

489001

Q2/6.  
DKSG

REPORT ON

E. L. 13/75

PART 2

HELD BY

KIBUKA MINES PTY. LTD.

75-1132.

T. I. NEALE

NOVEMBER '75.

001

## SUMMARY AND CONCLUSIONS

This section of E. L. 13/75 which covers 8 km<sup>2</sup> has been examined using a comprehensive scout drilling program. Assay results show the heavy mineral content of the sands in this area have an average grade of 0.17%. No zones of heavy mineral concentration were detected. The mining of sands containing such a low percentage of heavy mineral is considered to be uneconomic at present or in the future.

Kibuka Mines Pty. Ltd., wishes to relinquish Part 2 of E. L. 13/75 when the licence is next renewed.

### DRILLING

Scout drilling was carried out along 10 lines, 400m apart, running east west.

Holes were drilled at 50m intervals along these lines commencing 50m west of the high water mark.

The drilling methods used were hand augering and sludging. A total of 3224 feet were drilled and 650 samples were taken.

Attached is the drilling plan and drill hole results.

### ANALYSIS

Kibuka Mines Pty. Ltd., uses standard sink float separation and grain counting methods to assay all drill hole samples.

Analysis of the heavy mineral fractions showed that the relative proportions of individual minerals are similar to those in other areas.

--2--

Magnetics	60 - 70%
Rutile + Zircon	15 - 20%

These assay results indicate the percentage of R + Z in the ground would average 0.034%. This value is very low. At present, the sand being mined at Naracoopa, has an R + Z grade of greater than 1.5%.

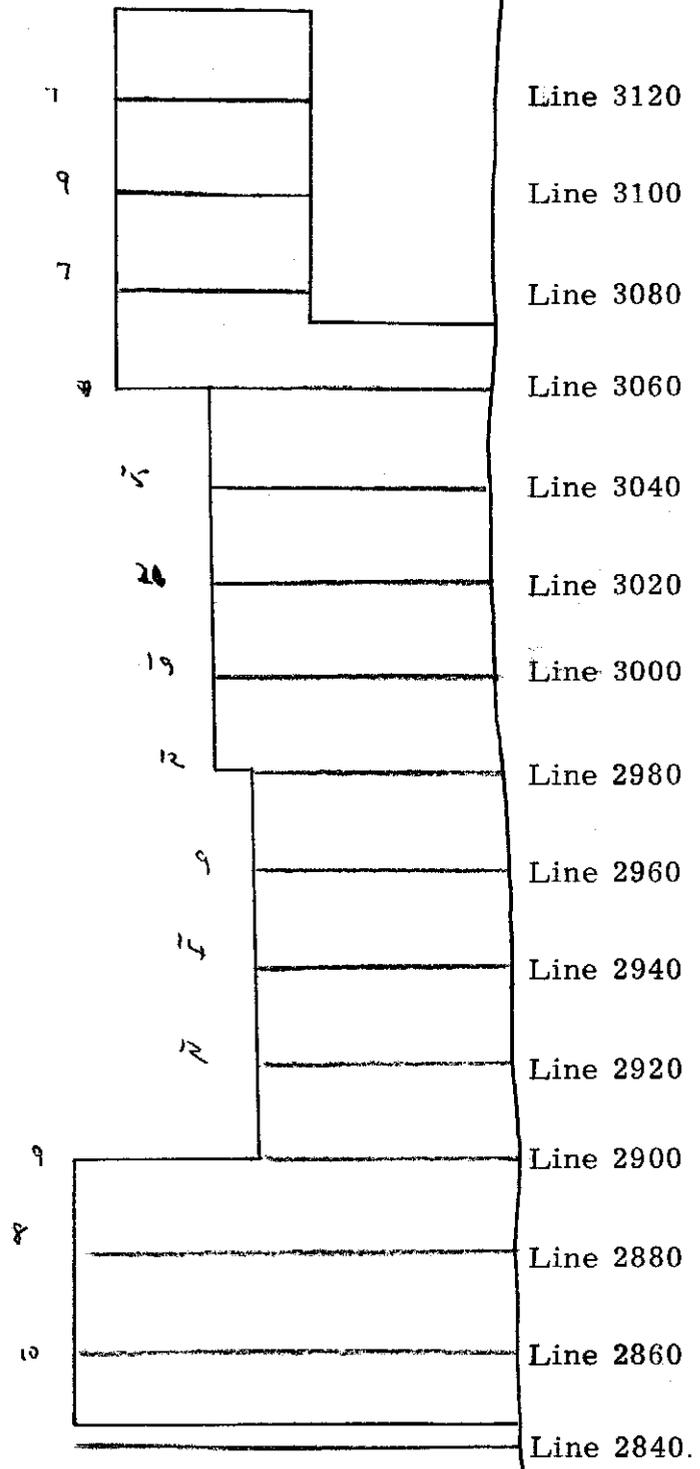
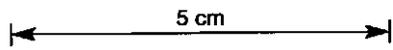
If consideration is also given to the transportation of concentrate from this area to Naracoopa, the grade of sand would have to be considerably greater than 0.034% R + Z in the ground, before mining would be economically viable.

*D. White*  
19/11/75

DRILLING PLAN FOR E. L. 13/75

Scale: Two Inches to a Mile

LAVINIA POINT.



LINE 3120

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
16	0- 5	0.38
	5-10	0.40
	10-15	0.24
	15-20	0.14
17	0- 5	0.16
	5-10	0.10
	10-15	1.14
	15-20	0.04
18	0- 5	0.06
	5-10	0.10
19	0- 5	0.14
	5-10	0.06
	10-15	0.12
20	0- 5	0.12
	5-10	0.08
21	0- 5	0.14
	5-10	0.12
22	0- 5	0.18
	5-10	0.14
	10-15	0.08

005

LINE 3100

489006

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
16	0- 5	0.28
	5-10	0.36
	10-15	0.48
17	0- 5	0.18
	5-10	0.28
	10-15	0.10
	15-20	0.06
	20-25	0.14
18	0- 5	0.08
	5-10	0.06
	10-15	0.14
19	0- 5	0.12
	5-10	0.08
20	0- 5	0.08
	5-10	0.18
	10-15	0.06
	15-20	0.14
21	0- 5	0.10
	5-10	0.06
22	0- 5	0.12
	5-10	0.16
23	0- 5	0.04
	5-10	0.10
	10-15	0.14
24	0- 5	0.10
	5-10	0.90
	10-15	0.14

006

489007

LINE 3080

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
16	0- 5	0.44
	5-10	0.30
	10-15	0.22
	15-20	0.10
	20-25	0.16
17	0- 5	0.40
	5-10	0.20
	10-15	0.10
18	0- 5	0.16
	5-10	0.16
	10-15	0.06
19	0- 5	0.10
	5-10	0.14
20	0- 5	0.10
	5-10	0.10
	10-15	0.16
21	0- 5	0.30
	5-10	0.20
	10-15	0.22
	15-20	0.14
	20-25	0.24
22	0- 5	0.12
	5-10	0.14

007

489008

LINE 3060

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
1	0- 5	0.04
	5-10	0.04
	10-15	0.08
	15-20	0.16
2	0- 5	0.02
	5-10	0.04
	10-15	0.04
	15-20	0.02
3	0- 5	0.02
	5-10	0.02
	10-15	0.08
	15-20	0.06
4	0- 5	0.02
	5-10	0.02
	10-15	0.04
	15-20	0.20
5	0- 5	0.04
	5-10	0.18
	10-15	0.20
	15-20	0.08
6	0- 5	0.02
	5-10	0.04
	10-15	0.02
	15-20	0.04
7	0- 5	0.02
	5-10	0.06
	10-15	0.06
	15-20	0.56

008

489009

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
8	0- 5	0. 02
	5-10	0. 04
	10-15	0. 04
	15-20	0. 20
	20-25	0. 12
9	0- 5	0. 02
	5-10	0. 20
	10-15	0. 20
	15-20	0. 10

009

LINE 3040

489010

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
1	0- 5	0.06
	5-10	0.04
	10-15	0.30
	15-20	0.04
2	0- 5	0.04
	5-10	0.02
	10-15	0.02
	15-20	0.04
3	0- 5	0.04
	5-10	0.12
	10-15	0.10
	15-20	0.04
4	0- 5	0.14
	5-10	0.06
	10-15	0.18
5	0- 5	0.04
	5-10	0.08
	10-15	0.08
	15-20	0.06
6	0- 5	0.40
	5-10	0.06
	10-15	0.06
	15-20	0.14
7	0- 5	0.02
	5-10	0.08
	10-15	0.08
	15-20	0.08
8	0- 5	0.12
	5-10	0.08
	10-15	0.06
	15-20	0.20

010

489011

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
9	0- 5	0.08
	5-10	0.14
	10-15	0.24
	15-20	0.20
10	0- 5	0.20
	5-10	0.12
	10-15	0.20
	15-20	0.30
11	0- 5	0.06
	5-10	0.26
	10-15	0.70
	15-20	0.46
12	0- 5	0.10
	5-10	0.78
	10-15	1.10
13	0- 5	0.52
	5-10	0.28
	10-15	0.32
	15-20	0.20
	20-25	0.04
	25-30	0.56
	30-35	0.06
14	0- 5	0.14
	5-10	0.08
	10-15	0.18
	15-20	0.20
	20-25	0.08
15	0- 5	0.28
	5-10	0.10
	10-15	0.10

LINE 3020

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
1	0- 5	0.02
	5-10	0.10
	10-15	0.04
	15-20	0.10
2	0- 5	0.06
	5-10	0.04
	10-15	0.10
	15-20	0.10
3	0- 5	0.06
	5-10	0.08
	10-15	0.08
	15-20	0.10
4	0- 5	0.02
	5-10	0.06
	10-15	0.10
5	0- 5	0.02
	5-10	0.08
	10-15	0.06
	15-20	0.08
6	0- 5	0.04
	5-10	0.12
	10-15	0.14
7	0- 5	0.04
	5-10	0.20
	10-15	0.16
	15-20	0.26
8	0- 5	0.04
	5-10	0.04
	10-15	0.16
	15-20	0.22

012

489013

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
9	0- 5	0.10
	5-10	0.16
	10-15	0.30
	15-20	0.54
10	0- 5	0.04
	5-10	0.36
	10-15	0.54
11	0- 5	0.16
	5-10	0.30
	10-15	0.80
	15-20	0.90
12	0- 5	0.12
	5-10	0.06
	10-15	0.16
	15-20	0.12
13	0- 5	0.16
	5-10	0.08
	10-15	0.18
	15-20	0.12
14	0- 5	0.20
	5-10	0.26
	10-15	0.22
	15. 20	0.26
15	0- 5	0.48
	5-10	0.34
	10-15	0.12
	15-20	--
16	0- 5	0.26
	5-10	0.20
	10-15	0.10
	15-20	0.14

013

489014

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
17	0- 5	0.04
	5-10	0.14
	10-15	0.24
18	0- 5	0.16
	5-10	0.16
19	0- 5	0.06
20	0- 5	0.12
	5-10	0.04
	10-15	0.22
21	0- 5	0.06
	5-10	0.10
	10-15	0.42
	15-20	0.08

014

LINE 3000

489015

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
1	0- 5	0.04
	5-10	0.06
	10-15	0.06
	15-20	0.06
2	0- 5	0.06
	5-10	0.08
	10-15	0.04
	15-20	0.04
3	0- 5	0.02
	5-10	0.06
	10-15	0.08
	15-20	0.12
4	0- 5	0.08
	5-10	0.08
	10-15	0.04
5	0- 5	0.04
	5-10	0.06
	10-15	0.04
6	0- 5	0.02
	5-10	0.08
	10-15	0.08
	15-20	0.16
7	0- 5	0.08
	5-10	0.20
	10-15	0.16
	15-20	0.18
8	0- 5	0.06
	5-10	0.20
	10-15	0.48
	15-20	0.32

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015

489016

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
9	0- 5	0.08
	5-10	0.16
	10-15	0.36
10	0- 5	0.12
	5-10	0.32
	10-15	1.00
	15-20	0.58
11	0- 5	0.24
	5-10	0.32
	10-15	0.08
	15-20	0.10
	20-25	0.10
	25-30	0.12
	30-35	0.08
	35-40	0.18
12	0- 5	0.60
	5-10	0.30
	10-15	0.40
	15-20	0.28
	20-25	0.40
	25-30	0.30
	30-35	0.60
13	0- 5	0.28
	5-10	0.32
	10-15	0.36
	15-20	0.20
	20-25	0.24
14	0- 5	0.06
	5-10	0.40
	10-15	0.08
15	0- 5	0.40
	5-10	0.24

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U16

489017

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
16	0- 5	0.08
	5-10	0.10
	10-15	0.30
	15-20	0.56
17	0- 5	0.40
	5-10	0.14
	10-15	0.48
	15-20	0.12
18	0- 5	0.06
	5-10	0.12
	10-15	0.20
19	0- 5	0.04
	5-10	0.10
	10-15	0.14

017

LINE 2980

489018

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
5	0- 5	0.02
	5-10	0.04
	10-15	0.06
6	0- 5	0.02
	5-10	0.10
	10-15	0.12
	15-20	0.10
7	0- 5	0.06
	5-10	0.10
	10-15	0.10
	15-20	0.20
	20-25	0.08
8	0- 5	0.12
	5-10	0.12
	10-15	0.34
	15-20	0.30
9	0- 5	0.06
	5-10	0.14
	10-15	0.24
10	0- 5	0.18
	5-10	0.06
	10-15	0.10
	15-20	0.08
	20-25	0.08
11	0- 5	0.22
	5-10	0.60
	10-15	0.44
	15-20	0.42
	20-25	0.16
	25-30	0.12
30-35	0.12	

018

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
12	0- 5	0.14
	5-10	0.24
	10-15	0.20
	15-20	0.12
	20-25	0.20
	25-30	0.24
	30-35	0.24
13	0- 5	0.06
	5-10	0.08
	10-15	0.08
14	0- 5	0.06
	5-10	0.06
	10-15	0.12
15	0- 5	0.06
	5-10	0.16
16	0- 5	0.08
	5-10	0.10

019

489020

LINE 2960

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
5	0- 5	0.02
	5-10	0.06
	10-15	0.10
6	0- 5	0.06
	5-10	0.10
	10-15	0.12
	15-20	0.38
7	0- 5	0.06
	5-10	0.08
	10-15	0.30
	15-20	0.42
8	0- 5	0.10
	5-10	0.10
	10-15	0.24
	15-20	0.20
9	0- 5	0.10
	5-10	0.30
	10-15	1.50
	15-20	0.68
10	0- 5	0.10
	5-10	0.10
	10-15	0.06
	15-20	0.10
	20-25	0.08
	25-30	0.10
11	0- 5	0.06
	5-10	0.08
	10-15	0.08

(...../2)

020

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
12	0- 5	0.04
	5-10	0.04
	10-15	0.04
	15-20	0.06
13	0- 5	0.02
	5-10	0.08
	10-15	0.04

021

489022

LINE 2940

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
5	0- 5	0. 02
	5-10	0. 10
	10-15	0. 20
	15-20	0. 34
6	0- 5	0. 10
	5-10	0. 14
	10-15	0. 20
	15-20	0. 76
7	0- 5	0. 16
	5-10	0. 22
	10-15	0. 34
	15-20	0. 60
8	0- 5	0. 12
	5-10	0. 16
	10-15	0. 46
	15-20	0. 44
9	0- 5	0. 06
	5-10	0. 04
	10-15	0. 06
	15-20	0. 08
	20-25	0. 06
	25-30	0. 12
	30-35	0. 06
10	0- 5	0. 02
	5-10	0. 10
	10-15	0. 12
	15-20	0. 02

LINE 2940

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
11	0 - 5	0.04
	5 - 10	0.04
	10 - 15	0.06
	15 - 20	0.08
	20 - 21	0.10
12	0 - 5	0.04
	5 - 8	0.07
13	0 - 5	0.02
	5 - 10	0.06
	10 - 15	0.06
	15 - 16	0.10
14	0 - 5	0.02
	5 - 10	0.04
	10 - 15	0.04
	15 - 20	0.06
15	0 - 5	0.04
	5 - 10	0.04
	10 - 15	0.04
	15 - 17	0.05
16	0 - 5	0.04
	5 - 10	0.04
	10 - 15	0.06
	15 - 17	0.05
17	0 - 5	0.04
	5 - 9	0.10
18	0 - 5	0.09
	5 - 6	0.20

023

489024

LINE 2920

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
1	0 - 5	0.08
	5 - 10	0.26
	10 - 15	0.18
	15 - 20	0.30
2	0 - 5	0.08
	5 - 10	0.04
	10 - 15	0.12
	15 - 20	
3	0 - 5	0.04
	5 - 10	0.06
	10 - 15	0.10
	15 - 18	0.13
4	0 - 5	0.04
	5 - 10	0.06
	10 - 14	0.08
5	0 - 5	0.04
	5 - 10	0.14
	10 - 15	0.12
	15 - 20	0.26
6	0 - 5	0.08
	5 - 10	0.12
	10 - 15	0.06
	15 - 20	0.34
	20 - 23	0.40
7	0 - 5	0.04
	5 - 10	0.12
	10 - 15	0.06
	15 - 20	0.30
	20 - 25	0.24
8	0 - 5	0.04
	5 - 10	0.08
	10 - 15	0.04
	15 - 20	0.08
	20 - 25	0.10

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024

489025

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M</u>
9	0 - 5	0.04
	5 - 10	0.06
	10 - 15	0.02
	15 - 20	0.04
	20 - 25	0.10
	25 - 30	0.06
	10	0 - 5
5 - 10		0.20
10 - 15		0.14
15 - 20		0.08
20 - 25		0.08
25 - 30		0.08
11		0 - 5
	5 - 10	0.10
	10 - 15	0.08
	15 - 20	0.14
	20 - 25	0.14
	25 - 30	0.16
	30 - 35	0.16
12	0 - 5	0.04
	5 - 10	0.14
	10 - 15	0.14
	15 - 20	0.04

025

LINE 2900

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u> 489026
4	0 - 5	0.52
	5 - 10	0.40
	10 - 15	0.34
5	0 - 5	0.16
	5 - 10	0.18
	10 - 15	0.12
	15 - 20	0.76
	20 - 25	0.74
6	0 - 5	0.12
	5 - 10	0.26
	10 - 15	0.08
	15 - 20	0.44
7	0 - 5	0.22
	5 - 10	0.24
	10 - 15	0.28
	15 - 20	0.20
8	0 - 5	0.28
	5 - 10	0.40
	10 - 15	0.28
	15 - 20	0.12
	20 - 25	0.20
	25 - 30	0.16
9	0 - 5	0.06
	5 - 10	0.12
	10 - 15	0.20
	15 - 20	0.14
	20 - 25	0.18
	25 - 30	0.16
10	0 - 5	0.08
	5 - 10	0.08
	10 - 15	0.10
	15 - 20	0.14
11	0 - 5	0.02
	5 - 10	0.10
	10 - 15	0.08
	15 - 20	0.06
12	0 - 5	0.12
	5 - 10	0.06

026

489027

LINE 2880

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
4	0 - 5	0.10
	5 - 10	0.38
	10 - 15	0.22
5	0 - 5	0.10
	5 - 10	0.10
	10 - 15	0.14
	15 - 20	0.34
	20 - 25	1.94
6	0 - 5	0.30
	5 - 10	0.30
	10 - 15	0.40
	15 - 20	1.04
	20 - 25	0.48
7	0 - 5	0.14
	5 - 10	0.06
	10 - 15	0.10
	15 - 20	0.08
	20 - 25	0.10
	25 - 30	0.06
30 - 35	0.16	
8	0 - 5	0.06
	5 - 10	0.20
	10 - 15	0.14
9	0 - 5	0.02
	5 - 10	0.16
	10 - 15	0.22
10	0 - 5	0.08
	5 - 10	0.20
	10 - 15	0.16
	15 - 20	0.10
	20 - 25	0.10
11	0 - 5	0.04
	5 - 10	0.22

027

LINE 2840

489028

<u>Hole No.</u>	<u>Depth</u>	<u>% H. M.</u>
4	0 - 5	0.08
	5 - 10	0.12
	10 - 15	0.50
5	0 - 5	0.10
	5 - 10	0.12
	10 - 15	0.32
	15 - 20	0.42
6	0 - 5	0.10
	5 - 10	0.18
	10 - 15	0.22
	15 - 20	0.08
	20 - 25	0.42
7	0 - 5	0.24
	5 - 10	0.36
	10 - 15	0.30
	15 - 20	0.20
	20 - 25	0.40
	25 - 30	0.06
	30 - 35	0.12
8	0 - 5	0.10
	5 - 10	0.16
	10 - 15	0.14
	15 - 20	0.12
	20 - 25	0.12
9	0 - 5	0.02
	5 - 10	0.10
	10 - 15	0.16
	15 - 20	0.12
	20 - 25	0.10
10	0 - 5	0.06
	5 - 10	0.06
11	0 - 5	0.22
	5 - 10	0.08
12	0 - 5	0.12
	5 - 10	0.20
	10 - 15	0.24
13	0 - 5	0.06
	5 - 10	0.26
	10 - 15	0.22
	15 - 20	0.20