

# Technical Reporting

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|---|---|
| <b>Tenure:</b>                                    | <b>EL31143 – Relinquished Portion</b>       |
| <b>Group Report ID:</b>                           | NA  |
| <b>Title:</b>                                     | FINAL REPORT RELINQUISHED PORTION           |
| <b>Report Period:</b>                             | 08 /05/2017 to 11/05/2022                   |
| <b>Project Name:</b>                              | Roper Heavy Minerals Project                |
| <b>Title Holder:</b>                              | Roper Ilmenite Pty Ltd                      |
| <b>Title Operator:</b>                            | Roper Ilmenite Pty Ltd                      |
| <b>Personal Author:</b>                           | John Niaouris                               |
| <b>Report Type:</b>                               | Final – Relinquished Portion                |
| <b>250K Mapsheet/s:</b>                           | Urapunga                                    |
| <b>100K Mapsheet/s:</b>                           | Throsby and Benda                           |
| <b>Geological Province:</b>                       | N/A   |
| <b>Stratigraphic Name:</b>                        | N/A   |
| <b>Target Commodity:</b>                          | Ilmenite                                    |
| <b>Other Commodities:</b>                         | NIL   |
| <b>Purpose for which Titles <u>were</u> held:</b> | Investigate for Mineable Ilmenite Potential |

## **Title history:**

EL31143 was granted on 8th May 2017 and covered 250 sub-blocks. 166 Sub-blocks were relinquished on 11 May 2022. Desk top studies led to the decision to focus the lease on the Dolerite intrusions and relinquish the siltstone/sandstone portion of the lease.

Map Showing sub-blocks relinquished and subject to this report as well as sub-blocks kept are shown in Figure 1.

The relinquished sub-blocks are listed in Table 1.

## **Location, physiography and access:**

EL31143 is approximately 120km east of Mataranka in the Roper River Basin of the Northern Territory, adjacent to the Roper Highway that provides all-weather access from the Stuart Highway. Further access is provided by networks of unsealed, dry season station roads, tracks and cleared fence lines. Sealed airstrips at Ngukurr to the east and Minyerri to the south provide all weather access for fixed wing and helicopter medivac and survey operations. See Figure 2.

**Geology Setting:**

The sandstone, siltstone and ferruginous siltstone of the Bessie Creek Sandstone, Corcoran Formation and Munyi Members, of the Roper Group, have been intruded by Sills of Derim Derim Dolerite. The formation as a whole has been folded and faulted.

The local Geology in relation to EL31143, prior to partial-relinquishment, is shown in Figure 3.

Desk top studies led to the decision to focus the lease on the Dolerite intrusions and relinquish the siltstone/sandstone portion of the lease.

**Exploration/Mining History:** N/A

There has been no exploration conducted on the relinquished 166 sub-blocks.

**Exploration Rationale:**

There was no rationale to further explore , or to keep, the relinquished portion.

**Work Completed:** N/A**Results:** N/A**Conclusions/Recommendations:**

The Sandstone and Siltstone portions of EL31143, a total of 166 sub-blocks, were relinquished on 11 May 2022.

**Copyright Statement:**

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**PLEASE ATTACH LOCATION MAP SHOWING ANY RELEVANT FEATURES**

Following are three Figures (Figures 1, 2 and 3) and 1 Table (Table 1) mentioned in the body of the report:

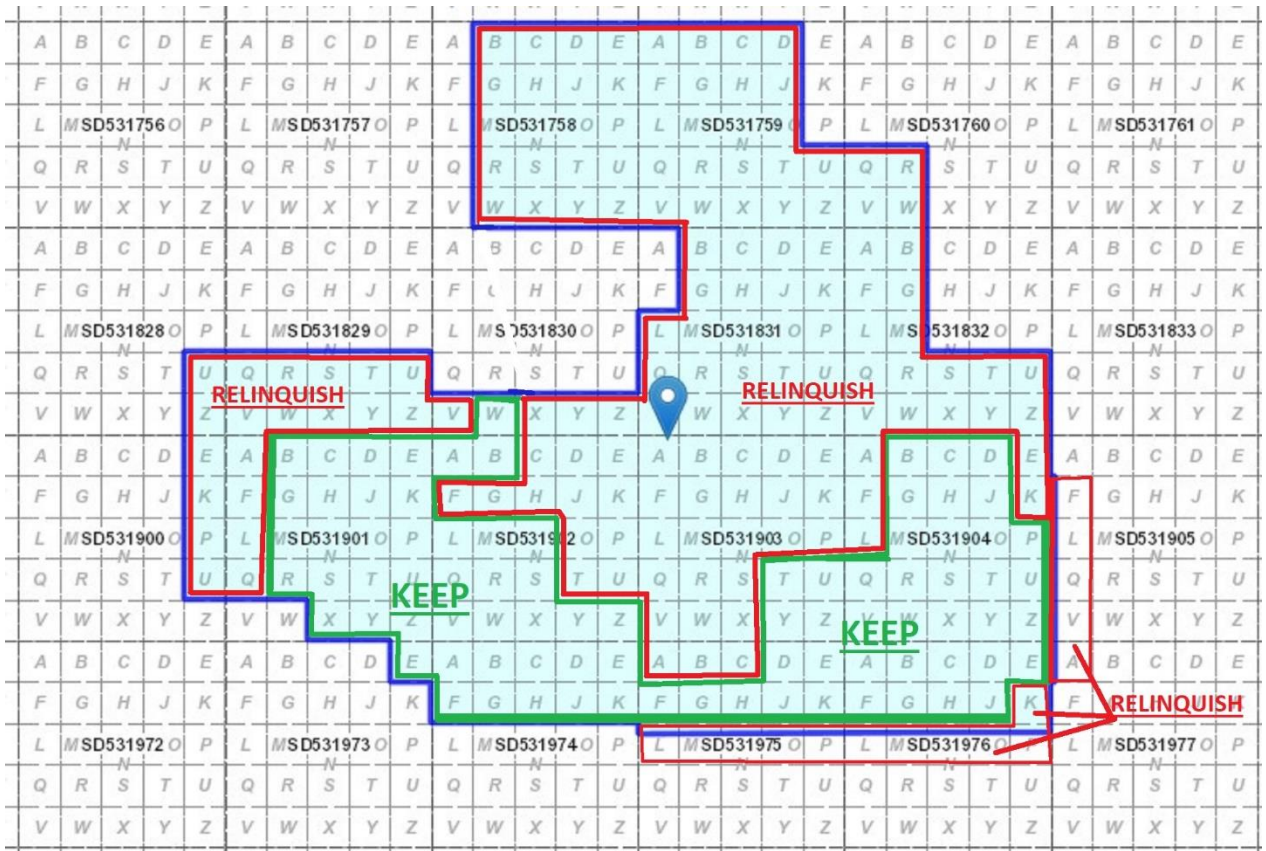


Figure 1: Diagram of Roper Ilmenite's EL31143 Sub-Blocks Relinquished (and the subject of this final report) shown in Red. Those kept shown in Green.

**EL31143 RELINQUISH**

| COUNT | BLOCK    | SUB-BLOCK | COUNT | BLOCK    | SUB-BLOCK | COUNT | BLOCK    | SUB-BLOCK | COUNT | BLOCK    | SUB-BLOCK |
|-------|----------|-----------|-------|----------|-----------|-------|----------|-----------|-------|----------|-----------|
| 1     | SD531758 | B         | 43    | SD531760 | Q         | 86    | SD531832 | A         | 122   | SD531903 | A         |
| 2     | SD531758 | C         | 44    | SD531760 | R         | 87    | SD531832 | B         | 123   | SD531903 | B         |
| 3     | SD531758 | D         | 45    | SD531760 | V         | 88    | SD531832 | F         | 124   | SD531903 | C         |
| 4     | SD531758 | E         | 46    | SD531760 | W         | 89    | SD531832 | G         | 125   | SD531903 | D         |
| 5     | SD531758 | G         | 47    | SD531828 | U         | 90    | SD531832 | L         | 126   | SD531903 | E         |
| 6     | SD531758 | H         | 48    | SD531828 | Z         | 91    | SD531832 | M         | 127   | SD531903 | F         |
| 7     | SD531758 | J         | 49    | SD531829 | Q         | 92    | SD531832 | Q         | 128   | SD531903 | G         |
| 8     | SD531758 | K         | 50    | SD531829 | R         | 93    | SD531832 | R         | 129   | SD531903 | H         |
| 9     | SD531758 | M         | 51    | SD531829 | S         | 94    | SD531832 | S         | 130   | SD531903 | J         |
| 10    | SD531758 | N         | 52    | SD531829 | T         | 95    | SD531832 | T         | 131   | SD531903 | K         |
| 11    | SD531758 | O         | 53    | SD531829 | U         | 96    | SD531832 | U         | 132   | SD531903 | L         |
| 12    | SD531758 | P         | 54    | SD531829 | V         | 97    | SD531832 | V         | 133   | SD531903 | M         |
| 13    | SD531758 | R         | 55    | SD531829 | W         | 98    | SD531832 | W         | 134   | SD531903 | N         |
| 14    | SD531758 | S         | 56    | SD531829 | X         | 99    | SD531832 | X         | 135   | SD531903 | O         |
| 15    | SD531758 | T         | 57    | SD531829 | Y         | 100   | SD531832 | Y         | 136   | SD531903 | P         |
| 16    | SD531758 | U         | 58    | SD531829 | Z         | 101   | SD531832 | Z         | 137   | SD531903 | Q         |
| 17    | SD531758 | W         | 59    | SD531830 | V         | 102   | SD531900 | E         | 138   | SD531903 | R         |
| 18    | SD531758 | X         | 60    | SD531830 | X         | 103   | SD531900 | K         | 139   | SD531903 | S         |
| 19    | SD531758 | Y         | 61    | SD531830 | Y         | 104   | SD531900 | P         | 140   | SD531903 | V         |
| 20    | SD531758 | Z         | 62    | SD531830 | Z         | 105   | SD531900 | U         | 141   | SD531903 | W         |
| 21    | SD531759 | A         | 63    | SD531831 | B         | 106   | SD531901 | A         | 142   | SD531903 | X         |
| 22    | SD531759 | B         | 64    | SD531831 | C         | 107   | SD531901 | F         | 143   | SD531904 | A         |
| 23    | SD531759 | C         | 65    | SD531831 | D         | 108   | SD531901 | L         | 144   | SD531904 | E         |
| 24    | SD531759 | D         | 66    | SD531831 | E         | 109   | SD531901 | Q         | 145   | SD531904 | F         |
| 25    | SD531759 | F         | 67    | SD531831 | G         | 110   | SD531902 | C         | 146   | SD531904 | K         |
| 26    | SD531759 | G         | 68    | SD531831 | H         | 111   | SD531902 | D         | 147   | SD531904 | L         |
| 27    | SD531759 | H         | 69    | SD531831 | J         | 112   | SD531902 | E         | 148   | SD531905 | F         |
| 28    | SD531759 | J         | 70    | SD531831 | K         | 113   | SD531902 | F         | 149   | SD531905 | L         |
| 29    | SD531759 | L         | 71    | SD531831 | L         | 114   | SD531902 | G         | 150   | SD531905 | Q         |
| 30    | SD531759 | M         | 72    | SD531831 | M         | 115   | SD531902 | H         | 151   | SD531905 | V         |
| 31    | SD531759 | N         | 73    | SD531831 | N         | 116   | SD531902 | J         | 152   | SD531975 | A         |
| 32    | SD531759 | O         | 74    | SD531831 | O         | 117   | SD531902 | K         | 153   | SD531975 | B         |
| 33    | SD531759 | Q         | 75    | SD531831 | P         | 118   | SD531902 | O         | 154   | SD531975 | C         |
| 34    | SD531759 | R         | 76    | SD531831 | Q         | 119   | SD531902 | P         | 155   | SD531975 | L         |
| 35    | SD531759 | S         | 77    | SD531831 | R         | 120   | SD531902 | T         | 156   | SD531975 | M         |
| 36    | SD531759 | T         | 78    | SD531831 | S         | 121   | SD531902 | U         | 157   | SD531975 | N         |
| 37    | SD531759 | U         | 79    | SD531831 | T         |       |          |           | 158   | SD531975 | O         |
| 38    | SD531759 | V         | 80    | SD531831 | U         |       |          |           | 159   | SD531975 | P         |
| 39    | SD531759 | W         | 81    | SD531831 | V         |       |          |           | 160   | SD531976 | K         |
| 40    | SD531759 | X         | 82    | SD531831 | W         |       |          |           | 161   | SD531976 | L         |
| 41    | SD531759 | Y         | 83    | SD531831 | X         |       |          |           | 162   | SD531976 | M         |
| 42    | SD531759 | Z         | 84    | SD531831 | Y         |       |          |           | 163   | SD531976 | N         |
|       |          |           | 85    | SD531831 | Z         |       |          |           | 164   | SD531976 | O         |
|       |          |           |       |          |           |       |          |           | 165   | SD531976 | P         |
|       |          |           |       |          |           |       |          |           | 166   | SD531977 | A         |

Table 1: Sub-Blocks of EL31143 Relinquished

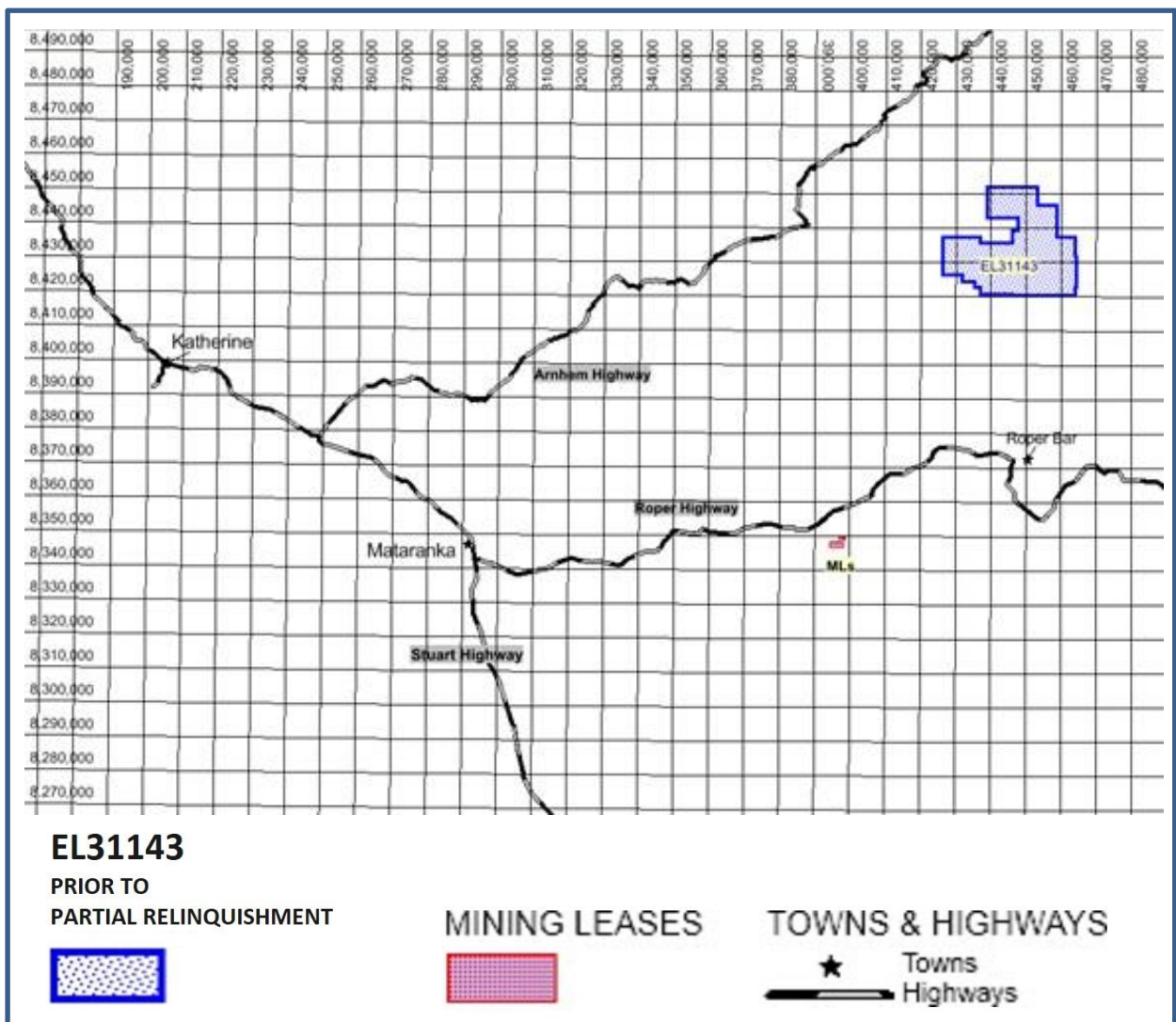


Figure 2: Roper Resource's EL31143, PRIOR TO PARTIAL RELINQUISHMENT, shown in relation to AIR's two MLs, as well as Regional Towns and Highways. Refer to Figure 1 for Relinquished and Unrelinquished portions.

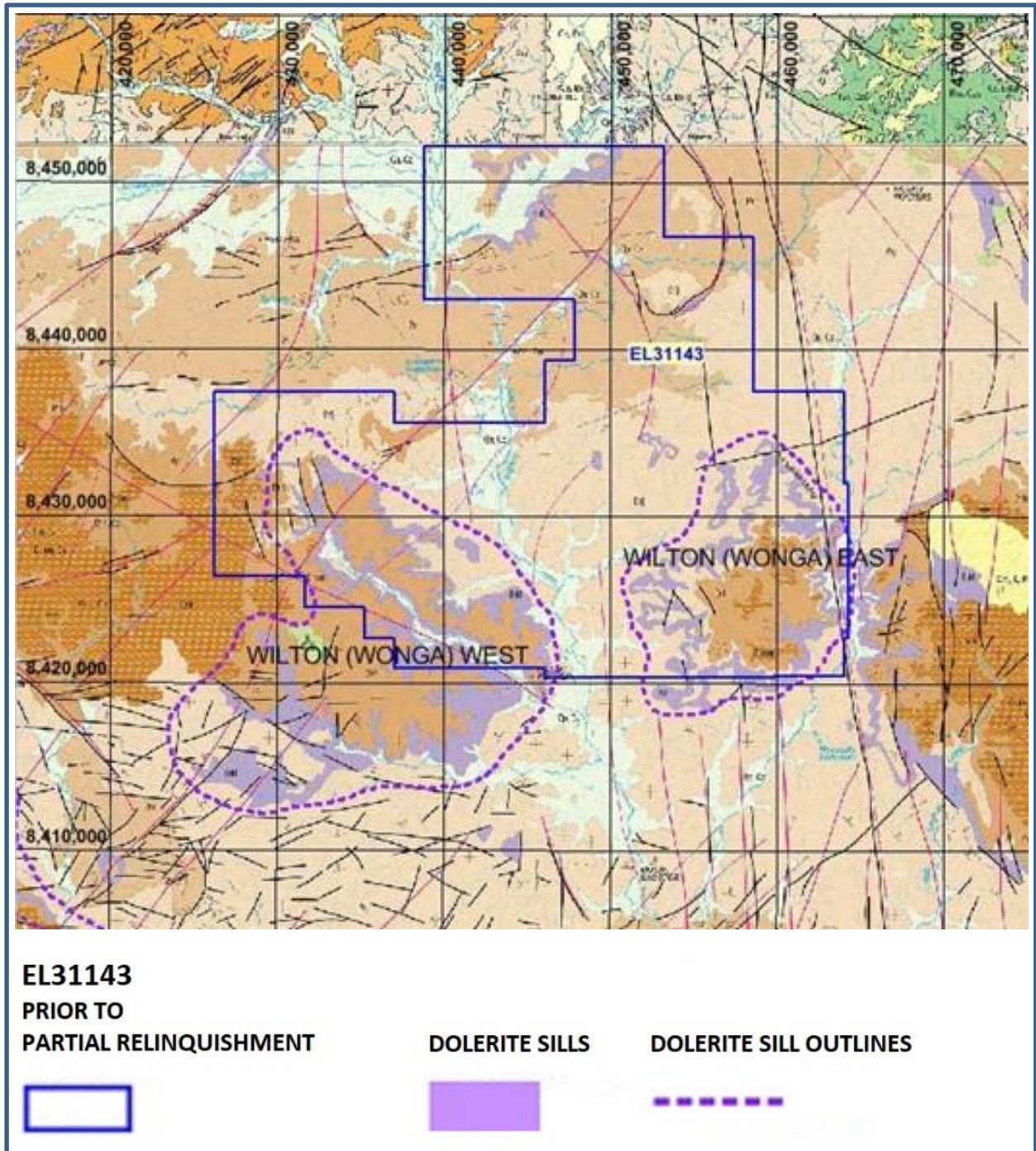


Figure 3: Local Geology EL31143 PRIOR TO PARTIAL RELINQUISHMENT showing Derim Derim Dolerite (Purple). Areas with significant Dolerite were kept and the rest with only Sandstone/Siltstone or insignificant Dolerite relinquished (Refer to Figure 1).