SUPPLEMENTARY ANNUAL REPORT

EXPLORATION LICENCES 3625-3627

PERIOD 1/7/84-30/6/85

CALVERT HILLS 1:250,000 SHEET

Licensee : Kratos Exploration Pty. Limited

Operator : Stockdale Prospecting Limited

J.R. Stewart

September, 1985

CR86/140

NORTHERN TERRITORY
GEOLOGICAL SURVEY

TABLE OF CONTENTS

TEXT

	Page
SUMMARY	1
INTRODUCTION	3
GEOLOGY	3
GEOMORPHOLOGICAL AND LANDSAT STUDY	3
FIELD PROGRAMME	4
RESULTS	4
EXPENDITURE	6

MAPS

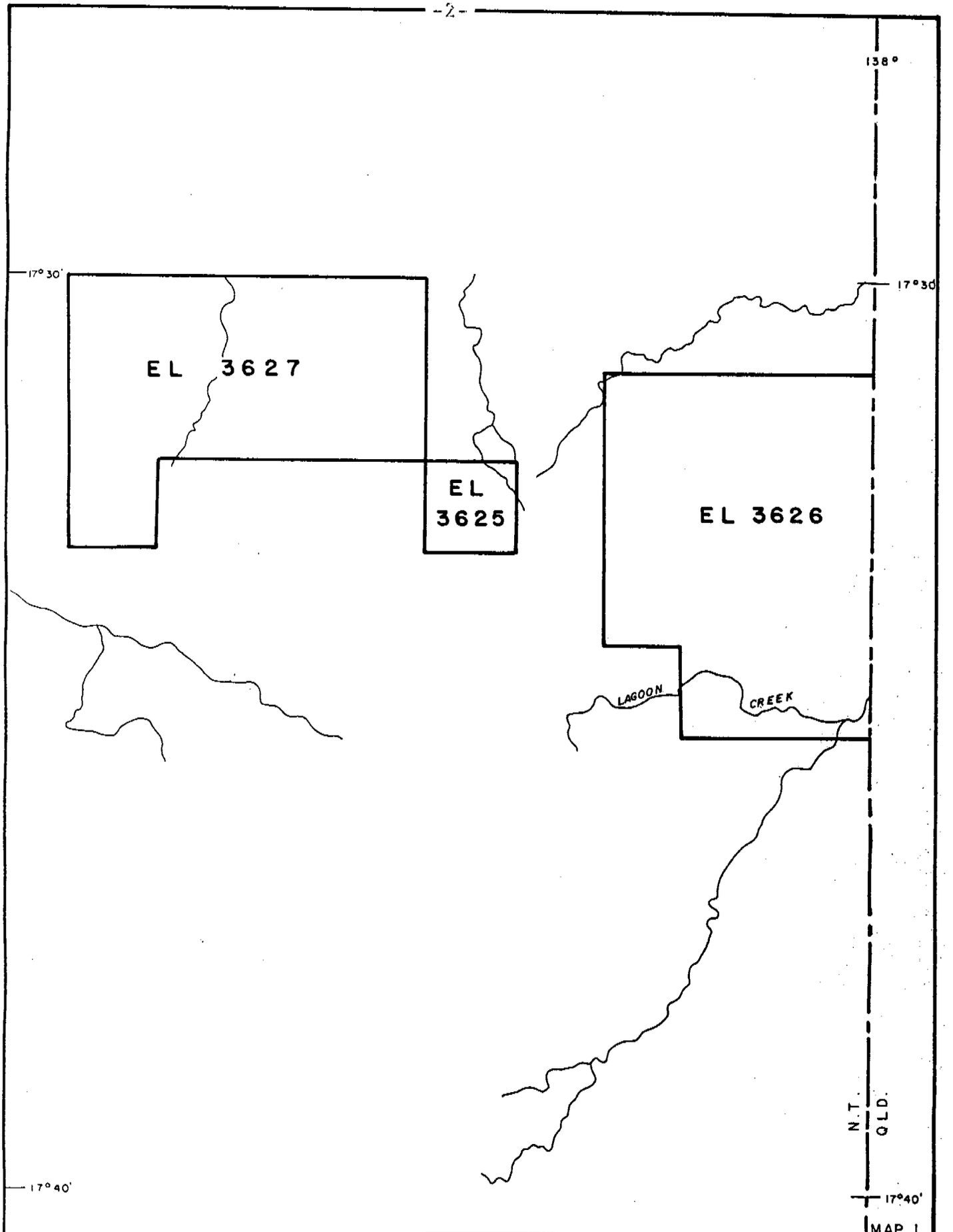
Map 1	2
Map 2	5

SUMMARY

As part of a regional exploration programme for diamonds, Stockdale Prospecting Limited entered into a joint venture with Kratos Exploration Pty. Limited (and its partner Bridge Oil Limited) to test Exploration Licences 3625, 3626 and 3627 in the Pandanus Creek area, N.T.

Three 100 litre stream sediment samples were collected from major creeks in the area and, after treatment, examined in Stockdale's laboratory. No diamonds or indicator minerals were found.

In the light of these negative results, the joint venture was terminated.



MAP 1

STOCKDALE PROSPECTING LIMITED

NORTHERN TERRITORY & QUEENSLAND

EL 3625 - 3627
KRATOS J.V.
LOCATION MAP

Compiled	ADS
Drawn	ADS
Date	AUG' 85
Scale	1:100,000
Revised	
SEL 2621	

INTRODUCTION

Exploration Licences 3625-3627, held by Kratos Exploration Pty. Limited, are located in the Pandanus Creek area of the Calvert Hills district,N.T. (Map 1).

Stockdale Prospecting Limited was undertaking a reconnaissance programme of sampling for diamonds in the region and approached Kratos with a view to a joint venture.

In June 1984 a pre-joint venture agreement was signed under the terms of which Stockdale would carry out reconnaissance sampling in the area for diamonds without interfering with the Kratos-Bridge Oil Limited-Central Electricity Generating Board Exploration (Australia) Pty. Ltd. uranium exploration programme in the same area.

Had results of interest been obtained a formal joint venture agreement would have been signed.

This report is based entirely on information supplied by Stockdale Prospecting Limited.

GEOLOGY

The geology of the area is summarised in the various reports by Kratos on the uranium exploration programme in the area, e.g. Kratos' annual report on ELs 3625-3627 dated July 1984.

GEOMORPHOLOGICAL AND LANDSAT STUDY

A detailed geomorphological and Landsat study of the area held by Stockdale and joint venture partners was completed by Stockdale's Research and Technical Services division in Melbourne. This study was concerned primarily with the geomorphological evolution of the region.

In summary, the study showed that, during the late Cretaceous, drainages flowed across the region in a north/north-east direction towards the present Gulf of Carpentaria. The formation of the Barkly Tablelands in early-mid Tertiary was associated with post-Cretaceous movements along a north-west/south-east upwarp zone extending through the China Wall area, causing marked changes in the drainage pattern. The drainages were further affected by subsequent minor flexuring and cutting back to the west by the Nicholson River.

FIELD PROGRAMME

The 1984 field programme in ELs 3625-3627 was carried out in conjunction with sampling of Exploration Licences held by Stockdale in the area.

A reconnaissance survey was followed by taking of three samples of approximately 100 litres of screened material (-12 +20 mesh) from major creeks within the Exploration Licence area. The locations of the three sample sites are shown in Map 2. This work was carried out entirely by helicopter.

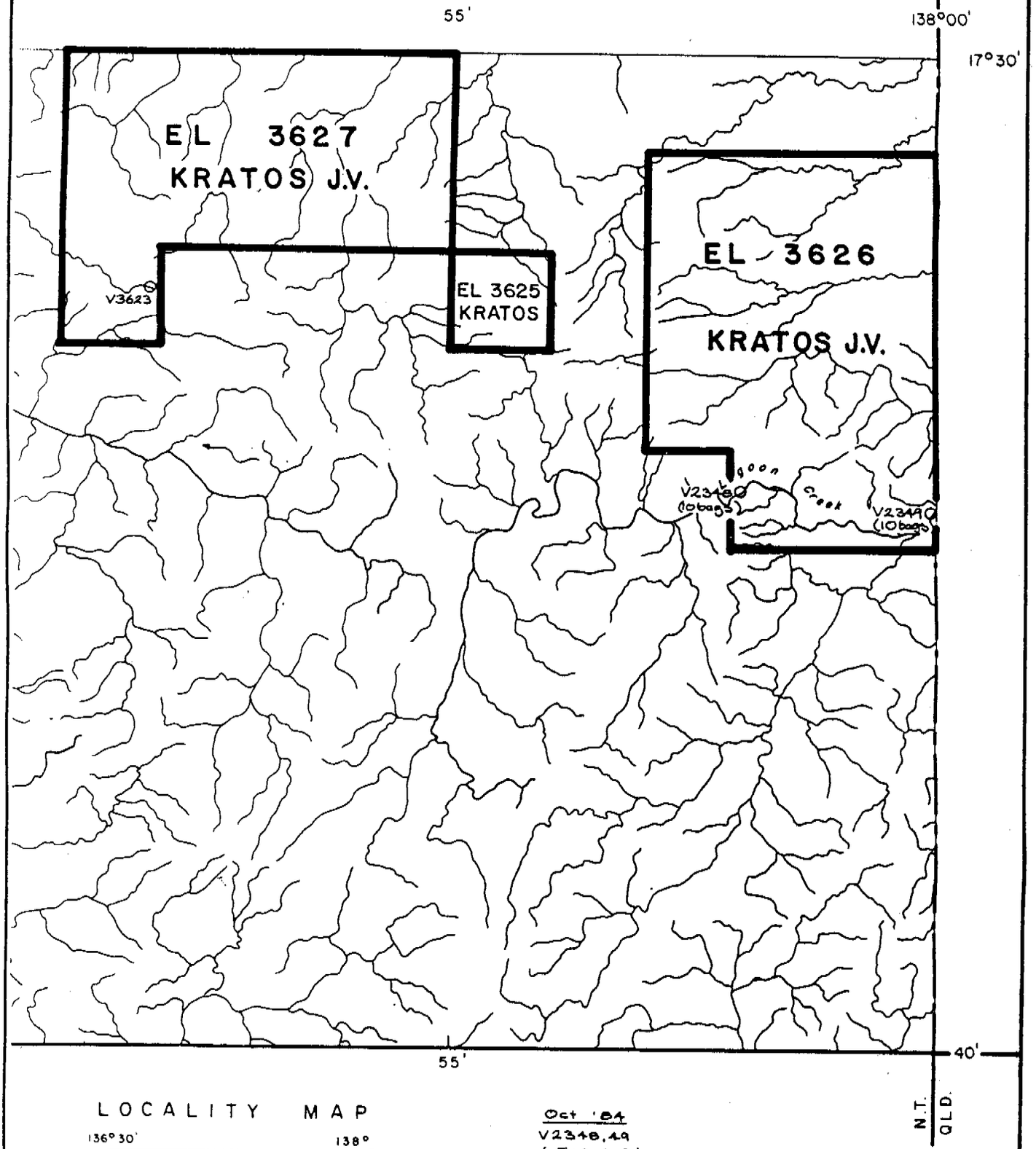
Heavy mineral concentrates were prepared at Stockdale's Darwin treatment plant and these were then forwarded to the Company's Melbourne laboratory for examination.

Personnel involved in the field programme were

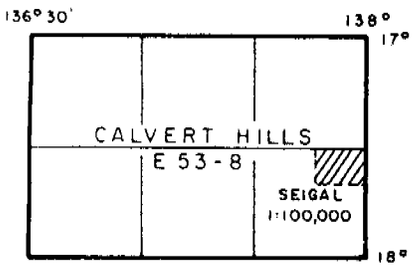
Geologist	1-2
Field Hands	5
Cook	1
Helicopter Crew (Contractor)	2

RESULTS

No diamonds or kimberlite indicator minerals were found in the samples collected.



LOCALITY MAP



0 2 4 6 KMS.

Oct '84
V2348, 49
(Total 2)
Nov '84
V3623

MAP 2

STOCKDALE PROSPECTING LIMITED

NORTHERN TERRITORY
TERMINATION REPORT
SHOWING SAMPLE LOCATIONS
OVER
EL's 3625 - 3627
KRATOS J.V.

Compiled	ADS
Drawn	ADS
Date	AUG. '85
Scale	1:100,000
Revised	
	SEL 2625

Interpretation of the geology and prospectivity for diamonds of the region as a whole resulted in the area covered by ELs 3625-3627 being classed as of low priority.

In view of these negative results, Stockdale indicated that it wished to withdraw from the joint venture.

EXPENDITURE

Expenditure was incurred as set out in the table below.

	EL 3625	EL 3626	EL 3627
Regional/Head Office Administration	$ 9	912	490
Operational Costs	1	146	74
Transport and Travel	2	1514	765
Tenement Costs	-	-	-
Central Treatment Plant	-	864	432
Laboratory : Treatment	-	260	130
: Examination	-	748	375
Anthropological Survey	11	130	110
Remote Sensing	181	2119	1755
Geophysics	1	5	4
Drafting	6	62	51
Administration: Regional	39	1214	756
: Head Office	24	682	431
TOTAL EXPENDITURE	$ 274	$ 8656	$ 5373