to 1 foot thick occurs at the base of the mineralization; No evidence of the primary mineralization was observed.

DRILLING RESULTS.

Two diamond drill holes were put down in 1965/66 by mines Branch, N.T.A., to examine the occurrence below the weathered zone. The core from both holes is stored at the Mines Branch office, Alice Springs.

Hole No. 1.

Drill hole No. 1. was sited near the western end of the ridge to intersect the mineralized zone perpendicularly at 300 feet. The mineralization was penetrated at 256'. It was decided to drill on to 360' to examine the underlying siltstone.

Core recovery over the main interval of grey green dolomitic siltstone between 220'6" and 256'4" was very low (see drill hole No. 1 log). The core covered did show signs of weathering, which may account for the low recovery.

The sulphide present in this section is mainly pyrite. It is fine-grained and generally occurs in the matrix of the thin sandstone interbeds. Assay results (below) indicate that copper is present in the interval 250' - 256'; examination of the few core sections did not reveal any chalcopyrite, but recovery was only 25%.

No further zones of copper mineralization were intersected in the underlying sediments.

Hole No. 2.

Hole No. 2. was originally planned to investigate the eastern end of the ridge. In view of the poor core recovery over the interval of interest in hole No. 1, it was decided to move only 1 mile along strike to the north-east. Hole No. 2, was sited to intersect the mineralized zone at 400'. The zone was penetrated at 379', the hole terminated at 383'. Apart from fault zones, core recovery was good throughout. The angle between bedding and the drill hole was 40° - 45°.

Results from this hole are more encouraging. Fine grained disseminated sulphides, mainly pyrite, occur throughout the zone 329' - 382'6". Chalcopyrite occurs patchily with concentration in small crosscutting veinlets, or in clots along bedding planes. The host rocks are a series of green and grey siltstones, partly dolomitic, gray felspathic sandstone, partly dolomitic and sandy dolomite. Throughout these rocks there are

small streaks and blebs of black graphitic material, and also thin interbeds (0.1mm) of black graphitic shale.

Other intervals of similar rock types were intersected higher in the hole, the thickest being between 244' and 278'. Only pyrite was identified in these sections. These intervals correspond with similar intervals in hole No. 1, although the pyrite mineralisation was not observed there, and the siltstones are not so well developed.

The interval 379' - 393', which contains chert pebble conglomerate beds ($\frac{1}{2}$ " to 1" thick) shows a gradational change from the grey siltstone sequence to the underlying red-brown siltstone. This change was also evident in hole No. 1.

Between 73'6" and 90' in hole No. 2, and between 26'6" and 33' in hole No. 1, a tuffaceous siltstone was intersected. This is the first recorded occurrence of any form of volcanic material in the Areyonga Formation. The rock does not crop out at the surface.

ASSAY RESULTS.

Surface Mineralization.

The outcrop, in the vicinity of diamond drill hole No. 1, was sampled. Semi-quantitative spectrographic analysis gave the following:-

<u>Width</u>	<u>Copper</u>	<u>Cobalt</u>	<u>Nickel</u>	<u>Rock Type.</u>
8 feet	150 ppm	30 ppm	40 ppm	Green Siltstone
2	1000	100	50	Cu-stained green siltstone
5	30	5	15	Transition zone to brown siltstone.
10	15	3	5	Brown Siltstone.
10	20	7	40	Brown Siltstone.
10	20	3	3	Brown Siltstone.

Lead values less than 15 ppm and zinc less than 20 ppm.

Hole No. 1.

Sludge samples were collected by the driller over 10 feet intervals from 210' to T.D., at 360', and submitted to the Australian Mineral Development Laboratories for semi-quantitative spectrographic analysis for copper, lead, zinc, cobalt and nickel; the results are given in the bore hole log. No samples were submitted for assay.

The results show that copper/cobalt mineralization occurs near the base of the grey-green siltstone sequence (240' - 26 the maximum values being 2500 ppm copper and 100 ppm cobalt.

Samples of the grey-green siltstone from 155'-170', 220'-240', and 250'-256', the brecciated siltstone in the transition zone 256'-259' and the red-brown siltstone from 260'-360' were analysed for potash (K_2O). The results (see log) indicate a potash content of 0.3 - 6% in the grey green siltstone to 256', and 3.6 - 5.8% below 256'.

Hole No. 2.

Core from the following intervals, 174' - 179', 224' - 279', and 329' - 362'6" was split and sampled, generally over one foot intervals; the samples sent to Australian Mineral Development Laboratories for semi-quantitative analysis for copper, lead, zinc, cobalt and nickel. The results for both holes are shown in Appendix 1, but were not available at the time of writing.

CONCLUSIONS.

These drilling results show clearly that the Ringwood copper deposit is of the stratiform type. The change of rock type from dominantly green siltstone and sandstone in hole No. 1, to the grey siltstone and sandstone in hole No. 2, the increase in extend of mineralization, and the presence of other siltstone intervals of a similar type higher in the sequence, are factors that strongly support a recommendation for further investigation along strike higher in the succession. As the Mt. Skinner copper deposits (Youles 1965) are in rocks of the same type and age, the prospects for further discoveries in the Areyonga Formation are excellent.

REFERENCES.

Jones	1954	Unpub. Report Res. Geol. Office N.T.A. Alice Springs.
Wells et al	1965	Geology of the North Eastern part of the Adadeus Basin. Aust. Bur. Min. Res. Rec. 1965/108.
Youles	1965 Proposed Diamond Drilling.	Unpub. Report. Res. Geol. Office. N.T.A. Alice Springs.
Youles	1965	Mt. Skinner Copper Deposit Alice Springs. Res. Geol. Office N.T.A. ALICE SPRINGS.

SUMMARY.

Two diamond drill holes penetrated a sequence of green and grey pyritic felspathic dolomitic siltstone and sandstone, arkose, and tuffaceous siltstone, towards the base of the Areyonga Formation.

The green and grey siltstone intervals contain chalcopyrite; secondary copper minerals have been traced at the surface for seven miles along strike.

Spectrographic results give values of up to 2500 ppm copper and up to 120 ppm cobalt ⁱⁿ the mineralized intervals.

APPENDIX 1.

Interval	Cu	Pb	Zn	Co	Ni
Diamond Drill Hole No. 1.					
210'-220'	150	30	40	30	40
220'-230'	120	25	30	25	40
230'-240'	200	25	20	15	50
240'-250'	80	20	220	100	50
250'-260'	2500	20	220	50	30

Interval	Cu	Pb	Zn	Co	Ni
260'-270'	300	50	60	12	30
270'-280'	150	10	20	8	15
280'-290'	80	30	20	8	12
290'-300'	200	40	25	15	25
300'-310'	120	15	220	8	20
310'-320'	80	20	25	15	20
320'-330'	70	20	20	12	30
330'-340'	100	15	20	10	25
340'-350'	40	20	220	7	10
350'-360'	60	40	25	8	20
B	20	3		3	3
C	20	10	"	7	40
D	15	5	"	3	5
E	30	6	"	5	15
F	1000	15	"	100	50
G	150	8	"	30	40

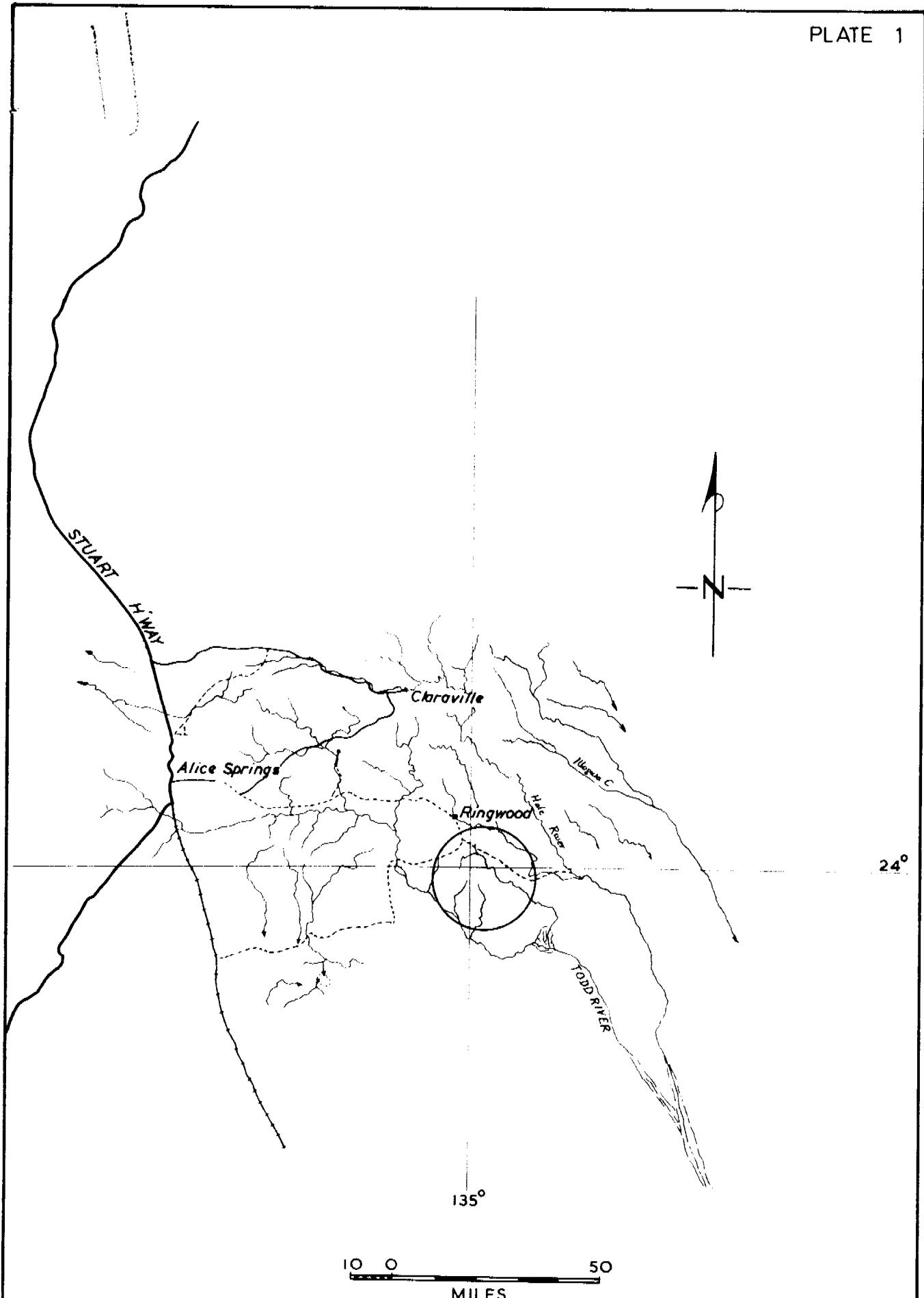
Diamond Drill Hole No. 2.

329'-330'	30	20	20	8	8
330'-331'	40	15	"	15	20
331'-322'	40	8	"	7	8
332'-333'	40	10	"	6	8
333'-334'	20	12	"	8	10
334'-335'	50	20	"	8	12
335'-336'	100	20	"	20	15
336'-337'	10	7	"	7	15
337'-338'	20	7	"	7	15
338'-339'	20	7	"	10	15
339'-340	25	7	"	12	15
340'-341'	20	10	"	12	12
341'-342'	40	8	"	15	15
342'-343'	120	12	"	15	15
343'-344'	100	8	"	15	15
344'-345'	20	10	"	20	15
345'-346'	20	8	"	8	20
346'-347'	15	8	"	10	15
347'-348'	12	7	"	8	10
348'-349'	60	12	"	20	20
349'-350'	60	12	"	40	15
350'-351'	200	10	"	30	15
351'-352'	40	10	"	20	15
352'-353'	80	12	"	30	20
353'-354'	12	5	"	8	15
354'-355'	15	15	"	20	20
355'-356'	15	20	"	50	25
357'-358'	60	15	"	40	20
358'-359'	80	10	"	20	15

Interval	Cu	Pb	Zn	Co	Ni
359'-360'	80	8	20	20	12
360'-361	60	7	"	25	25
361'-362'	70	15	"	15	10
362'-364'	30	10	"	15	15
364'-365'6"	80	12	"	10	6
365'6"-366'6"	60	8	"	20	10
366'6"-367'6"	80	12	"	20	12
367'6"-368'6"	150	12	"	10	8
368'6"-369'6"	100	8	"	15	20
369'6"-370'6"	250	15	"	5	10
370'6"-371'6"	120	8	"	20	15
371'6"-372'6"	400	7	"	6	10
372'6"-373'6"	120	15	"	40	20
373'6"-374'6"	1000	20	"	6	12
374'6"-375'6"	600	6	"	6	15
375'6"-376'6"	800	8	"	8	12
376'6"-377'6"	1200	8	"	20	30
377'6"-378'6"	1200	7	"	70	40
378'6"-379'6"	70	7	"	120	15
379'6"-380'3"	20	3	"	7	6
380'3"-381'	25	5	"	11	6
381'-381'9"	8	6	"	1	10
381'9"-382'6"	50	2	"	2	8
Results in P.P.M.					
174-175	70	25	20	150	5
175-176	50	20	"	200	4
176-177	60	50	"	120	3
177-178	80	50	"	200	4
178-179	120	50	"	80	4
244-246	120	20	"	80	2
246-247	20	20	"	80	2
247-248	150	50	"	250	5
248-249	20	15	"	200	3
249-250	40	8	"	200	5
250-251	15	15	"	150	4
251-252	80	80	"	200	5
252-253	60	20	"	400	6
253-254	25	50	"	400	6
254-255	70	20	"	200	4
255-256	80	50	"	120	2
256-257	120	70	20	200	5
257-258	50	20	"	120	3
258-259	50	25	"	150	3
259-260	40	20	"	200	3
260-261	150	30	"	80	2
261-262	40	70	"	200	4

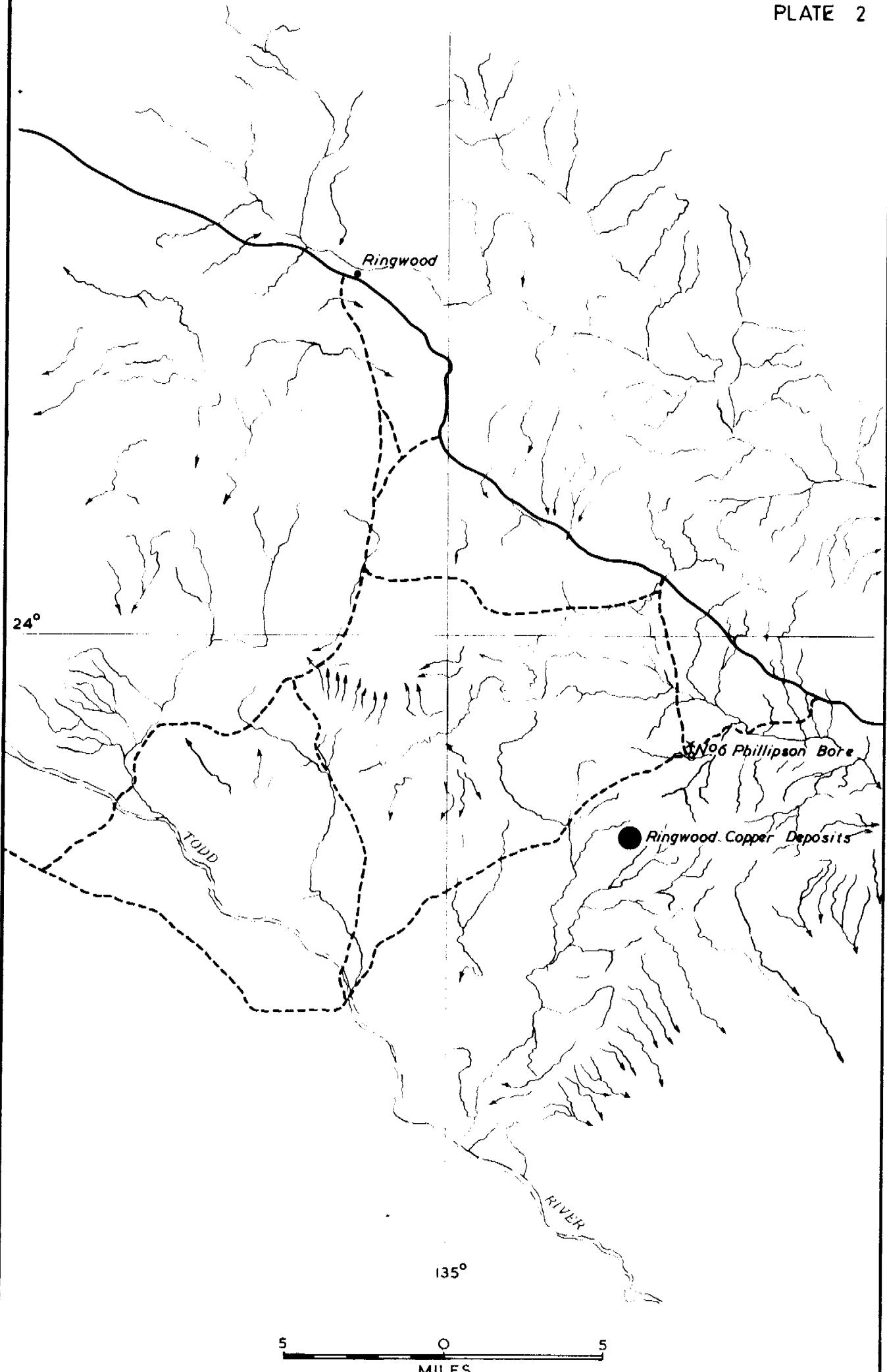
Interval.	Cu	Pb	Zn	Ni	Mo
262-263	25	25	"	300	6
263-264	25	30	"	150	4
264-265	25	30	"	200	5
265-266	120	25	20	120	4
266-267	50	10	"	300	
267-168	50	15	"	200	5
268-169	100	70	"	80	4
269-270	50	25	"	100	3
270-271	100	30	"	150	3
271-272	100	40	"	200	4
272-273	100	20	"	200	4
273-274	100	25	"	200	6
274-275	25	20	"	250	5
275-276	50	15	"	150	4
276-277	70	150	"	200	4
277-278	100	40	"	400	5
278-279	100	50	"	250	4

Results in P.P.M.



LOCALITY MAP
RINGWOOD COPPER PROSPECTS

NORTHERN TERRITORY



RINGWOOD COPPER PROSPECTS

NORTHERN TERRITORY

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS
GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD

HOLE NO. 1

CO-ORDINATES 298,600E 1,999,900N

LOCATION

REMARKS

R.L. GROUND

+5°

DIRECTION 325°

DESCRIPTION OF CORE	R.L. CASING	DEPTH SIZE OF CORE	LFT. % CORE RECOVERY	SAMPLES	REMARKS	ASSAYS
Grey sandy limestone & dolomite	NX	10'	11 27			
		10'	10 11 16 14 58 27 64			
Silicified sandstone & siltstone, with some chert		10'	12 33			
Yellow-grey siltstone & mudstone, minor sandstone	BX	20'	37 77			
Sandstone becomes dominant.		20'	36 100			
Badly broken grey micaceous siltstone		20'	48 56			
Green + grey arkosic sandstone with thin green siltstone interbeds. Butt + grey-green tufaceous siltstone		30'	18 23			
Core severely broken		30'	45 75			
Core severely broken yellow-grey 35' some grey siltstone		40'	63 96			
Grey red mudstone - little sandstone		40'	42 100			
Arkose + siltstone		40'	54 100			
Coarse grained silicified Arkose - minor siltstone		50'	30 100			
		50'	36 100			
		60'	84 100			
Partly silicified.		70'	66 61			
Core severely broken		70'	32 38			
Becomes fine grained partly silicified arkose		80'	60 100			
		80'	48 100			
		90'	59 90			
Core broken Coarse gr. Arkose with siltstone		90'	85 89			
		100'				

DRILL NO. 6

TYPE EDECO

CASING IN HOLE DURING DRILLING

EXPLANATION

HEAD OFFICE

LOGGED BY L.P. YOUNG

DRAWN BY L.P. YOUNG

CHECKED BY

SHEET 1 OF 4

DRAWING NO.

REFERENCES

DRILLER S. BURGER

COMMENCED 30-11-65

COMPLETED 7-12-65

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS
GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD
HOLE NO. 1
LOCATION

UN-ORIGINATED 298,600E 1,999,900N

REMARKS

R.L GROUND

ANGLE FROM HORIZONTAL 45°

DIRECTION 325°

DESCRIPTION OF CORE	P.L. CASING	DEPTH. LOG	SIZE OF CORE	LOG	% CORE COVERED	SAMPLES	REMARKS	ASSAYS
Coarse grained Arkose minor siltstone	8X							
		65'		65				
		72'		72				
		110'		73				
				61				
		120'		101				
				94				
		130'		26				
				22				
		140'		23				
				26				
				31				
				37				
		150'		12				
				22				
	AX			7				
				11				
		160'		7				
				6				
		170'		6				
				10				
		180'		33				
				39				
		190'		67				
				66				
		200'		49				
				41				

DRILL NO. 6

TYPE EDECO

CASING IN HOLE DURING DRILLING

EXPLANATION

HEAD OFFICE

LOGGED BY J.P. YOUNGS

1/PY

DRAWN BY

CHECKED BY

SHEET 2 OF 4

DRAWING NO.

REFERENCES

DRILLER S. BERGER

COMMENCED 20-11-65

COMPLETED 27-1-66

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD

HOLE NO. 1

LOCATION

COORDINATES: Millarap Grid 298,600E, 1,999,900N

RL GROUND

ANGLE FROM HORIZONTAL

45°

DIRECTION 325°

DESCRIPTION OF CORE	R.L. DEPTH M	CASING SIZE OF CORE	PERCENT CORE COVERED	SAMPLES	REMARKS					ASSAYS		
					CORE	SLUDGE	SLUDGE SAMPLES - ppm.	Cu	Pb	Zn	Co	Ni
Coarse grained Arkose					10 15							
Core severely broken					4 5							
Dark grey Sandstone	210'				4/27			150	30	40	30	40
Grey-green Sandstone					6 8							
Traces Sulphide - as malachite sandstone												
Thin interbeds of Grey-green Sandstone + Siltstone	220'				9 7			120	25	30	25	40
detritus in part												
Occasionally thin arkosic intervals												
Traces Sulphide in Sandstone intervals	230'				34 29							
Occasionally concentrated along bedding planes												
Traces Sulphide in Sandstone and disseminated in siltstone	240'				21 17							
Traces Sulphide in Sandstone, disseminated in siltstone.	250'				18 25			200	25	20	15	50
Intraformational Breccia of grey-green siltstone + fine sandstone in matrix of coarse sandstone	260'				4 2 36 0 0 80 0 0 35 100			250d	20	20	50	30
Interbedded grey-green brown siltstone with red + green chert pebbles												
Mainly brown calc. siltstone - some grey + cream siltstone.												
Short sporadic veins of calcite, hematite + pyrite.								300	50	60	12	30
Coarse red-brown Sandstone	270'				114 100							
Mainly brown calc. siltstone - some grey siltstone + occas. sandstone intervals.	280'				114 95			150	10	20	8	15
Sporadic blebs + veins of hematite and pyrite.	290'				44 73							
300'					96 100			200	40	25	15	25

DRILL NO. 6
TYPE EDECO

ASSEMBLY NO. 1000

DRILLER S. BERGER.
COMMENCED 30-11-65
COMPLETED 7-1-66

HEAD OFFICE

LOGGED BY	J.P. YOUNES
DRAWN BY	I.P.Y.
CHECKED BY	
SHEET	3
DRAWING NO.	4

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD
HOLE NO. 1
LOCATION

CO-ORDINATES Military Grid 298,600E, 1,999,900N

REMARKS

RL GROUND

ANGLE FROM HORIZONTAL 45°

DIRECTION 325°

DESCRIPTION OF CORE	R L CASING SIZE OF CORE	DEPTH LOG	LIFT & CORE RE COVERY %	SAMPLES	REMARKS					ASSAYS
					Cu	Pb	Zn	Co	Ni	
Mainly brown calcareous siltstone - some grey siltstone + sandstone intervals.		AX	18' 19'		120	15	220	8	20	
Sporadic blebs + veins of hematite + pyrite.	310'		33' 92'	*	80	20	25	15	20	
	320'		37' 81'		70	20	20	12	30	
	330'		89' 93'	*	100	15	20	10	25	
	340'		26' 39'	*	40	20	220	7	10	
	350'		59' 99'	*	60	40	25	8	20	
Core severely broken	360'		36' 46'							
			120' 100'							

DRILL NO. 6	CASING IN HOLE DURING DRILLING	EXPLANATION	HEAD OFFICE		
TYPE EPECO			LOGGED BY	I.P. YOGES	
DRILLER S. BERGER			DRAWN BY	I.P.Y.	
COMMENCED 30-11-65			CHECKED BY		
COMPLETED 17-1-66		REFERENCES	SHEET 4 OF 4		
GD130			DRAWING NO.		

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS
GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD

HOLE No

LOCATION 1 Mile N.E. of Hole No 1

REMARKS.

COORDINATES MILITARY GRID : 299,400E; 2,001,300 N RL GROUND

801,300 N RL GROUND
ANGLE FROM HORIZONTAL 70°

DIRECTION 325

DRILL NO ... 6	TYPE ... EDECO	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE		
			LOGGED BY	DRAWN BY	CHECKED BY
DRILLER ... SPARER	COMMENCED ... 22-1-66	DIFFERENCES	IPY.		
COMPLETED ... 30-4-66					
			SHEET ... 1 ... OF ... 4		
			DRAWING NO		

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD

HOLE NO. 2

LOCATION 1 Mile. N.E. of Hole No. 1

CO-ORDINATES

REMARKS

R.L. GROUND

ANGLE FROM HORIZONTAL 70°

DIRECTION

DESCRIPTION OF CORE	R.L. DEPTH	ID. DIA.	LOG	CASING SIZE OF CORE	SAMPLES	REMARKS	ASSAYS
Off-white silicified Pelsp. sandstone	26'						
	45'						
Interbedded with conglomerate	110'	0.0.0					
	110'	0.0.0					
Thinly bedded grey-green siltstone + yellow-grey siltstone + minor arkose	120'						
Yellowish arkose - silicified, coarse grained to conglomeratic - rare, v. thin grey-green shale bands	120'						
128' 8"-10" Band of grey-green shale	130'						
	130'						
	140'						
	150'						
Coarse grained silicified Arkose	160'						
	160'						
Fine & coarse grained arkose silicified becoming grey-green in colour	170'						
Grades to thinly bedded grey-green Pelsp. siltstone + shale - silicified Shallow water deposition Occas. v. thin beds black graphic shale Some dissecan. pyrite, 2" fault breccia & gouge Medium to coarse grained, silicified Arkose	170'						
	180'						
Grey silic. pelsp. siltstone - trace pyrite v. thin beds graphic shale White silic. quartz conglomerate Much pink felspar	190'						
	190'						
	AXT	0.0.0	33				
		0.0.					
		0.0.					
		X 0					
		0.0.					

DRILL NO. 6	CASING IN HOLE DURING DRILLING
TYPE ... DECO	
DRILLER ... S. BERGER	
COMMENCED ...	
COMPLETED ...	

EXPLANATION

REFERENCES

HEAD OFFICE

LOGGED BY ... L.P. YOUNG
DRAWN BY ... L.P.Y.
CHECKED BY ...
SHEET ... 2 ... OF ... 4
DRAWING NO. ...

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD

HOLE NO. 2

LOCATION 1 Mile N.E. Hole No. 1

REMARKS

R.L. GROUND

ANGLE FROM HORIZONTAL 70°

DIRECTION

DESCRIPTION OF CORE	R.L. DEPTH	CASING SIZE	SAMPLES	REMARKS	ASSAYS
	AXT 0' - 0'	55			
Conglomeratic interbedded with red mudstone - occurs. grey siltstone interbeds. Pyrite on joints & fractures		22			
Pink, fine grained felsic silic sandstone. Thinly bedded green mudstone, arkose gradation to red mudstones	210'	69			
Arkose, minor conglomerate, then red mudstone intervals		100			
Thinly bedded green siltstone + white fine grained Arkose	220'	60			
Arkose		100			
Arkose with thin interbeds red-brown mudstones	230'	54			
Arkose, med to coarse grained, grey		100			
" becomes greenish due to high mafic content.					
Interbeds green/yellow felsic siltstones (& tuff.) + fine to med grained arkose	240'	52			
Grey spotted felspathic siltstone, with thin beds black graphitic pyritic shales. Trace pyrite in siltstone		57			
3" band of g.y. conglom at 251'		100			
Also present here dark green sandy mudstone - interbedded. beds (" - 1/2" thick - becoming dolomitic		50			
Coarse grained greenish arkose		52			
Black pyritic mudstone - some grey felsic siltstone		42			
Grey felspathic pyritic in part, siltstone & sandstone		32			
Some thin black pyritic shales becoming more common towards 278'		26			
Silicified medium to coarse grained arkose		48			
BX		69			
		16			
		48			
270'		38			
		69			
280'		69			
		17			
		42			
		44			
290'		40			
		24			
300'		100			

NO. 5266

CASING IN HOLE DURING DRILLING

EXPLANAT.

HEAD OFFICE

LOGGED BY	I.P. Yarceo
DRAWN BY	J.P.Y.
CHECKED BY	
SHEET 3 OF 4	DRAWING NO.

DRILLER J. BENGER

COMMENCED

COMPLETED

51 50

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RINGWOOD

2

HOLE No. 2
LOCATION 1 Mile NG N°1.

REMARKS

R.L. GROUND

ANGLE FROM HORIZONTAL 70°

DIRECTION

DESCRIPTION OF CORE	R.L. CASING	DEPTH SIZE OF CORE	TYPE OF CORE COVETURE %	SAMPLES	REMARKS	ASSAYS
Silicified medium to coarse grained arkose.			60% 100			
			60% 100		Torset off at 313' Hole wedged at 145' & re-drilled.	
		316'	48% 100			
			25% 100			
Interbedded arkose + siltstone - core badly broken, much iron oxide		320'	20% 41		Probable Fault	
Gray, medium grained silicified arkose			58% 97			
			47% 92			
Darkgrey pyritic graphitic shales, grey pyritic siltstone + felspathic sandstone		330'	52% 100			
From 333' onwards, shale as very thin (<1mm) beds. Also v. thin graphitic pyritic streaks & blebs in siltstone & sandstone. Pyrite is disseminated. In crosscutting veins faulted by slippage movements. 325'-329' Mainly grey-green pyritic siltstone with black graphitic streaks. From 329' Grey-green pyritic siltstone & gray felsp. pyrit. dolomitic sandstone traces chalcopyrite-fine dissemin. From 341' "			60% 100			
Interbedded grey pyrit. silt. & green pyrit. silt. & grey sandy dolomite - alternating streaks & blebs + v. thin beds of graphitic shale		340'	50% 98			
Traces chalcopyrite along in dolomitic along bedding planes at 348' 5"			40% 95			
Pyrite finely disseminated bedding planes & in small (<2mm) blebs & veinlets. 351' 10"-354' 4" Sandy dolomite with thin black graphitic pyrite-shales. v. badly broken.		350'	58% 100			
Mainly sandy dolomite Grey + green pyritic siltstone + grey sandy dolomite - blebs graphitic shale. Traces fine-grained dissemin. chalcopyrite.			3/14 41% 79			
V. badly broken - fault gauge			23% 68			
Dolomitic felspathic pyritic sandstone with grey + green pyritic siltstone v. thin graphitic shale beds. Traces chalcopyrite along bedding planes.		360'	3/10 6/61 31/97		Acid Survey - Dip 64° (corr.)	
v. thin laminations of green, grey + black pyritic shales and dolomiti. felspathic pyritic sandstone - traces chalcopyrite From 373' grey-green sandy siltstone with pyrite + chalcopyrite Pyrite is coarsely crystalline cubes.		370'	55% 92			
Thin interbeds silty carbon sandstone - grains are rounded red + green chert. Trace pyrite.			58% 97			
6" reddish-green chert pebbles in green grades to Chert pebble conglomerate with light brown dolomitic siltstone		380'	52% 88			
Red brown dolomitic siltstone		390'	58% 93			

DRILL NO. 6

TYPE EDECO

CASING IN HOLE DURING DRILLING

EXPLANATION

HEAD OFFICE

LOGGED BY J. YOUNG

DRAWN BY J.P.Y.

CHECKED BY

SHEET 4 OF 4

DRAWING NO.

REFERENCES

DRILLER S. BERGER

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