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1964/150



RUM JUNGLE SURVEY - 1963 - AREA 55 PROSPECT

by

P.W. Pritchard

The information contained in this report has been obtained by the Department of National Development, as part of the policy of the Commonwealth Government, to assist in the exploration and development of mineral resources. It may not be published in any form or used in a company prospectus without the permission in writing of the Director, Bureau of Mineral Resources, Geology and Geophysics.

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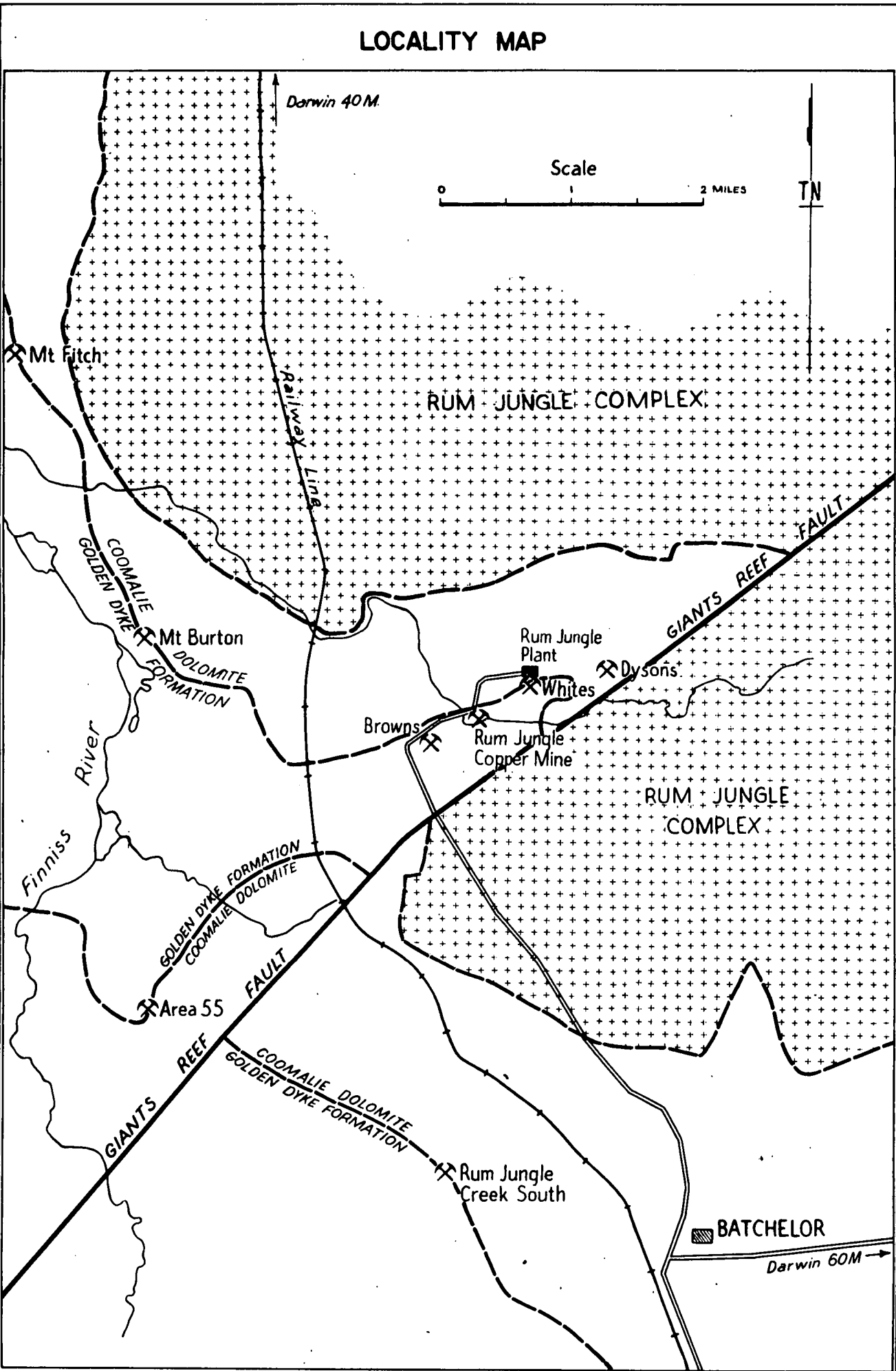
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Bureau of Mineral Resources, Geology and Geophysics, Sept. 1964

To accompany Record 1964/150

D52/A8/130

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SUMMARY

At Area 55 lead, copper, cobalt, nickel and uranium mineralisation is present in carbonaceous schist, chert and chlorite schist of the Lower Proterozoic Golden Dyke Formation and copper, cobalt and nickel mineralisation is also present in the underlying Lower Proterozoic Coomalie Dolomite.

The mineralisation occurs where these metasediments are cylindroidally folded into two main anticlines about an axis plunging at from 40° to 60° to the north-west.

Its upper part has been tested by diamond and churn drill holes which have not intersected economic tonnages of base metal mineralisation.

Electromagnetic and magnetic surveys outline untested conducting bodies down the suspected plunge of the mineralisation.

INTRODUCTION

At Area 55, four miles south-west of the Rum Jungle uranium and copper treatment plant (Fig. 1) lead, copper, cobalt, nickel and uranium mineralisation occurs in Lower Proterozoic metasediments.

The history of the discovery and examination of the prospect is:

- 1951: An airborne scintillometer survey showed Area 55 to be a first order radiometric anomaly (Wood and McCarthy 1952).
- 1953-54: The radiometric anomaly was examined and tested by Territory Enterprises Pty.Ltd. which dug two costeans and drilled two diamond drill holes (which were not cored), and eight churn drill holes.
- 1958: Copper, lead and cobalt geochemical anomalies associated with the radioactive mineralisation were outlined by a soil sampling survey (Haldane and Debnam 1959).
- 1959-60: Australian Mining and Smelting Pty.Ltd. drilled four diamond drill holes and costeanned the area to examine the base metal mineralisation. This work outlined an uneconomic body of lead and copper mineralisation.
- 1960-62: Turam, Slingram, self potential radiometric surveys were made over the area. (Douglas 1962, 1963).

- 1962: A more detailed geochemical survey of the area was made using auger drills for deep sampling (Ruxton and Shields 1963).
- 1962-63: T.E.P. drilled four diamond drill holes to test the radiometric anomalies. These did not intersect any significant uranium mineralisation.
- 1963: a. The 1962 geochemical survey was followed up with additional auger sampling and the copper anomaly was tested with one diamond drill hole. The results of this work are the principal subject of this report.
- b. A reconnaissance induced polarisation survey was made along the traverse which includes the drill holes DDA1, DDG17 and DDA4. This did not indicate any anomalies of interest (Eadie, 1963).

GEOLOGY

Stratigraphy

Lower Proterozoic, Coomalie Dolomite, Golden Dyke Formation and Crater Formation (defined by Malone, 1962) greenschist facies metasediments crop out or have been drilled at Area 55. Most of the Coomalie Dolomite and all of the ?Crater Formation are covered by sand but the Golden Dyke Formation is reasonably well exposed.

The stratigraphy of the area is shown in Table 1.

Table 1

LOWER PROTEROZOIC STRATIGRAPHY - AREA 55

Rock Unit	Lithological Sequence
Golden Dyke Formation	8. Carbonaceous schist
	7. Carbonaceous schist, cherty carbonaceous schist, chert.
	6. Chlorite schist, chlorite-biotite schist.
Coomalie Dolomite	5. Tremolitic chert.
	4. Sericitic tremolitic schist and limestone.
	3. Limestone, magnesian ferroan or manganiferous limestone.
?Crater Formation	2. Muscovite rock.
	1. Biotite rock.

The muscovite and biotite rocks were penetrated by auger drilling in the south-eastern corner of Area 55; weathered boulders of muscovite rock occur at the southern end of costean 6 (Plate 4) and muscovite is reported in CD 168. As these do not outcrop and have not been seen in diamond drill core their origin is not known. The muscovite and biotite rocks penetrated by auger drilling in the south-eastern corner of the area may be part of the Crater Formation.

In the eastern part of the area the Lower Proterozoic rocks are blanketed by ferruginous sand containing minor conglomerate lenses.

Structure (see Plates, 1, 4, 5, 6).

The surface and subsurface geological data shows that the Lower Proterozoic rocks are cylindroidally folded into a series of overturned anticlines about an axis which parallels rodding lineations and mullion structures prominent in exposures of the Golden Dyke Formation. These structures and the axis of the folding dip at 40° to 60° to the north-west. Two main anticlines have been formed. Their axial surfaces trend east-north-east and dip at 40° to 50° to the north-north-west.

In the north-west corner of the area a crenulate lineation plunging at about 50° to the north-north-west occurs in Golden Dyke carbonaceous schist. This may be related to the folding responsible for the changes in plunge of the fold axis of the major folding described in the preceding paragraph.

The strongly foliated outcrops near the Lands Department trigonometrical station and the locations of the Coomalie Dolomite-Golden Dyke Formation contacts in drill holes DDG17, DDA3 and DDA4 indicate that an intensely sheared zone of attenuated rocks is developed along the overturned limb of anticline 2. (Plate 1). This shear zone coincides with the flatter parts of the contact between the incompetent chlorite schist unit (Table 1) and the more competent carbonaceous schist and chert, and limestone units of the succession. A similar smaller shear zone is inferred to occur along the overturned limb of anticline 1.

The brecciated carbonaceous schist-tremolitic schist and dolomite contact at 317 feet in DD708 and the mylonite reported below 261 feet in DD701 are probably intersections of a major shear zone which is indicated on sections EE' and FF' (Plate 5).

The synclinal projections of anticlines 1 and 2 on sections AA', BB' and CC' (Plate 4) are misleading. The Area 55 structure can be best understood from the sections at right angles and parallel to the plunge of the folding (Plates 6 and 7).

GEOCHEMICAL SURVEYS

Area 55 has been the subject of B.M.R. geochemical surveys by Haldane and Debnam (1959) and Ruxton and Shields (1963).

The latter carried out an auger drill survey and their results are combined with those from the 1963 auger geochemical survey in the assessment of the geochemical prospecting presented in this report.

In these surveys, auger holes were drilled on a 200 by 200 foot grid and additional holes were drilled on the intervening 100 x 100 or 50 by 50 foot centres wherever anomalous amounts of base metals or radioactivity were found. Grab samples were collected for every two or three foot interval drilled and the samples were combined to make a composite sample of the material penetrated in each hole.

E.J. Howard and A.D. Haldane assayed the samples for copper, cobalt, nickel, lead, molybdenum and vanadium using an optical emission spectrograph and the spectrograph plates were scanned for tin, beryllium and phosphorus. These results are reported in Goadby (1962), Oldershaw (1963), Morgan (1963), and Kousal (1964).

GEOCHEMICAL RESULTS

The positions of the geochemical anomalies in Area 55 are located on Plates 1 and 2 by isochemical contours outlining:

1. the limits of the areas in which only anomalous amounts of the base metals were found. (See Pritchard (1964) for a discussion of the method used to select these contours).
2. The peaks of the anomalies

Table 2.

GEOCHEMICAL ANOMALIES - AREA 55

Metal	<u>Ranges of populations</u>		Significant contour (p.p.m.)	Remarks ↓
	<u>Background</u> (p.p.m.)	<u>Anomalous</u> (p.p.m.)		
Lead	5-700	300-5000+	700	The most extensive and intense of the anomalies. Overlies mainly chloritic schist. Peak overlies the crestal area of anticline 2.
Copper	5-500	30-5000+	500 2000	Distribution within the 500 p.p.m. contour similar to that of lead. A higher grade incomplete population is present - its lowest value is 2000 p.p.m. - may outline the higher grade shoots in the mineralised zone.
Cobalt	5-100	10- 700+	100	Less extensive than lead or copper. Lies within the area of the lead anomaly. Peak corresponds to copper peak.
Nickel	5-200	50- 700	200	Distribution similar to that of cobalt.

The bulk of each anomalous area overlies the chloritic schist unit where it is exposed on the crest of the anticlinorium. The contours outlining these areas show trends which correspond either to the trends of the shear zones, or to the trends of the rodding and mullion structures or of the crenulate lineations. This suggests that the mineralisation is located in the shear zones and plunges parallel to the plunge of either of these sets of minor structures.

The tail of the anomaly on the eastern side of the area where the isochems trend north-east is a peculiar feature which neither overlies the favourable chloritic schist host rock below the western part of the anomaly nor parallels the structural trends discussed in the previous paragraph.

RADIOMETRIC ANOMALIES.

A radiometric anomaly is associated with the base metal anomalies. Insufficient radiometric readings were available to attempt a statistical analysis and the 0.025 units contour based on the maximum probe readings in weathered rock was arbitrarily chosen to outline the anomalous area (Plate 2). This area has a similar distribution but a dissimilar outline to the areas of the geochemical anomalies, a statistical analysis may show that the shapes of the two types of anomalies are similar.

The peak of the radiometric anomaly is at 1100W, 500S where the maximum probe reading was equivalent to the reading from a test block containing 1.7 lbs/ton U_3O_8 .

GEOPHYSICAL SURVEYS

The Area 55 radiometric anomaly was discovered during the airborne radiometric and magnetic survey by Wood and McCarthy (1952) and has been the subject of follow up ground Turam, Slingram, self potential and radiometric surveys reported by Douglas (1962, 1963) and of a reconnaissance induced-polarisation survey (Eadie 1963).

GEOPHYSICAL RESULTS

The anomalies found by the ground, Turam, self potential and magnetic surveys are listed in Table 3 and their locations are shown on Plate 3. Detailed Slingram results are not available. Douglas (1963) reports that they agree with the Turam results. The induced polarisation survey "did not indicate any anomalies of interest". (Eadie 1963).

Table 3

GEOPHYSICAL ANOMALIES - AREA 55

Method	Anomaly location	Comments
Turam	1. Centred at 200S, 135W	Occurs over the chlorite schist unit near its contact with the overlying carbonaceous schist and chert unit. Lies down the direction of plunge of the crenulation lineation from the copper anomaly peak 200 feet south-east. The Lower Proterozoic rocks below the anomaly are hidden by sand.
	2. Centred at 670W, 900S	Occurs over rocks in a similar stratigraphic position to those below the first anomaly.
	3. Centred at 580W, 200S	Areal small low intensity anomalies within the "tail" of the copper geochemical anomaly. They overlie Coomalie Dolomite rocks concealed by sand cover.
	4. Centred at 420W, 00S.	
	5. Centred at 260W, 600S	Areal small, low intensity anomaly. Not associated with a geochemical anomaly. Underlying rocks concealed by sand cover.
	6. Located north-west of 14W, 8S.	Not closed off. Occurs over chert and carbonaceous schist. Lies down the direction of plunge of rodding and millon structures from the peak of the lead anomaly and from the copper anomaly.
Self potential	7. South-west corner of the area on Plate 4.	Part of a larger anomaly trending west and associated with the most intense electromagnetic anomaly in the Area 55 region. Not associated with a geochemical anomaly. Related to mineralisation. Stratigraphically higher than any of the other anomaly sources in this table. Drilled by T.E.P. outside the area on Plates 1-4. Reported to overlie pyritic carbonaceous schist.

Table 3 (cont.)

Method	Anomaly location	Comments
	8. Centred at 450W 40S.	Areally small low intensity anomaly associated with the peaks of the copper, cobalt and nickel anomalies.
Magnetic	West of 1100 W between 00 and 600S	Coincides with the most intense Turam anomaly (number 1 above).

In most of the Rum Jungle area the trends of the contours representing the results of the various geophysical surveys parallel the regional trend of the Lower Proterozoic metasediments and are probably related either to variations in the stratigraphy of these rocks or to shear zones parallel to their regional trend. At Area 55 the regional trend of the Lower Proterozoic metasediments is north-east and the outlines of the geophysical anomalies show this trend. Therefore if the Area 55 geophysical anomalies represent sulphide mineralisation, the trend of the mineralised zone can be expected to be that of the host metasediments. This does not correspond with the conclusions drawn from the geochemical information which indicates that the mineralisation is located along westerly trending structures. A further contrast between the results of the geochemical and radiometric surveys and the results of the geophysical surveys is shown by the decreased intensity of the electromagnetic and self potential readings over the area along the crest of the antiform. In this area the chlorite schist unit, is exposed which contains much of the known mineralisation and underlies the bulk of the area outlined by the geochemical anomalies. These contrasts may be explained by the lack of sulphides in the deeply weathered chlorite schist along the crest of the antiform.

MINERALISATION

Lead, copper, cobalt, nickel, zinc and uranium mineralisation is contained by Lower Proterozoic carbonaceous schist, chert, chlorite schist, biotite schist and limestone located in the sheared crest of the Area 55 structure.

Near the surface the mineralisation is outlined by the geochemical and radiometric anomalies which occupy an irregularly shaped area 1000 feet long and up to 900 feet wide (Plate 2). The most intense lead and copper mineralisation is located in chlorite schist along the east-north-east trending crestal area Anticline 2 and the trough of the syncline between anticlines 1 and 2. The peak of the copper anomaly lies near the outcrop of the junction of the two shear zones and the Coomalie Dolomite. The geochemical anomaly contours show that a smaller zone branches from the main zone along a bearing of 335°. The trend of this zone parallels the trend of crenulation lineations which occur in the north-west corner of the area.

At depth the best intersections of mineralisation are 15 feet of 6.3% copper in DDG 17 (88 - 103 feet), and 50 feet of 6.9% lead in DDA 4 (41 - 91 feet). These intersections lie in chlorite schist along the projection of the shear zone which crops out along the chlorite schist-carbonaceous schist and

chert contact on the southern limb of the ~~number 2~~ anticline. The 10 feet of 1.4% copper in DDA 3 (347 - 357 feet) lies near the intersection of this shear zone and the Golden Dyke Formation - Coomalie Dolomite contact on the crest of anticline 2. This intersection is also down the suspected plunge of the mineralisation from the peak of the copper anomaly.

DDA 4 intersected 15 feet of 2.6% copper (142 - 157 feet) in chloritic quartzite in the trough of the syncline between anticlines 2 and 3 (Plates 4 and 5).

The 4 - 5% lead intersections in DDA 3 between 83 and 131 feet may lie along a smaller inferred shear zone starting on the southern limb of anticline 1.

Cobalt and nickel mineralisation is associated with the copper mineralisation. The highest grade intersections are 0.8% cobalt and 1.2% nickel in the zone of high grade copper mineralisation in DDG 17. Cobalt and nickel may be important by products of any copper mining.

Zinc is present in small amounts but it is unlikely to be a valuable constituent of any ore.

The mineralisation responsible for the radioactivity has not been assessed. Some of the radioactivity (see the drill log for DDG 17) is associated with the base metal mineralisation.

The drilling has been concentrated on the mineralisation in the supergene zone. Most of the high grade lead intersections are in oxidised material in which much of the metal appears to be "held" by clay. The high grade copper intersection in DDG 17 is just below the base of the oxidised zone and the most abundant copper mineral present is chalcocite.

Tonnages

No reasonable estimate of the total dimensions of the mineralisation can be made until follow up work is done.

FUTURE DRILLING

Comparison of the geochemical and geophysical results suggests that the mineralisation in the sheared crest of the Area 55 anticlinorium may be associated with deeper mineralisation outlined by the electromagnetic and magnetic anomalies down plunge from the geochemical anomalies in the weathering profile. The geophysical anomalies indicate that the strike of this mineralisation parallels the strike of the enclosing metasediments.

Drill holes to test these geophysical anomalies, one of two small electromagnetic anomalies within the tail of the geochemical anomaly, the electromagnetic anomaly number 2 on the southern side of the area, and the down plunge extension of the peak of the copper anomaly, are listed in Table 4.

CONCLUSION

Area 55 is an incompletely tested lead; copper, cobalt and nickel; or uranium prospect. At the moment it is of particular interest as a copper prospect from which cobalt and nickel may be important byproducts.

So far the examination has been concentrated on the oxidised and supergene mineralisation in the sheared limbs and the crests and troughs of folds which comprise the Area 55 structure. Potential ore grade mineralisation occurs in this structure but no economic tonnages have been indicated.

Further examination of the base metal mineralisation is needed. It should be concentrated on the conducting bodies located down the probable plunge of the mineralisation from the geochemical anomalies.

No economic uranium mineralisation has been intersected but detailed examination of all existing radiometric data should be made to evaluate results to date.

DRILLING RECOMMENDED AT AREA 55*

TABLE 4

Hole	Co-ordinates		Depth (Feet).	Priority	Comments.
	Easting	Northing			
A	1330W	200S	350	1	(1) To test the most intense electromagnetic anomaly, almost down the plunge of lineation 2 from the peak of the geochemical copper anomaly at 1200W, 400S.
B.	1440W	445S	600	2	(1) To test the suspected extension of the mineralization in the syncline between anticlines 1 and 2 within the electromagnetic anomaly downplunge from the geochemical anomaly. (2) To be continued into limestone even if lead mineralization is encountered in the upper part of the chlorite-schist unit.
C.	1440W	610S	850'	3	(1) To test the suspected extension of the mineralization within the electromagnetic anomaly. (2) To test the downplunge extension of any mineralization intersected in DDE or DDF.
D.	1440W	900S	550'	3	(1) To test the extension of the mineralization within the electromagnetic anomaly downplunge from the peak of the lead anomaly. (2) To test the suspected shear zone on the southern limb of anticline 2.
E.	1100W	500S	550'	1	(1) To test the inferred mineralised shear zone downplunge from the peak of the copper ore-body in the vicinity of the 10' of 1.4% copper encountered in DDA 3. (2) To test the Coomalie Dolomite near the shear zone.
F.	1100W	645S	500	2	(1) Follow up from DDE. (2) To test the inferred mineralised shear zone. (3) To probe for an extension of the inferred major shear zone intersected in DD701 and DD708.
G.	550W	300S	350	1	(1) To test the tail of the geochemical anomaly. (2) To test the extension of the suspected mineralised shear zone. (3) To probe for muscovite schist and examine its contact with the overlying limestone.
H.	657W	900S	200	4	(1) To examine the number ² geophysical anomaly. (See section XX ¹).

* From "Area 55, Rum Jungle, N.T. by P.W. Pritchard.

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APPENDIX I.

DIAMOND DRILL HOLE LOGS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE

HOLE No. DD G17

REMARKS

CO-ORDINATES 10° 9.8' W, 8° 30.5' S (B.M.R. Grid)

R.L. GROUND

LOCATION AREA 55 E72-6

ANGLE FROM HORIZONTAL 90°

DIRECTION

DESCRIPTION OF CORE	RADIO-METRIC CASING	DEPTH SIZE OF CORE	LOG	LIFT & CORE RECOVERY (m/s)	SAMPLES	SPECTROGRAPHIC ASSAYS (ppm.)	ASSAYS				
							Cu	Pb	Co	Ni	Zn
						Cu Co Ni Pb Mo V	%	%	%	%	%
Not cored.	.009										
	.010										3'
	.011										
	.011										
Yellow brown mottled	.011			42							
Clay after chlorite schist,	.011					2000 60 100 5000+ a 150	0.2	1.9			
sericitic in part.	.011										7'
	.012			39	7'	500 60 100 5000+ a 500	<0.1	0.37			9'
	.012						<0.1	0.39			
	.011					1500 80 150 5000+ a 700					13'
	.010										
	.011			35	13'	500 40 60 5000+ a 500	<0.1	0.58			
	.011										16'
	.012										17'
	.012			52	17'	1000 60 80 5000+ a 500	<0.1	1.2			21 1/2"
	.013										
	.012										
	.011										
	.010			48	21 1/2"	5000 150 200 5000+ a 300	0.2	2.2			
	.010										26'
	.011										
	.009										
	.009			54	26'	5000 100 150 5000+ a 300	0.3	2.2			
	.010										
	.009										
	.010										31'
	.010										
	.011			46	31'	5000+ 200 300 5000+ a 300	0.3	0.75			
	.010										36'
	.011										
	.011			48	36'						
	.012										41'
40' schistosity 55'	.012										
	.011										
	.011			31	41'	5000 150 150 5000+ a 300	0.3	0.73			
	.011										46'
	.012										
	.013			29	46'	2000 200 80 5000+ a 300	0.4	0.48			50'
	.013										
	.014										
	.013										
	.014			31	51'	5000 300 50 5000+ a 2 10	0.7	0.52			54 1/2"
	.014										
	.015										57'
	.015			14	54 1/2"	5000+ 500 500 5000+ a 2 200	0.5	0.79			
57 1/2' Manganese staining	.022										
	.024			50	57'	5000+ 500 1000 5000+ a 300	0.6	2.3			62'
	.024										
	.025										
	.026										64 1/2"
	.027			45	62'	5000+ 1000 1500 5000+ a 500	1.0	7.0			66 1/2"
	.026										
	.025					5000+ 500 300 5000+ a 300	0.5	3.5			67 1/2"
	.025			55	66 1/2"	5000 200 200 5000+ a 200	0.5	3.5			71 1/2"
	.025					2000 700 700 5000+ a 500	0.3	1.8			
	.024										
	.025										
	.026			37	71 1/2"	2000 500 500 5000+ a 300	0.4	0.68			76 1/2"
	.032										
	.030										
	.033										
	.029										
	.030			32	76 1/2"	5000 500 700 5000+ a 2 50	0.8	1.0			80 1/2"
	.030										
	.025										
	.026			48	80 1/2"	3000 700 1000 5000+ a 5 150	0.4	0.68			84 1/2"
	.026										
	.027										
	.027										
	.025			35	84 1/2"	5000+ 2000+ 2000 5000+ a 500	0.6	1.6	0.80	1.20	0.32
	.020										
Base of zone of oxidation. 81 1/2"	.017										87 1/2"
	.018										
Grey pyritic sericitic chlorite	.016			25	88 1/2"	5000+ 2000+ 2000+ 5000+ a 150	4.2	2.3	0.19	0.50	0.07
Schist, chalcocite.	.017					500					
	.018										
	.013			48	91'	5000+ 1000 500 5000+ a 100	4.2	2.1	0.40	0.50	0.07
	.013										
	.011										
	.011										
	.013			37	95 1/2"	5000 2000 200 1000 70 70	7.4	0.22	0.85	1.20	<0.05
	.014					(5000+ 2000 700 1000 70 70)					
	.015										
	.016										100

DRILL A.D. DRILLERS

TYPE MINDRILL E3000

KAMARUTS

DRILLER UNDERWOOD

COMMENCED 15.7.63

COMPLETED 8.10.63

EXPLANATION

CASING IN HOLE DURING DRILLING

REFERENCES

1) Radiometric results using 1292A Ratemeter. Doughnut 0.14 at start 0.20 at end of readings. Readings 266'-0.1

0-57' <1% P₂O₅ 57-62' 2% P₂O₅ 62-64' 8" 2% P₂O₅ 64' 8"-91' <1% P₂O₅

0-90' up to 10% rutile. (R. Beavers).

2) Assays by S. Baker (May 1964)

July, 1964

* Assays using absorption spectrograph.

HEAD OFFICE

LOGGED BY P. PRITCHARD

DRAWN BY P. PRITCHARD

CHECKED BY

SHEET 1 OF 4

DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE

REMARKS

HOLE No. DDA 17

CO-ORDINATES

R.L. GROUND

LOCATION

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	RADIO-METRY CASING	DEPTH SIZE OF CORE	LOG	LIFT & CORE RECOVERY (INS)	SAMPLES	SPECTROGRAPHIC ASSAYS						ASSAYS				
						Cu	Co	Ni	(PPM) Pb	Mo	V	Cu	Pb	Co	Ni	Zn
<u>103'</u> Bands of grey chert with sulphide boxworks and pyritic clay. 107'-110' Yellow white clay. 114'-127' Grey pyritic clay. 105' Foliation 45° Joints 90° 45° 114' Foliation 40°	019			57		5000+	2000+	1000	5000+	150	200	10.0	0.36	0.85	0.75	40.05
	020															
	024															
	023			27	103	3000	1000	1000	5000	200	150	0.6	1.4			103 1/4
	010					1500	700	700	5000	20	50	0.2	0.54			
	009															
	010															109
	009			38	109	3000	500	200	700	15	20	0.2				
	009															
	014															112 1/2
Gray chert, limonite on joints and fractures which are clay filled. Lenses of sulphide boxwork to 164' below this sulphides tend to be preserved from weathering. Galena in blebs up to 1 1/2" x 3/4" and stringers. Minor pyromorphite.	016			32	112 1/2"	5000+	200	200	2000	70	100	1.0				
	016															
	016															116
	016			16	116'	3000	60	80	5000+	100	150	0.4	1.4			
	015															
	017															
	016															
	017			22	120											121
	018															
	019															
<u>127'</u> Gray chert, limonite on joints and fractures which are clay filled. Lenses of sulphide boxwork to 164' below this sulphides tend to be preserved from weathering. Galena in blebs up to 1 1/2" x 3/4" and stringers. Minor pyromorphite.	018			24	122	5000	200	150	5000+	100	150	0.8	1.2			
	017															
	016			31	124 1/4"											
	016				125'											
	014					5000+	300	700	1000	20	50	1.5				127
	014			38	127 1/4"											128
	013					5000+	100	200	3000	10	30	1.2				
	012															131
	013			18	131	1000	40	60	1500	5	20					133
	006															
164' Base of zone of appreciable weathering.	006			20	133	700	80	80	2000	20	50					135
	005															
	005			50	134 1/2"	500	20	20	700	5	5					
	005															
	005															
	005			38	139 1/2"	1000	20	15	500	5	5					140
	004															
	004															
	004			24	141 1/4"											
	003					1500	20	20	700	5	5					145
	004			52	144 1/4"											
	005															
	005															
	006															
	006															
	007			42	149	3000	30	40	700	5	5					150
	008															
	008															
	011			48	152 1/2"											155
	013					1500	30	30	700	5	5					
	012			24	156 1/2"											
	004															
	004			24	158 1/2"											
	003					2000	30	20	500	5	5					160
	003			48	160 1/2"											
	004															
	004															
	004			48	164 1/2"											165
	005				165 1/2"	① 3000	20	15	150	5	5					
	004					② 3000	30	20	200	5	5					
	003			24	168 1/2"											170
	003					1500	30	20	100	5	5					
	003			18	170 1/2"											
	002															
	002			18	174 1/2"											175
	003			24	176 1/2"	2000	30	20	100	5	5					
	003			12	177 1/2"											
	003															
	003			54												180
	003					2000	30	15	100	5	5					
	003			10	182											
	003			42	183											185
	004					3000	30	20	150	5	50					
	004			36	186 1/2"											
	003															
	003			30	189 1/2"	1000	20	10	150	5	5					190
	003															
	003			28	192											
	003															
	003															
	003			65	194 1/2"	1500	30	10	70	5	5					195
	003				65' (6" runs)											
	004															
	004															
	004															
	004															
	004															
	004															
	004															
	004															200

DRILL NO.

EXPLANATION

HEAD OFFICE

TYPE

CASING IN HOLE DURING DRILLING

LOGGED BY

DRILLER

REFERENCES

DRAWN BY

COMMENCED

CHECKED BY

COMPLETED

SHEET 2 OF 4

DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE

REMARKS

HOLE NO. DDG.17

CO-ORDINATES

R.L. GROUND

LOCATION

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT 8 CORE RE COVERY 17.5	SAMPLES	SPECTROGRAPHIC ASSAYS						ASSAYS
	CASING	SIZE OF CORE				Cu	Co	Ni	P.P.M	Pb	Mo		V
					18	1000	15	10	50	5	45	
202' Dark grey siliceous mudstone with bands of contorted light grey chert throughout. Strongly fractured.	004 004 004 004 003 003 003 003 004 005 005 005 005 005 006 006 006	210		161	202'6"							
	005 005 005 005 005 006 006 006	220		28	217 219'3"							
221'6" Grey and white chert with clay on fractures.	005 005 005 005			8	222'6"	2000	500	500	1000	50	50	
225'7" Dark grey carbonaceous schist. 244'6"-260 leached green mineral on slickensides. 235'3"-237' breccia, fragments of schist and quartz to 1/8" 244'6" foliation do	006 006 007 008 009 010 010 011 010 009 010 010 011 011 011 010 010 010 009 009 009 010 009 009 009 010 009	230 240 250		16 11 6 1 5 10 10 12 6 6 17 17 9 9 5 4 3 6 4 5	224 225'7" 227'9" 229'6" 230'8" 232'8" 235'3" 237 238'3" 239'9" 241'3" 243'6" 246 247'10" 249'6" 251'6" 252'6" 254'6" 256 248'9"	300	30	15	50	2	20	
	006 005 005 004 003 005	260		10 12 6 6 17 17 9 9 5 4 3 6 4 5	235'3" 237 238'3" 239'9" 241'3" 243'6" 246 247'10" 249'6" 251'6" 252'6" 254'6" 256 248'9"	1500	500	200	100	7	50	
				12 6 6	237 238'3" 239'9" 241'3" 243'6" 246 247'10" 249'6" 251'6" 252'6" 254'6" 256 248'9"							
260 Very fractured and rugly grey chert with clay bands.	006 005 005 004 003 005	260		9 9 5 4 3 6 4 5	246 247'10" 249'6" 251'6" 252'6" 254'6" 256 248'9"	700	20	60	500	10	50	
				2 6 6	261 262'10" 267'10" 269 270							
		270		6 6 7 3 11 8 4 3 3 2	273 275 278'6" 281'3" 283'4" 286'6" 289 290 292 293'2"	500	20	5	10	2	45	
		280										
		290										
		300				1000	80	100	100	5	45	

DRILL NO.

TYPE

DRILLER

COMMENCED

COMPLETED

CASING IN HOLE DURING DRILLING

EXPLANATION

REFERENCES

HEAD OFFICE

LOGGED BY

DRAWN BY

CHECKED BY

SHEET 3 OF 4

DRAWING NO.

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

PROJECT, Rum TUNALE
HOLE No. DD. G.17. CO-ORDINATES R.L. GROUND
LOCATION ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT B CORE RE COVERY	SAMPLES	SPECTROGRAPHIC ASSAYS	ASSAYS
	CASING	SIZE OF CORE					
				30"	301		
T.D. 3046"						3046"	
Spectrographic assays by E.J. HOWARD AND D.A. HALDANE Copper and lead assays by S. Baker.		310					

ASSOCIATED DRILL DIAMOND DRILLERS TYPE MINDRILL E3000	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE LOGGED BY P.W. PRITCHARD DRAWN BY P.W. PRITCHARD CHECKED BY SHEET 4 OF 4 DRAWING NO.
KAMARUTS DRILLER UNDERWOOD COMMENCED 15.7.63 COMPLETED 8.10.63	REFERENCES	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT. RUM JUNGLE

REMARKS.

HOLE No. D.D.A.I.

CO-ORDINATES

R.L. GROUND

LOCATION AREA 55

ANGLE FROM HORIZONTAL 65°

DIRECTION 090° T.

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE- COVERY	SAMPLES	SPECTROGRAPHIC ASSAYS						ASSAYS				
	CASING	SIZE OF CORE				Cu	Co	Ni	Pb	Mo	V	Cu	Pb	Co	Ni	Zn
						p.p.m.						%				
Not cored.																
		10														
		20														
Hard grey-blue cherty slate, bands of white and grey clay.																
20'-36' leached sulphide vugs with soft white coating.																
36'-37' white clay with red tinge, minor grey schist bands, <u>chalcocite</u> .																
37-74 grey cherty slate, ?pyrite leached out.																
37-51. <u>chalcocite</u> stringers and blebs. Pink coating on fractures. Minor <u>chalcopyrite</u> .																
51-74 some weathering, limonite staining. <u>Chalcocite</u> , <u>malachite</u> .																
		32"				1000	60	200	5000	150	2000	0.08	0.09			0.14
		24"				1000	60	100	5000	50	1000	0.08	0.72			0.006
		28"				Not split.										0.006
		60"										0.10	0.01	0.062		0.006
		60"										0.13	0.56	0.040		0.006
		60"										0.32	2.41	0.01		0.006
		60"										0.32	1.30	0.021		0.006
		60"										0.38	2.10	0.03		0.006
		30"				1500	60	150	5000	150	150	0.08	0.24			0.02
		30"				5000	150	1000	5000	100	400	0.24	0.86			0.05
		24"				1000	30	200	5000	20	200	0.07	0.27			0.01
		24"				1500	100	500	5000	200	700	0.11	0.36			0.02
		22"				1000	30	150	5000	15	150	0.13	0.60			0.02
		24"				2000	100	300	5000	10	300	0.40	0.36			0.06
		30"				2000	60	300	5000	5	300		0.20			0.02
		24"				2000	30	300	5000	5	500		0.20			0.02
		12"				700	20	150	5000	5	500		0.29			0.02
White, grey and brown clay with minor bands of chert.																
86'-87' chert.																
		30"				2000	60	300	5000	5	300		0.20			0.02
		24"				2000	30	300	5000	5	500		0.20			0.02
		12"				700	20	150	5000	5	500		0.29			0.02
Grey chert breccia; leached, limonitic clay which tends to have been washed out during drilling.																
Leached limonitic brown clay, with																

DRILL NO. TYPE	EXPLANATION	HEAD OFFICE	
		LOGGED BY	DRAWN BY
DRILLER	1. Assays 40-65' by A.M. & S. Co.	P. PITCHARD	
COMMENCED	2. Spectrographic assays by A.D. Haldane. Be sought but not detected in any sample. (May 1964)	CHECKED BY	
COMPLETED	3. + Emission spectrograph assays by S. Baker (July '64)	SHEET 1 OF 5	
		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT. ROM JUNGLE REMARKS.....
HOLE No. D.D. A1 CO-ORDINATES..... R L GROUND.....
LOCATION AREA 55 ANGLE FROM HORIZONTAL..... DIRECTION.....

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY	SAMPLES	SPECTROGRAPHIC ASSAYS							ASSAYS						
	CASING	SIZE OF CORE				Cu	Co	Ni	Pb	Mo	V	Cu	Pb	Co	Ni	Zn			
						p.p.m.							% % % % %						
some grey patches. Traces <u>chalcocite</u> on fractures. (10.2% Cu.) 115'-129' Yellow and cream clay with minor clayey sugary quartzite.		110																	
			26"			500	30	100	5000+	10	500		0.39					116'	1186'
		120																	
		130																	
		140																	
		150																	
BASE OF OXIDATION Pale green clay. Disseminated <u>chalcocite</u> .		144'																	
			28"	145'		5000+	15	100	5000+	10	1000	1.32	0.77		0.006			1466'	
			24"			2000	150	250	5000+	10	1000		0.56					149'	
		150	30"			1500	100	60	5000+	10	1000		0.16					1516'	
			30"			1500	300	200	5000+	20	700		0.18					156'	
			21"			1000	30	60	5000+	10	700		1.2					158'	
		160	12"			700	150	30	5000+	10	700		2.4					162'	
			42"			① 1000	20	20	5000+	10	700		1.0						
						Zn 100	Sn 20	P. tr.											
						② 1500	30	30	5000+	10	700		5.0					1666'	
176'-214' Soft, friable but relatively unweathered olive green chlorite schist, hardens from 214'.		170																	
		180	16"			300	500	1500	3000	20	300							1806'	
			36"			70	100	300	1000	10	300							185'	188'
		190																	
		200																	

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY	DRAWN BY
DRILLER	REFERENCES	CHECKED BY	
COMMENCED		SHEET <u>2</u> OF <u>5</u>	
COMPLETED		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE REMARKS
 HOLE No. DDA1 CO-ORDINATES R.L. GROUND
 LOCATION AREASS ANGLE FROM HORIZONTAL 65° DIRECTION 090°T

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY	SAMPLES	SPECTROGRAPHIC ASSAYS	ASSAYS				
	CASING	SIZE OF CORE					Cu	Pb	Co	Li	Zn
Hard olive green chlorite mica schist.							%	%	%		
		210	24'6"			100 1000 2000 50 150 500 Zn 100					210
			30"								212'6"
			32"			100 200 500 100 15 500 Zn 200					214'
			20"			200 150 300 1000 5 300 Zn 200 Sn 20					217'6"
		220	22"			70 80 300 50 15 300 Zn 100					220'6"
			15"			500 80 200 2000 5 500 Zn 300 Sn 10					223'
			30"			200 80 150 3000 150 300 Zn 100					225'
			225'6"								227'6"
		230	48"					0.1	0.1	0.08	230'
											240'
		240	39"					0.1	0.15	0.055	240'
			21"					0.13	0.1	0.060	246'
		250	43"					0.1	0.26	0.102	250'
			4"			50 500 800 5 5 100 20 300					258'
			46"			2 bags each 23" core (1) 800 200 500 50 5 300 Zn 200					256'
		260	12"			(2) 100 500 500 70 100 500 Zn 200					257'6"
						50 1500 2000 5 10 Zn 2000 Sn 5					264'
											265'
		270	17"			70 200 500 5000+ 150 500 Zn 100 Sn 10		0.02	0.8		281'
			12"			70 300 400 5000 100 300 Zn 100		0.02	0.5		283'6"
											286'
		290	36"			3000 200 200 150 15 300 Zn 300 Sn 10					298'

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET <u>3</u> OF <u>5</u>	.....
		DRAWING NO. ....	.....

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

PROJECT RUM JUNGLE
HOLE NO DD A1
LOCATION AREA 55
REMARKS
CO-ORDINATES
R.L. GROUND
ANGLE FROM HORIZONTAL
DIRECTION

DESCRIPTION OF CORE	R.L. CASING	DEPTH SIZE OF CORE	LOG	CORE RE COVERY	SAMPLES	SPECTROGRAPHIC ASSAYS Cu Co Ni Pb Mo V P.P.M.	ASSAYS		
							Cu	Pb	Co
							%	%	%
White and grey limonite stained chert. Fractures coated with chalcocite altering to malachite. Yuggy due to leaching of sulphides (if originally chalcocite 12% Cu.)		301				5000+ 200 700 300 100 100 Zn 500	0.78		
			13"						
			22"			5000 100 150 1000 10 45	0.28		
		310	3"			1000 80 200 200 10 45			
			22"			2000 400 300 1500 10 20 Zn 100	0.41		
			24"			5000+ 1000 500 1500 40 30 Zn 200	0.42		
			24"			1000 150 300 5000+ 20 50 Zn 100	0.31		
		320	22"			% Cu Pb Co Zn 921	0.23		
			22"	18		0.56			
			18"	24		0.94			
			24"	24		1.1			
			36"	22	328	0.22			
			24"	34		0.29		0.26*	0.10*
		330	15"	14		0.34		0.16*	0.10*
			20"	26		0.05*	0.10*	0.11*	0.10*
			39"	21		0.22		0.19	
		340	38"	22		1.44		0.63	
			36"		(1)	5000+ 150 300 1000 15 45	1.5		
			32"		(2)	5000+ 300 300 1000 15 45	0.62		
						5000+ 150 300 1500 15 45	0.50		
		350	36"			5000 200 300 1000 15 45	0.29		
			26"			5000+ 200 300 700 20 45	0.60		
			8"			5000+ 200 500 700 10 45	0.38		
			11"			4000 150 1000 700 10 5	0.26		
			18"			4000 60 200 700 10 5	0.26		
		360	18"			3000 150 300 700 200 100	0.48	0.10*	
			11"			5000+ 300 500 1000 45 300	0.83		
			7"			5000+ 150 200 200 5 150 Zn 100 Sn 10	0.94		
			18"			5000+ 100 200 700 5 100 Sn 10	1.54		
		370	12"			5000 100 200 1000 200 50	0.82		
			12"			5000+ 500 300 700 5 50 Zn Sn 10 1000	0.72		
			10"			5000+ 500 500 200 10 100 Zn 500 Sn 10	0.43		
			4"			5000+ 1000 700 200 15 45 Zn 500	0.65		
			10"			5000+ 500 500 100 15 150 Zn 500	0.87		
		380							
T.D 382'									
The hole was first drilled to 340'6" then wedged off at 308' and redrilled to 382'. Sheet 5 gives spectrographic assays over the wedged off interval sampled twice. Over large sample intervals there are sometimes two samples, each half the material available, and labelled one and two from the top.		390							
		400							

DRILL NO.	EXPLANATION	HEAD OFFICE
TYPE	CASING IN HOLE DURING DRILLING	LOGGED BY
DRILLER E.E.P. Co.	REFERENCES	DRAWN BY
COMMENCED	Assays. S. Baker (May 1964)	CHECKED BY
COMPLETED	J.R. Beavers.	SHEET 4 OF 5
		DRAWING NO.

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

PROJECT RUM JUNGLE REMARKS
HOLE No. DDA1 CO-ORDINATES
LOCATION AREA 55 R.L. GROUND
ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	SPECTROGRAPHIC	SPECTROGRAPHIC ASSAYS
	CASING	SIZE OF CORE				ASSAYS Cu Co Ni Pb Mo Y p.p.m.	ASSAYS Cu Co Ni Pb Mo Y p.p.m.
		310'					
		320'				1500 300 400 1500 20 <5 321	2000 200 500 1500 10 <5 320 6"
						5000+ 100 300 300 10 <5 323	3000 200 400 2000 15 100 322
						5000+ 100 300 500 15 <5 325	5000+ 100 200 700 15 <5 324
						5000+ 100 300 500 15 <5 327	5000+ 300 300 600 15 <5 326
						2000 60 200 700 10 <5 329	4000 80 200 700 15 <5 329
		330'				4000 90 200 2000 20 <5 Zn 100 332	1500 60 200 700 20 <5 331 6"
						5000 100 300 3000 15 <5 Zn 100 334 6"	1500 150 200 700 10 <5 333
						1000 60 200 500 20 <5 336 6"	1500 90 150 1000 20 <5 335 6"
						5000+ 60 100 500 10 <5 338 6"	5000+ 200 200 2000 15 <5 337 6"
		340'				5000+ 150 200 700 10 <5 340 6"	5000+ 100 200 200 20 <5 339 6"
							5000+ 200 200 600 15 <5 342 6"
		350'					
		360'					
		370'					
		380'					
		390'					
		400'					

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET 5 OF 5	.....
		DRAWING NO. ....	.....

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE REMARKS
HOLE NO. DD A2 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL 65° DIRECTION 090

DESCRIPTION OF CORE	R.L. CASING	DEPTH SIZE OF CORE	LOG	CORE RE COVERY	SAMPLES	SPECTROGRAPHIC ASSAYS.						ASSAYS			Zn %	
						Cu	Co	Ni	Pb	Mn	V	Zn	Cu	Pb		Co.
						p.p.m.						%	%	%		
Not cored.																
Black carbonaceous schist.		20'														20
			10"	P	100	20	20	700	20	500	a					22
			12"	P	400	60	60	2000	20	800	200					24
			24"	P	200	30	60	2000	100	300	100					26
			24"	P	100	15	12	1000	70	700	a					30
		30'	22"	P	100	12	12	1000	150	500	a					34
			30"	P	50	5	<5	500	100	500	a					40
		40'	36"	P	50	<5	<5	1000	70	500	a					48
			14"	P	70	<5	<5	700	70	700	a					50
			23"	P	70	<5	<5	500	5	500	a					53
			48'													57
			36"	P	70	<5	<5	2000	15	500	a					60
		60'	18"	P	70	<5	<5	1000	5	400	a					63
			42"	P	70	5	<5	5000+	15	500	a	0.29				67
			36"	P	150	10	5	5000+	70	500	a	0.35				70
		70'	30"	P	200	20	15	5000+	100	500	a	0.54				72
			30"	P	200	20	15	5000+	90	500	a	0.50				74
			30"	P	150	20	12	5000+	80	500	a	0.33				76
			30"	P	200	30	30	5000	70	700	a	0.33				80
		80'	48"	P	500	30	30	5000+	50	700	a	0.39				82
				P	200	60	150	5000	15	500	a	0.62				84
	Bleached cream (? chloritic) schist. Traces of malachite. Similar to the material between 83' and 91' in DD A4.			30"	P	700	100	100	5000+	a	500	a	0.25			
				88'-92' Not sampled.												
		90'	18"	P	5000+	30	60	5000+	10	1000	a	0.93				92
			20"	P	5000+	15	30	5000+	a	700	a	1.1				94
			26"		5000	30	100	5000+	15	500	100	0.42	0.80			96
		100'	24"		5000+	12	60	5000	5	700		0.96	0.27			98

DRILL NO.	CASING IN HOLE DURING DRILLING	EXPLANATION P. Phosphorous present. (Trace only).	HEAD OFFICE	
TYPE			LOGGED BY	P.W. PRITCHARD
DRILLER E.E.P. for A.M.S.	Assays by S. Baker (May 1964) *Emission spectrograph assays Samples 34-40, 40-48 split into two. (July 1964)	REFERENCES	DRAWN BY	
COMMENCED			CHECKED BY	
COMPLETED 1960			SHEET 1 of 7	
			DRAWING NO	

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

PROJECT Rum JUNGLE REMARKS
HOLE No. DD A2 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	SPECTROGRAPHIC ASSAYS	ASSAYS
	CASING	SIZE OF CORE			
				Cu Co Ni Pb Mo V Zn	Cu Pb Co Ni
					% % % %
Gray schist and clay.		102'6"	20"	1000 30 150 2000 10 500	102'6"
Vugly white quartz and clay. Sulphide boxworks, limonite staining.			34"	2000 60 200 5000 50 150	0.12% 0.23%
? Chalcocite or pyrolusite veinlets.		107'6"	20"	1500 150 500 5000 20 50	0.08% 0.39%
Gray cherty schist and soft, gray carbonaceous schist.			14"	150 30 150 1500 10 150 200	
107'6"-109'6" cherty schist.					
		120			
123-124' Special lithology.			12"	1500 60 300 5000 10 50 2000	
124-131 Soft gray carbonaceous schist.			30"	700 20 100 2000 10 100 1000	
			24"	1000 60 300 1000 10 400	
		130	24"	1000 60 300 5000 10 300	
		140			
137-142' Weathered, limonitic.		142'			
Soft, green, chloritic, micaceous schist.					
150-151' Quartz with blebs of			P 17"	150 60 100 3000 10 500	0.03% 0.26%
150 BASE OF pyrite and chalcocite			P 12"	5000+ 60 700 5000 10 30 300	0.92% 0.12%
OXIDATION. on fractures.			P 28"	5000+ 2000 1000 5000 15	0.92% 0.44% 0.20% 0.47%
151-153'6" Pink efflorescence.				500 1500	
		160			
		170			
		180			
182-190 Weathered, limonitic, clayey.					
		190			
		200			

DRILL NO.	EXPLANATION	HEAD OFFICE
TYPE	CASING IN HOLE DURING DRILLING	LOGGED BY
DRILLER	REFERENCES	DRAWN BY
COMMENCED	+ Emission spectrograph assays by S. Baker (July 64)	CHECKED BY
COMPLETED		SHEET 2 OF 7
		DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

PROJECT . . . RUM JUNGLE . . . REMARKS . . .
HOLE NO . . . D.D. A2 . . . CO-ORDINATES . . . R.L. GROUND . . .
LOCATION . . . AREA 55 . . . ANGLE FROM HORIZONTAL . . . DIRECTION . . .

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT B CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
243-259 limonitic		210					
		220					
		230					
		240					
		250					
		260					
		270					
		280					
		290					
		300					

DRILL NO.	CASING IN HOLE DURING DRILLING 	EXPLANATION		HEAD OFFICE	
TYPE		REFERENCES		LOGGED BY	
DRILLER				DRAWN BY	
COMMENCED				CHECKED BY	
COMPLETED				SHEET 3 OF 7	
				DRAWING NO.	

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

PROJECT RUM JUNGLE REMARKS
HOLE No. DD A2 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY	SAMPLES	SPECTROGRAPHIC ASSAYS Cu Co Ni Pb Mo V Zn p.p.m	ASSAYS		
	CASING	SIZE OF CORE					Cu	Pb	Co
300-313 Limonitic. 313' Base of weathered zone Dark olive green chlorite biotite schist. (Specimen A2-576'3" is typical.)		310							
		320		22"		300 500 500 2000 & 500 1500			
		330							
		340							
		350							
		360							
		370							
		380							
		390							
		400							

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING 	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET <u>4</u> OF <u>7</u>	.....
		DRAWING NO. ....	.....

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

PROJECT Rum Jungle REMARKS.....
HOLE No. D.D. A2 CO-ORDINATES..... R.L. GROUND.....
LOCATION AREA SS ANGLE FROM HORIZONTAL..... DIRECTION.....

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
		410		12"			0.20	60.1	0.073
				15"			0.13	60.1	0.077
		420		17"			60.10	60.1	0.29
		430							
		440							
		450							
		460							
		470							
		480							
		490							
		500							

DRILL NO.....	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE.....		LOGGED BY.....	
DRILLER.....	REFERENCES Assays 410'-425' by A.M+S.	DRAWN BY.....	
COMMENCED.....		CHECKED BY.....	
COMPLETED.....		SHEET.....5..... OF.....7.....	
		DRAWING NO.....	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT R.M. JUNGLE REMARKS.....
HOLE NO. DD A2 CO-ORDINATES..... R.L. GROUND.....
LOCATION AREA 55 ANGLE FROM HORIZONTAL..... DIRECTION.....

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
		510							
		520							
							0.13	0.22	0.11
		530					0.20	2.55	0.15
							0.47	1.65	0.37
		540					0.53	1.53	0.45
			0'				0.11	0.54	0.28
		550							
		560							
		570							
		580							
		590							
		600							

DRILL NO.....	EXPLANATION	HEAD OFFICE	
TYPE.....		LOGGED BY.....	
DRILLER.....	REFERENCES	DRAWN BY.....	
COMMENTS.....		CHECKED BY.....	
COMPLETED.....		SHEET <u>6</u> OF <u>7</u>	
		DRAWING NO.....	

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

PROJECT RUM JUNGLE REMARKS _____
HOLE No. D.D.A.2 CO-ORDINATES _____ R.L. GROUND _____
LOCATION AREA 55 ANGLE FROM HORIZONTAL _____ DIRECTION _____

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
622' Sugary quartzite. : tremolite : chlorite. pyritic. T.D. 659'		610							
		620							
		630							
		640							
		650			-647				
		660							

DRILL NO. _____	EXPLANATION CASING IN HOLE DURING DRILLING ☒	HEAD OFFICE	
TYPE _____		LOGGED BY _____	
DRILLER _____	REFERENCES	DRAWN BY _____	
COMMENCED _____		CHECKED BY _____	
COMPLETED _____		SHEET <u>7</u> OF <u>7</u>	
		DRAWING NO. _____	

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

PROJECT RUM JUNGLE REMARKS
HOLE No. D.D. A3 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL 60° DIRECTION 090°

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	SPECTROGRAPHIC RESULTS	ASSAYS				Zn %
	CASING	SIZE OF CORE			Cu	Pb	Co	Ni	
				Cu Co Ni Pb Mo V Zn ppm.	%	%	%	%	
Not cored.									
Weathered purple chlorite schist. Disseminated <u>chalcocite</u> .		10'	24"	1000 20 20 5000+ 100 1000 a	0.06+	0.4+			0.008
			24"	500 40 15 5000+ 5 500 a		0.2+	<0.05	<0.05	0.004
			24"	1000 30 15 5000+ 20 500 a		0.2+	"	"	0.004
			24"	700 15 10 5000+ 10 700 a		0.2+	"	"	0.004
			24"	300 20 12 5000+ 5 500 a		0.2+	"	"	0.004
		20'	24"	500 10 5 5000+ 70 500 a		0.2+	"	"	0.004
			24"	700 10 10 5000+ 5 500 a		0.2+	"	"	0.004
			24"	700 10 5 5000+ 20 700 a		0.2+	"	"	0.004
			24"	700 10 5 5000+ 50 700 a		0.2+	"	"	0.004
			24"	700 10 5 5000+ 10 500 a		0.2+	"	"	0.006
		30'	20"	700 10 5 5000+ 10 500 a		0.24	"	"	0.004
			50"	1000 12 10 5000+ 5 500 a		0.22	"	"	0.006
			59"	1000 12 10 5000+ 20 500 a		0.24	"	"	0.008
		40'	30"	1500 15 10 5000+ 10 500 a		0.25	"	"	0.008
			21"	1000 15 15 5000 10 500 a		0.21	"	"	0.01
		50'	60"		0.22	0.48	<0.01	"	
			60"		0.19	0.38	<0.01	"	
		60'	54"		0.17	0.53	<0.01	"	
			60"		0.16	0.42	<0.01	"	
		70'	48"	2000 20 20 5000+ 15 500 a	0.8+	<0.05	<0.05		0.01
			69"	5000+ 20 40 5000+ 20 700 600 a	0.43	1.6+	"	"	0.02
Changes to brown limonitic chlorite schist. Disseminated <u>chalcocite</u> .		80'	60"		0.68	2.11	0.03		
			60"		1.0	11.10	0.03		
		90'	60"		0.77	2.82	0.05		
		100'	60"		0.53	3.00	0.03		

DRILL NO.	EXPLANATION	HEAD OFFICE
TYPE	CASING IN HOLE DURING DRILLING	LOGGED BY <u>P.W. PRITCHARD</u>
DRILLER	REFERENCES	DRAWN BY
COMMENCED	Assays 48-68, 83-108 by A.M. & S. Co. others R. Beavers, S. Baker.	CHECKED BY
COMPLETED	Spectrographic assays by A.D. Haldane (May 1964).	SHEET 1 OF 4
	Splitting and core recovery R.G. Dodson.	DRAWING NO.

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE

REMARKS

HOLE No. D.D. A3

CO-ORDINATES

R.L. GROUND

LOCATION AREA 55

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT 8 CORE RE COVERY %	SAMPLES	SPECTROGRAPHIC RESULTS	ASSAYS				Zn						
	CASING	SIZE OF CORE				Cu	Co	Ni	Pb	Mo		V	Zn	Cu	Pb	Co	Ni
							p.p.m.										
																	103
					60"							0.37	3.00	0.02			
					18							1.8 ⁺	0.008 ⁺	0.04 ⁺	0.06 ⁺		108
		110			30	4000 200 300 5000+ 150 300 700						0.44	1.3 ⁺	0.05 ⁺	0.12 ⁺		108
						5000 500 2000 5000+ 300 500 Zn 4000											112'
						3000 500 700 5000 150 200 3000						0.43	1.58 ⁺	0.07 ⁺	0.11		112'
					12												116'
					54	5000 1000 500 5000+ 100 300 2000						0.47	8.0 ⁺	0.07 ⁺	0.08 ⁺	0.11 ⁺	116'
		120				5000+ 500 700 5000+ 50 500 4000						0.71	8.0 ⁺	0.04 ⁺	0.12 ⁺		126"
					60	5000+ 2000+ 2000 5000+ 50 500 3000						0.72	3.20 ⁺	0.06 ⁺	0.15 ⁺		126"
						Repeat. 5000+ 500 1000 5000+ 50 200 2000											126"
					60	5000+ 1000 700 5000+ 70 400 4000						0.99	5.0 ⁺	0.11 ⁺	0.24 ⁺		126"
		130															136"
					54	5000+ 2000+ 2000 5000+ 20 500 5000						0.85	1.60 ⁺	0.20 ⁺	0.30 ⁺		136"
						5000+ 2000+ 2000+ 5000+ 5 200 30 300 5000						0.76	1.30 ⁺	0.19 ⁺	0.20 ⁺		136"
		140			54	5000+ 2000 2000 5000+ 30 500 5000						0.61	2.10 ⁺	0.13 ⁺	0.25 ⁺		136"
					54	5000 50 2000 5000+ 20 500 400 100						0.46	0.60 ⁺	0.03 ⁺	0.14 ⁺		146"
						5000 500 700 5000+ 70 500 2000											146"
		150			30	5000 500 2000 5000+ 800 1000 3000						0.58	1.60 ⁺	0.12	0.20		146"
					42	5000+ 700 1000 5000+ 20 500 2000						0.58	2.60 ⁺	0.07 ⁺	0.19 ⁺		152'
						5000 700 1000 5000+ 90 500 3000						0.57	4.0 ⁺	0.06 ⁺	0.29 ⁺		152'
		160				2000 1000 1000 5000+ 10 300 5000							2.9 ⁺	0.07 ⁺	0.17 ⁺		152'
					48	1000 500 2000 5000 a 400 4000						0.40 ⁺	0.07 ⁺	0.15 ⁺			162
					45	700 1000 1000 2000 10 500 Zn 5000											166
		170			72	500 500 1500 2000 5 400 Zn 2000											170
						150 500 1000 1000 5 500 Zn 300											172
					60	200 500 700 1000 10 300 5000											176
		180															181
					48	100 500 300 700 a 300 2000											181
					60	100 500 300 200 a 300 2000											185
		190			60	200 300 300 100 a 300 2000											190
					60	100 300 300 500 a 400 1000											195
		200															200

134-135 Zn 1%
(Spectrographic
result.)

134-135 Zn 1%
(Spectrographic
result.)

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY	
DRILLER	REFERENCES	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED		SHEET <u>2</u> OF <u>4</u>	
		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLEHOLE No. D.D. A3

CO-ORDINATES

REMARKS

R.L. GROUND

LOCATION AREA 55

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	SPECTROGRAPHIC RESULTS. Cu Co Ni Pb Mo V Zn	ASSAYS		
	CASING	SIZE OF CORE					Cu	Pb	Co
						p.p.m.	%	%	%
					36	150 300 300 1000 2 300 1500			203
					24	200 500 300 3000 2 800 1500			205
					60	150 700 200 1500 2 400 1500			
						Request 150 1000 1000 1000 5 400 1500			210
		210			54	500 700 700 5000 2 500 2000			216
					42	1000 1000 1000 5000 5 400 3000			218
					24	1000 1500 1000 5000 300 1000 3000			220
		220			24	700 2000 700 6000 2 300 2000			222
					36	70 1000 700 100 2 800 3000			225
					48	500 1000 700 5000+ 2 500 3000			229
					12	200 500 500 3000 20 500 1000			230
		230			36	200 200 150 2000 15 300 1500			233
					24	100 200 150 2000 30 300 1000			235
					24	100 300 200 500 2 300 1000			237
					42	100 300 200 150 2 500 1000			240
		240			18	200 500 300 1000 10 500 1000			242
					54	300 1000 500 5000 15 400 1000			246
					43	1000 1000 5000+ 15 400 1000			250
		250			40	300 200 300 5000 2 300 700			255
					60	100 1000 700 700 5 300 1000			260
		260			48	2000 1000 700 5000+ 5 600 2			264
						100 1000 400 100 2 500 70 2000 500 200 50 500			265
						100 1000 400 100 20 500			269
		270				100 1000 400 1000 20 500			274
						300 2000 700 5000 5 300 5000			278
		280				100 2000 1000 2000 50 300 700			282
						100 2000 1000 1000 100 500			286
					60"		0.05	0.10	0.09
		290				100 1000 700 5000 50 700 Zn 1000			292
					60"		0.12	0.10	0.09
						100 1000 1000 5000+ 2 700 Zn 2000			295
						70 500 500 1000 15 V 700 Zn 10			297
		300			60"		0.06	0.10	0.07

Transition zone in weathering profile.

Base of zone of weathering 254'

Green chlorite schist, pyrite.

DRILL NO.

TYPE

DRILLER

COMMENCED

COMPLETED

EXPLANATION

CASING IN HOLE DURING DRILLING

REFERENCES

Assays 287-302 by A.M. & S. Co.

HEAD OFFICE

LOGGED BY

DRAWN BY

CHECKED BY

SHEET

DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

PROJECT. RUM JUNGLE REMARKS.....
HOLE No. DDA3 CO-ORDINATES..... R.L. GROUND.....
LOCATION AREA 55 ANGLE FROM HORIZONTAL..... DIRECTION.....

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY %	SAMPLES	SPECTROGRAPHIC RESULTS. Cu Co Ni Pb Mo V Zn ppm.	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
						150 500 700 2000 10 700 500 2000 700 2000 10 500 Sn 10			302'
						200 1500 500 1500 50 500 Sn 10			304'
						100 1000 400 1000 5 500 a			307'
		310							310'
						100 200 500 100 a 500 a			312'
						70 200 700 500 10 700 a			315'
						100 500 600 200 a 500 700			318'
		320							320'
						200 700 500 2000 50 500 Zn 5000 Sn 5			324'
						100 1000 1000 3000 70 500 1000			328'
		330				100 500 700 1000 a 400 a			331'
						70 150 300 1000 15 400 a			335'
						1000 150 100 1000 30 10 a Sn 200			337'
		340		60"			0.34	<0.10	0.03
				60"			0.24	<0.10	0.10
				60"			1.15	<0.10	0.04
		350		60"			1.56	0.10	0.04
				60"			0.17	0.29	0.02
		360		12		1000 150 200 150 50 150 a			362'
				24		3000 100 100 100 5 50			363'
		365		36		100 700 2000 1000 5 500 a			365'
				66		500 100 60 200 5 50 a			373'
		370		54		500 200 60 200 10 20 a			378'
				54		150 150 50 70 20 50 a			386'
		380							
		390							
		400							

White limestone. Traces of
chalcopyrite, chalcocite and
malachite to 365'

Brown scleritic limestone. Slightly
weathered.

T.D. 386'

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY	
DRILLER	REFERENCES Assays 337-362 by AM+5. Co.	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED 1959		SHEET 4 OF 4	
		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE

REMARKS

HOLE No. DD A4

CO-ORDINATES

R.L. GROUND

LOCATION AREA 56ANGLE FROM HORIZONTAL Vertical DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
Not cored.									
Light brown clay. 14'6" - 26'3" +ve Pb test.		6' 10'		36" 42"			0.39	2.14	<0.01
							0.46	2.14	<0.01
							0.23	4.28	0.01
							0.46	4.28	<0.01
Chert.		26'3" 33'		No information			0.23	0.50	<0.01
							0.16	0.10	<0.01
Chert and light brown clay becoming pale green below 49'6". Bands of soft green and brown chloritic and sericitic schist below 49'6".		33' 40'					0.31	2.23	0.03
							0.39	5.31	0.02
49'6" - 51' minor pyromorphite. 51' - 68'4" +ve Pb test. 66 - 81'9" +ve Pb test.		40' 50'					0.31	8.97	<0.01
							0.23	2.10	0.01
							0.23	2.39	0.02
							0.52	5.17	0.01
							0.52	6.97	0.10
							0.71	10.5	0.03
							0.45	11.7	0.03
BASE OF OXIDISED ZONE		83'					0.75	5.71	0.08
83' - 91' chalcocite on fractures.							0.52	4.08	0.05
							0.30	1.64	0.04
White sugary chloritic quartzite. Qtz grains to 1mm with scattered chalcocite grains. 91' - 121' chalcocite, malachite azurite, some limonite along fractures.		91' 100'					0.08	1.34	0.03

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY	P.W. PRITCHARD
DRILLER	REFERENCES	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED	Cu, Pb, Co assays 6-212' A.M. S. Co.	SHEET	1 OF 4
		DRAWING NO.	

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

PROJECT HOLE No D.D. A4. CO-ORDINATES REMARKS R.L. GROUND LOCATION ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R L	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
124'-145' } limonite stained. 1596"-1846" }							0.67	0.86	0.03
									101
							0.52	0.52	0.03
									106
		110					0.41	0.88	0.02
									112
							0.90	0.60	0.02
									117
		120					0.22	0.1	0.042
								212'	127
							0.48	0.1 to	0.07
		130					0.37	than	0.062
							0.82	less	0.036
		140					2.38		0.048
									147
		150					2.21		0.39
									152
							3.22		1.05
									157
		160					1.61		0.10
									162
							0.30		0.05
									167
		170					0.30		0.055
									172
							0.12		0.040
									177
		180					0.22		0.048
									182
							0.49		0.078
									187
		190					0.26		0.074
									192
							0.56		0.023
									197
		200					0.56		0.082

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE.		LOGGED BY	DRAWN BY
DRILLER	REFERENCES	CHECKED BY	
COMMENCED		SHEET 2 OF 4	
COMPLETED		DRAWING NO.	

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT REMARKS
HOLE No. **DD A4** CO-ORDINATES R.L. GROUND
LOCATION ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT O CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
		210'					0.02		202 0.077
									207
							0.32		0.090
									212
		220'				-219'6" Specimen of quartz chlorite schist from the unsplit section.			
		230'							
		240'							
		250'							
		260'							
		270'							275
Dark grey mica schist.							0.60		0.021
		280'							280
							0.60		0.025
									285
							0.26		0.040
		290'							290
							0.13		0.076
							0.1		0.052
		300'							300

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING H	HEAD OFFICE	
TYPE		LOGGED BY	
DRILLER	Assays 275-335' A.M.S. CO. REFERENCES	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED		SHEET 3 OF 4	
		DRAWING NO.	

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

PROJECT REMARKS
HOLE No. DD A4 CO-ORDINATES R.L. GROUND
LOCATION ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					Cu %	Pb %	Co %
		310					0.19		0.102
									305
									0.108
									310
							0.13		0.26
									315
							0.1		0.17
		320							320
							0.45		0.17
									325
T.D. 335'		330					1.10		0.37
									330
							1.68		0.64
									335
		340				The unsplit parts of the hole carry copper as malachite or chalcocite but are of lower grade than the best section immediately below the oxidised zone.			

DRILL NO.	CASING IN HOLE DURING DRILLING	EXPLANATION	HEAD OFFICE	
TYPE			LOGGED BY .....	.....
DRILLER		REFERENCES	DRAWN BY .....	.....
COMMENCED			CHECKED BY .....	.....
COMPLETED			SHEET 4 OF 4	
			DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					

DRILL NO	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY	D. Berkman (T.E.)
CASING IN HOLE DURING DRILLING		DRAWN BY	.....
DRILLER	REFERENCES	CHECKED BY	.....
COMMENCED			
COMPLETED			
		SHEET	OF 2
		DRAWING NO	.....

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

PROJECT RUM TUNGLE REMARKS
HOLE No. DD 698 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
Gray silicified slate, numerous thin quartz veins along schistosity. Foliation 60° Weathered black slate bands 264'-276', 315'-333'		220					
		228'					
		240					
		260					
		280					
		300					
		320					
		340					
		360					
		375'					
Partly weathered black slate, prominent foliation 60°. Band of brown weathered slate 388'-391', trace of native copper "378'6"		380					
T.D. 400'		400					

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY	
DRILLER	REFERENCES	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED		SHEET <u>2</u> OF <u>2</u>	
		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE REMARKS
HOLE No. DD.701 CO-ORDINATES 900 W 1100 S R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL Vertical DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
Not cored							
		18'					
Bands of broken grey quartzite in brown limonitic clay.		20'					
		32'					
Pale brown and pale grey weathered and silicified slate. Foliation 60°		41'					
Soft white clay, minor yellowish brown clay with bands of broken white quartzite; ? fault breccia.		60'				Anomalous radioactivity 45'-65', 150'-200', 240'-330'; maximum intensity $\frac{3}{4}$ lb U_3O_8 /ton.	
		83'					
Hard quartzite bands in limonitic brown clay, few bands of quartzite - silicified slate breccia.		100'					
		120'					
		140'					
		152'					
Mainly banded grey silicified slate, foliation 60°, few quartzite bands to two feet thick.		160'					
		169'					
Bands of quartzite and silicified slate in grey clay, some green quartz breccia from 180'		180'					
		196'					
Hard, grey silicified slate. Steep foliation		200'					

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY <u>D. Berkman T.E.P.</u>	
DRILLER	REFERENCES	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED		SHEET <u>1</u> OF <u>2</u>	
		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

REMARKS

HOLE No. DD70!

CO-ORDINATES

R.L. GROUND

LOCATION AREA SS

. ANGLE FROM HORIZONTAL

. DIRECTION

DRILL NO	CASING IN HOLE DURING DRILLING	EXPLANATION	HEAD OFFICE	
TYPE			LOGGED BY .....	.....
DRILLER		REFERENCES	DRAWN BY .....	.....
COMMENCED			CHECKED BY .....	.....
COMPLETED			SHEET <u>2</u> OF <u>2</u>	DRAWING NO.

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

PROJECT RUM JUNGLE REMARKS
HOLE No. D.D. 708 CO-ORDINATES 900W 850S R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL Vertical DIRECTION -

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY	SAMPLES	REMARKS	ASSAYS			
	CASING	SIZE OF CORE								
Not cored.		5'								
White cherty schist. Probably leached grey cherty schist. Becomes blacker from top.		10'								
		20'								
		30'								
		40'								
		50'								
		56'								
Pink clay with minor chert bands.		60'		24"		1000 30 100 5000 20 300 Sn 10.				58'
				20"		1000 60 150 5000 20 300				61 1/2'
				24"		700 15 60 5000 20 300				64'
				26"		1000 15 100 5000 20 300 Sn 10				66'
				36"		500 15 60 5000 10 300 Sn 10				68'
		70'		36"		700 20 100 5000 10 300				71'
				36"		500 15 60 500 10 150				74'
		77'		44"		500 60 150 2000 10 15				77'
Black chert, minor clay.		80'		22"		500 12 150 200 10 15				83'
				16"		200 10 100 50 5 15				85'
		90'		8"		200 10 150 50 7 15				90'
				17"		1000 200 200 50 10 15				92'
				10"		700 20 100 70 7 15				95'
		100'		8"		200 12 60 200 10 150				98'

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY <u>P. PRITCHARD</u>	
DRILLER <u>E.E.P. G. A.M.S.</u>	REFERENCES	DRAWN BY	
COMMENCED		CHECKED BY	
COMPLETED		SHEET <u>1</u> OF <u>4</u>	
		DRAWING NO.	

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

PROJECT RUM JUNGLE REMARKS
HOLE No. D.D 708 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
				10"		200 12 150 200 10 <5	101
				2"		1000 60 150 100 15 <5	103
				8"		500 20 150 50 10 <5	105
				30"		300 20 200 50 10 <5	107
				12"		1000 100 200 10 10 <5	110
				18"		700 60 200 200 15 100	112
112' Pink and grey clay with minor chert.				36"		500 60 150 200 <5 700	116
				12"		400 30 200 100 10 500	119
121'4"-122' Gray chert breccia.				16"		400 30 200 50 10 200	120
122' Pink and grey clay.				36"		150 60 60 500 15 700 Sn 10	122
				30"		200 20 200 100 5 700 Sn 10	126
128' Grey carbonaceous schist.				8"		500 20 500 50 10 20	129
				6"		1000 60 300 50 10 300 Sn 10	132
134'± Bleached sericite schist grading down into green sericite chlorite				18"		50 20 30 50 5 300 Sn 50	136
140' BASE OF OXIDISED ZONE.				31"		1000 100 500 70 5 1000 Sn 50	140
schist with ? tourmaline below 140' Pyritic.				18"		1000 20 200 50 5 500 Sn 50	143
140'-167' Probable supergene enrichment zone, chalcocite stringers.				30"		1000 150 500 100 5 500 Sn 50	146
149'6"-151' ? cerussite.				16"		500 1000 2000 100 15 500 Sn 1000 Sn 50	149
156'6"-161' stringers of green greasy ? nickeliferous clay.				30"		500 200 500 100 10 1000 Sn 100	154
				30"		700 60 200 100 10 1000 Sn 70	158
				30"		500 100 500 150 15 1000 Sn 50	159
				24"	159'6"	200 60 200 100 5 1000 Sn 70	161
				24"		100 30 150 50 5 1000 Sn 70	163
				24"	164'	200 60 200 50 5 1000 Sn 70	165
				24"		500 150 500 50 7 700 Sn 50	167
167' Feldspar schist.				24"	167' (Special)	500 200 300 50 10 1000	169
				28"		500 200 300 70 10 1000 Sn 5	172
				12"		1000 300 400 70 10 1000 Sn 5	173
				24"		1000 200 200 20 2 1000 Sn 15	175
				24"		1500 200 200 50 2 700 Sn 5	177
				24"		300 150 300 50 2 1000 Sn 5	180
				24"		500 60 60 50 2 1000 Sn 5	182
				24"		1000 200 200 70 2 1000 Sn 20	185
185'-187'6" Stringers of chalcocite.				30"	186'	1000 100 100 50 2 1000 Sn 50	187
				30"		50 20 30 50 20 1000	190
				30"		100 30 30 50 20 1000	192
				30"		100 60 20 70 20 1000	195
				24"		100 60 30 70 20 1500	197
				36"		150 60 30 50 20 1000	200

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY	DRAWN BY
DRILLER	REFERENCES	CHECKED BY	
COMMENCED		SHEET <u>2</u> OF <u>4</u>	
COMPLETED		DRAWING NO.	

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT **RUM JUNGLE**
HOLE NO. **D.D708**
LOCATION **AREA 55**

REMARKS

R.L. GROUND

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT S CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
236' Green greasy clay ? nickel.				30"		200 150 60 70 20 1000	2026'
				30"		700 500 300 100 a 1000 Sn 20	205'
				24"		500 500 300 100 a 1000 Sn 20	207'
				24"		700 150 200 70 a 1000 Sn 20	209'
		210		36"		70 500 200 70 a 1000 Sn 50	212'
				18"		15 200 150 50 a 1000 Sn 50	213 1/2'
				24"		25 150 150 50 a 1000 Sn 70	215 1/2'
				30"		25 150 200 50 a 1000 Sn 50	218'
		220		30"		50 200 200 50 a 1000 Sn 20	220 1/2'
				24"		200 300 500 20 a 500 Sn 50	222 1/2'
				24"		70 200 200 70 a 1000 Sn 20	224 1/2'
				18"		25 200 300 100 a 1000 Sn 20	226'
				24"		5 150 100 20 a 500 Sn 50	228'
		230		24"		100 200 200 200 a 500 Sn 50	230'
				24"		20 200 200 50 a 1000 Sn 50	232'
				30"		50 200 400 50 a 1000 Sn 10	236 1/2'
				30"	236'	50 200 400 50 a 500 Sn 10	238 1/2'
				24"		50 200 400 50 a 500 Sn 10	238 1/2'
		240		30"		100 200 300 50 a 500	241'
				26"		100 200 200 50 a 1000 Sn 5	242'
				24"		500 200 400 50 a 700 Sn 5	244'
				18"		200 100 150 50 a 700	247 1/2'
				28"		200 150 200 50 a 1000 Sn 5	249 1/2'
		250		28"		200 150 300 100 a 700 Sn 5	251 1/2'
				18"		1500 300 500 100 a 700 Sn 5	253'
				18"		700 400 400 100 a 1000 Sn 5	258 1/2'
				24"		500 200 300 100 a 1000 Sn 5	258 1/2'
				24"		400 200 300 100 a 700 Sn 5	258 1/2'
		260		42"		500 200 500 70 a 700 Sn 5	262'
				24"		500 200 300 100 a 700	264'
				18"		200 150 200 100 a 700	265 1/2'
				24"		400 400 500 100 a 500	267 1/2'
				24"		500 500 1000 70 a 500 Sn 5	269 1/2'
		270		24"		500 500 700 100 a 500 Sn 5	271 1/2'
				24"		500 500 700 100 a 500 Sn 5	273 1/2'
				3"		500 200 400 200 a 500	276 1/2'
				4"		5000 300 600 200 a 500	280'
280' Grey cherty slate. 312'-316' Carbonaceous schist band		280		30"		5000+ 150 400 100 5 500 Sn 5	282 1/2'
				24"		500 100 500 50 5 200	284 1/2'
		290					
		300					

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET 3 OF 4	.....
		DRAWING NO. ....	.....

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLEHOLE No. D.D. 708

CO-ORDINATES

REMARKS

R L GROUND

LOCATION AREA 55

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R L	DEPTH	LOG	LIFT OF CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
		310					
		317					
Gray tremolite biotite schist.		320					
		330					
		334					
Gray dolomite.		340					
		350					
		354					
		360					
		370					
		380					
		390					
		400					

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENTS		CHECKED BY .....	.....
COMPLETED		SHEET <u>4</u> OF <u>4</u>	.....
		DRAWING NO. ....	.....

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

PROJECT **RUM JUNGLE** REMARKS
HOLE NO **D.D 726** CO-ORDINATES **800S 800W. (B.M.R. GRID)** R.L. GROUND
LOCATION **AREASS.** ANGLE FROM HORIZONTAL **Vertical.** DIRECTION **-**

DESCRIPTION OF CORE	R L	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	SPECTROGRAPHIC ASSAYS Ca Co Ni Pb Mo V. Zn.	ASSAYS
	CASING	SIZE OF CORE					
Not cored.							
		10'					10'
Yellow brown pink and white clay.		10'				400 12 60 5000 2 700 Sn 50	14'6"
						500 12 15 2000 20 500	19'
		20'				1000 12 30 5000 2 500 Sn 50	23'
						2000 50 300 5000 100 1000 Zn 500 Sn 10	26'9"
		27'				400 15 60 2000 10 500	29'
Leached gray chert and gray-white clay.		30'				100 12 100 500 10 50	33'9"
						70 5 60 500 5 100	36'6"
		40'				100 10 60 500 5 20	37'6"
						70 10 60 200 5 50	39'6"
						100 12 60 1000 10 50	44'
						70 12 60 100 5 25	47'
		50'				100 5 60 100 10 25	51'
						100 10 60 700 10 25	52'
						150 5 60 500 10 25	53'
						100 10 60 1000 10 5	57'
						100 15 60 100 10 5	60'6"
		60'				200 12 60 1000 10 50	64'
						100 5 50 200 10 25	66'6"
						100 12 60 400 10 25	70'
		70'				500 20 60 700 10 25	72'
						50 5 60 100 10 5	75'
						100 10 60 200 5 10	79'
		80'				100 10 60 200 10 25	83'
						150 12 100 1000 2 10	87'
						700 15 80 1000 10 100	91'6"
		90'				200 10 100 100 10 200	95'6"
						1000 60 80 2000 5 500 Sn 20	99'9"
98'-99'6" Yellow brown pug with chalcocite fragments		100'					

DRILL NO.	EXPLANATION	HEAD OFFICE
TYPE	CASING IN HOLE DURING DRILLING	LOGGED BY P. PRITCHARD.
DRILLER E.E.P. for T.E.P.	Sampled by R.C. Dodson. No significant increases in radioactivity (D. Berkman).	DRAWN BY
COMMENCED		CHECKED BY
COMPLETED		SHEET 1 OF 3
		DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE REMARKS
HOLE No. DD 726 CO-ORDINATES R L GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL Vertical DIRECTION —

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT 8 CORE RE COVER %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
98'6" - 219' Grey biotite schist, White and gray clay bands to 169'.						500 12 30 300 100 700 500 100 100 1000 a 1000 Sn 100	101
						1500 200 200 100 a 700 Sn 50	105
107'-121' Grey clay with sooty chalcocite streaks.						300 12 30 100 70 1000 Repeat 300 15 20 100 a 700 Sn 70	108
						500 20 30 100 a 500 Sn 50	113
						500 60 150 100 50 500	117
						400 30 100 100 a 500 Sn 20	119
						200 30 60 200 a 500 Sn 20	128'6"
						400 30 60 200 a 1000 Sn 20	129'6"
						300 60 100 100 a 700 Sn 10	131'6"
						500 100 100 100 a 700 Sn 20	136
						500 100 200 150 a 500 Sn 20	138
						500 60 200 200 a 700 Sn 20	140
						500 100 300 200 a 700 Sn 20	143'6"
						200 60 200 200 a 500 Sn 40	147'6"
						400 100 200 100 a 1000 Sn 20	152'6"
						500 150 200 70 10 500 Sn 20	157
						300 60 150 200 a 1000 Sn 20	159
						200 30 100 100 20 1000	160'6"
						50 60 150 70 a 1000	164'6"
						2000 60 100 100 a 700	169
BASE OF OXIDISED ZONE CORE WEATHERED TO T.D. 169'						2000 100 200 100 a 500 Sn 10	173'6"
						100 80 100 50 20 500	178
						70 100 200 50 10 700	181'6"
						100 150 300 150 a 700	186
						700 100 200 100 a 700	190
						100 100 400 100 10 500	195
						100 200 400 50 a 500	198
							200

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET <u>2</u> OF <u>3</u>	.....
		DRAWING NO. ....	.....

GEOLOGICAL LOG OF DRILL HOLE

LOCATION **AREAS**

ANGLE FROM HORIZONTAL Vertical DIRECTION

DRILL NO.	EXPLANATION	HEAD OFFICE
TYPE	CASING IN HOLE DURING DRILLING 	LOGGED BY <u>P. PRITCHARD</u>
DRILLER	REFERENCES	DRAWN BY
COMMENCED	Assays by S. Baker +	CHECKED BY
COMPLETED	+ Assay by absorption spectrograph.	SHEET <u>3</u> OF <u>3</u>
		DRAWING NO.

APPENDIX II.

CHURN DRILL HOLE LOGS

GEOLOGICAL LOG OF DRILL HOLE

PROJECT	RUM JUNGLE	REMARKS	
HOLE No	CD 154	CO-ORDINATES	R.L. GROUND
LOCATION	AREA 55	ANGLE FROM HORIZONTAL	Vertical DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
Brown clay.							
		50					
80'							
Quartz and talc.							
90'							
Coarse grained tremolitic limestone		100					
T.D. 130'							
		150					
		200					

DRILL NO.		EXPLANATION	HEAD OFFICE	
TYPE			LOGGED BY	T.E.P.
CASING IN HOLE DURING DRILLING		REFERENCES	DRAWN BY	
DRILLER			CHECKED BY	
COMMENCED			SHEET OF	
COMPLETED			DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE REMARKS
HOLE NO. CD 155 CO-ORDINATES R.L. GROUND
LOCATION AREA 55 ANGLE FROM HORIZONTAL DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
Yellow clay, ? fine slate.							
30'							
Black slate, limonitic - sandy - quartz in places.		50					
65'							
Grey hematitic slate and abundant quartz.		100					
T.D. 130'							
Drillers report vugh 129-130', further drilling impossible.		150					
		200					

0.27
0.46
0.30
0.55
0.49
0.67

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING 	HEAD OFFICE	
TYPE		LOGGED BY .....	.....
DRILLER	REFERENCES Copper assays J.R. Beavers. See spectrographic results in appendix 3.	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET OF .....	.....
		DRAWING NO. ....	.....

GEOLOGICAL LOG OF DRILL HOLE

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE- COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
							Ce

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE	CASING IN HOLE DURING DRILLING	LOGGED BY	T.E.P.
DRILLER	REFERENCES	DRAWN BY	.....
COMMENCED	See spectrographic assays appendix 3.	CHECKED BY	.....
COMPLETED		SHEET.....1... OF.....1.....	
		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT	RUM JUNGLE	REMARKS	
HOLE No.	CD 159	CO-ORDINATES	R.L. GROUND
LOCATION	AREA 55	ANGLE FROM HORIZONTAL	DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS
	CASINO	SIZE OF CORE					
Clay							
Limestone.		85' T.D. 90'					

DRILL NO.	EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE	
TYPE		LOGGED BY	T.E.P.
DRILLER	REFERENCES	DRAWN BY .....	.....
COMMENCED		CHECKED BY .....	.....
COMPLETED		SHEET OF .....	.....
		DRAWING NO. ....	.....

GEOLOGICAL LOG OF DRILL HOLE

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
							Cu

Handwritten field notes and stratigraphic data for T.D. 228.

Stratigraphic Column (Left):

- Purple silicified slate - sandy.
- limonitic brown slate
- Black (?) slate - greenish gray, abundant pyrite.

Scale (Center):

50
100
150
200

Core Data (Right):

Core Number	Depth (feet)
0.45	125'
0.55	130'
0.65	135'
0.27	195'
0.45	210'
1.28	215'
0.51	220'

Sample ID: T.D. 228

DRILL NO. TYPE		EXPLANATION CASING IN HOLE DURING DRILLING	HEAD OFFICE T.E.P.	
DRILLER COMMENCED COMPLETED		REFERENCES See appendix 3 for spectrographic assays. Copper assay J.R. Beavers. S. Baker.	LOGGED BY DRAWN BY CHECKED BY	OF DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE

REMARKS

HOLE No. C.D.16.5CO-ORDINATES 400E 1N

R.L. GROUND

LOCATION AREA 55

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RECOVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING	SIZE OF CORE					U ₃ O ₈ 16/ton	Pb %	Cu %
No log obtained.									10
								0.6	15
								0.6	20
									25
							0.30	1.3	30
							0.26	1.8	35
							0.32	1.2	40
							0.24	0.6	45
		50					0.30	0.6	50
							0.28	1.4	55
							0.32	1.7	60
							0.34	4.3	65
								5.0	70
									75
							7.5		80
							8.1		85
							3.8		90
		100					10.7		95
							5.0		100
							4.4		105
							1.1		110
							7.8		115
							4.0		120
							5.3		125
							1.0		130
							5.2		135
							3.2		140
							3.5		145
		150					3.5		150
							0.7		155
T.D.248									165
								0.27	170
		200							
									210
								0.33	215
								0.24	220
		250							

DRILL NO.

TYPE

EXPLANATION

CASING IN HOLE DURING DRILLING

HEAD OFFICE

LOGGED BY

T.E.P.

DRAWN BY

CHECKED BY

DRILLER

COMMENCED

COMPLETED

REFERENCES

U₃O₈ and lead assays T.E.P.
Copper assays J.R. Beavers.
For spectrographic assays see appendix 3.

SHEET 1 OF 1

DRAWING NO.

GEOLOGICAL LOG OF DRILL HOLE

HOLE No. **CD 168**

REMARKS

CO-ORDINATES 250 E 185 N

R.L. GROUND

LOCATION AREA 55

ANGLE FROM HORIZONTAL

DIRECTION

DESCRIPTION OF CORE	R.L.	DEPTH SIZE OF CORE	LOG	LIFT & CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS		
	CASING						Cu	Pb	Co
Purple brown "slate".		20'							
		40'							
		60'				TEP. No 10858	0.2	1.2	N.D.
Yellow brown clay.		80'							
		100'					0.40		
		120'					0.46		
		140'					0.28		
		160'							
Brown "slate", coarse muscovite, malachite and pyromorphite.		180'				TEP. No 10857	0.62		
		200'					0.52		
		220'					0.52	1.6	N.D.
		240'							
		260'					0.52		
		280'					0.48		
		300'				TEP. No 10856.	0.57	1.6	N.D.
		320'					0.50*		
		340'					0.57		
		360'							
		380'					0.47		
		400'				TEP. No 10855	0.2	1.5	N.D.
		420'					0.47*		
		440'					0.70		
		460'				Hole may be logged in reverse order from 50' to T.D. (R.N. Spratt.)			
		480'							
		500'							
		520'							
		540'							
		560'							
		580'							
		600'							
		620'							
		640'							
		660'							
		680'							
		700'							
		720'							
		740'							
		760'							
		780'							
		800'							
		820'							
		840'							
		860'							
		880'							
		900'							
		920'							
		940'							
		960'							
		980'							
		1000'							

DRILL NO.	EXPLANATION	HEAD OFFICE	
TYPE		LOGGED BY	T.E.P.
	CASING IN HOLE DURING DRILLING 	DRAWN BY	
DRILLER	REFERENCES <i>Assays 45-80, 130-140, 155-160, 175-180 by T.E.P.</i> <i>* Other assays S. Baker.</i>	CHECKED BY	
COMMENCED		SHEET ... <i>1</i> ... OF ... <i>1</i> ...	
COMPLETED		DRAWING NO.	

GEOLOGICAL LOG OF DRILL HOLE

PROJECT RUM JUNGLE REMARKS.....
HOLE No. CD. 170 CO-ORDINATES 250E 400N R.L. GROUND.....
LOCATION AREA 55 ANGLE FROM HORIZONTAL..... DIRECTION.....

DESCRIPTION OF CORE	R.L.	DEPTH	LOG	LIFT & CORE RE COVERY %	SAMPLES	REMARKS	ASSAYS
	CASING	SIZE OF CORE					
Purple brown slate.		50 100 150					
T.D. 190'		200					

DRILL NO.....	EXPLANATION	HEAD OFFICE	
TYPE.....		LOGGED BY.....	T.E.P.
DRILLER.....	REFERENCES	DRAWN BY.....	
COMMENCED.....		CHECKED BY.....	
COMPLETED.....		SHEET..... OF.....	
		DRAWING NO.....	

APPENDIX 3

Spectrographic Analysis of Churn Drill Samples from Rum Jungle, N.T.

by

A.D. Haldane

This report gives the results from analysis of churn drill samples from C.D. 155, 158, 162, 163, 165, 168, 169, 172, 173 and 174. The samples were submitted by P. Pritchard.

All results are expressed in parts per million.

C.D. 155	Ni	Co	Zn	Cu	V	Mo	Pb	Remarks
20'-25'	300	150	a	700	500	a	1000	
25'-30'	200	150	a	800	1000	a	1000	
30'-35'	300	150	a	800	500	a	1000	
35'-40'	200	300	a	1000	1000	5	2000	
40'-45'	150	100	a	1000	300	5	300	
45'-50'	300	500	a	1500	300	10	200	
50'-55'	200	200	a	1000	200	7	200	
55'-60'	200	200	a	1000	200	7	100	
60'-65'	400	100	a	700	200	10	200	
65'-70'	300	200	a	1500	200	7	200	
70'-75'	500	500	a	2000	300	7	500	
75'-80'	500	300	a	2000	500	10	700	
80'-85'	200	100	a	1000	200	7	100	
85'-90'	500	300	a	2000	300	5	100	
90'-95'	300	300	a	1500	200	5	200	
95'-100'	400	500	a	3000	300	5	200	
100'-105'	500	500	a	5000	200	5	700	
105'-110'	500	700	a	5000+	300	7	500	
110'-115'	400	1000	a	5000	200	5	700	
115'-120'	500	1000	a	5000+	200	7	1000	
120'-125'	500	1000	a	5000+	200	10	2000	
125'-130'	1000	2000	a	5000+	200	10	2000	
C.D. 158								
15'-20'	100	60	a	700	10	20	500	(Sn, 30)
20'-25'	100	60	a	700	20	20	500	
25'-30'	100	60	a	1000	5-	5	700	
30'-35'	500	1000	a	1500	5	15	5000+	
35'-40'	500	1000	a	3000	5	10	5000	
40'-45'	500	1000	500	5000	10	15	5000	(Be, 10)

C.D. 158	Ni	Co	Zn	Cu	V	Mo	Pb	Remarks
50'-55'	1000	1000	1500	5000+	20	10	1500	(Be, 20)
55'-60'	2000	2000	2000	5000	30	10	1000	(Be, 20)
60'-65'	2000	2000	2000	5000	20	10	700	(Be, 20)
65'-70'	1000	1000	2000	5000	5-	5	700	(Be, 20)
70'-75'	2000	1500	700	5000	40	15	700	(Be, 10)
80'-85'	700	500	700	1000	10	15	50	
85'-90'	400	400	200	1000	10	10	50	
95'-100'	500	300	300	1000	50	10	70	
100'-105'	1000	1000	1000	2000	20	10	100	
C.D. 162								
55'-60'	150	80	a	700	700	15	5000+	
60'-65'	80	100	a	500	1000	20	5000+	
65'-70'	80	80	a	400	1000	20	5000+	(Sn, 20)
70'-75'	100	100	a	1000	500	15	5000+	
75'-80'	150	150	a	1500	700	70	5000+	
80'-85'	300	200	a	1500	700	20	5000+	
15'-20'	200	100	a	1000	700	15	5000+	
20'-25'	80	60	a	1500	1000	15	5000+	
30'-35'	30	20	a	1000	500	10	5000+	
35'-40'	60	60	a	700	500	20	5000+	
40'-45'	60	100	a	700	700	15	5000+	
50'-55'	30	150	a	700	700	20	5000+	
85'-90'	500	150	a	1500	700	15	5000+	
90'-95'	300	150	700	1500	500	15	5000+	
95'-100'	300	150	700	1500	500	15	5000+	
100'-105'	500	150	200	1500	400	10	5000+	
105'-110'	400	200	300	1500	500	15	5000+	
110'-115'	400	150	500	1500	400	5	5000+	
115'-120'	500	200	500	3000	500	20	5000+	
120'-125'	500	200	700	3000	500	20	5000+	
125'-130'	700	300	2000	5000	500	30	5000+	
130'-135'	2000+	700	2000	5000+	700	20	5000+	
135'-140'	2000+	700	1500	5000	500	20	5000+	
145'-150'	1000	700	1000	1500	500	15	5000+	
150'-155'	2000+	2000+	4000	700	500	15	5000+	
155'-160'	2000	2000	1500	1000	700	30	5000+	
160'-165'	2000	2000	700	1000	500	20	5000+	
165'-170'	2000+	2000+	1000	1000	500	50	5000+	
170'-175'	2000	1000	1000	1000	400	15	2000	
170'-175'	2000+	1000	1000	1500	400	15	5000	
175'-180'	2000	1000	1%	1500	400	15	4000	
180'-185'	2000+	1500	1%	700	500	20	5000	

C.D. 162	Ni	Co	Zn	Cu	V	Mo	Pb	Remarks
185'-190'	2000+	1000	500	500	500	70	1500	
190'-195'	1500	700	1000	500	500	15	5000+	
195'-200'	2000	1500	1500	5000	700	200	5000	
200'-205'	2000	700	1000	1500	400	500	5000	
205'-210'	2000	500	100	1500	500	50	5000	
210'-215'	2000	1000	200	4000	400	400	3000	
215'-220'	2000+	2000	500	5000+	500	30	2000	
220'-225'	2000	1500	1000	5000+	200	300	1000	
C.D. 163								
35'-40'	1000	1000	a	500	500	a	100	(Sn, 20)
40'-45'	700	400	a	500	100	300	50	
50'-55'	1000	1000	a	700	200	20	20	
55'-60'	700	500	a	1000	50	15	a	
60'-65'	1000	1000	200	1500	200	10	a	
65'-70'	700	1000	a	1000	150	10	a	
70'-75'	500	500	a	700	200	20	20	
C.D. 165								
165'-170'	300	500	a	5000	500	20	5000+	(Sn, 20)
210'-215'	600	500	a	5000+	500	10	5000	(Sn, 10)
215'-220'	500	500	a	4000	500	10	2000	(Sn, 10)
220'-225'	500	300	a	1500	500	10	2000	(Sn, 10)
225'-230'	500	300	a	1000	500	10	1000	(Sn, 20)
230'-235'	400	300	a	2000	500	15	1000	(Sn, 10)
235'-240'	400	500	a	1000	500	5	500	(Sn, 10)
240'-245'	1000	2000	a	700	500	5	2000	(Sn, 10)
245'-250'	1000	2000	a	500	1000	10	1000	(Sn, 15)
C.D. 168								
20'-25'	30	60	a	1500	700	20	5000+	
50'-55'	200	150	500	2000	700	20	5000+	
55'-60'	150	100	500	1500	1000	20	5000+	
60'-65'	30	60	a	1000	500	20	5000+	(Sn, 10)
65'-70'	60	100	a	1500	500	30	5000+	
70'-75'	150	100	500	1500	500	10	5000+	
75'-80'	500	200	1000	2000	500	10	5000+	
80'-85'	1000	200	700	1500	300	10	5000+	
85'-90'	500	500	500	2000	500	50	5000+	
90'-95'	500	500	700	5000	500	15	5000+	
95'-100'	1000	1000	1000	5000	700	50	5000+	
100'-105'	500	1000	500	4000	300	30	5000+	
105'-110'	500	500	500	2000	500	20	5000+	
110'-115'	1000	2000	500	3000	400	20	5000+	

C.D. 168	Ni	Co	Zn	Cu	V	Mo	Pb	Remarks
120'-125'	2000	2000	700	5000+	500	20	5000+	
125'-130'	2000	2000	700	4000	500	20	5000+	
130'-135'	1000	2000	700	3000	500	10	5000+	
135'-140'	1000	2000	700	2000	400	15	5000+	
140'-145'	1000	2000	500	3000	300	15	5000+	
145'-150'	1000	1500	700	4000	400	10	5000+	
150'-155'	1000	1500	500	4000	500	15	5000+	
155'-160'	1000	1000	500	4000	300	10	5000+	
160'-168'	1000	1000	400	5000	700	10	5000+	
170'-175'	1000	2000	500	5000	400	10	5000+	
175'-180'	2000	2000	700	5000+	400	10	5000+	
180'-185'	2000	2000	700	5000	500	70	5000+	
C.D. 169								
15'-20'	15	10	a	50	2000+	10	70	
20'-25'	20	12	a	25	2000+	10	100	
25'-30'	30	12	a	50	2000+	10	70	
30'-35'	100	20	a	100	2000+	70	100	
40'-45'	100	12	a	70	400	15	100	
45'-50'	30	15	a	15	200	10	50	
50'-55'	30	10	a	20	300	10	50	
55'-60'	30	10	a	10	300	10	20	
60'-65'	15	5	a	10	300	10	20	
70'-75'	20	10	a	10	150	10	200	
75'-80'	20	5	a	15	150	10	a	
80'-85'	20	5	a	10	100	5	a	
90'-95'	30	10	a	10	150	20	50	
95'-100'	30	10	a	5	200	50	a	
100'-105'	60	5	a	15	20	10	a	
105'-110'	60	10	a	25	15	10	a	
110'-115'	100	20	a	20	100	20	a	(Sn, 15)
115'-120'	100	20	a	15	150	5	a	(Sn, 10)
125'-130'	150	30	a	25	20	10	a	
130'-135'	200	20	a	25	20	10	a	
135'-140'	200	30	a	15	50	10	a	
140'-145'	200	40	a	15	100	15	a	
145'-150'	150	30	a	15	150	10	a	
150'-155'	150	60	a	15	150	10	a	(Sn, 10)
155'-160'	150	60	a	10	200	10	a	(Sn, 5)
160'-165'	100	60	a	5	200	5	a	(Sn, 10)
165'-170'	100	30	a	10	100	10	a	(Sn, 10)
170'-172'	100	30	a	10	150	5	a	(Sn, 10)

5.

C.D. 172	Ni	Co	Zn	Cu	V	Mo	Pb	Remarks
50'-55'	100	50	a	200	50	5	100	
55'-60'	200	100	a	500	500	a	100	
60'-75'	200	100	a	700	500	a	100	
65'-70'	200	60	a	700	300	15	100	
70'-75'	150	60	a	300	300	a	100	
75'-80'	150	80	a	200	500	a	50	
80'-85'	200	100	a	200	500	a	50	
85'-90'	400	200	a	300	300	10	a	
90'-95'	500	200	a	100	200	15	a	
95'-100'	500	200	a	200	200	15	a	
100'-105'	300	200	a	1000	200	10	a	
C.D. 173								
30'-35'	200	60	a	50	500	a	10	(Sn, 10, PTr)
35'-40'	150	100	a	20	200	a	10	(Sn, 10, PTr)
40'-45'	100	60	a	70	400	5	5	(PTr)
45'-50'	200	100	a	70	400	20	a	
50'-55'	150	30	a	25	100	5	a	
55'-60'	200	30	a	20	100	10	a	
60'-65'	150	30	a	25	150	10	a	
65'-69'	20	12	a	5	5	a	a	
C.D. 174								
10'-15'	150	50	a	300	500	20	100	
15'-20'	100	30	a	200	300	15	10	
20'-25'	150	400	a	200	200	25	20	
25'-30'	200	200	a	100	100	15	20	
30'-35'	300	150	a	50	50	5	20	

Plate Nos. 758 - 762 and 764-766

APPENDIX 4
AREA 55 COSTEANS
ASSAYS OF CHIP SAMPLES

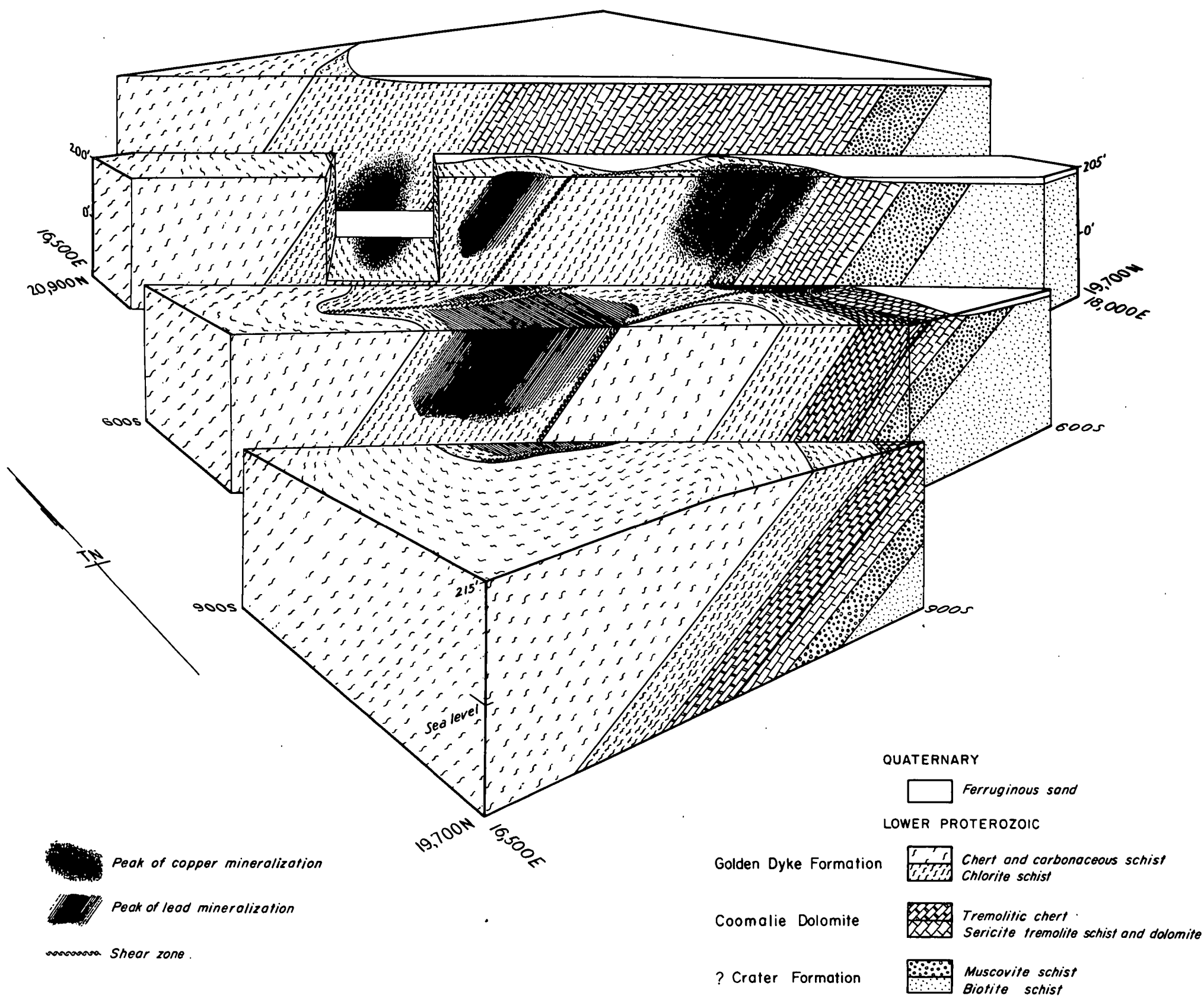
Costean	Interval	%Cu	%Pb*	Remarks
C1	0-5	0.1	1.0	
	5-10	0.05	0.8	
	10-15	0.05	1.05	
	15-20	0.1	0.5	
	20-25	0.5	1.8	
	25-30	0.05	1.9	
N.E. Wall	30-35	0.05	2.5	20'-50' 30' 0.13% Cu 2.13% Pb
S.E. to	35-40	0.1	3.15	
N.W.	40-45	0.05	1.65	
	45-50	0.05	2.35	
	50-55	0.05	0.9	
	55-60	0.05	0.9	
	60-65	0.05	0.5	
	65-70	0.05	0.3	
C2	0-5	0.05	0.5	
	10	0.05	1.1	
	15	0.05	0.5	
N.E. Wall	20	0.05	0.9	
S.E. to	25	Nil	0.7	
N.W.	30	Trace	1.0	
	35	"	0.2	
	40	"	0.7	
	45	0.05	0.85	
	50	0.05	0.45	
	53	0.1	0.1	
	60	0.1	0.05	
	65	0.1	1.8	
	70	0.2	2.3	60'-100' 40' 0.11% Cu 1.98% Pb
	75	0.15	2.7	
	80	0.05	0.5	
	85	0.05	0.5	
	90	0.1	1.5	
	95	0.05	1.2	
	100	0.15	0.0	
	105	0.05	0.6	
	110	0.05	0.5	
Deepened and resampled	65-70	0.15	1.9	65'-95' 30' 0.07% Cu 1.46% Pb
	75	0.1	3.3	
	80	Trace	0.4	
	85	"	0.5	
	90	0.05	0.4	
	95	0.1	2.25	
	100	0.05	0.8	
	105	0.05	0.6	
	110	0.1	0.6	

Costean	Interval	%Cu	%Pb	Remarks	
C3	0-5	0.1	Nil		
W. Wall N. to S.	10	0.15	"		
	15	0.15	"		
	20	0.1	"		
	25	0.15	"		
	30	0.1	"		
	35	0.05	"		
	40	0.05	"		
	45	0.15	"		
	50	0.15	"		
	55	0.15	"		
	60	0.15	"		
	65	0.15	"		
	70	0.2	"		
	75	0.05	0.4		
	80	0.05	0.3		
	85	0.05	Nil		
	90	0.05	0.5		
C4	0-5	0.05	1.8	} 0'-15' 15'	0.5% Cu 1.33% Pb
	10	0.05	1.0		
W. Wall N. to S.	15	0.05	1.2		
	20	0.05	0.65		
	25	0.1	0.05		
	30	0.15	0.05		
	35	0.15	Nil		
	40	0.1	0.15		
	45	0.05	0.75		
	50	0.05	1.5		
	55	0.05	Nil		
	60	0.05	0.8		
	65	0.05	0.1		
	70	0.05	0.7		
	75	0.05	1.75	} 70'-80' 10'	0.05% Cu 1.6% Pb
	80	0.05	1.45		
C5	0-5	0.2	5.8	} 0'-87' 87'	0.26% Cu 5.09% Pb
	10	0.25	4.9		
	15	0.3	3.0		
E. Wall S. to N.	20	0.35	3.9		
	25	0.3	2.95		
	30	0.4	5.3		
	35	0.35	3.8		
	40	0.4	4.9		
	45	0.35	4.55		
	50	0.35	5.7		
	55	0.2	7.4		
	60	0.25	8.6		
	65	0.15	8.1		
	70	0.1	5.0		
	75	0.1	5.4		
	80	0.15	3.7		
	87	0.05	3.5		
W. Wall	75-80	0.05	4.2		

Costean Interval		%Cu	%Pb	Remarks	
C6	0-5	0.05	Nil		
E. Wall	10	0.05	"		
S. to N.	15	0.1	"		
	20	0.15	"		
	25	0.2	"		
	30	0.15	"		
	35	0.15	"		
	40	0.25	"		
	45	0.25	"		
	50	0.2	"		
	55	0.25	"		
	60	0.15	"		
	65	0.1	"		
	70	0.1	"		
	75	0.1	"		
	80	0.1	"		
	85	0.25	"		
	90	0.15	"		
	95	0.1	"		
	100	0.15	"		
	105	0.1	0.5		
	110	0.15	0.6		
	115	0.15	0.6		
	120	0.1	Nil		
C7	0-5	0.2	1.9		
	10	0.2	3.0		
N.E. Wall	15	0.3	4.4	} 10'-25' 15' 0.25 Cu 5.57 Pb	
N.W. to S.E.	20	0.3	5.2		
	25	0.15	7.1		
	30	0.15	1.6		
	35	0.1	1.9		
	40	0.15	1.8		
	45	0.1	1.9		
	50	0.15	3.5		
	55	0.2	3.4	} 55'-90' 35' 0.29 Cu 5.04 Pb	
	60	0.2	4.6		
	65	0.1	3.9		
	70	0.2	4.2		
	75	0.2	5.4		
	80	0.25	4.7		
	85	0.35	5.8		
	90	0.7	6.7		
	95	0.25	3.8		
	100	0.1	0.65		
C8	0-5	0.15	1.0		
	10	0.05	1.4		
S.E. Wall	15	0.1	0.8		
N.E. to S.W.	20	0.1	0.6		
	25	0.1	Nil		
	30		2.9		
	35	0.1	1.0		
	40	0.1	0.5		
	45	0.1	0.5		
	50	0.1	0.35		
	55	0.2	0.7		
	60	0.15	1.8		
	65	0.1	0.5		
	70	Trace	Nil		
	75	"	"		
	80	"	"		

Sampling and assays by Australian Mining and Smelting Co. 1960.

AREA 55



AREA 55 ASSAYS OF WEATHERED BEDROCK

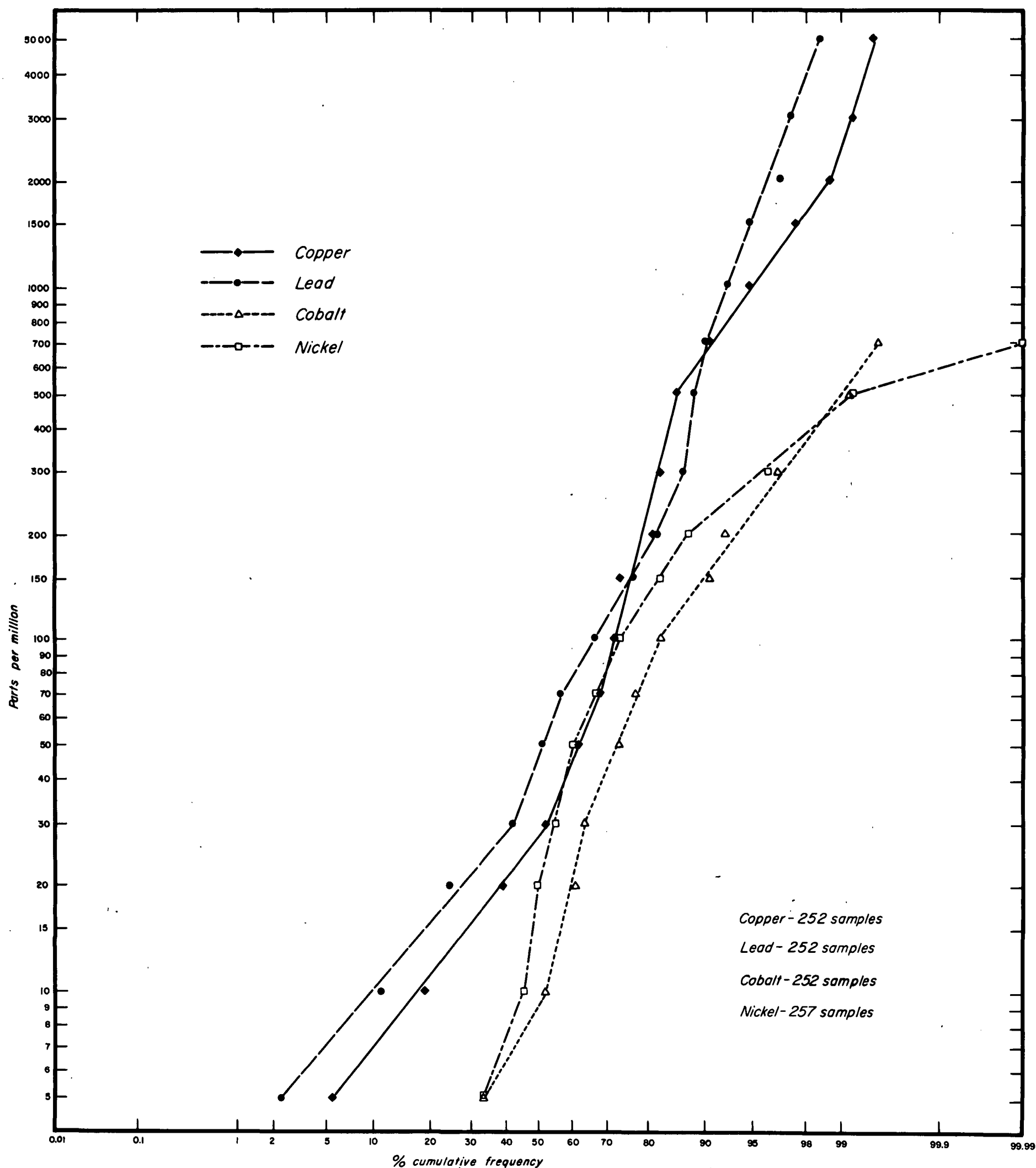


PLATE I
GEOLOGY

AREA 55

This geological map displays the following features and data:

- Geological Formations:**
 - Chert and carbonaceous schist
 - Mottled brown clay after chlorite schist
 - Ferruginous sand
 - Sericite tremolite schist
 - Chlorite schist
 - Tremolitic chert
 - Muscovite schist
 - Biotite schist
- Structural Features:**
 - Anticline 1
 - Anticline 2
- Sample Locations and Data:**
 - DDA 1, DDA 2, DDA 3, DDA 4, DD 699, DD 701, DD 190, DD 162, DD 191, DD 167, DD 168, DD 165, DD 158, DD 154, DD 153, DD 152, DD 151, DD 150, DD 149, DD 148, DD 147, DD 146, DD 145, DD 144, DD 143, DD 142, DD 141, DD 140, DD 139, DD 138, DD 137, DD 136, DD 135, DD 134, DD 133, DD 132, DD 131, DD 130, DD 129, DD 128, DD 127, DD 126, DD 125, DD 124, DD 123, DD 122, DD 121, DD 120, DD 119, DD 118, DD 117, DD 116, DD 115, DD 114, DD 113, DD 112, DD 111, DD 110, DD 109, DD 108, DD 107, DD 106, DD 105, DD 104, DD 103, DD 102, DD 101, DD 100, DD 99, DD 98, DD 97, DD 96, DD 95, DD 94, DD 93, DD 92, DD 91, DD 90, DD 89, DD 88, DD 87, DD 86, DD 85, DD 84, DD 83, DD 82, DD 81, DD 80, DD 79, DD 78, DD 77, DD 76, DD 75, DD 74, DD 73, DD 72, DD 71, DD 70, DD 69, DD 68, DD 67, DD 66, DD 65, DD 64, DD 63, DD 62, DD 61, DD 60, DD 59, DD 58, DD 57, DD 56, DD 55, DD 54, DD 53, DD 52, DD 51, DD 50, DD 49, DD 48, DD 47, DD 46, DD 45, DD 44, DD 43, DD 42, DD 41, DD 40, DD 39, DD 38, DD 37, DD 36, DD 35, DD 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 *Golden Dyke Formation*

 *Coomalie Dolomite*

- Geological boundary
- Geological boundary concealed
- ↗⁶⁴ Attitude of foliation
- ↘⁴⁰ Plunge of lineation
- ?— Inferred shear zone
- ⊥ Anticline axis

— 205 — *Topographic contour*

 *Costean Nr.1*

△ *Lands Department Trig. Station*

● DD617 *Diamond drill hole*

○ CD154 *Churn drill hole*

⊙ B *Proposed diamond drill hole*

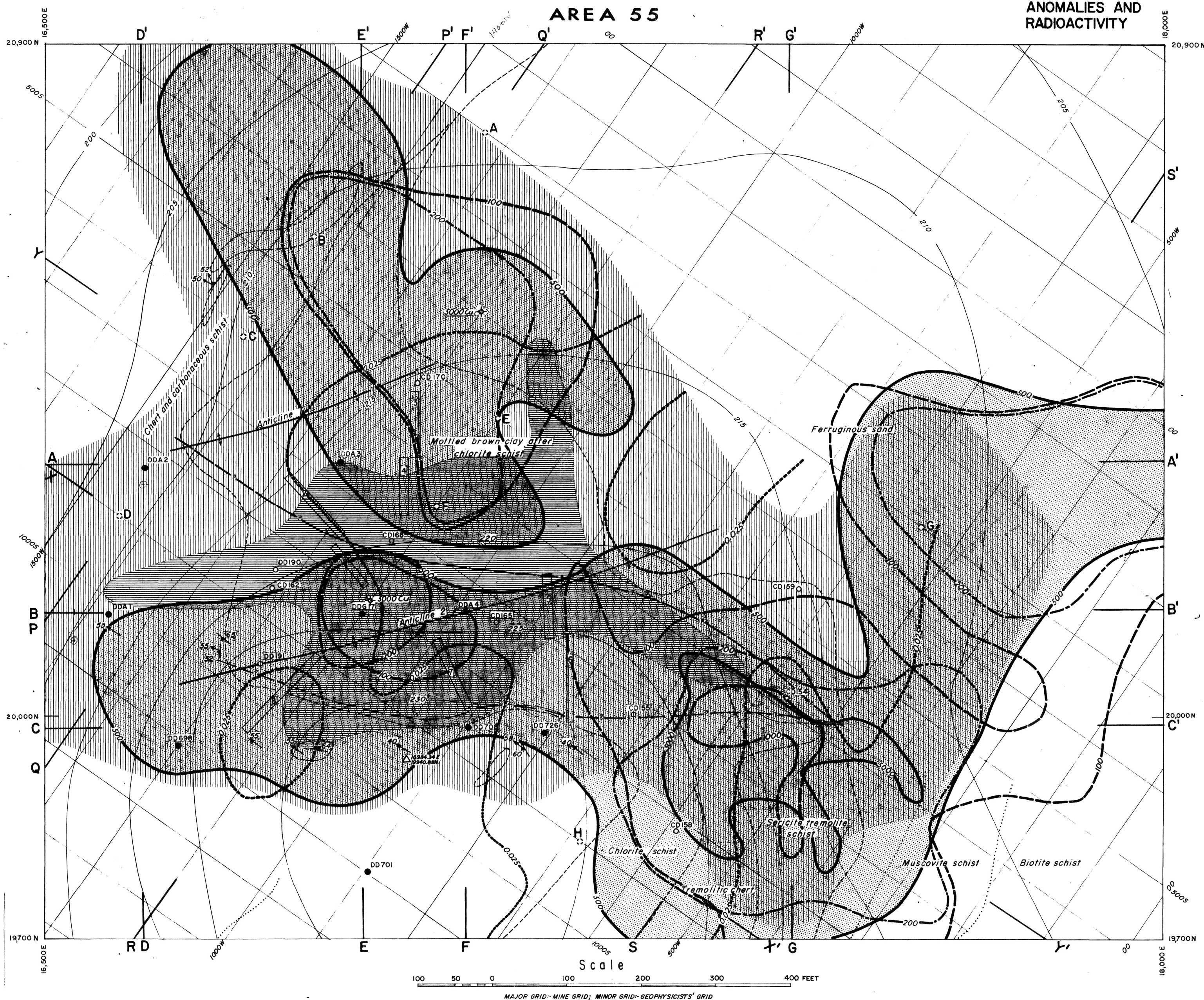
— A' *Section line*

RUM JUNGLE SURVEY, 1963

AREA 55

PLATE 2

GEOCHEMICAL
ANOMALIES AND
RADIOACTIVITY



QUATERNARY

Ferruginous sand

LOWER PROTEROZOIC

Golden Dyke Formation

Coomalie Dolomite

Geological boundary

Geological boundary concealed

Attitude of foliation

Plunge of lineation

Inferred shear zone

Anticline axis

Topographic contour

Costean Nr.1

Lands Department Trig. Station

Diamond drill hole

Churn drill hole

Proposed diamond drill hole

Section line

ISO-CHEMICAL LINES FROM BULK WEATHERED ROCK SAMPLES

Lead, 700 to 5000 parts per million

Lead, more than 5000 parts per million

Copper, 500 parts per million

Copper, 5000 parts per million

Copper, isolated assay of 5000 parts per million

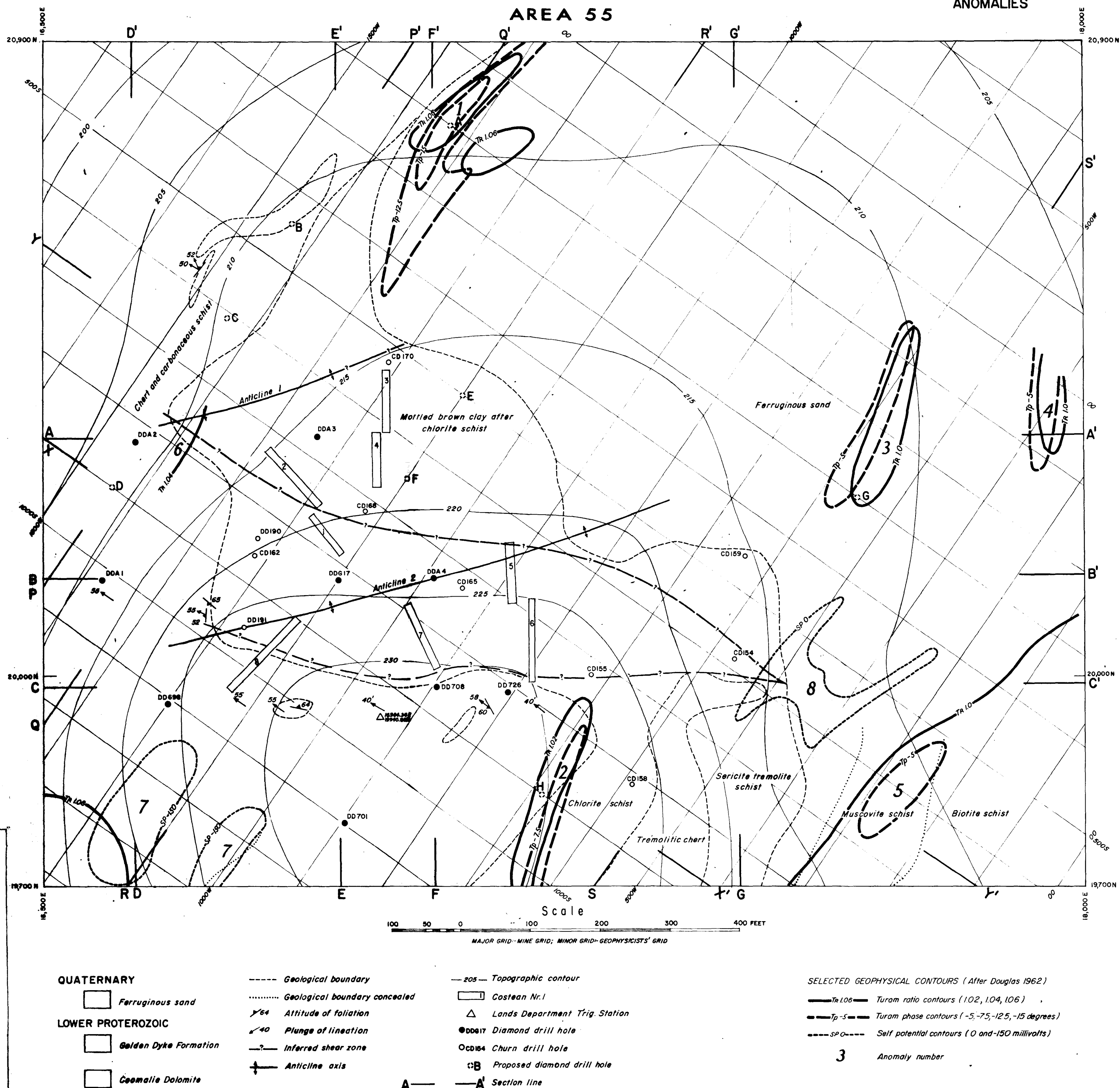
Cobalt, 100 and 1000 parts per million

Nickel, 200 parts per million

SUBSURFACE RADIO-METRIC CONTOURS BASED ON THE MAXIMUM READING IN AUGER DRILL HOLES BELOW THE "A" SOIL HORIZON

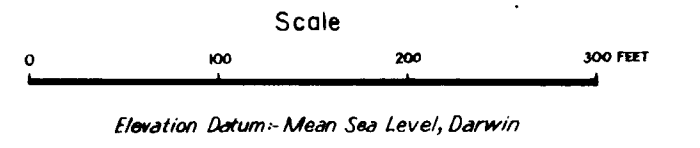
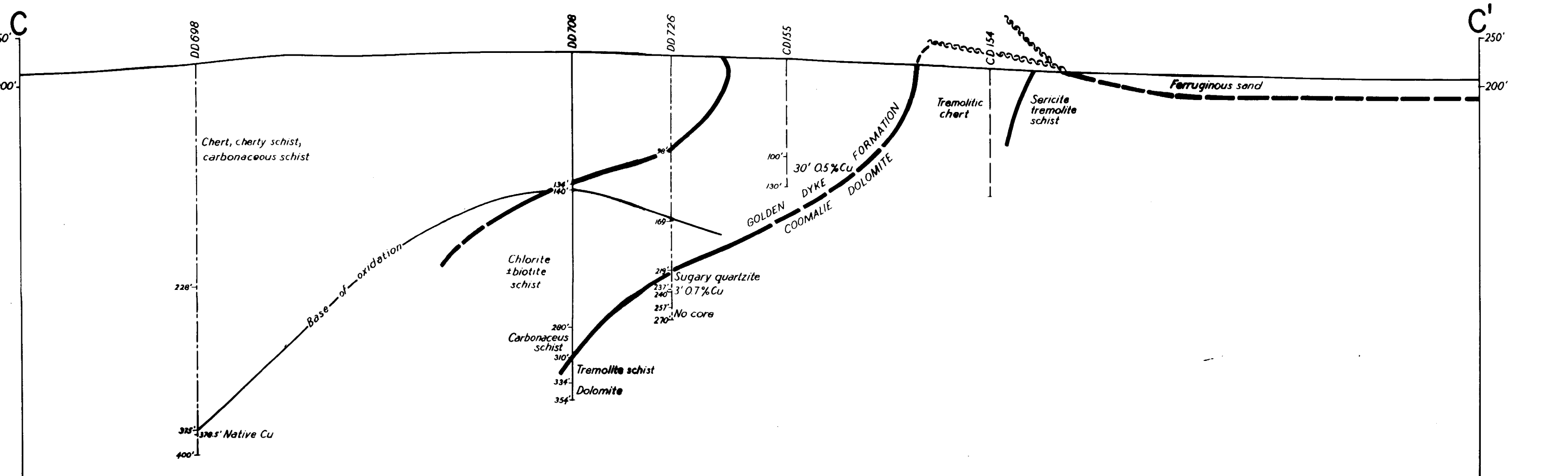
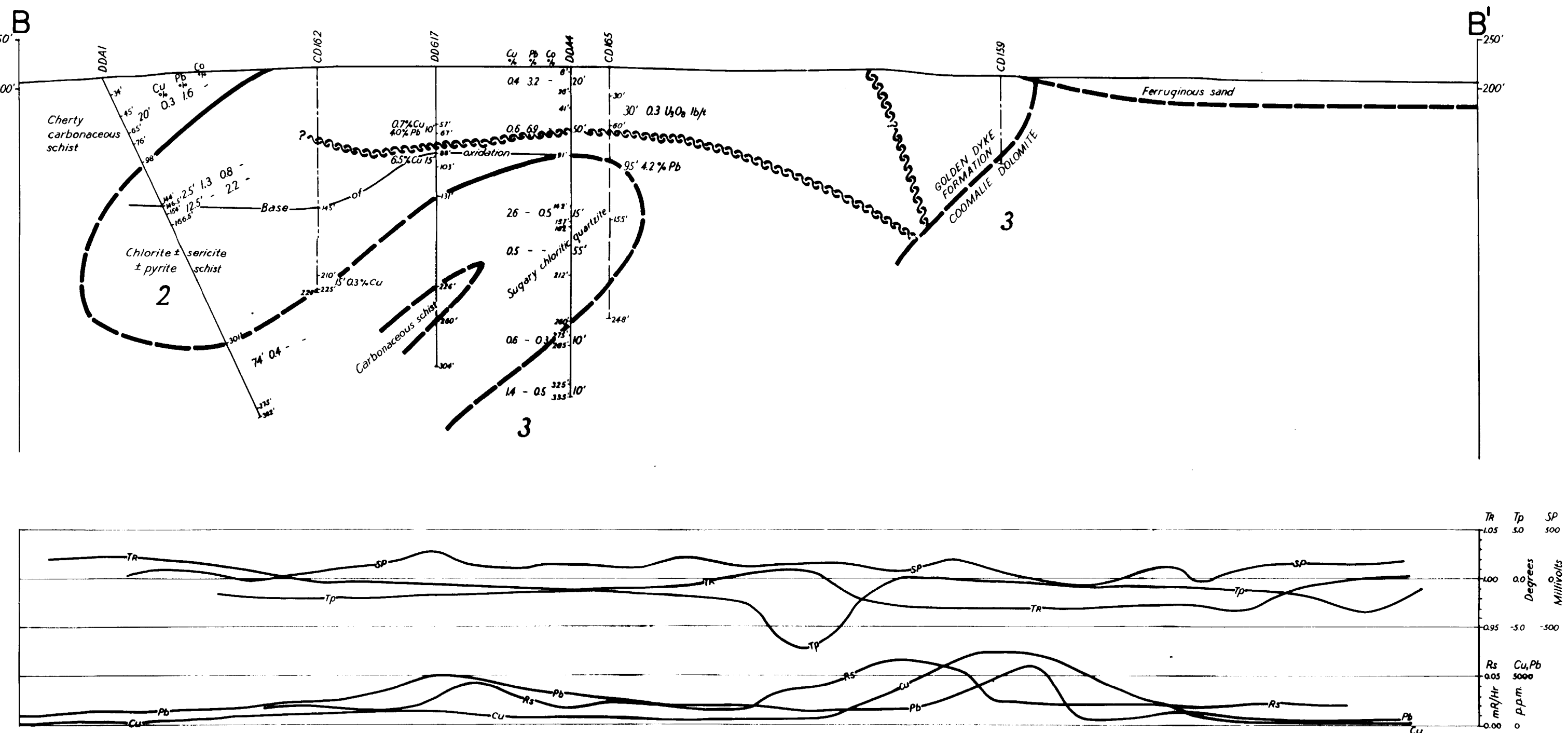
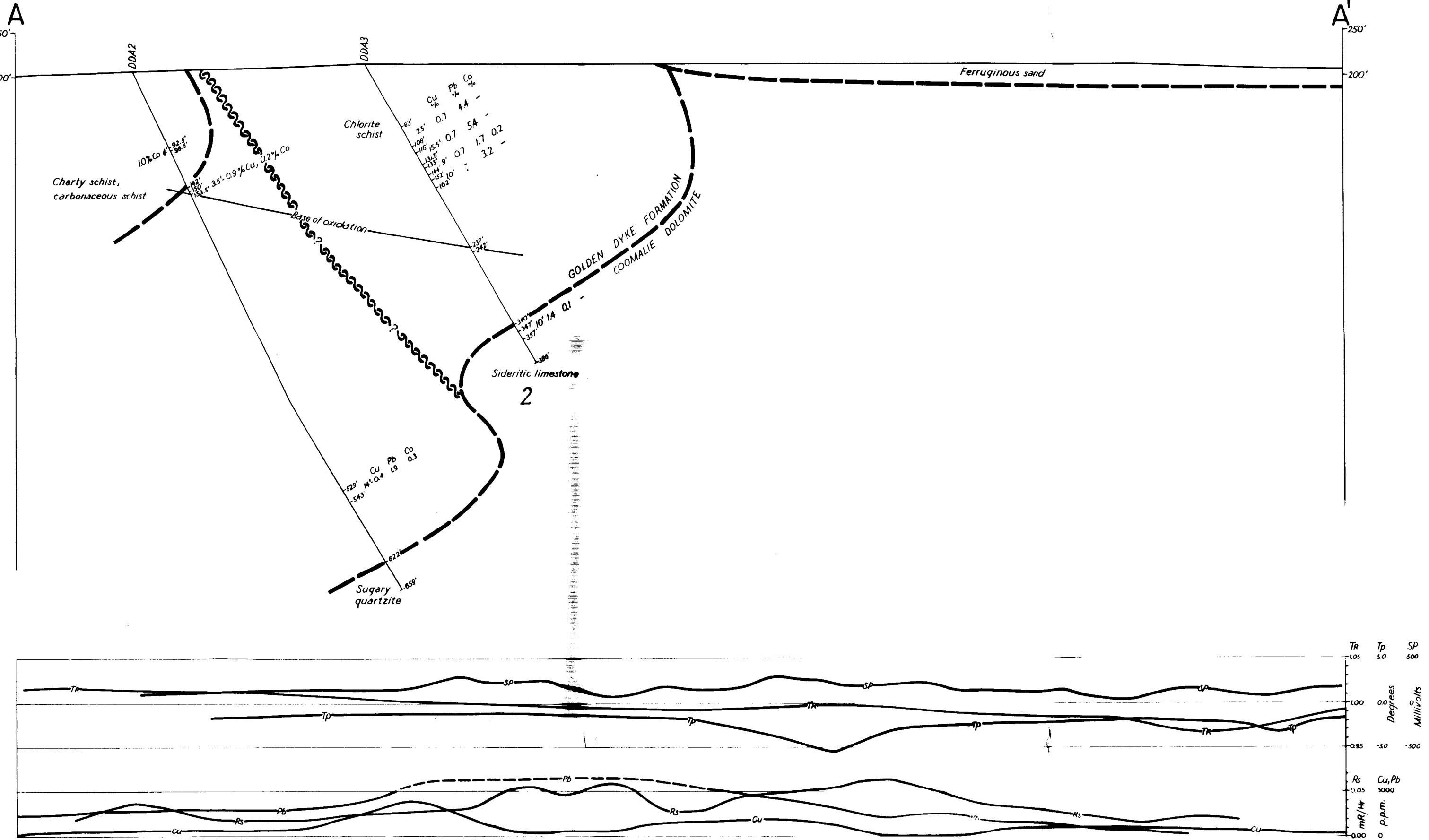
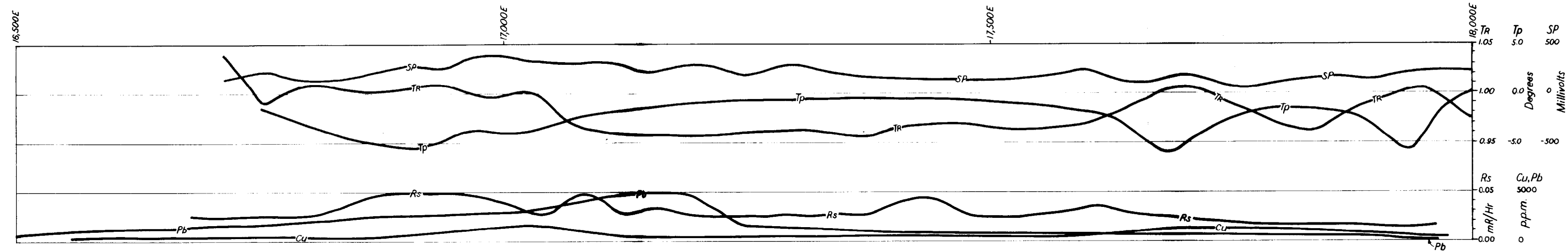
0.025 is equivalent to 0.064 mR/Hr

AREA 55



Rum Jungle Survey, 1963

AREA 55 EAST-WEST CROSS SECTIONS (Looking North)



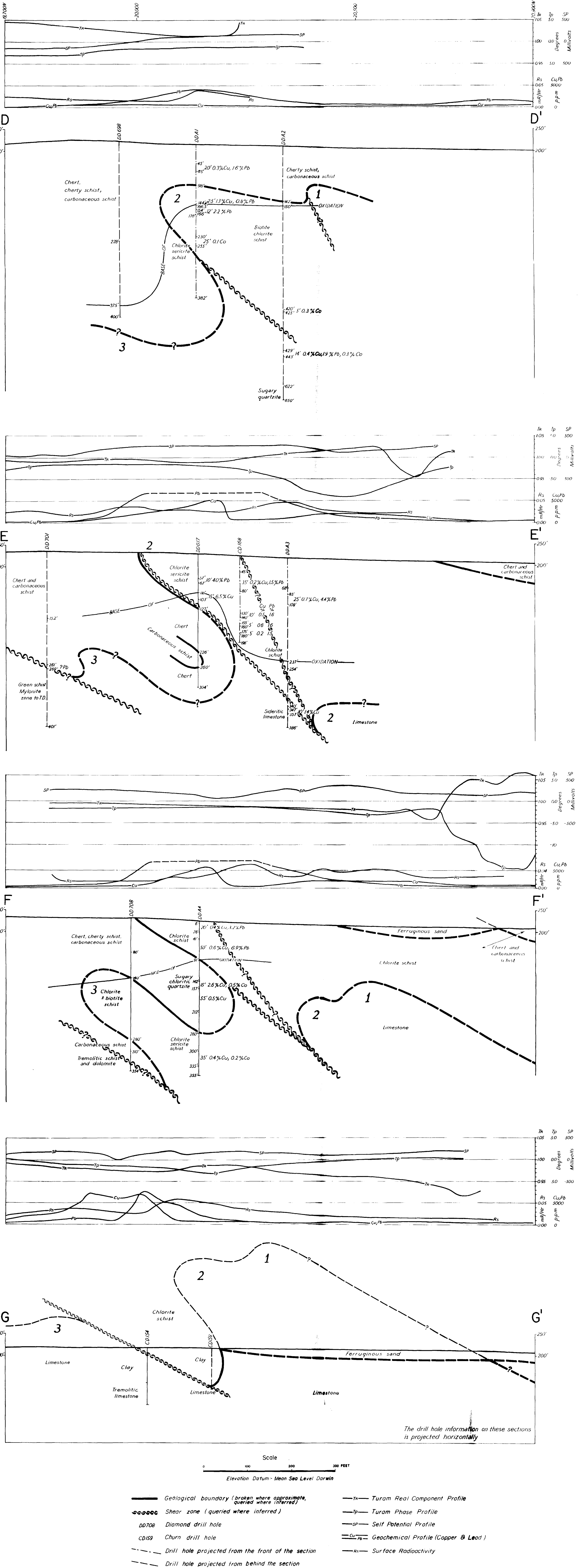
- Geological boundary (broken where inferred)
- Shear zone (queried where inferred)
- DDA3 Diamond drill hole
- CD159 Churn drill hole
- Drill hole projected from behind the section
- Drill hole projected from the front of the section
- Tr Turam Real Component Profile
- Tp Turam Phase Profile
- SP Self Potential Profile
- Cu, Pb Geochemical Profiles (Copper & Lead)
- Rs Surface Radioactivity

Bureau of Mineral Resources, Geology and Geophysics, September 1964

To accompany Record 1964/150

Rum Jungle Survey, 1963

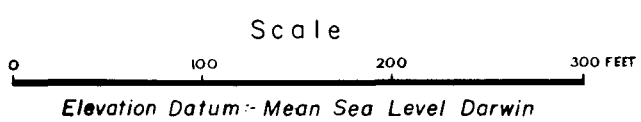
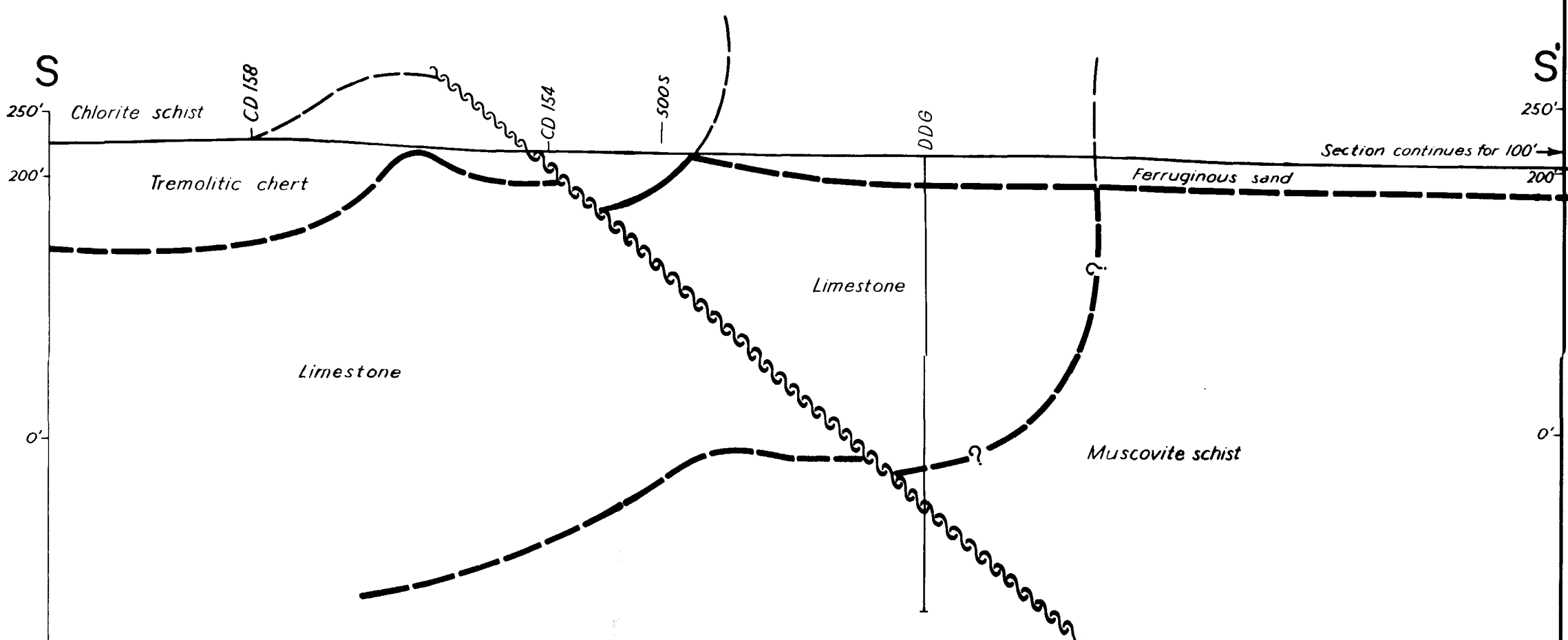
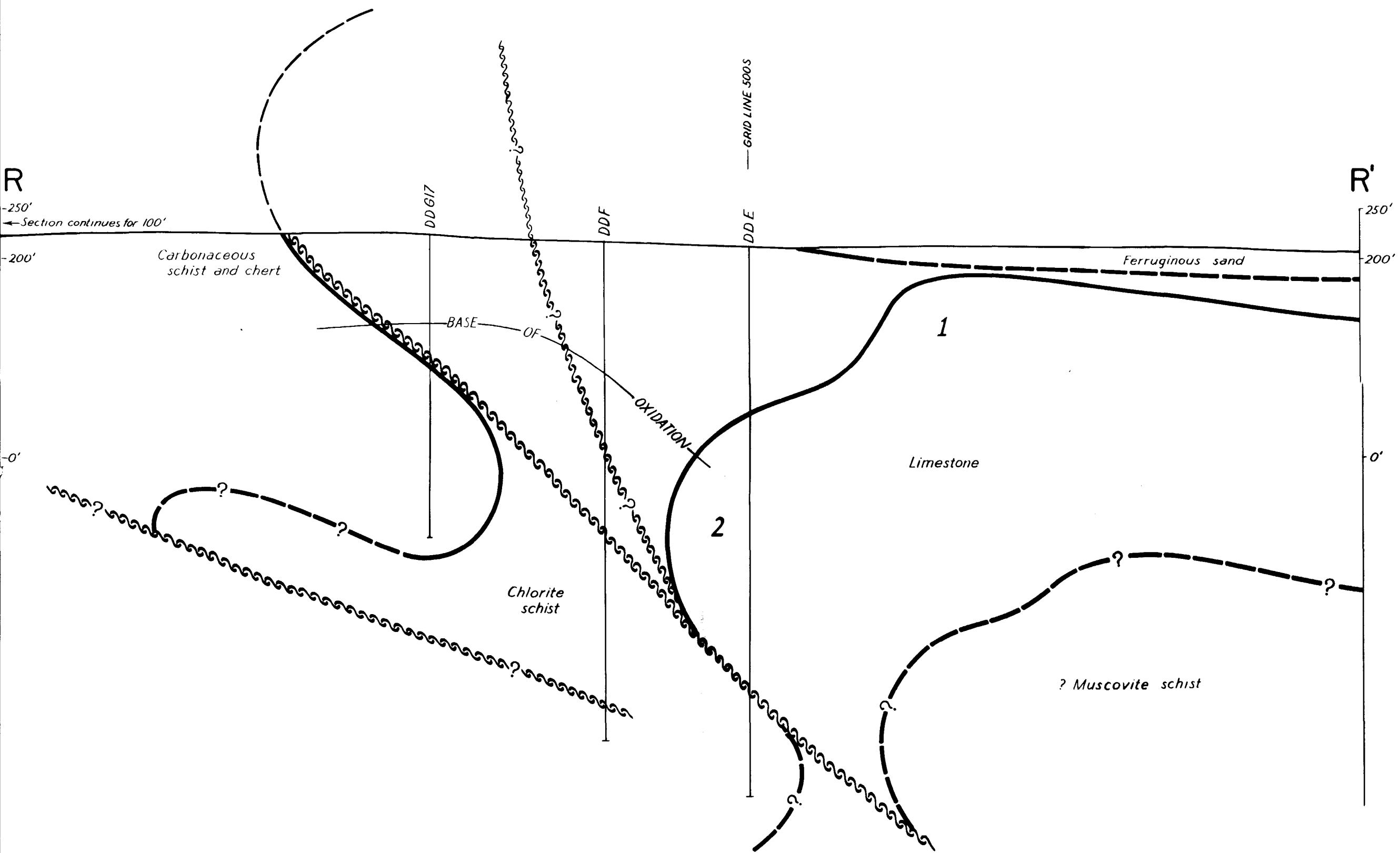
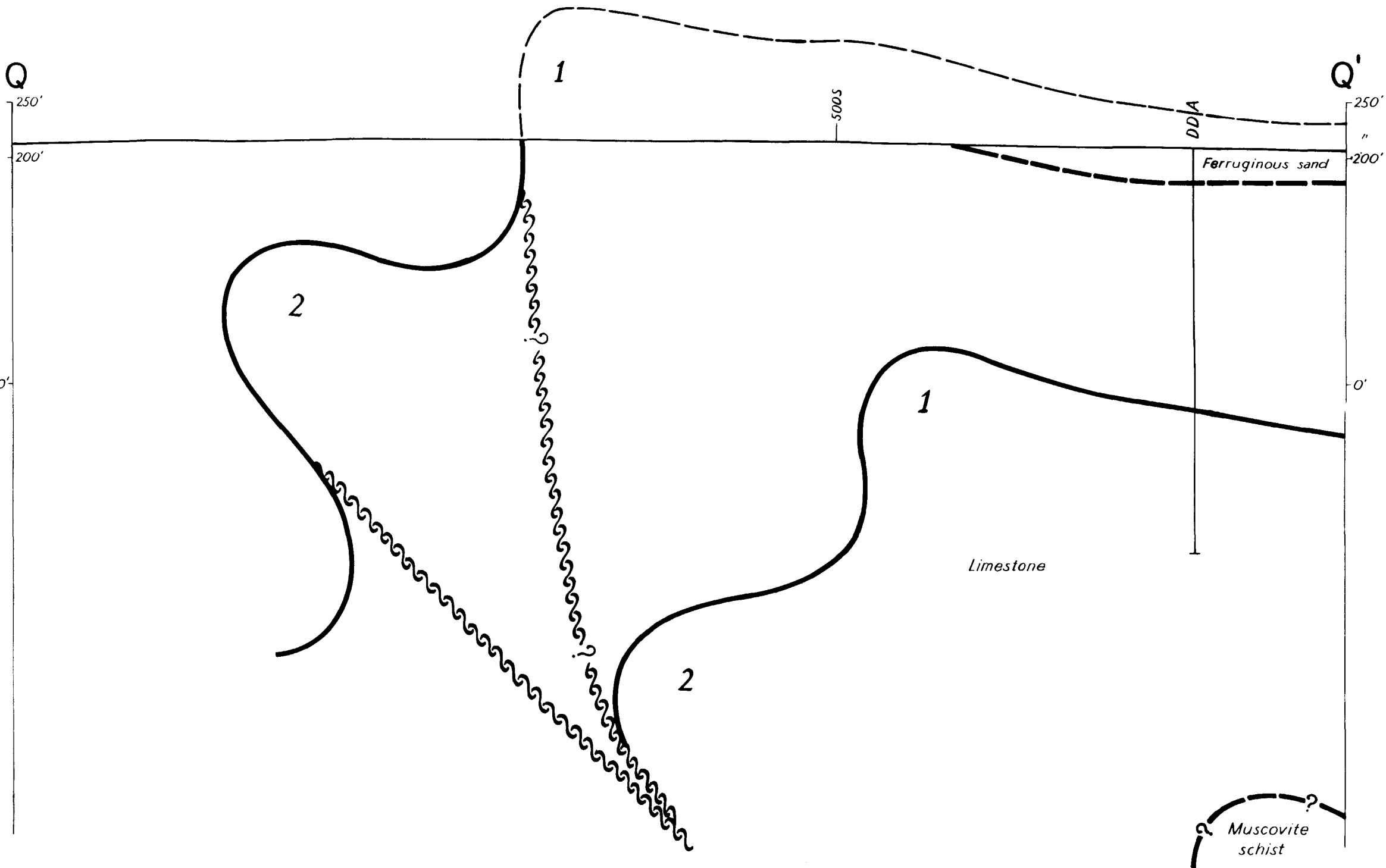
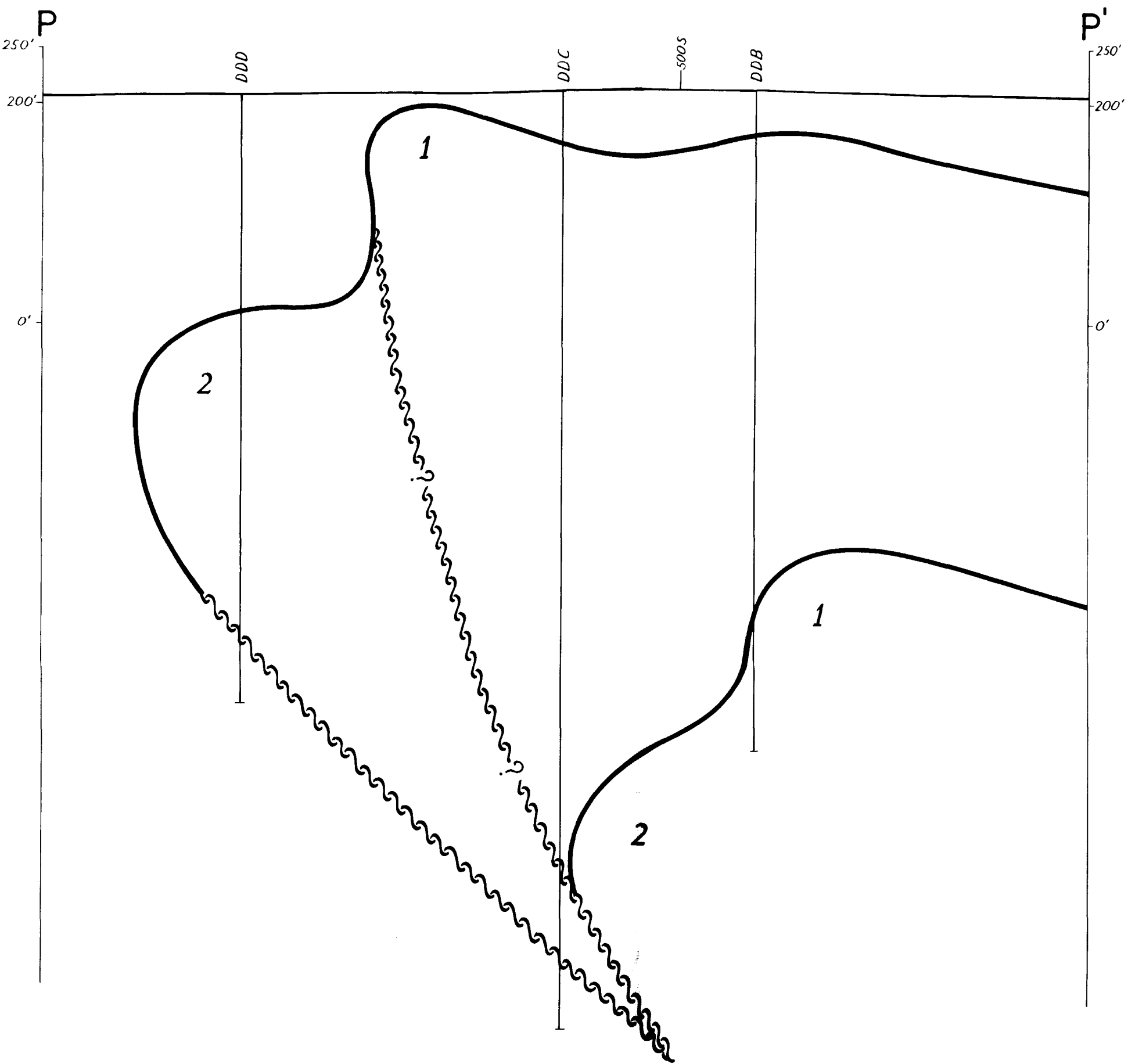
AREA 55
NORTH-SOUTH CROSS SECTIONS
(Looking west)



Rum Jungle Survey, 1963

AREA 55

SOUTH WEST-NORTH EAST CROSS SECTIONS (Looking North West)
(Sections at right angles to direction of plunge of folding)



- Geological boundary (broken where approximate, queried where inferred)
- Shear zone (queried where inferred)
- DDF Diamond drill hole
- CD138 Churn drill hole

AREA 55 NORTH WEST - SOUTH EAST CROSS SECTIONS (Looking North East) (Sections parallel to direction of plunge of folding)

