Roeport dup "La Azteca" La Verde" Copper Claims. ms are dituated about ten miles, in a direchtine, of 75.0 & from the City of Alarmos in the State of Sonora, Mexico; or about fourteen miles by the presentroad. The ranch on which They are found is called botherillos; ets Geographical position being bengnear-ly, 27. 12! North Latitude and 6. 33! Longeticle, West of Melity of Mexico. The attitude at the ranch is about 12 out above sea level. His about suffy (60) miles by wagon road from Ageabampso, The nearest Sea Port. The nearest running Stream is the archerague arroyo, four miles to the West and two hundred fr. (200) lower, where the road crosses it. Fotrerellos is sit. uated among the first group of scattering foot-

hells, going East from the Coast; and Conse quently easily accessible by either railroad or wagon road. The highest hills in the vi-Civily are notover 2, oor feet above sea level. From its Geographical position one will readily see that the climate will be almost semi-tropical; which, with its attitude, quarantees a climate That leaves little to be desured as a place of residence. The Seasons are two: The Rainy and the Dry The rainy Season Commences about July first and Continues till October first to fifteenth. From October to July is called the dry sea-Son; Through the Winter, rains can usually be counted on, for fifteen to twenty days, some time between December fifteenth and Feb. ruary festeenth . The Climate from October first to May first leaves nothing to be desired; the extreme temperatures being about 40° and 80° Far. From May first to October first the extremes interreperatures are about

50° and 100°; this latter being much tempered during July, August and September by the rains. The average annual rain fall is about twenty miches. Mosquitoes and other troublesome insects are scarce and rarely bothersome; the proof. being, that one never sees a mosquito bar in the country. The surrounding Country consists of low rolling hells separated, for the most part, by narrow balleys. The hells in -Crease to mountains to the East; and run into low rolling mesas (tables) to the West. The formation, for the most part, consists of Testiary Lavas and Tufas and altered Undesites. The drainage all leads to the West into the alarmos arroyo ten miles away; and through it, South, into the Juette river. The general aspect in the vicinity of Votrevillos is anything but inviling, especialby during the dry beason. There is little soil

covering the rocks, consequently pasturage The vegetation consists, in the main, of underbrush among scattering trees. These latter belong to the "Tierra Caliente" bell, as the Oak belt is not reached here. The Tierra Caliente trees most abundant that would furnish fuel, are, Brazil, (Logwood) Manto, Mesquite, Amapaand several others; but those most noticeable are those named, and in the order named. The Mesquite is found along the arrayos creeks andruns), but the Brazil is found (somewhat Scraggy) even on the Barren rocks. Though the Country is fairly well covered with begetation, Still fuel, in the immediate vicinity of the claims, is very scarce. However, The Country can be drawn on for miles around, by means of good wagon roads; especially in a westerly and Southeely direction. The wood, Though small in our, is of the hard varieties and makes good fuel

The Potrerillos ranch occupies a basin about one mile long by one halfmile wide; The long ayes being East and West and The short North and South . The main inlet drainage is the Plomosos arroyo, coming from the N.E. and from the main foot hill range, some ten miles away; draining, in its route, several similar basins. The orelles of the Potrerillos basin is in the N. W. side, through a narrow Canon; where a retaining dam Could be built, 100 ft. high if desired, on solid rock, about 40 ft. wide on the bottom and, not exceeding, 500 ft. wide on the top. The Azteca tedge Cuts a cross the South Easteren side of the basin, throughout its entire length, or nearly amile. Greston 1., Creston 2. and Gerrs de la bruz (see map) sticking up above the brush and markedly visible from the ranch house near the Canon, half a mile away. The berro de la bruz is particularly noticecopper stains; green and blue From a 6

distance it looks like a bluff or crest of pure copper ore. The Surveyor took it to be such and included it in section 14/see map). The fact is though, that here the ledge being less hard has eroded and Crumbled away; and The Cerro de la bruz is simply the foot wall; which, being much broken up, readily admitted the Copper Solutions to penetrate the fractures and precipitate the copper contained in them. Though seeming at a curson glance, to be rich Copper ore, in realety it is of little value. In fact, after examining it very carefully, deonse dered it of so lettle value that I did not take a sample.

E. It dips to the N.W., Being almost vertical; having a dip of about 80°. It is a true fissure vein undoubtedly, though the surface indications would be ad one to believe it a contact. For the most part the gangue is a pure quartz; though

at the Pozo-Verde", Section 1, and Gerro de la briz, Section 14, (see map) the ganque is composed of mineralized lava and general Country rock, with some quarts in Section 14. The width as Post Verde Cannot be estimated. The gangue is a lava impregnated with Carbonate of Copper. It is much broken up transverse ly. Between the transverse seams are en-Countered streaks of pure sulphide ore from one to live inchesthick. Ageneral sample of the seam uncovered, some 4 ft. wide, assayed 1029 % copper. A general sample from ore, much power, from what seemed to be a wall, assayed 21/2%. None of the rich ove from a streak wastaken. From Pozo Verde to Breston 1. The ledge is covered with dufa, and only comes to the Surface in a prominent crest, just over the Divide, in Section 3, marked breston Nº 1. on map. Here the hanging-wall has

decomposed and been washed away, leaving the ledge stripped and sticking in the air some 40 ft, in the highest part. The convedente tranging-wall is a volcanic Conglomerate or Jufa, Thougha later flow of lava covers this and runs almost up to the ledge here. The foot-wall is a very much altered andesite. The ganque is soled quarts carrying Copper and crow. In section 3, on top, the ledge is from 10 to 15 ft. wide, but seems to widers and must be some 30 ft. wide at foot of bluff in same section. In section 4. it reduces to about 10 ft again. The quartz on the foot-wall, for bor 8 ft, carries a large per centrof iron and only about 2% copper (assay 4). Hook a general sample of the burely copper rock and another of the lower grade; and as the two represented about equal parts of The ledge, leaving out the distinctively iron quarty I mijed them. This assayed 41/2%

(assay Nº 3.), and is a fair average sample of 10 ft. of the ledge on top. I broke about a ton of rock from the ledge at foot of bluff which, with many tous bying around, will assay somewhat high-el; being much more highly impregnated. I hardly think it will run less than 7 % or 8 %. Though thought samples, I did nor have Them assayed. The character of The ore here is a selicate of copper; and Thave some specimens of this one that Suggest 50% Copper. In Section 5 The ledge desappears on the surface; but breaks out strong in Section 6, or treston Nº 2. Here, as in Breston 1, the hangingwall has disappeared and the ledge is stripped for a couple of hundred feet with its strike; and for 50 ft. vertically. Nere the ledge is fully 50 ft; but, is mostly pure quarts. Though Copper is apparent Throughous the whole, Still a large proportion

of the ledge would assay very low. However, a seam of blue carbonate one that Can be estimated as 6 feet unde, in South end of Section 7, assays in copper, about 8% (see assay Nº5). From Section y on throughout Section 9, The ledge crops out strong on the surface some 10 ft urde. From Section 7 to 14/Each Section represents a Mexican Mining Claim, 100 X 100 metres square = 247 acres) the Comtry is quite level. Altitude about 1300 ft. In Section 14, at foot of berrode la brus! Stook a sample of what appeared to be a verymuch aftered Country work slight ly stained with Copper Carbonate. This assayed 154 % in Copper From 14 to-21 the ledge does not appear on the surface. At the point By see map) between Sections 18 and 19, a strong

rearly North and South with dip to the 8. about 75%. It only comes to the surface

In this one place and is about 8 thuride. The one is a carbonate and sulphide of copper impregnated with ferric oxide. Little or no quartz gangue excepting a streak on the foot-wall. A sample taken across the ledge at this place assayed 627 % Copper (see assay No 1.).

"Soa Verde"- This ledge les about 125 metres to the N. 8. of the North end of Loa Azteca" It cropsoul strongly on the surface in Sections 5 and 1. (see map). It is about four feet wide on the Surface; but indications suggest that Unders going down . Its strike is N. 31° 30! E. Astronomic, with its dip to the East about 70". The walls are volcarie conglomerate or Jufa. Its ganque consists of a treccia carrying Carbonate and Julphide of Copper. Atthorough general Sample from about middle of Section 1. assayed 857 To in Copper . From a blast put in ou

mules to the N.E., accessible to a wagon road, are large lead ledges, at a place Called Plomosos: The roads to Potrerillos, both from Alamos and the Coast, are in a native State; but a few thousand dollars would put them in a transitable condition. The road from Agiabampo "The Sea Port, whether wagon or rail, would follow about the same route and be about The same length. The general direction would be a little & of North From Agiabampo the route would be about N. E. for 25 miles, across almost a level Country, to the Capitahuasa" Pass; from here, It down to the Hamos arrayo, a little below San Vicente, for about 5 miles. Along the course of the Alamosarroys, on the present main wagon road, a little W. of M. For about 20 miles to Jerocoa.

From Jerocoa, across Country, almost N. for ten miles, to Potrerillos or La Azteca". A good wagon road from the Coast to "La Azteca" would coshone mile with another, about \$300.00 silver per hile. A narrow gauge Railroad between the same points would be all of bomiles long and would cost, at a rough estimate, equipped, \$ 14.000.00 gold permile. 1/2 % would be the maximum grade; and the mean, about 1/2 of 190. The safety of general travel can not be equalled in the the United States.

A Company working these mines would draw its laborers, miners, etc. from neighboring Alamos, one of the largest miboring Alamos, one of the largest mihing towns on the Coast. General laborers can be had for one dollar silver ber day; miners from \$175 to \$2.02 silver; nothing Carpenters, masons and Blacksmiths for \$300 maginum per day in silver. Samples and Analysis, of the Los Bronces Coat Sonora, Mexico, -200 miles north of Topolobampo.

Samples were taken from the clean faces of Coal, at or near the headings of the various workings examined and were carefully tested, with the following results:-

Water Street Str	and the second second second second second					the state of the s
	Butry II.	Spiling Q	Butty F.	Sity B.	Shtry A.	Sample from dump on South side of tack.
Water -	7,550%	7.60%	7.825%	9.275%	10,025%	5.00%
tick matter	4.565		3.393			4.331
Gued Carbon	76,740	79.020	82,292	76,554	78.940	85,270
Joh .	10,925	8,525	6.175	5.600	6.250	5,060
Outphilov-	0,220	0,360	0,3/5	0,542	0.27	0.339
Thosphorus.	0.083	0,069	0,021	0.051	0.148	0,234
The coat burns freely on grate with natu-						

The coal burns freely on grate with natural drawate, with short flame and normoke and its phissical or actives, especially that of the Coal from the South side of the gulet.

are such as to bear considerable handling. An average of several determinations gives specific gravity 1,74. The quality of the coal, as shown by the analysis, varies slightly, but an average of all the analysis of coal from South side of arch, gives the following: 7.600 Vol. Comb. matter-4.260 Fixed Carbon. 80,453 Ash -7.387 Julphier ... 300 100,000 Phosphorus ./31 Pennsylvania anthracite from the Lackawan na regions analyses, as follows: 3,421 - 4,381 Fixed Carbon. 83,268 Ash - - -- 8.203 Bulthur - -. .727 Phosphorus -100,000 - 0.010

List of persons who put up\$ 250.000., in April 1895, to bry an Onyy mine and short piece of railward in Mexico. but could not get them: Hon, Charles F. Oresp. Ex Speaker-Americas, Georgia Hon Joseph D. Sayres-Ey Governor-Bastrop, Mass. Hon. James D. Richardson, Murpeerborough, Tenn. Hon. Jacob Le Fever. New Paltz, New York. Hon Lafayette Pence, Kinderhook N. Y. Hon Moses J. Stevens, North Andover, Mass.

Hon J. Frank Aldrich, Chicago, Illinois.
(Republican)

My dear Stor Owen: Thand you over a report by Mr. Juan Cleury, No. 8. of the State Doft. of Formento on the Jacambaro Ming. Zone which comprises 96 Claims or an area of 237 acres of mineral ground. The mines of the Jacambara Ming Jone are not opened up much and the old workings are partially caved in They require There fore some development works to show tun properly up, but the minesbeing on the same formation and on the same lange of mountains as the Inguaran mines as ear be seen by the outer oppings, Their value will undoubtedly be very large after a small eifpense is made to develop Them. A report on the Inguaran mines by the Same Mng. Engineer, Mor. Heury is accompanying the Jacambaro fling. Jone as they are outredely of the Dame Characler. Asym are aware, The Inquaran mines have been sold lately to the Roth childrof Paris who are to organize a Company with a Capital of 30 million Francs, and are abready locating a railroad from their mines to connect with the Nex-cean Central and Mey. Hat. Railway System and

with the Coast. This road will benefit very largely our Mng. Jone and give to it an immense value astransportation has been The only cause of leaving This mineral region undeveloped for sucha longtime. My proposition to your fiends will be on the following basis: 1st. Your friends to pay \$ 2.000 lb. J. Currency for a working bond of one year, provided they do work for not less than \$3.000 U.S. currency the different mines. 2nd. Your friends to pay \$3.000ll. S. currency for a working bond of Dyears, provided They dowork for nor less than \$5.000 U.S. currency during said period to open up more fully the different mines. 3rd In either Case if They decide to brughe mines, they are to pay the sum of \$20.000 lls S.curretry and 40% of the Stock on bransfer of the property. The Company to have the right to pay \$ 50.000 lla C. Currency in lieu of the 40% of Stock.

Memorandum. Tepustete Iron Mine. the largest English Furnaces you already have the Tepustete Iron ore is superior to the ores for which Eastern works send to Cuba, and ongland sends to Spain, for blends. It is the only one for this purpose on The Jacific Coast, and Superior to any that has been found elsewhere. The one can be loaded from the mine Finto ships by ledgerwood cable atrate, if desired, of too lons per hour. There are 1.200.000 lons engineers estimates, actually in sight, and the here is stronger at the deep working than on the surface. At the regiest of the Japanese Government have just sent on statement of price at which ore Could be delivered to them either at San Diego or at mines. With their estimated height rales The ore can be laid down in Japan for less Than than they have offered for from Atlantic sea board. The Japanese Commissioner, Sho

Nemolo, who visited me lately to get parti-Culars, states that his government will use an enormous quantity of the Tepustele ore as they are going largely into a manufacture of won and their own over are valueless without this for a blend. They took over a quantity of depustele ore one year ago for experiment and used it for this purpose. The ore can be delivered here at Jan Diego for \$3.00 per tow the freight rate to Japan is \$3.00. The pice for inported ore seven units poorer than depustele, at New York was, three years ago, 86.50. The Japanese estimate their own ore Costs \$2.00. Jour tons of it \$8.00. The one tou of depustete for blend \$6.0. Fotal \$14.50 for the five tons or less than \$3.00 perton for what makes first class pig. At Seattle They are now making good coke for furnace use for four dollars. Previous to the Phyan scare they were negotiating for depusher ore thousand model basent to use There. A minimum net profet on Tepustele one wherever it mightbe sent would be one dollar perton and with better markets double that.

The main vein at several hundred feet depth is ten feel thick in good walls. There are three other veins on the ground, and one vein of manganese which runs feftytwo per cent and \$440 gold and silver. I have lately had a letter from the Carnegie Company offering to take all of the latter unshipped at the mine. As manganese is eagerly sought for this would sell at the mine for al least \$6:00 perton. In the experimental cutting Thave taken outeight hundred tons. The vein is strong and well defired. It will take about \$25.000. to squip the mine to load directly into vessels, break up the ore etc. of the estimates of both foreign and American engineers are correct the mine will yet pay better Man any gold mine on the Coast.