NATURAL GRAPHITE

WITHIN THE AFRICAN REGION

PRESENTED BY

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JONKEL CARBONS & GRAFITES(PTY)LTD

RSA
GRAPHITE DEPOSITS
UNDER THE AFRICAN SUN
ABOUT JONKEL CARBONS

• Jonkel Carbons was formed in May 2008 with the aim of exploiting opportunities which goes with Graphite Mining and Manufacturing.
• It all started when a Brother of the Tribal Chief approached me with a sample of unprocessed Graphite.
• The outlook of the sample encouraged me to send it for lab tests and I was encouraged.
• As I continued to work on that Project, I developed more and more interest until I put all my focus to the Graphite Industry.
• Hence the formation of Jonkel Carbons and Grafites(Pty)Ltd. The name Jonkel was my father’s given name and he used to work for Rio Tinto’ PMC.
JONKEL BUSINESS INTEREST

• The company has interest in both mining and manufacturing.
• Geographically, Our manufacturing interest is in South Africa.
• In mining, We identify deposits and promising occurrences in South Africa and Africa.
• It is also the company’s interest to trade in Graphite within and outside the African continent.
• Our vision is to be part player in minimizing Graphite import to South Africa and export some to other countries.
OCCURRENCES IN SOUTH AFRICA

• We identified five provinces out of nine with Graphite occurrences in South Africa.
• While interesting deposits are concentrated in north of the country, Limpopo Province, two other provinces cannot be ruled out.
• The Limpopo Province alone has at least a reported sixty seven (67) Graphite occurrences.
THE STEAM BOAT GRAPHITE DEPOSIT

• The Steam Boat Deposit is located north of Limpopo near the Botswana border.
• Lot of professional work was done on the deposit mainly by Government Parastatals.
• Steam Boat has an estimated Grade of 8.8% CC and flakes of about 2mm.
• The estimated reserve is about 3.5 MT and there is enough water and electricity.
• It is located on community land.
THE GOODHOPE DEPOSIT

• This Deposit is located on the Soutpansberg mountain ranges in the Limpopo Province.
• Less professional work was done by Govt Parastatals.

Above is the video snap shot of the Deposit.
• The deposit was founded by Transvaal Graphite Company in 1905.
• The Grade is estimated at 63% CC.
• The deposit was exploited by Mr Hudson using simple method of mining around 1935.
• He transported his Graphite by ox wagon to the nearest railway station which is about 20 miles from the deposit and to Johannesburg.
• The operations stopped after he was bitten by a snake near the mine.
• There is trace of the same Graphite on the mountain ranges within the same vicinity.
• The area was not accessible and we worked with local Government to open roads.
• Roads to access the deposit are open but they need to be graded and also the construction of bridges.
• There is enough water and electricity.
• Mr J.W Brandt, the State geologist who visited the deposit on 28 November 1939 described the Graphite there as follows: MASSIVE GRAPHITE WHICH IS INTERSPERSED WITH PATCHES AND TRAVERSED BY VEINLETS OF FLAKE AND COLUMNAR GRAPHITE.
• Samples are available on request.
• The deposit is located on community land.
OCCURRENCES IN OTHER AFRICAN COUNTRIES

• In exception of Madagascar and Zimbabwe which has existing Graphite mines, there are Graphite occurrences in the following countries: a) Angola.
  b) Botswana.
  c) Ethiopia.
  d) Kenya.
  e) Malawi.
  f) Mozambique.
  g) Namibia.
  h) Tanzania.
  i) Swaziland.
  j) Uganda.
  k) and Zambia.
ANGOLA

• The deposit is located in a small town of Chongoroi.
• The town is in Benguela Province.
BOTSWANA

- Graphite is deposited at Moshaneng in Southern Botswana.
- It is found in dolomites and Graphitic schists.
- It is also found in similar rocks near the Bushman mine in the Phudulooga area.
ETHIOPIA

• The Moyale deposit has flake Graphite and is located outside the town of Moyale in Southern Ethiopia.
• The grade is estimated at 7 – 11% CC.
• The total mineral resource is estimated at 450 000 tons.
KENYA

• The Chawia deposit is located in the Tsavo region.

• The main Graphitic horizon stretches from 6-10 meters in thickness for several kilometers.
MALAWI

- Katengeza and Chimutu Graphite deposits are located in Central Malawi.
- The grade at Katengeza is estimated at 5.83 CC while the total reserve is estimated at 2.7 MT.
MOZAMBIQUE

• Graphite in Mozambique occur in seven Provinces: a) Cabo delgado.
  b) Niassa.
  c) Nampula.
  d) Zambezia.
  e) Tete.
  f) Manica.
  g) Sofala.
NAMIBIA

• The Black Range deposit is located 38km west of Usakos near Walvis Bay.
• The grade is estimated at 4.63%CC while the total reserve is estimated at 12.46 MT.
• The Okanjande is located about 14km south west of Otjiwarongo town.
• Estimated reserve is 36.11 MT with an average grade of 4.3%CC.
• Percentage flake to powder: crystallised flake 55%, powders 45%.
TANZANIA

• The Merelani Deposit is located in Arusha, Northern Tanzania.
• It has an average grade of 20%CC.
• The Graphite rich section is about 10-20m in thickness.
• Graphite also occur 10km south east of Nachingwea, west of Mtwara.
• It has an average grade of 20%CC just like in Merelani.
SWAZILAND

• The deposit is located in the Hlatikulu area.
• Graphite is deposited in schists.
UGANDA

• Graphite occur in gneisses west of the Nile River.
• The estimated grade is 25%CC.
• The Zeu Deposit is located in the Nebbi District.
• The Matidi Deposit is located in the Kitgum District.
• And the Acholibur Deposit is also located in the Kitgum District.
ZAMBIA

• The Njoka Graphite is located 53km west of Lundazi town.
• It has an average grade of 11.7% CC.
• The deposit has an estimated reserve of 48,880 tons.
• The Kajumba Deposit lies in remote Chama District.
• It has an average grade of 26.63%CC and an estimated reserve of only 6000 tons.
The Lynx Graphite Mine is located within the Karoi Region.

Within the same District there are three more deposits: a) Graphite King. 
  b) Juma. 
  c) Silaka Kaswaya.

The average grade of the Graphite next to Lynx is 33-36%CC.
PICTURES FROM KAROI
I THANK YOU ALL
SEE YOU NEXT CONFERENCE