EXPLORATION LICENCE
23513

ABNER PROJECT
COMBINED ANNUAL AND FINAL
TECHNICAL REPORT

FOR THE PERIOD
3 MARCH 2003 TO 2 MARCH 2011

BY

A. Raza

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Department of Resources, Darwin
Legend International Holdings, Inc., Melbourne
TENEMENT REPORT INDEX

TENEMENT HOLDER: LEGEND INTERNATIONAL HOLDINGS INC.

TENEMENT MANAGER: LEGEND INTERNATIONAL HOLDINGS INC.

PROJECT: ABNER PROJECT

COMBINED REPORTING GROUP: G140/09

TENEMENT: EXPLORATION LICENSE 23513

FINAL REPORT PERIOD: 3 MARCH 2003 TO 2 MARCH 2011

DUE DATE: 3 JULY 2011

AUTHOR: A. RAZA

STATE: NORTHERN TERRITORY

LATITUDE: 16°41'S - 16°52'S

LONGITUDE: 135°58'E - 136°5'E

MGA (EASTING): 603036ME - 615524ME

MGA (NORTHING): 8134994MN - 8155221MN

1:250,000 SHEETS: SE53-03 BAUHINIA DOWNS

1:100,000 SHEET: 6064 MALLAPUNYAH

COMMODITY: DIAMONDS

KEYWORDS: DIAMONDS, KIMBERLITE, ABNER PLATEAU, MCARTHRU BASIN, HMA SAMPLING, MMI SAMPLING, INDICATOR MINERALS, GEOPHYSICS, PHOTOGEOLOGY
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SUMMARY OF EXPLORATION ACTIVITIES
This combined annual and final report describes exploration activities conducted on the EL 23513 from its grant on 3rd of March, 2003 to expiry on 2nd of March, 2011 (Figure 1). The EL 23513 was granted to the Axis Consultants Ltd (Axis). Axis authorised Astro Diamond Mines (Astro) to manage exploration work. Astro placed it in its Calvert Hill Project and carried out initial phase of exploration in three stages. The entire exploration program was planned and implemented on project basis.

During the first stage, Astro acquired all relevant geological information comprising historical exploration data and publically available government geophysical and geochemical data. During the second stage, information received was thoroughly evaluated to generate targets and structuring of exploration program. During the third stage, identified targets were geophysically mapped. The aim of exploration was to explore for commercial source of diamonds.

In 2006, Legend International Holdings Inc. (Legend) was appointed to manage Abner Project. In the following year (2007), Legend became its owner and operator and continued with the planned exploration work until the surrender on 2nd March 2011. During Legend’s ownership, tenements remained part of the Abner Project. Legend conducted geophysical survey, heavy mineral analysis (HMA) sampling, rock chip and soil geochemical analysis programs and drilling targeting kimberlites. During exploration three consultants, a geophysicist, a photogeologist and a mineralogist, were engaged to provide professional input to the company’s acquired exploration data.

Figure 1: Exploration Index
**TENEMENT STATUS**

The EL23513 is a part of the package of tenements comprising Abner Project and was granted to the Axis Consultants Ltd on 3rd of March 2003, covering 69 sub-blocks (Figure 1). It was transferred to the Legend International Holdings, Inc on the 7 of June 2007 as a part of Dealing 92369. Legend held and managed the tenement prior to its expiry on 2nd March 2011. The tenement underwent four reduction deferrals at the second, fourth, fifth and sixth anniversaries. An application of renewal was lodged on 12 December 2008 and was approved on the 2nd February 2009. On 23 December 2010, an SEL application (SEL28528) has been submitted over this tenement which is still under consideration with the Department.

**LOCATION AND ACCESS**

EL23513 lies ~85km SW of Borroloola and ~40km west of Merlin Diamond Mine. The project area can be accessed from Cape Crawford located along the sealed Carpentaria Highway. Dirt roads and station tracks service the project area away from the main highway (Figure 2).

Established aviation facilities at Borroloola and McArthur River Mine offer an alternative means to approach the project. Land use in the region is predominantly pastoral leasehold for cattle grazing.

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![Figure 2: Location Map](image-url)
GEOLOGY

Regional Geology
All of the economic diamond deposits and other significantly diamondiferous occurrences in Australia occur on the North Australian Craton ("NAC"). The NAC comprises the Kimberley region of northern WA, the northern two thirds of the NT and the northwestern part of Queensland. It is also host to many significant base metal, gold and uranium deposits. The NAC was formed at about 1850Ma during the Barramundi Orogeny by the amalgamation of Archaean and early Proterozoic rocks that now form the basement to younger sequence. The younger sequence consists of Proterozoic (1820-1600Ma) platform cover sediments, Palaeozoic volcanics and sediments, and Mesozoic sediments.

The McArthur Basin is one of platform cover sequence which developed above the NAC between 1800-1500Ma. Its sedimentary package consists of unmetamorphosed and less intensely deformed rocks of carbonate, siliciclastic and interbedded volcanics deposited in a shallow intracratonic basin. This sedimentary sequence has been divided into four groups, the Tawallah, McArthur, Nathan and Roper Groups that are separated by regional unconformities.

Remnants of the Cambrian Bukalara Sandstone and the Cretaceous sediments of the Dunmarra Basin overlie the McArthur Basin. There is a widespread distribution of Cainozoic sandy soil, laterite and alluvium cover.

The major tectonic elements of the basin include the north-trending Batten Fault Zone and its northern equivalent the Walker Fault Zone separated by the east-trending Urapunga Fault Zone. The close association of base metal deposits and major structures in the McArthur Basin suggests that these fault zones provided an important control on mineralization.

The McArthur Basin hosts world-class lead-zinc-silver and copper deposits and several occurrences of smaller uranium and base metal deposits. A number of varying economic and sub-economic diamond-bearing kimberlite pipes have been discovered in the basin. They are part of sporadically occurring post-Cambrian volcanic activity on the NAC.

Local Geology
The EL23513 includes eastern part of the Abner Range Plateau and the western portion of the Bukalara Plateau. Rocks of McArthur Group crops-out in the northern part of the tenement. Sedimentary sequences of Nathan and Roper Groups dominate the geology in its southwestern portion where the tenement overlies the Abner Range Plateau (Figure 3).

The Cambrian Bukalara Sandstone that rests unconformably above the Middle Proterozoic McArthur Basin sequence crops out extensively within and beyond the eastern limit of the tenement. Bedrock units are commonly covered by laterite, laterite soil, and Quaternary deposits (Figure 3). Proterozoic basement units are faulted and gently folded.

Both Bukalara and Abner Plateaus are host to kimberlite pipes, therefore, are key target areas during the current phase of exploration. Due to the proximity to the other known kimberlite and base metals deposits and having all relevant geological features that control their occurrence, the project area is classified as highly prospective and holds excellent potential for another major discovery.
EXPLORATION

Previous Exploration
Historically, extensive diamond exploration work has been conducted over the Abner Range and surrounding areas of EL23513 (Figure 4). Major contributors in the region are CRAE and Ashton and more recently Gravity Diamonds. Each has carried out several phases of HMA and soil/loam sampling, geophysical surveys and drilling.

These sampling programs identified widespread distribution of microdiamonds and indicator minerals, mainly chromite grains. In most cases, the source of anomalous indicator mineral grains remained unknown. Gravity Diamonds, however, discovered the Abner Pipe, ABN21, in 2004 using a combination of geochemical investigations, Falcon Gravity and ground gravity surveys of the earlier identified anomaly by Ashton.

Following section describes exploration work on yearly basis conducted initially by the Astro (2003 to 2006) and subsequently by the Legend (2006 to 2011) on EL23513. It is important to note that most of exploration work was planned and executed on project basis.
Figure 4: Historical diamond exploration sampling data in the Calvert Hills Project area.

**Astro Diamond Mines Ltd**

During 2003-2006, exploration license 23513 was part of the Calvert Hills Project. The Calvert Hills Project comprises four sub-projects, Abner, Foelsche, Glyde and Selby. EL 23513 was a member of the Abner. The outline of the Calvert Hills Project is given in Figure 5.
2003-2004
During the first year of term, a comprehensive review of historic diamond exploration sampling and geophysical data from the entire Calvert Hills Project area was conducted. Past surface sampling in the region had identified microdiamonds and indicator minerals. Review process concluded that the EL 23513 has significant potential for discovery of kimberlite, a source rock for dispersed microdiamonds and indicator minerals.

The information for review process was derived from the available exploration data comprising ‘open file reports’ of past exploration activity, NTGS and company open file airborne geophysical survey and Landsat7 thematic mapper (TM) data. The data was available on CD-ROM by request to the NTGS. Topographic and geological maps at a scale of 1:250 000 were acquired in raster format as a base for projecting the data.

Astro acquired 1 million line kilometers of geophysical over the Northern Territory. Geophysical and open file data obtained was processed in house to identify prospective kimberlite targets. Maps produced containing diamond exploration sampling data and airborne geophysical data are provided in Figure 4 and Figure 6 respectively. All selected targets are shown in Figure 7. For further detail, see Astro Mining NL Annual Report for ‘Calvert Hills Project’ for 2002-2004.
Review process for Calvert Hills Project continued during the 2004-2005 reporting period. This included appraisal of geology and structure, results of historical drainage sampling and examination of previously generated stacked magnetic profiles. The data review highlighted several targets areas that warrant further follow-up (Figure 8).

Target selection and ranking was based on historical drainage sampling results. Those areas were selected where amount and distribution of diamonds matches well with the presence and abundance of coexisting indicator minerals. The idea was that diamonds and indicators are likely shedding from a same source in a discrete area, which could be further assessed by airborne electromagnetic survey. Further detail of review can be found in Astro Diamond Mines NL, Annual Report for ‘Calvert Hills Project’ for 2004-2005.
Figure 7: Identified exploration targets.

2005-2006

The assessment of the Clavert Hills Project highlighted targets in Foelsche, Selby and Abner for selective airborne EM survey (Figure 8). Within the Abner project, EL23118, a neighbouring tenement to EL23513, produced high-ranking anomalies and therefore mapped by airborne EM survey. No work however, was conducted on EL23513 during the 2005-2006 reporting period.
Figure 8: Locations of EM survey acquired during 2005.

Legend International Holdings

2006-2007

During 2006-2007, airborne HoistEM/magnetic survey was acquired over the EL23513 and other tenements within the Calvert Hills Project (Figure 9). The GPX Airborne was contracted to conduct the survey. Complete survey report comprising HoistEM system specifications, magnetic data specification and images of processed data was submitted to the Department; please refer to ‘Appendix 3 and 4, Legend International Holdings Inc., Annual Report for Calvert Hills Project for 2006-2007’.

The airborne HoistEM/magnetic data was interpreted to identify anomalies that are likely originating from a buried kimberlitic pipe. Twenty (ABEM8-1-ABEM8-20) HoistEM anomalies were selected and prioritised for field investigation. The list of identified anomalies is provided in Table 1.
<table>
<thead>
<tr>
<th>ANOMALY</th>
<th>E</th>
<th>N</th>
<th>GEOPHYSICAL RESPONSE</th>
<th>MAGNETIC</th>
<th>DEM</th>
<th>RANK</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABEM8-01</td>
<td>605488</td>
<td>8142461</td>
<td>no HEM response</td>
<td>weak</td>
<td>topo low</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-02</td>
<td>607496</td>
<td>8141965</td>
<td>CDI 35m-50m</td>
<td>none</td>
<td>topo low</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-03</td>
<td>606421</td>
<td>8143946</td>
<td>CDI 35m-60m</td>
<td>none</td>
<td>topo low</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-04</td>
<td>607114</td>
<td>8142418</td>
<td>CDI 35m-100m</td>
<td>moderate</td>
<td>elevated topo</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-05</td>
<td>607011</td>
<td>8142658</td>
<td>CDI 35m-100m</td>
<td>none</td>
<td>topo low</td>
<td>2</td>
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<tr>
<td>ABEM8-06</td>
<td>605291</td>
<td>8141168</td>
<td>no HEM response</td>
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<td>topo low</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-07</td>
<td>606416</td>
<td>8140310</td>
<td>last conductance</td>
<td>weak</td>
<td>topo low</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-08</td>
<td>606983</td>
<td>8141473</td>
<td>no HEM response</td>
<td>moderate</td>
<td>flank of elevated topo</td>
<td>2</td>
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<tr>
<td>ABEM8-09</td>
<td>605389</td>
<td>8140141</td>
<td>no HEM response</td>
<td>weak</td>
<td>topo low</td>
<td>2</td>
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<tr>
<td>ABEM8-10</td>
<td>606503</td>
<td>8141320</td>
<td>no HEM response</td>
<td>moderate</td>
<td>flank of elevated topo</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-11</td>
<td>606492</td>
<td>8141615</td>
<td>no HEM response</td>
<td>moderate</td>
<td>flank of elevated topo</td>
<td>2</td>
</tr>
<tr>
<td>ABEM8-12</td>
<td>607011</td>
<td>8143056</td>
<td>CDI 125m-150m</td>
<td>none</td>
<td>topo low</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-13</td>
<td>606907</td>
<td>8142494</td>
<td>CDI 125m-150m</td>
<td>none</td>
<td>elevated topo</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-14</td>
<td>607191</td>
<td>8142090</td>
<td>CDI 125m-150m</td>
<td>none</td>
<td>elevated topo</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-15</td>
<td>607404</td>
<td>8141364</td>
<td>CDI 150m</td>
<td>none</td>
<td>elevated topo</td>
<td>3</td>
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<tr>
<td>ABEM8-16</td>
<td>606907</td>
<td>8143209</td>
<td>CDI 125m-150m</td>
<td>none</td>
<td>topo low</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-17</td>
<td>606104</td>
<td>8143629</td>
<td>CDI 125m-150m</td>
<td>none</td>
<td>elevated topo</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-18</td>
<td>607294</td>
<td>8140698</td>
<td>last conductance</td>
<td>none</td>
<td>elevated topo</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-19</td>
<td>607600</td>
<td>8143056</td>
<td>last conductance</td>
<td>none</td>
<td>topo low</td>
<td>3</td>
</tr>
<tr>
<td>ABEM8-20</td>
<td>605608</td>
<td>8141408</td>
<td>CDI 35m-60m</td>
<td>none</td>
<td>topo low</td>
<td>3</td>
</tr>
</tbody>
</table>

Table 1: HoistEM anomalies
Figure 9: Map showing locations of geophysical surveys areas and drill holes projected on NTGS DIM database for Abner Project. Geophysical survey ‘Area 8’ mainly lies within EL23513.
2007-2008
During 2007-2008, focus of exploration shifted to other tenements within the Calvert Hills Project; therefore, no ground-based exploration activity was carried out on EL23513.

2008-2009
Encouraging results from the Abner Range tenements maintained exploration focus on the project during the 2008-2009 reporting period. Initially, helicopter supported HMA stream and termite-mound sampling program was conducted over EL23513. Three samples (ABHS2, ABHT2 and ABHS3) were collected for recovery of diamond indicator minerals (DIM) from a stream draining over an EM anomaly. All samples were found to be negative for diamonds and indicator minerals. Sample details including results are given in Table 2 and locations are shown in Figure 10.

<table>
<thead>
<tr>
<th>Sample No</th>
<th>Sample Type</th>
<th>Easting MGA53</th>
<th>Northing MGA53</th>
<th>Weight (Kg)</th>
<th>Fraction Searched</th>
<th>DIM Recovered</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABHS2</td>
<td>Stream</td>
<td>606837</td>
<td>8141837</td>
<td>60</td>
<td>-1.2 +0.3</td>
<td>None</td>
<td>Negative</td>
</tr>
<tr>
<td>ABHT2</td>
<td>Termite-mound</td>
<td>606968</td>
<td>8141429</td>
<td>60</td>
<td>-1.2 +0.3</td>
<td>None</td>
<td>Negative</td>
</tr>
<tr>
<td>ABHS3</td>
<td>Stream</td>
<td>606608</td>
<td>8142059</td>
<td>60</td>
<td>-1.2 +0.3</td>
<td>None</td>
<td>Negative</td>
</tr>
</tbody>
</table>

Table 2: Detail of HMA samples.

Figure 10: HMA stream and MMI samples locations collected during 2007-2008.

Concurrent to HMA sampling, 35 soil samples (ABMMI-135 to ABMMI-169) were collected over a small grid for MMI analysis (Figure 10). MMI Samples were collected proximal to HMA samples from a geographic depression situated close to an EM anomaly. The aim of MMI survey was two folds. Firstly, it would be able...
to display geochemical signature of a buried kimberlite pipe. Kimberlite chemistry differs significantly from the composition of host Proterozoic sedimentary lithologies. Secondly, to detect any sign of base metals occurrence in the area.

MMI samples were sent to the SGS Laboratory in Perth for measurement of suite of 10 elements (Ce, Co, Cu, Fe, Ni, Pb, Zn, Mg, Nb, Pd). Five samples, ABMMI-138, 144, 152, 159 and 163, were not dispatched as they were found to be unsuitable for analysis. No anomalous result was noticed from the acquired geochemical data. Laboratory results for MMI samples are given in Appendix 1.

**2009-2011**

EL23513 remained central to the exploration activities within the Abner Project. A comprehensive open-file review was conducted to generate and rank new and existing targets. Historic HMA samples data and inherited exploration data sourced from Gravity Diamonds was compiled into GBIS database system.

Two consultants—a geophysicist and a photogeologist, were engaged to provide independently detailed interpretation of geophysical and photogeological data from Abner and Legend’s other projects in the region. The objective was to delineate geophysical and litho-structural favourable targets that may host kimberlite pipes. Although these studies generated several targets to investigate but none of them was located in the EL23513.

Targets generated from the geophysical study are listed in Table 3 and are shown in Figure 11.

<table>
<thead>
<tr>
<th>ANOMALY</th>
<th>MGA_EAST</th>
<th>MGA_NORTH</th>
<th>TENEMENT</th>
<th>Field Evaluation/ Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB_KJ1</td>
<td>589107</td>
<td>8138125</td>
<td>EL23514</td>
<td>ABH000060 and ABH00061</td>
</tr>
<tr>
<td>AB_KJ2</td>
<td>594808</td>
<td>8139618</td>
<td>SEL26397</td>
<td>Slight depression, changes in lithology</td>
</tr>
<tr>
<td>AB_KJ3</td>
<td>593323</td>
<td>8137094</td>
<td>SEL26397</td>
<td>Requires field visit, access difficult</td>
</tr>
<tr>
<td>AB_KJ4</td>
<td>596737</td>
<td>8136459</td>
<td>EL23118</td>
<td>ABH000059</td>
</tr>
<tr>
<td>AB_KJ5</td>
<td>600972</td>
<td>8138475</td>
<td>EL23118</td>
<td>ABH000054</td>
</tr>
<tr>
<td>AB_KJ6</td>
<td>602571</td>
<td>8140069</td>
<td>EL23118</td>
<td>Requires field visit, access difficult</td>
</tr>
<tr>
<td>AB_KJ7</td>
<td>592569</td>
<td>8148385</td>
<td>SEL26397</td>
<td>ABH000088</td>
</tr>
<tr>
<td>AB_KJ8</td>
<td>586267</td>
<td>8147774</td>
<td>EL23993</td>
<td>ABH000062</td>
</tr>
<tr>
<td>AB_KJ9</td>
<td>585820</td>
<td>8150954</td>
<td>EL23993</td>
<td>Helicopter Program</td>
</tr>
<tr>
<td>AB_KJ10</td>
<td>584770</td>
<td>8142872</td>
<td>EL23993</td>
<td>Helicopter Program</td>
</tr>
<tr>
<td>AB_KJ11</td>
<td>597727</td>
<td>8146281</td>
<td>SEL26397</td>
<td>Field reconnaissance</td>
</tr>
<tr>
<td>AB_KJ12</td>
<td>598578</td>
<td>8144805</td>
<td>SEL26397</td>
<td>No work completed</td>
</tr>
</tbody>
</table>

Table 3: Abner Range Geophysical Targets from regional geophysics review
DISCUSSION

The EL23513 has been an important part of the exploration effort being conducted by the Legend International Holdings in the Northern Territory. It is one of the prospective licenses within the Abner Project for commercial source of diamonds.

A considerable exploration program has been conducted on EL23513 during 8 years of tenure, initially by Astro (2003-2006) and then by Legend (2006-2011). Suitable exploration tools were used with an aim to identify prospective targets that may hold kimberlite. Geophysical work included detailed interpretation of proprietary, historical company and semi-regional NTGS geophysical data and completion of HoistEM/magnetic survey. HMA sampling was conducted to find new indicator mineral targets. Geochemical survey comprises assaying of soil samples. Photogeological mapping was carried out to enhance litho-structural understanding of the area.

There is now a better understanding of variability of diamond indicator minerals mineralogy and their distribution pattern that exists in the region. It highlights the complexity involved to identify a specific location that may host a kimberlite pipe. Notwithstanding the unfavourable exploration outcomes achieved so far, a renewed effort with improved structural, geological, geomorphological and geophysical understanding gained during several phases of exploration programs in the area will yield positive results.

An SEL application has been lodged with the Department over EL23513 to gain sufficient time for further exploration.
Figure 12: Map depicting extent of areas covered by geophysical review and photogeological mapping by two consultants.
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Astro Diamond Mines Limited, Joint Annual Report for Exploration Licences: EL22244, EL22245, EL22246, EL22247, EL22251, EL22252, EL22351, EL23116, EL23117, EL23118, EL23119, EL23121, EL23510, EL23511, EL23512, EL23513, EL23514 and EL23515, Calvert Hills Project, for the period 3 March 2005 to 2 March 2006.

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Legends International Holdings Inc., Joint Annual Report for Exploration Licences: EL25491, EL25616, EL25617, EL22244, EL22245, EL22246, EL22247, EL22251, EL22252, EL22351, EL23116, EL23117, EL23118, EL23119, EL23121, EL23510, EL23511, EL23512, EL23513, EL23514 and EL23515, Calvert Hills Project, for the period 3 March 2007 to 2 March 2008.

Legends International Holdings Inc., Combined Technical Report GR140/09: SEL26397, EL23117, EL23118, EL23513, EL23514, EL24285, EL24286, EL23993, EL26404, EL22307, EL23931 Calvert Hills Project, for the period 3 August 2009 to 2 August 2010.
APPENDIX 1
Geochemical Data
MMI Results

(see attached file: EL23513_2011_F_01_SurfaceGeochem)