

Annual Technical Report – Year 2

Exploration Licence EL31685

From 11th September 2019 to 10th September 2020
Northern Territory, Australia

Holder: Scriven Exploration

Operator: Scriven Exploration

Reporting Period: From 11th September 2019 to 10th September 2020

Sheet Reference: Wallhallow 1:250,000 (SE53-07)

Due Date: 10th November 2020

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SUMMARY

This Annual Technical Report details exploration activities undertaken by the Operator on Exploration Licence EL31685 from 11th September 2019 to 10th September 2020 and represents Year 2 of the tenement.

The Exploration Licence is situated on the Wallhallow (SE5307) 1:250,000 mapsheet, and Lancewood (6163) 1:100,000 topographic mapsheet in the McArthur Region of the Northern Territory. The licence is located approximately 125 kilometres south of the township of Borroloola and is accessed via existing sealed and gravel roads.

The planned exploration program for year 2 was not able to be undertaken due to the travel restriction that were put in place due to covid and which made it impractical to access the project area. It is planned to implement this program comprising reconnaissance EM34 surveys in term 3 of the tenement.

Expenditure for the reporting period is \$9,700 with the covenant being \$22,150.

1.0 INTRODUCTION

This Annual Technical Report details exploration activities undertaken by the Operator on Exploration Licence EL31685 between 11th September 2019 to 10th September 2020. The Operator is primarily targeting diamond deposits associated with kimberlite pipes.

2.0 COPYRIGHT

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This document and its contents are the copyright of Scriven Exploration. The document is for submitting to the Department of Industry, Tourism & Trade of the Northern Territory, as part of the tenement reporting requirements of the *Minerals Titles Act 2010*. Any information included in this report that originates from historical reports or other sources is listed in the 'References' section at the end of this document. Scriven Exploration authorise the Department of Industry, Tourism & Trade to copy and distribute the report and associated data.

3.0 LOCATION AND ACCESS

Exploration Licence EL31685 is situated on the Wallhallow (SE5307) 1:250,000 mapsheet, and Lancewood (6163) 1:100,000 topographic mapsheet in the McArthur Region of the Northern Territory. It is located approximately 125 kilometres south of the township of Borroloola and is accessed via existing sealed and gravel roads. A tenement location map is provided as Figure 1.

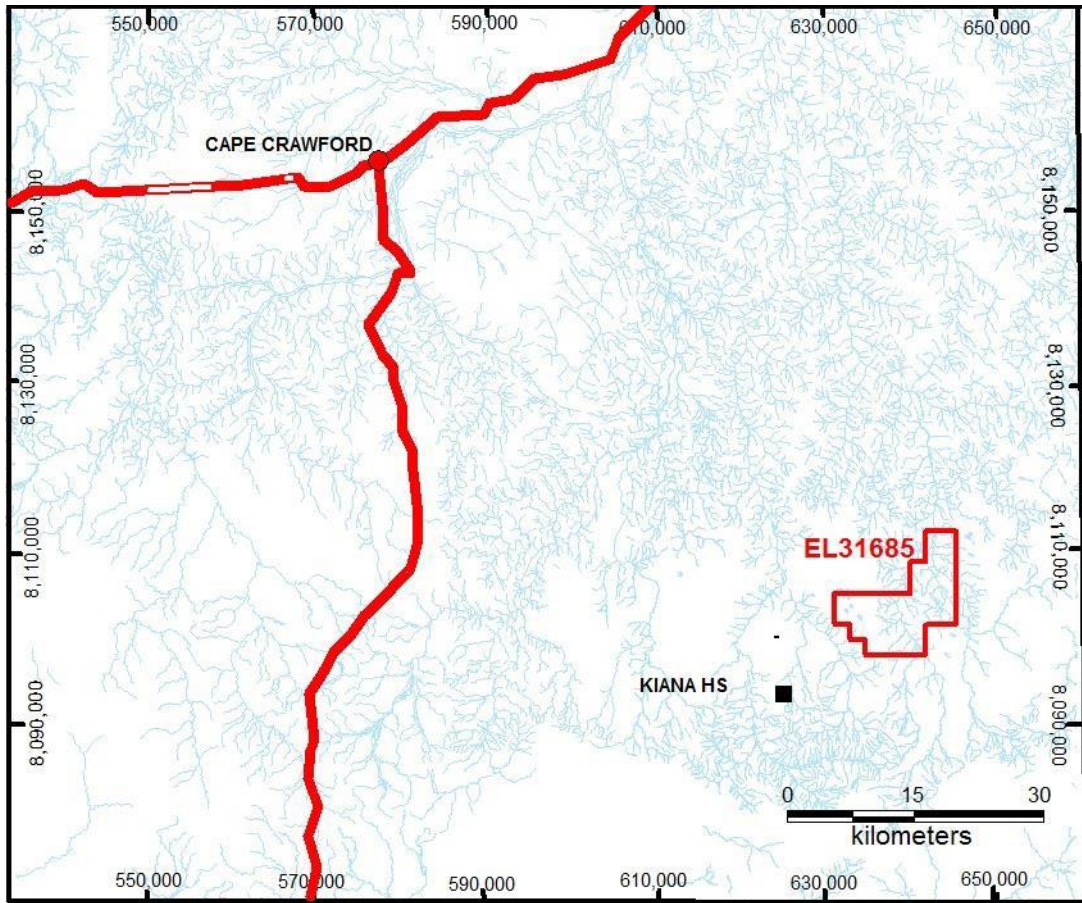


Figure 1. Tenement Location

4.0 LICENCE DETAILS

Details of the Project Tenement is outlined in Table 1 below.

Table 1: Tenement Schedule and Expenditure Details

Name	Effective Date	Grant Date	Surrender Date	Blocks	Surrendered Blocks	Holder	%
EL31685	11/09/18	11/09/18	10/09/19	35	13	Scriven Exploration	100

5.0 ABORIGINAL CLEARANCES

For the purpose of planning future ground disturbing activities, the location of registered Heritage and Sacred Sites including Restricted Work Areas was obtained from the Aboriginal Areas Protection Authority in Darwin (AAPA) for the entire tenement area. No additional on ground Heritage clearances were undertaken by the Operator.

6.0 PHYSIOGRAPHY

6.1 Geomorphology and Climate

The region has a humid monsoonal climate with a dry season between April and October and a hot, wet season extending from November to March. The “wet” season is characterised by high relative humidity, high temperatures and most of the mean annual rainfall of 804mm. The “dry” season is characterised by lower humidity and lower temperatures.

EL31685 lies within and at the southern margins of the *Gulf Fall* physiographic division. The *Gulf Fall* contains north flowing drainages. A marginal scarp forms a drainage divide that separates the *Gulf Fall* from the *Barkly-Birdum Tableland* to the south where drainage flows southward. In this area the *Gulf Fall* division contains two sub-divisions namely the *Top Springs Erosion Surface* and the *Bukalara Plateau*.

The *Top Springs Erosion Surface* is generally flat at elevations of approximately 240 metres and contains outcrop of Top Springs Limestone, isolated outcrops of Cretaceous sediments, and Quaternary sediments on flat-lying areas and in drainages. The southern part of the sub-division becomes undulating and slopes up to the scarp of the *Barkly- Birdum Tableland*.

The *Top Springs Erosion Surface* descends gently and merges with the *Bukalara Plateau* to the north. The plateau occurs approximately 10 metres below the *Top Springs Erosion Surface*. It is dissected by the Glyde River, Lancewood Creek and their tributaries, which has exposed the Bukalara Sandstone.

The *Barkly-Birdum Tableland* occurs on the southern side of the drainage divide at an elevation of approximately 350 metres. It contains flat-lying Cretaceous sediments often with a well-developed laterite profile. Black soil plains occur where the ferruginous zone of the laterite profile has been eroded. The tableland represents the original Tertiary land surface.

6.2 Geology

The oldest rock unit that crops out in the licence is the Paleozoic Bukalara

Sandstone. Mesozoic sediments are exposed in the scarp in the south of the licence and also as outliers in the north where they lie unconformable on the Bukalara Sandstone. The Bukalara Sandstone is covered by a thin veneer of residual sand.

7.0 PREVIOUS EXPLORATION

Previous exploration for diamond deposits has been conducted within the Kiana Project area initially by CRA Exploration Limited and followed by Ashton mining Ltd and later by North Australian Diamonds/Merlin Diamonds. The following report subsections summarise the previous diamond exploration over the property since 1990.

7.1 CRA Exploration 1983-1987

CRA Exploration undertook reconnaissance stream sampling on the Wallhallow map sheet in 1983. near the project tenement 5 samples reported positive for singular microdiamond, but no chromite was reported from any of the samples. No indicator minerals or microdiamonds reported to 7 samples which were taken from within the project tenement. The CRAE exploration program was abandoned in 1987.

7.2 BHPM 1992-1995

BHP explored the project tenement and surrounding areas in the early 1990's for base metals and in 1995 Ashton Mining joint ventured into the licences, namely EL7201 and EL7816. BHPM ceased their exploration in 1995 although the tenements remained active because of the Joint Venture with Ashton Mining Ltd and later Rio Tinto Exploration.

7.3 Ashton Mining Ltd 1992 – 2002

Ashton Mining Ltd continuously explored the region including the project area in the period 1992 through to 2002. This was largely by way of a Joint Venture with the tenement holder BHPM. Details of their exploration are outlined below.

Reconnaissance sampling was completed in 1994 with 55 samples collected. The program

was aimed at testing drainages which were peripheral to poorly drained plateaus. Five of these samples were located within the project tenement. No indicator minerals or microdiamonds reported to these samples.

In 1998 a bulk sample was taken from a drainage location close to the northern perimeter of the current project tenement. This sample was processed by DMS plant and reported 4 commercially sized diamonds. The drainage is sourced in part from within the current project tenement.

In 1999 2 bulk samples and 10 surface loam samples were collected aimed at following-up the positive bulk sample taken in 1998. The 2 bulk samples were processed by DMS plant producing 1 and 2 commercially sized diamonds respectively. These samples were taken from within the current project tenement and on different tributaries of the drainage that was sampled in 1998.

In 2000 a further 2 bulk samples were taken and processed by DMS plant. No diamonds reported to either of these samples. Both samples were taken approximately 5km upstream of the respective samples collected in 1999 which both reported commercially sized diamonds.

No further work was undertaken by Ashton Mining within the current project area.

7.4 NADL/Merlin Diamonds 2007 - 2015

Reconnaissance stream and loam sampling was undertaken by North Australian Diamonds/Merlin Diamonds on the current project area. No positive results were reported.

7.5 Scriven Exploration 2018-2019

On-ground activities completed during this reporting period comprised reconnaissance loam sampling with a total 8 samples collected. No indicator minerals or microdiamonds reported to any of the samples.

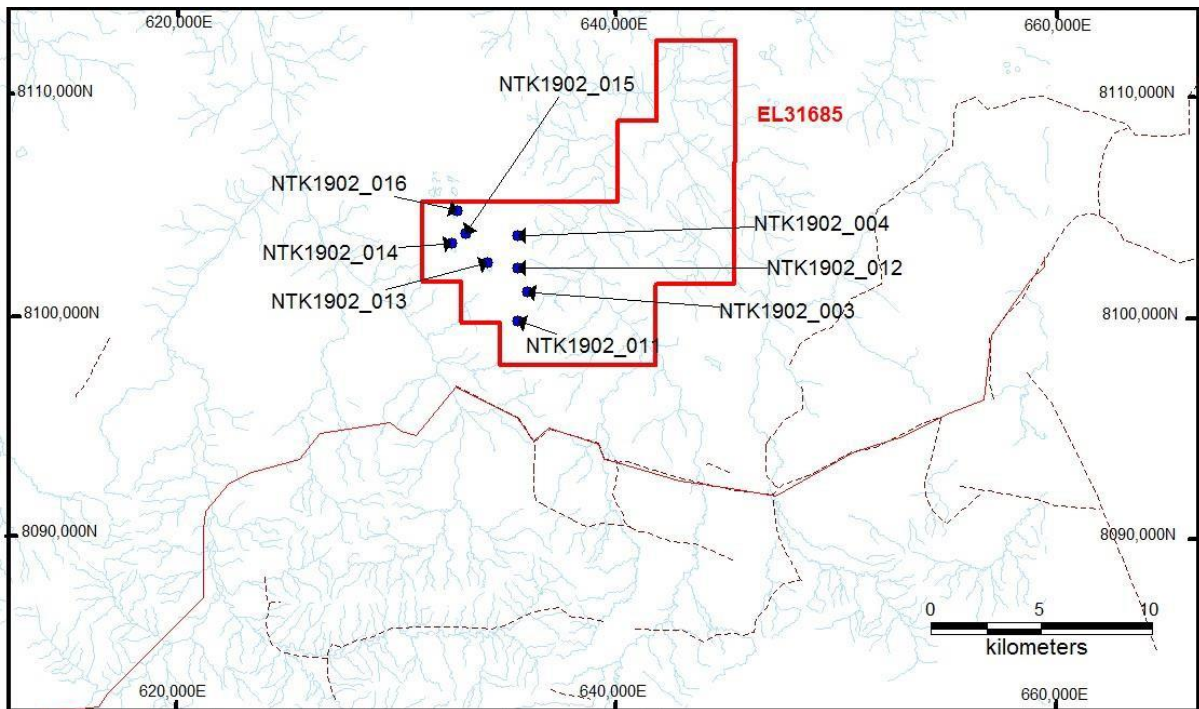


Figure 2. Location of 2018/2019 Samples

8.0 EXPLORATION COMPLETED 2019-2020

The forward program for year 2 was to assess the tenement area east of the Glyde River for potentially diamondiferous palaeochannels and to this end to undertake reconnaissance EM34 in selected targeted areas. Because of the access restrictions due to covid no on ground activities were able to be undertaken on the tenement during the reporting period.

9.0 CONCLUSIONS

Historic exploration work near Kiana Homestead has identified a significant surface chromite anomaly with associated microdiamond occurrences reported in some parts. Despite the application of a range of ground and airborne geophysical techniques and with follow-up drill testing of generated targets no kimberlite has been identified. The current project tenement is located 10km north east of this significant unresolved indicator mineral and diamond occurrence. Historic stream samples and loam samples taken by Ashton Mining reported negative results. No kimberlite indicator minerals have reported to any of recent samples taken by Scriven Exploration. The reported recovery of diamonds from the upper reaches of the Glyde River raises the possibility that diamondiferous palaeo-alluvial

deposits may be preserved within the undissected terrain to the east of the Glyde River. It is now planned to implement this exploration program during year 3.

10.0 EXPENDITURE STATEMENT

The exploration expenditure attributed to the Tenements during the current reporting period was a total of \$9,700.

11.0 PROPOSED PROGRAM

A proposed program of exploration for Year 3 for the Tenements is included below,

Administration and Reporting

Ground Geophysical Survey aimed at identifying possible palaeo channels– 20 line km

Total Proposed Expenditure \$10,000

12.0 REFERENCES

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