The magnetite deposits of A and B.

Loma Malambre of the attached map

At M. Situated ont Dechetween D and Db, in the southern part of F
and in the upper E region, a magnetite deposit was found, the quantities
of which seem to be large. A minor one occurs at the locality of B, some
so km SE of T. North of the localities Manager
Lower Halambre
Lower Halambre

The situation of the localities Avand B can be found on the Official Maps 1: 2 000 000 and 1: 500 000, and on the maps of the Hague Reports 4501 and 5112, scale 1:100 000.

Anemographic

being about 120 m above sealevel. Wis about 20 km distant from the formation a larger river.

the mouth of the in E.In dry time is navigable for small launches; in this latter river.

the rainy season(april to November), it can be semounted by 100 to 200 to boats. Datis navigable for motor canoes, and is 50 to 80 m wide. Malambre, passing & and B.

At present, a main road between G and H/is under construction. From G, it had been constructed as far as K(mouth of L in M)and from K here the M river downstream as far as N. From O, connecetd by road with P and Q, the road advanced to R(see 1:1 000 000 sheet of Am. Geogr. Soc.).

Being a main road, it is continued under the present conditions.

Loma Malambre squattry

Avitself is uninhabited; some small amers are established at the foot.

Survey. - ** Could not be surveyed by normal measurements, partly due to strong influence of the ore on the compass. On the E side of **, the trail from D to Db has been fixed by Tape and Compass and this survey has been extend along a small creek toward the foot of the magnetite mass of **.

From this creek toward NW, a reconnaissance trip(half an hour) was made to package from the foot of the magnetite mass of the foot of the magnetite mass o

Il Quenosa

western boundary was met with on a canoe trip along Da.

The sketch, attached to Dr. Trumpys report has been drawn according to these general informations. The limonite zones around the foot of the Long * were not included in the ore zone.

General Afeatures.

Loma Malambre and B are situated along absone of peridotites and correspondent extrusives which follows more or less the E flank of the C. Both deposits occur in peridotites and give the impression of magmatic sigregations precipitations. The deposits occur only locally as shown by the fact that they were not found in the intermediate zones of peridotite outcrops.

Lome Malambre Moloks to be a targe compact mass, while B may be a 2

Oxe: Loma Malambre 3 me.

A mass

The observations made within the polygon of the sketch, indicates the ore to compose completely the steep & hill. In fact, along the NE and NW trails of the polygon, exclusively magnetite ore was seen where outcrops occur. Exposures are frequent on the trails themselves the creeks where they form walks of cascades up to 10 m high. I was really surprised to see such huge magnetite masses at one spot.

In the NW part of the polygon and on the steps of thetrail, the ore sheets show a clear, gentle SE dip coinciding with the general dip of the sediments in the surrounding area.

The surrounding sediments correspond to the Volcanic formation intruded by the peridotite mass. The ege of the formation is either Eocehe or Upper Cretaceous.

The quality of the ore is shown in Dr. Trumpy's report. It will be added that yellowish green skins of garnierite are found on partings of the peridotite. Platinum is reported to occur in the upper # region.

As to the quantity of ore, the estimated ore surface is about 1

At the million of square metres. This possibly is/reduced eifre, since the

wakking timing along the trails of the polygon indicate a larger

distances than assumed. On the other hand, the S and N boundaries are

uncertain.

Avis 200 to 300 m high; a vertical ore thickness of 50 m will be adopted. The density of the ore will be considered as 5.

Thus, the quantity of ore may be about 250 millions of tons.

B mass.

At B, the ore looks rather like a limonite layer and for this reason.

Its magnetic influence was stated hater. disconnected no attention was paid to it/In the northern section, a zone of nearly

I km is covered by blocks of this ore, situated also in peridotite.

Farther S, patches of ore boulders indicate its local ocurrences.

No estimation of the ore quantity can be given in this case, The ecumulated blocks in one of the creeks may be derived from a relatively large mass.

Other ocurrences to the W.

A black, heavy ore is said to occur in large quantities to the upper course of rio U, between the debouchures of V and W

Coal.

000

in the some over

Very large quantities of coal can be obtained from rio E, upstream X, as far as Y(R.4501). There are seams ranging from 0,7 m to 2m thickness, with gentle dips, or flat. The coal is Oligocene in age and probably of the same kind as that of Antioquia (analysis in Grosse: Terciario Carbonífero de Antioquia), of which several seams give coke.

The coal formation also appears E and SW of Day.

Within the coal formation, more or les sandy limestone beds occur, up to 3 m thick.

Bogotá, April 21st, 42

Haustan Poborski Stanislaw Poborski

Key for names on the sketch 1:10 000.

Instead	d of quebrada Arenoso	read	quebrada Uré
	Arenoso	n	(Puerto(-Boca)Uré
	Loma Malambre	11	cerro Matoso
-	Malambre	H	finca Matoso
	Maria	H	Margarita
	quebrada Maria	11	quebrada Margarita
	El Recreo		El Retiro
	Mulato	n	house of Argumeda

Abbreviations in the Text

Abbreviations in the text.

A = cerro Matoso

B = Noteopongas

C = SkerrSerrania de San Jerónimo

D = Uré village Da= quebrada Uré

Db= Puerto Ure(Boca Uré)

E = rio San Jorge

F = departamento de Bolivar

G = Medelin

H = Cartagena

I = Barranquilla

K = Puerto Vadivia

L = rio Valdivia

M = rio Cauca

N = rio Pescado

0 = Sahagun

P = Sincelejo

Q = Magangué

R = Colomboy

T = Manta

U = rio Sbnú

V = rio Verde

W = rbo Esmeralda

X = Santo Domingo

Y = quebrada Tolová