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BILLITON AUSTRALIA
 THE METALS DIVISION OF THE
 SHELL COMPANY OF AUSTRALIA LIMITED
 E.L. 39/83 - CATTLEY RANGE
 Partial Relinquishment Report

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LIST OF CONTENTS

- 1.0 INTRODUCTION
- 2.0 TENEMENT DESCRIPTION
- 3.0 GEOLOGICAL SETTING
- 4.0 EXPLORATION COMPLETED
- 5.0 CONCLUSIONS

LIST OF FIGURES

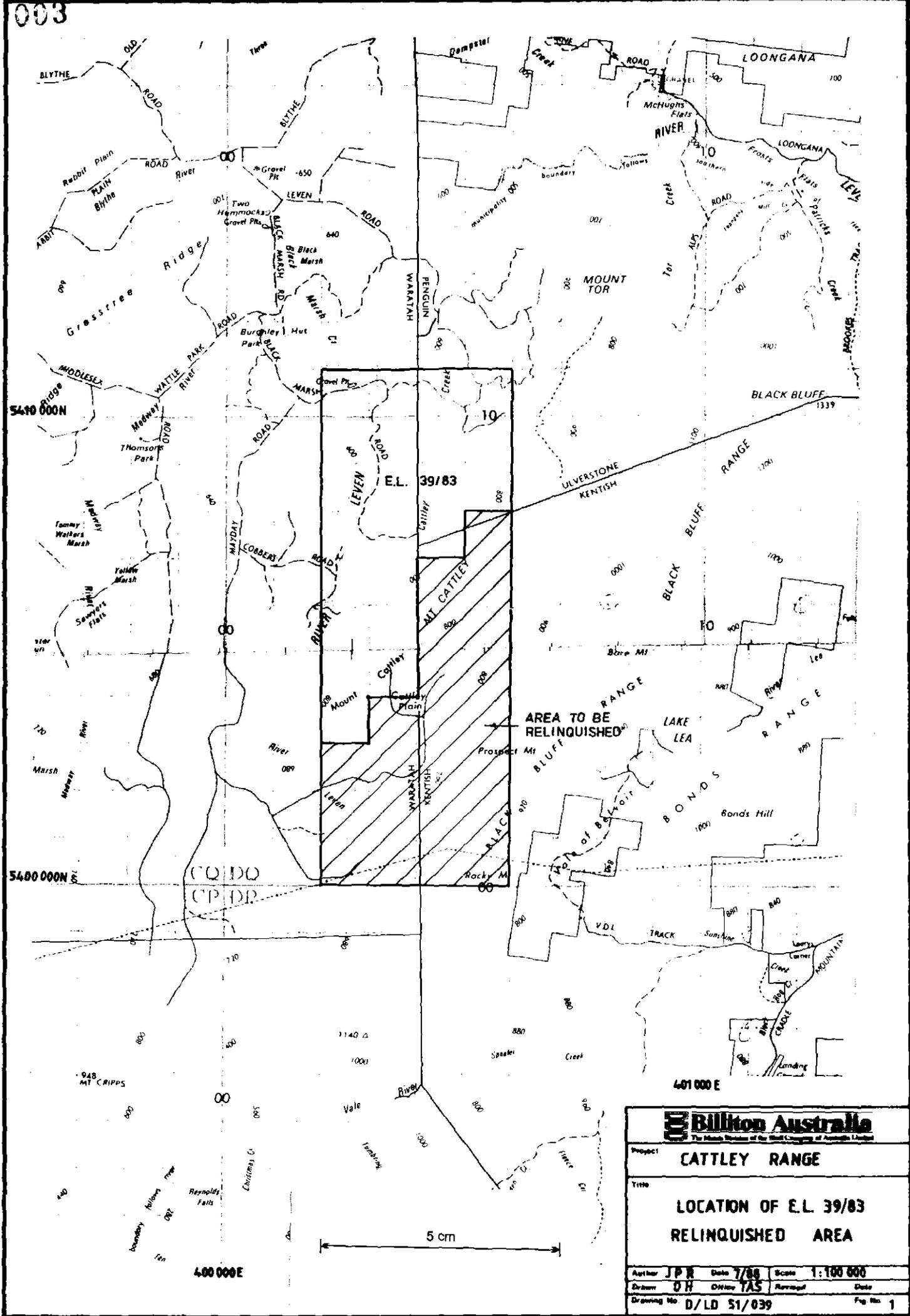
- 1. Location of EL 39/83, Relinquished Area. 1:100000 D/LD51/039
- 2. Local Geological Setting of Relinquished Portion. 1: 25000 D/LD51/040

SUMMARY

Exploration licence 39/83 is due for partial relinquishment on 22nd August 1988. This report details exploration completed within the relinquished portion (22 km²) by Billiton Australia.

The relinquished portion is totally covered by Tertiary flood basalt and Ordovician conglomerate/sandstone. Regional traversing has been carried out and it is concluded that the depth of cover and difficult access precludes carrying out additional exploration.

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Billiton Australia <small>The Mining Division of the Billiton Group of Australia Limited</small>			
Project	CATTLE RANGE		
Title	LOCATION OF E.L. 39/83 RELINQUISHED AREA		
Author	JPR	Date	7/88
Scale	1:100 000		
Drawn	OH	Checked	TAS
Reviewed		Date	
Drawing No	D/LD 51/039		Fig No. 1

1.0 INTRODUCTION

Exploration licence 39/83, of area 44 km², was granted to The Shell Company of Australia Limited on 22nd August, 1983, for a period of 10 years, renewable annually. Mines Department regulations dictate a 50% reduction in area of the licence after 5 years i.e. on or before 22nd August, 1988.

This report details all previous exploration carried out within the relinquished portion of the licence by Billiton Australia.

2.0 TENEMENT DESCRIPTION

The licence is situated immediately west of Black Bluff Range and 50 km south of Burnie. The original licence boundaries are defined by the following AMG co-ordinates:

Datum: 5400 000mN 402 000mE thence 11 kms north to 5411 000mN 402 000mE thence 4 kms east to 5411 000mN 406 000mE thence 11 kms south to 5400 000mN 406 000mE thence 4 kms west back to datum.

The area to be relinquished (22km²) is defined by the following AMG co-ordinates (see Fig. 1):

Datum: 5400 000mN 402 000mE thence 3kms north to 5403 000mN 402 000mE thence 1 km east to 5403 000mN 403 000mE thence 1 km north to 5404 000mN 403 000mE thence 1km east to 5404 000mN 404 000mE thence 3 km north to 5407 000mN 404 000mE thence 1km east to 5407 000mN 405 000mE thence 1km north to 5408 000mN

405 000mE thence 1km east to 5408 000mN 406 000mE thence 8 kms south to 5400 000mN 406 000mE thence 4 kms west back to datum.

3.0 GEOLOGICAL SETTING

The Cattley Range licence is located approximately 13kms along strike from and north north east of the Que-Hellyer volcanic complex. Tertiary and Ordovician cover obscures much of the prospective Cambrian sequence and only approximately 20% Cambrian exposure is evident within the licence.

The area to be relinquished is totally covered by poorly outcropping low relief Tertiary flood basalts and erosion resistant Cambro-Ordovician boulder conglomerate and sandstones. (see Fig. 2). The sequence has been gently folded along NNE trending fold axes with dips observed within the Ordovician sequences of 40-60°.

4.0 EXPLORATION COMPLETED

Apart from regional traversing along several logging tracks no exploration has been carried out within the relinquished area. Previous explorers have reported the presence of massive acid lavas subcropping in creeks that have incised the Ordovician fold crests. Sampling of these exposures has been negative and it is possible that these rocks may in fact be sedimentary quartzites.

The existence of Cambrian lithologies beneath Ordovician cover is not disputed but the depth of cover and accessibility problems are considered to outweigh the perceived potential of the area.

5.0 CONCLUSIONS

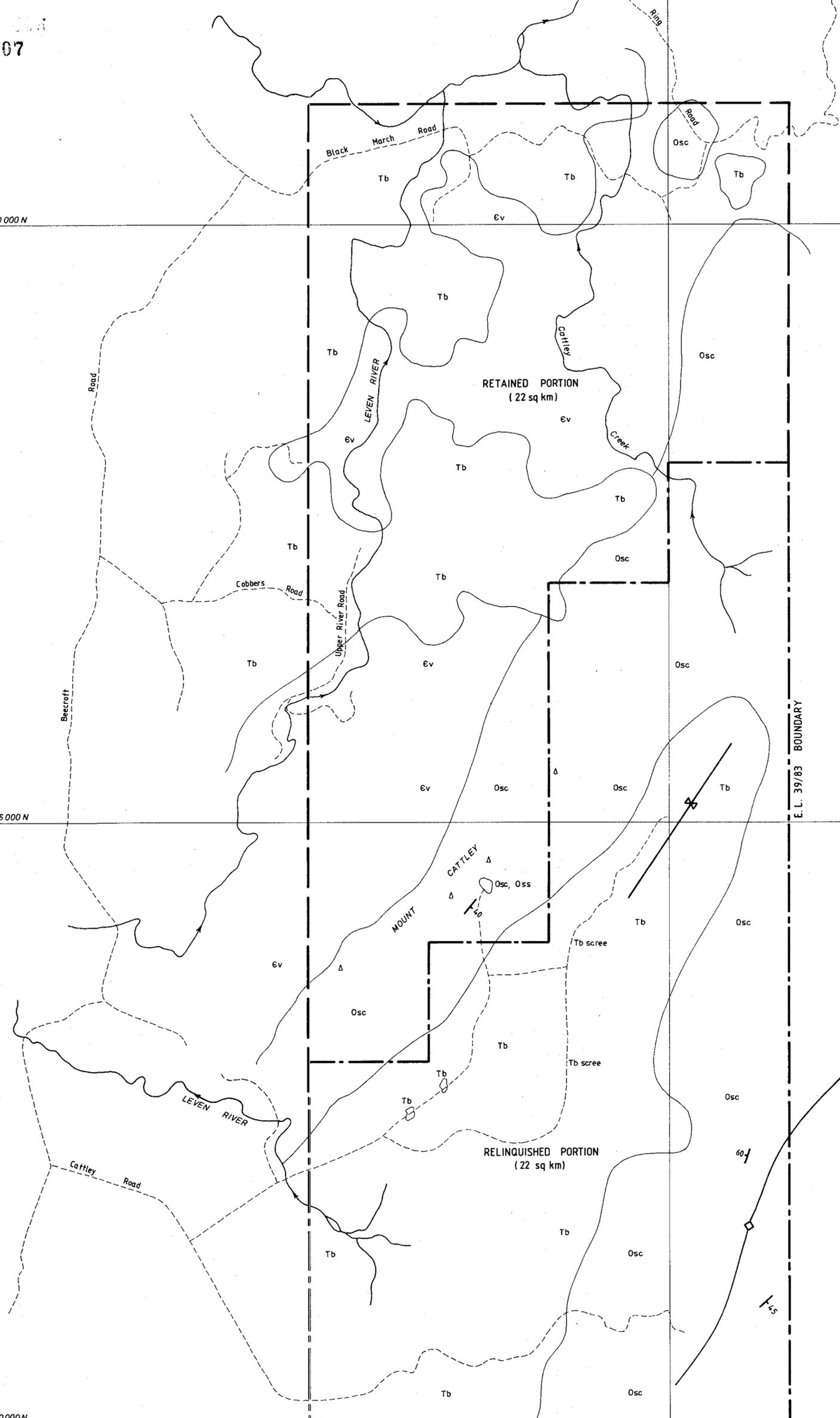
The relinquished portion of the licence is covered by a folded sequence of erosion resistant Ordovician conglomerates/sandstones and poorly outcropping Tertiary basalt flows. No Cambrian lithologies have been observed in regional traversing and although systematic exploration has not been carried out, it is considered that there is little justification ofr continued work beneath post Cambrian cover.

5410 000 N

5405 000 N

5400 000 N

E.L. 39/83 BOUNDARY



LEGEND

- Tb TERTIARY flood basalt vesicular
- Osc ORDOVICIAN basal boulder conglomerate with intercalated arenites
- Ev CAMBRIAN undifferentiated sequence of felsic volcanoclastics, siltstones, greywacke quartz porphyry and minor lavas

- Tenement Boundary - relinquished portion
- Tenement Boundary - retained portion

- Creek / river
- Road / track

5 cm

4,05,000E

757008

88-2839

Billiton Australia
The Metals Division of the Shell Company of Australia Limited

Project **CATTLEY RANGE - E.L. 39/83**

Title
LOCAL GEOLOGICAL SETTING OF RELINQUISHED PORTION

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Checked		Date		S'ceded	Date
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