The history of the Chivor emerald mine in Colombia is rife with legend and adventure. The tale traces from early exploitation by indigenous people, to work by the Spanish in the sixteenth and seventeenth centuries, to 200 years of abandonment and jungle overgrowth. The story then picks up with rediscovery near the turn of the twentieth century by the Colombian mining engineer Francisco Restrepo using clues from a historical manuscript. Still the saga continued, with repeated shortages of investment funds driving multiple ownership changes and little progress toward mining the largely inaccessible deposit. The German gem merchant Fritz Klein, in cooperation with Restrepo, pursued limited mining activities with a small number of workers for a few months prior to the outbreak of World War I. After the war, the American company Colombian Emerald Syndicate, Ltd., took ownership, and mining operations resumed under the new leadership. Ownership changed yet again in the 1920s, followed by multiple cycles of expanding and shrinking mining activity, interrupted by completely unproductive periods.

The foregoing outline of the story, as presently known, has been drawn largely from three books authored by individuals who led the mining activities at Chivor during different eras: German gem merchant Fritz Klein, South African mining engineer Peter W. Rainier, and American gem hunter and buyer Russell W. Anderton. All three men wrote in a style to highlight the adventurous nature of the work. Klein's memoir covered the period from approximately 1911 to 1923 and was initially published in 1941, with a slightly updated version released in 1951. Rainier's narrative chronicled from the second half of the 1920s to the early 1930s and was printed in 1942. Anderton's work, coming to press in 1953 in the United States and 1954 in the United Kingdom, recounted activities of the late 1940s and early 1950s.

The events presented in the three books have, since their respective publications, found their way in numerous variations into historical articles or descriptions as well as gemological, mineralogical, or geological papers.¹ The rediscovery of Chivor by Francisco Restrepo (figure 1) and the clues that motivated his search have been a particularly popular topic. In general, the events described by Klein, Rainier, or Anderton have been accepted as facts in the literature, and only Klein's description and dating of the rediscovery by Restrepo have on occasion been questioned or discussed.² It has been noted that Klein's time frame for the rediscovery clearly differs from that presented in

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¹See, e.g., Weldon et al., 2016, for a recent example.
other publications. This discrepancy, in turn, provided the impetus for the present project, aiming not only to clarify this inconsistency but also, more broadly, to probe the trustworthiness of the purported historical “facts” recounted by Klein, Rainier, and Anderton.

The focus was on locating contemporaneous primary documents, such as original letters and contracts, that could elucidate events underlying the oft-repeated descriptions. Beginning with an emphasis on the period covered by Klein (figure 2), the search was subsequently augmented to consider the record from the 1880s to the 1970s. In summary, the project endeavored to present a comprehensive survey of Chivor’s history from its rediscovery to the second half of the twentieth century, based principally upon primary contemporaneous materials, divided into two parts. The first installment of this work covers the period from the 1880s to 1925.

**HISTORY OF CHIVOR, PART I: 1880–1925**

**GEMS & GEMOLOGY**

**SPRING 2020**

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**SOURCES**

The search for contemporaneous materials spanned Europe, South America, and North America, as key figures in the story hailed from or worked in Germany, the United Kingdom, Colombia, and the United States. These primary documents were compared with the known literature on the topic. Full citations for the principal existing publications consulted are summarized in the reference list. Other primary documents, such as governmental and judicial reports and decrees that may appear in broader compendiums, archived contracts, business records, newspaper articles, personal correspondence, etc., are identified to the extent feasible in the footnotes, along with brief citations to publications included in the reference list. Direct quotations from original sources in German or Spanish were translated for purposes of this publication.

Investigations began with the German Federal Archive (Bundesarchiv) and the Historical Archive of the German Ministry of Foreign Affairs (Auswärtiges Amt), both in Berlin. Stored in these repositories

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**Figure 1. Francisco Daniel Restrepo Escobar, circa 1906.** Restrepo began his career at gold and silver mines in the Colombian states of Antioquia and Tolima in the 1870s and 1880s. He is credited with rediscovery of the Chivor emerald mines, an event that evidence also places in the 1880s. The early 1900s found him at gold mines in Ecuador and then leading operations at the Muzo emerald mines. In the 1910s, he returned to Chivor, where he would cooperate with German miner Fritz Klein to find investment funding for the project. Courtesy of Eduardo Restrepo Ortega.

**Figure 2. Portrait of the gem merchant Fritz Klein by the artist Rudolf Wild, Idar-Oberstein, Germany, in the mid-1930s.** At that time, Klein was engaged in writing the 1941 book describing his earlier adventures searching for new gem deposits in South America; a highlight is the saga of his engagement with the Chivor emerald mine in Colombia. Courtesy of Wolf D. Unger.
were original documents or copies thereof involving the emerald mines in Colombia, largely in materials generated during relevant periods by the German Ministry of Foreign Affairs in Berlin and the German Residency [essentially equivalent to an embassy] in Bogotá. Of a similar nature and also held in Europe were correspondence and related materials in the collections of the Kew National Archives in London, derived from the United Kingdom’s Foreign Office.

Principal Colombian materials were found in the form of government publications printed, typically anonymously, in the “Diario Oficial [Colombia],” in the “Gaceta Judicial [Colombia]” of the Corte Suprema de Justicia [Supreme Court], and in the reports of ministries or other government offices. These included legislative texts, decrees, governmental or judicial pronouncements, and statements on petitions and complaints. The Archivo General de la Nación [Colombia] in Bogotá further yielded notarial acts (escrituras) and attachments reflecting mine title transfers, sales of shares between various shareholders, and agreements shedding light on the ongoing fluctuations in Chivor ownership and related events.

Europe and the Americas also proved to be sources of collections of a more personal nature, with notable materials being found both in the University Library Freiburg (Universitätsbibliothek Freiburg) archives and in the private holdings of family members. For example, Francisco Restrepo’s grandson Eduardo Restrepo Ortega held family documents from the late 1880s to the early 1920s describing many aspects of his grandfather’s role with Chivor. Likewise, descendants of Fritz Klein and his brother August, who worked together at Chivor between 1912 and 1914, were in possession of original photos from Colombia and copies of letters written by family members between 1907 and 1920. Unfortunately, the original manuscript for Klein’s 1941 book was not located by the present authors. Contributions of this nature from relatives of many key players were instrumental, and their importance cannot be overstated.

Even online resources added to the available contemporaneous data. Noteworthy in this regard were digitized compilations of records detailing transit of persons, such as passenger lists maintained by the United States Immigration Office in New York and by offices in Hamburg and Bremen, Germany, and in Tilbury, London, United Kingdom. Those records detailed information that could incorporate departures and arrivals through national borders, starting points, destinations, and, most importantly, specific dates to help establish or corroborate event time frames. Similarly insightful were digital archives of newspapers across the United States, which enabled view of events as presented to the public in the early twentieth century.

LOCATION

The Chivor mining area is located northeast of Colombia’s capital Bogotá, in proximity to the present-day small municipalities of Somondoco and Almeida to the north and Gchalá and Ubalá to the southwest (figure 3). In the early decades of twentieth century, the nearest community of sufficient size to host a telegraph office was Guateque, accessible via a one-day journey by horse.

The main emerald mines are situated south of the town of Chivor, founded in 1930, between the valleys of the Río Sinai and the Río Rucio, the latter of which flows into the Río Guavio. (The two valleys are alternatively referred to as Quebrada Sinai and Quebrada de las Minas, quedrada meaning “gorge” or “breaking reef” in Spanish.) North of the Chivor area are the Río Somondoco and the Río Garagoa. Chivor is now positioned between two large dams that were built in the second half of the twentieth century, the Embalse de Chivor (Chivor Dam) and the Embalse del Guavio (Guavio Dam). The Río Garagoa runs toward the Embalse de Chivor and south of the dam is also called the Río Bata, which in turn flows into the Río Guavio.

In the German Federal Archive (Bundesarchiv) in Berlin, pertinent material was found in file R901, archive numbers 1303, 1304, and 1305, all covering the years 1911 to 1920. In addition, file R901, archive number B1190, contained a mining report from 1913 by a member of the German Residency in Bogotá. In the Historical Archive of the German Ministry of Foreign Affairs (Auswärtiges Amt), also in Berlin, principal relevant files were designated RAV Bogotá Volume 50 (now 136) and R Volume 91809, covering the years 1914 to 1936.

Most relevant at the Archivo General de la Nación (Colombia) in Bogotá were several notarial acts (escrituras) designated herein by escritura number and date. Also useful was a file entitled “Minas de Esmeraldas” incorporating materials from 1905 to 1917, collected by the Ministerio de Relaciones Exteriores. Similarly instructive was the file “Joaquin Daza B.,” Volume “Propuestas Minas 99,” Ministerio de Industrias, Departamento de Minas y Petróleos, which contained documents covering 1929 to 1954 and detailing mine boundaries and history.

Held at the University Library Freiburg (Universitätsbibliothek Freiburg) was a collection of documents related to Prof. Robert Scheibe, a geologist involved in scientific investigations at and evaluation of Chivor, as detailed below.

See the acknowledgments for additional indication of the scope of such contributions.
The Chivor mining area currently consists of many tunnels and galleries worked employing industrial methods, with production yielding large quantities of gem-quality emeralds. This scenario presents a marked contrast to the harsh working conditions and difficulties encountered in the first half of the twentieth century.

PRE-NINETEENTH CENTURY HISTORY OF THE SOMONDOCO (CHIVOR) EMERALD MINES

Beginning in early April 1536, a Spanish military expedition was conducted under the leadership of conquistador Gonzalo Jiménez de Quesada into the region that later became Nueva Granada (the New Kingdom of Granada, encompassing approximately the territory of modern Colombia). The journey embarked from the Atlantic coastal city of Santa Marta, and by December 1536, the expeditionary group had begun to cross the Andes Mountains. They arrived in the territory of the indigenous Muisca in March 1537. As they traveled south, the Spanish soldiers encountered emeralds in the region, and Quesada ordered the captain Pedro Fernández Valenzuela to search for the mines. Valenzuela departed from Quesada’s camp in late May or early June 1538 and proceeded as reported in a letter from 1539:

Valenzuela departed with several others, and after six days they arrived at the said mines, where he and the other Spaniards with him, watched the Indians extract the emeralds from below the ground, and they witnessed such strange new things. The mines are located roughly fifteen leagues from the Valley of the trumpet, in a very high and sparse mountain range. It appears that the emeralds are extracted from an area about one league in size. The lord of the mines is a very principal Indian by the name of Somondoco [Somondoco]. He is sovereign over many vassals and settlements, and his private residence is located three leagues’ distance from the mines.... Those who went on the discovery of the emerald mines said that from the mines they could see some great planes [llanos], so marvelous that nothing like them ever had been seen. On hearing this news, Jiménez moved the camp closer to the mines....

A similar account of the discovery of the ancient Somondoco emerald mines appeared, with minor

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8 Fortaleché et al., 2017.
10 Letter from two Spanish captains, July 8, 1539, Archivo General de Indias, Seville, Spain, as translated and published by Francis, 2007. One league was equivalent to 5.57 km. See Lane, 2010.
variations, in all historical descriptions of the conquest of Nueva Granada penned by sixteenth- and seventeenth-century Spanish authors. Examples include those by Fray Pedro de Aguado, Fray Pedro Simón, and Lucas Fernández de Piedrahita.

In the following decades, the mines referred to as Somondoco in contemporaneous Spanish texts were worked with limited success, although a portion of the emerald mining activity was diverted to the Muzo deposits after their discovery to the northwest in the 1560s. Exploitation at Somondoco continued under various owners and lessees into the 1670s, with the last known documentary evidence of activity dated from 1672 to 1675.

Beyond that time, there exists no known record of further activity at the mines, nor is there any report detailing why the mines were abandoned. While the literature refers to an order to close the mines issued by the Spanish monarch Carlos II [reigning 1665–1700], such an order has never been proven and could not be located despite recent extensive research. By 1772 it was noted that the mines of Somondoco were deserted and that nothing more than some vague remains of the old workings could be found. Thus, over the course of more than 200 years beginning in the 1670s, any detailed knowledge about the location of the Somondoco emerald mines was essentially lost.

**REDISCOVERY OF CHIVOR**

The rediscovery of the historical mines of Somondoco, henceforth known primarily as the Chivor mines, has long been attributed to the Colombian mining engineer Francisco Daniel Restrepo Escobar (1855–1914). Restrepo was born in Rionegro, Antioquia, Colombia, and was involved in the mines of Antioquia during his younger years. By the early 1880s, he had transferred his attention to the neighboring state of Tolima, where he worked as a prospector and mine production manager. At the time, mineral deposits in Antioquia were considered nearly exhausted, while Tolima was viewed as having strong potential for alluvial gold and silver mines. Restrepo’s activities in Tolima involved searching for lost mines from the colonial era as well as discovering new mines. During the first half of the 1880s, at least a portion of his work was done in association with the Compañía Minera del Tolima (not to be mistaken with the British Tolima Mining Company, Limited), but from the mid-1880s Restrepo also worked in partnership with Luis Correa. From 1885 to 1887, numerous new deposits, mostly gold and silver mines, were discovered and registered with the government (to establish claims and valid mining titles) by both Restrepo and Correa, either alone or together. Evidence of Restrepo’s mining activities in Tolima extends to the end of the decade, with records showing mine tax payments and sales transactions for several gold and silver mines as late as 1889. Conversely, records for the following two decades are silent in that regard, but those from 1910 reflect that Restrepo was still holding mining titles in the area, together with several partners. Meanwhile, as of 1891 Restrepo had apparently resumed efforts back in Antioquia as well.

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11Lane, 2010.
12Canova, 1921.
13Slave labor at the mines was described in a document from 1672 (Kris Lane, pers. comm., 2018). Litigation in 1672 involving Somondoco mining rights has also been reported (Canova, 1921). Several additional years of activity are supported by archival material from the second half of the seventeenth century in the file “Minas-Boyacá,” SC 38, 1, D10, Archivo General de la Nación (Colombia).
14Martin de Retana, 1990.
15Kris Lane, pers. comm., 2018.
16Moreno, 1772, published 1870.
17Commonly referred to as Francisco Restrepo, the names Francisco Restrepo Escobar or Francisco Restrepo E. also appear in official documents, with his signature on notarial acts taking the latter form. Kris Lane (pers. comm., 2018) showed mine tax payments and sales transactions together with several partners. Meanwhile, as of 1891 Restrepo had apparently resumed efforts back in Antioquia as well.
The foregoing regions, however, did not constitute Restrepo’s sole focus. The emerald mines in Boyacá designated Chivor 1 and Chivor 2 were registered with the government in 1889, and Restrepo was clearly involved in the process, which comprised multiple steps.24 The first step in applying for the titles (acta de aviso) was undertaken by Miguel Perilla in the names of Restrepo, Enrique González,25 Bernardo Escovar,26 and Núñez & Compañía27 in January 1889. The application was then granted and published in March 1889. Thereafter, at a date and under circumstances not otherwise elucidated, title ownership apparently transferred from the original four applicants to Restrepo and Correa, who were recognized as the owners in documentation from 1896, seven years later.28

Nonetheless, two critical aspects regarding Restrepo’s underlying rediscovery of the Chivor mines are fraught with discrepancy and ambiguity: the date of the rediscovery and the source of the information on which he relied.

As to the date, Klein (1941) estimates 1903 to 1904. Conversely, Spanish texts place this event in 1896 or even as early as 1888 to 1889,29 and English-language texts mostly quote 1896.30 The English texts primarily refer to Latham (1911), but that work offers no corroborative reference to support the 1896 date given. Domínguez31 (1965), the most detailed Spanish textbook on the history of Colombian emeralds, cites a limited number of geological studies but does not associate historical events with any primary source. The Spanish publication by Martin de Retana (1990) chronicles historical events, but the individual facts are neither consistent nor correlated with the references cited. German authors, in most cases, follow the version and dates given by Klein (1941).

No direct written communication by Restrepo describes his search; the only known tangible evidence of his efforts consists of three rough hand-sketched maps, all undated, found in his personal papers (e.g., figure 4). These merely depict selected areas between Río Somondoco and Río Guavio and mark the locations of already discovered mines and promising sites for search. Nonetheless, a report authored by Klein in 1913 and notes by Prof. Robert Scheibe from 1914 offer verification from contemporaneous primary sources. As will be detailed below, both Klein and the geologist Scheibe spent time with Restrepo at Chivor. In the report by Klein, which was an “ex-
likely written for potential investors, 1882 was given as the date when indications of the mine’s location were found, and 1885 was noted as when the old tunnels worked centuries ago were rediscovered. Scheibe’s personal notes discussed the boundaries of the two mines Chivor 1 and 2 in connection with the work that Restrepo did in the 80s of the last century.” Thus, primary and secondary documentation places the search for the lost mines and their rediscovery in the 1880s.

The nature of the collaboration between Restrepo and Correa in the rediscovery remains obscure, but a 1911 letter from Correa to Restrepo lends a degree of corroboration to the 1880s timing. Although the correspondence makes no direct mention of Chivor, it does discuss possible future cooperative ventures and refers back to an event in 1885 when they were “extremely lucky.”

Turning to the question of the source of the clues on which Restrepo relied, it is generally reported that he was guided by hints found in historical manuscripts, but further details differ widely. In nineteenth-century descriptions of Colombian history, Acosta (1845 and briefly mentioned in his history of Venezuela, has also been cited as a possible source for Restrepo’s information. Aguado’s treatise “Recopilación Histórica” was never published during the colonial period. The handwritten first volume, concerning Colombia, was discovered in Madrid by Acosta in 1845 and briefly mentioned in his history of Nueva Granada published in 1848. The handwritten manuscript itself, copied in the early years of the twentieth century, was published in Bogotá in 1906. These facts indicate that Aguado’s treatise on Colombia was most likely not available to Restrepo in the 1880s.

In summary, the only known information available to guide Restrepo’s journey was the vague hint about the llanos being visible from the Chivor mining region (figure 5) and perhaps some approximate indication of distance from the town of Somondoco. This information would have been accessible to him from several sixteenth- and seventeenth-century authors and as repeated in nineteenth-century historical texts. The present authors are aware of neither further handwritten manuscripts from sixteenth- or seventeenth-century historians nor any other detailed accounts or maps that might have identified the location of the ancient Somondoco mines.

MINING TITLE TRANSFERS, MINING COMPANY FORMATION, AND EARLY YEARS (1896–1910)

As previously noted, titles to mines designated Chivor 1 and Chivor 2 were registered in 1889, and by 1896...

References...

36Ancizar, 1853; Schuhmacher, 1875. The cascade of Nagar was located close to Macanal but is now covered by the Chivor Dam. Enciclopedia Universal Ilustrada Europeo-Americana, 1931; Geografía económica de Colombia, 1936. This locality would be about 15 km too far northeast from the present Chivor mines; see also figure 3.
Restrepo and Correa were recognized as the owners. The registration was made in accordance with the Colombian mining law then in effect, which stipulated that a gem mine could not exceed one square kilometer in size (Law No. 38 of 1887, Article 2). The Chivor emerald mines thus consisted of two contiguous areas of one square kilometer each and were not otherwise split or subdivided during the relevant period. Any mining in the region employed open-pit methods, as was generally the case in Colombia prior to 1930. Although the Chibcha and Spanish in prior centuries may have attempted to build tunnels, even those extended only a few meters into the mountains.

At the Chivor claims, no mining activity took place for several years after registration. The 1891 annual taxes for the two mines were paid by Correa, but no further payments are known. As a result, Chivor 1 and 2 were declared “abandoned” on August 23, 1896, on account of an absence of operations in the seven years since the registration and a failure to pay taxes on the mines since 1891. Attendant legal formalities led to the titles being transferred from Correa and Restrepo to González on February 16, 1898.

Later in 1898, a mining entity was formed as a joint stock company between González, Restrepo, Escovar, and Núñez & Compañía, but without Correa, and the Chivor 1 and 2 mining titles were transferred from González to that company. Share distribution at formation was as follows: 40 shares for Restrepo, 20 for González, 20 for Escovar, and 20 for Núñez & Compañía. The latter two were to act as investors, while Restrepo and González, both of whom had mining experience, were to continue exploration and to start practical operations. The company later became known as the Compañía de las Minas de Esmeraldas de Chivor, or, in certain materials, Sociedad Ordinaria de las Minas de Chivor. For clarity, the different companies involved in the Chivor emerald business are listed in table 1.

In 1898 and likely into the next year, Restrepo spent time at the mine, mainly supervising restoration and construction of a water supply and irrigation system. These efforts aimed to evaluate the potential of the deposit and to prepare the mine for visits by possible investors, looking for veins and samples in

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39Bullman, 1892.
40Diario Oficial (Colombia), 28, No. 8842 (1892), p. 819.
41Escritura 201, February 13, 1899, and attachments, Notaría 3, Archivo General de la Nación (Colombia).
42Escritura 201, February 13, 1899, and attachments, Notaría 3, Archivo General de la Nación (Colombia); Report by Dr. Antonio José Cadavid, March 18, 1913, Historical Archive of the German Ministry of Foreign Affairs.
43Escritura 1337, August 20, 1898, Notaría 3, Archivo General de la Nación (Colombia). No name for the company was specified at that time.
44The name appeared in documents and reports of the Ministerio de Hacienda and the German Resident in Bogotá.
the process. Emerald samples were sent to Europe to attract investors [e.g., major European banks], and an estimated price of £40,000 was suggested in early negotiations.45 However, no deal culminated before outbreak of the Colombian civil war (October 1899–November 1902) stopped all activities at the mine. Meanwhile, controversy had also developed over the water supply, as the irrigation canal ran across private land owned by the local Acosta family, and available water was also used for a nearby hacienda.46

In the following era, activities pertaining to Chivor tended to be more financial than operational in nature. Tax payments, share transfers, and investment pursuits featured heavily, while mining was relatively minimal. Annual taxes for Chivor 1 and 2 were paid by González in 1898, 1899, and 1900 at the rate of 5 pesos per mine per year. Taxes for the mines were then paid for 20 years in advance, at the rate of 100 pesos per mine, by Antonio Núñez de Nuñez & Compañía on behalf of the shareholders.47

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45Letter from Núñez & Compañía, December 16, 1898, to Restrepo. Lorenzo Merino, who had recently completed a ten-year lease of the Muzo emerald mines (1886–1896), was involved in the discussions.

46Letters by Núñez & Compañía, June 18 and June 23, 1898, to Restrepo.

47Escritura 1242, December 3, 1901, Notaria 3, Archivo General de la Nación (Colombia). See also Reports by the German Resident in Bogotá, Dorotheus Kracker von Schwartzenfeldt, November 16, 1912, and by a member of the German Residency in Bogotá, Wilhelm Gerlach, November 15, 1912, German Federal Archive; Diario Oficial (Colombia), 48, No. 14720 (1912), pp. 812–813; Report by Dr. Antonio José Cadavid, March 18, 1913, Historical Archive of the German Ministry of Foreign Affairs; Domínguez, 1965.
A lively trade in shares of the Compañía de las Minas de Esmeraldas de Chivor also took place during the first decade from 1899 to 1909, and examples of these transactions are summarized in table 2. A notable series of transfers began in 1899 when Restrepo sold 15 shares to Carlos Uribe, who in turn sold 17 shares in 1905 to Fould & Compagnie, a Parisian bank. Two years later, in 1907, Fould & Compagnie became the majority shareholder upon acquiring an additional 20 shares from Núñez & Compañía. Other individuals who would play a role

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Buyer</th>
<th>Number of shares</th>
<th>Total Price</th>
<th>Approximate price per share in pesos oro(^a)</th>
<th>Escritura (notarial act), Archivo General de la Nación (Colombia), Bogotá</th>
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</thead>
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<tr>
<td>Francisco Restrepo</td>
<td>Carlos Uribe</td>
<td>15</td>
<td>£1,000 (\approx) 5,000 pesos oro</td>
<td>333</td>
<td>Escritura 189, February 13, 1899, Notaria 3</td>
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<td>2</td>
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<td>Escritura 868, June 13, 1899, Notaria 3</td>
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<td>Francisco Restrepo</td>
<td>Álvaro Uribe</td>
<td>2</td>
<td>4,000 pesos paper</td>
<td>600</td>
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<tr>
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<td>Diódoro Sánchez</td>
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<td>2,000 pesos paper</td>
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<td>Escritura 100, March 27, 1900, Notaria 5</td>
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<tr>
<td>Enrique González</td>
<td>Christopher Dixon</td>
<td>1</td>
<td>5,000 pesos paper</td>
<td>500</td>
<td>Escritura 915, December 7, 1900, Notaria 3</td>
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<tr>
<td>Enrique González</td>
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<td>Escritura 109, March 10, 1902, Notaria 3</td>
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<td>Fould &amp; Compagnie</td>
<td>17</td>
<td>£2,000 (\approx) 10,000 pesos oro</td>
<td>588</td>
<td>Escritura 1848, October 10, 1905, Notaria 2</td>
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<td>Francisco Restrepo</td>
<td>Emiliano Isaza</td>
<td>3</td>
<td>10,000 pesos paper</td>
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<td>Escritura 758, October 28, 1905, Notaria 3</td>
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<td>Lisandro Moreno</td>
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<td>300</td>
<td>Escritura 851, December 4, 1905, Notaria 3</td>
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<td>Lisandro Moreno</td>
<td>Eduardo Sayer Vega</td>
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<td>30,000 pesos paper</td>
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<td>Escritura 134, March 7, 1906, Notaria 3</td>
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<td>Núñez &amp; Compañía</td>
<td>Fould &amp; Compagnie</td>
<td>20</td>
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<td>Escritura 174, March 20, 1909, Notaria 3</td>
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\(^a\)Conversion factors used for pesos oro: pesos paper are 1:3.33 (1899), 1:10 (1900), 1:50 (1901), 1:150 (1902), 1:100 (1905 and later). With a total of 100 shares outstanding, 1 share represents 1% ownership of the company (see footnote 48 in text).

\(^b\)Núñez & Compañía sold multiple assets, not only shares in Compañía de las Minas de Esmeraldas de Chivor, to Fould & Compagnie.

\(^c\)The price for 90% of the mine offered to F. Klein in 1914 was £51,000; the value for 1% of the mine (equivalent to 1 share) would be calculated at 2,833 pesos oro.

\(^d\)The sale price for the mine and the land to W.E. Griffiths and C.K. MacFadden in 1919 was £46,000 \(\approx\) 230,000 pesos oro; the value for 1% of the mine (equivalent to 1 share) would be calculated at 2,300 pesos oro.
in Chivor’s history likewise became involved as shareholders during this period, such as the English businessman and miner Christopher Ernest Dixon (1868–1961; see box A), who purchased three shares between 1900 and 1902,\(^52\) and Dr. Emiliano Isaza Gutiérrez (figure 6),\(^53\) who acquired three shares in 1905\(^54\) and would later become president of the Compañía de las Minas de Esmeraldas de Chivor. Prices for one share in paper currency increased from 2,000 pesos in 1900 to 64,000 pesos in 1908, but the inflation factor impacting paper currency changed markedly during the Colombian civil war (again, see table 2).\(^55\)

Throughout the same period, the mine owners continued seeking foreign investment or participation. In November 1901, Dixon was authorized for a term of six months to attempt to form a company in Europe that would be responsible for organizing and operating the emerald mines.\(^56\) A different tack was then taken in March 1904, when Alvaro Uribe was authorized for a nine-month term to search for a foreign entity, especially in France and England, to lease Chivor for an estimated price of £10,000.\(^57\) As to the apparent lack of success of such efforts, the United States Consul-General in Bogotá, Snyder, wrote in 1904: “The prohibitively high price asked by the owners of these five mines, called the ‘Chivor group’ is the reason, I am informed, that they are not being worked.”\(^58\)

Meanwhile, a few months before the end of the civil war, Restrepo had left Colombia. He arrived in Quito, Ecuador, in June 1902, accompanied by his older son Aníbal and two other Colombians. In Ecuador, Restrepo worked on government projects such as road and railway construction, and he was involved in gold mining in the Oriente region as owner and/or supervisor of several gold mines.\(^59\) In early 1904, Restrepo was asked to return to his home country because there was urgent need of an exper-

\(^{52}\)Escritura 915, December 7, 1900, Notaria 3, Escritura 1201, November 21, 1901, Notaria 3, and Escritura 108, March 9, 1902, Notaria 3, Archivo General de la Nación (Colombia).

\(^{53}\)Dr. Emiliano Isaza Gutiérrez (1850–1930) studied law and political science, becoming a professor at the University of Antioquia in 1875. In 1876 he moved to Bogotá. Throughout his career, he authored a number of academic publications, including a classic Spanish grammar textbook Gramática Práctica de la Lengua Castellana (1880), and he served Colombia in various diplomatic capacities, such as plenipotentiary minister in Ecuador and as minister of public instruction in the homeland (1908–1909). See Martínez, 1950.

\(^{54}\)Escritura 758, October 28, 1905, Notaria 3, Archivo General de la Nación (Colombia).

\(^{55}\)As used in various publications and contracts of the period.

\(^{56}\)For comparison, monthly salaries at the Muzo emerald mine in 1904 were 30,000 pesos paper (300 pesos oro) for the director and 3,000–4,000 pesos paper (30–40 pesos oro) for the foreman or other staff. Junta Nacional de Amortización, Informe al Congreso y al Gobierno Ejecutivo 1904, p. 62.

\(^{57}\)Escritura 1172, November 12, 1901, Notaria 3, Archivo General de la Nación (Colombia).

\(^{58}\)Escritura 172, March 5, 1904, Notaria 3, and Escritura 193, March 16, 1905, Notaria 3, Archivo General de la Nación (Colombia).


\(^{60}\)Restrepo’s activities in Ecuador between 1902 and 1904 are well documented in newspaper articles, contracts, reports, and letters remaining in the possession of his family.
enced miner to direct the Muzo emerald mines. Restrepo began in that position in March 1904.60

The year 1904 also saw a widening of the focus for investment activities pertaining to Chivor, beyond the existing two claims. On August 25, 1904, Restrepo, González, Escovar, Carlos Uribe, and Núñez & Compañía purchased land in the Chivor area, between Río Rucio and Río Sinai, from Aurelio Ruedo Acosta.61 The purchase price was 100,000 pesos, and 20,000 pesos were paid by each of the five principal shareholders. Thereafter the Compañía de las Minas de Esmeraldas de Chivor was treated as the owner of the Chivor 1 and 2 mining titles and of land in the area. Through this purchase, the mine owners resolved with the Acosta family the controversy over the water supply that had plagued the site since the late 1890s.

On December 13, 1904, three additional mining titles were registered in the vicinity of Chivor 1 and 2: “Triunfo de Chivor,” “Paz de Chivor,” and “Esperanza de Chivor” (figures 7 and 8), with Restrepo, Henrique Campo, and Dixon named as the co-owners.62 From that time, the five mining titles in the

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61Escritura 1479, August 25, 1904, Notaria 2, and Escritura 3084, December 27, 1919, Notaría 1, Archivo General de la Nación (Colombia).
Christopher Ernest Dixon was born in 1868 in Watlington, Oxfordshire, England, the eleventh of Dr. Henry and Helen Dixon’s twelve children. In the mid to late 1880s, he traveled to South America along with his brother Frank (1865–1956) to join an elder brother George (1861–1911), who had been prospecting for gold and silver in the state of Tolima, in central Colombia, since 1884.1 Although the activities and precise whereabouts of the two younger Dixon brothers during their early years in Colombia remain obscure, by 1889, at the age of 21, Christopher (figure A-1) was already operating at least 24 gold and silver mines in the Mariquita area, in northern Tolima.2 During this period, George worked for British mining companies at the Silencio mine, in central Tolima and elsewhere.3 Over the course of the 1880s, Tolima had become a mining bonanza for gold and silver seekers, attracting prospectors and investors from neighboring Antioquia, as well as many foreigners. During his seven-year stay in Colombia, George might also have been involved in emerald prospecting and mining at Muzo, as suggested by photos from the family album (figures A-2 and A-3).4 Although Christopher Dixon would become most known for his activities with emerald, he was always looking for new commercial opportunities and was active across a variety of sectors throughout his career. In 1891, he became associated with the “Magdalena Estates Company,” a real estate development venture.5 In the 1892 to 1893 period, he and his brother Frank obtained grants to parcels of public land in northern Tolima and Caldas.6 In 1910, he was named administrator of the “H. and U. Rubber and Coffee Estates, Limited.”7 Then, in 1916, Dixon turned to cattle breeding, already an important industry in Colombia, and planned to build a new meat-packing plant on the Caribbean coast.8 The earliest known reference to emeralds in Dixon’s career is from 1896, when he became an agent of the English Mining Syndicate, Limited, a British company operating the Muzo mines, a position he held until October 1900.9 The early 1900s then found Dixon buying shares in the Compañía de las Minas de Esmeraldas de Chivor (see the main text) and being involved in various other activities around Chivor.

Meanwhile, in August 1898, preliminary applications for three additional mining claims in the Chivor area had been filed by Francisco Restrepo and various partners.10 Such action was taken contemporaneously with when Restrepo was involved at Chivor in efforts to restore the water supply. The three mining claims later became known as El Triunfo de Chivor, La Paz de Chivor, and La Esperanza de Chivor.

2The arrival of three members of the Dixon family in Colombia in 1886 is documented in the Diario Oficial (Colombia), 22, No. 6836 (1886), p. 1114, but further information as to identities is unavailable.
3Informe presentado al Congreso de la Republica en sus sesiones ordinarias de 1890 por el Ministro de Hacienda, Casa Editorial de J.J. Pérez, Bogotá, 1890.
4Skinner, 1889–1890, 1891–1892.
5Simon Hamilton (great-grandson of George Dixon), pers. comm., 2018.
10Atuesta, 1899; Escritura 314, October 31, 1900, Notaria 3, Archivo General de la Nación (Colombia); Gaceta Judicial (Colombia) 15 (1901) pp. 169–173 and 16 (1903) pp. 78–79; Céspedes Cubides, 2017.
11Diligencia No. 2, Municipality of Macanal, August 8, 1898; Aviso No. 81, Municipality of Ubalá, August 21, 1898; Aviso No. 82, August 21, 1898, Municipality of Ubalá.
As shown in a map by Canova (1921), El Triunfo de Chivor adjoined directly to Chivor 1 and 2, situated between the valleys of the Río Rucio and the Río Sinai (see figure 7 of the main text). La Paz de Chivor and La Esperanza de Chivor were located northeast and southeast, respectively, of the current town of Chivor. No indication exists as to why these three particular locations were chosen for claims—it is possible that emerald samples and/or former native or Spanish workings (tunnels) had been discovered by prospecting or other activities in the areas and that the claims were defined so as to cover mining rights over those regions. Regardless, and for reasons otherwise not elucidated but perhaps impacted by the outbreak of the Colombian civil war (The Thousand Days’ War, 1899–1902), the registration process was not completed, and no mining claims were officially granted.

After the war and Restrepo’s return to Colombia from a sojourn in Ecuador (see main text), the registration process was restarted. A February 1904 agreement between Henrique Campo (a Swiss citizen), Dixon, and Restrepo set forth the conditions under which the three claims would join in new applications for the three claims, namely, that ownership would be divided equally among the three partners (figure A-4). The applications were then filed in September 1904, and the three mining titles were granted on December 13 of that year, with annual taxes being paid in advance for the period through 1910. Approximately one week later, on December 19, 1904, the three owners formally granted Dixon a power of attorney covering all future matters related to the three claims.

Consistent with what had generally transpired to that point with respect to Chivor 1 and 2, focus for the newly acquired claims centered on investment pursuits rather than practical mining. The 1905 to 1906 and 1915 to 1916 periods in particular saw flurries of activity in this regard, with Dixon engaged in extensive correspondence and even travel to England in the search for investors. Parallelizing these efforts was Dixon’s long-running battle against the change in Colombian mining laws that had taken effect in 1905 (Law No. 40 of 1905), restricting applications for new emerald mines and increasing the tax burden on existing mines. A complaint was lodged against the Colombian government, and Dixon, supported by British officials in Bogotá, embarked on a multi-year quest to establish that he had been harmed by the change and was entitled to recompense from Colombia.

Dixon’s allegations centered on concerns that the higher taxes would prevent profitable mining and should not be applied to titles granted before 1905 and that the uncertain and detrimental situation for mine owners had...
caused potentially interested investors to turn away.\textsuperscript{19} His assertions also apparently became increasingly exaggerated as the contest went on, with documents prepared by British officials even giving Dixon credit for having discovered the three mines.\textsuperscript{20} In negotiations he offered to settle by selling the mines to the Colombian government for £200,000 but was asked to prove the value of the claims through an international expert.\textsuperscript{21} He failed to do so and instead continued paying annual taxes for the three mines up through 1922.\textsuperscript{22}

By 1920, Dixon had been named as the Colombian manager for the Colombian Emerald Syndicate, Ltd., the American company that had just taken over the Chivor 1 and Chivor 2 mines [see main text]. From this date onwards, the historical record about the three other claims of the so-called Chivor group is incomplete regarding specifics of any pertinent ownership transfers, and the few references are disjointed, if not contradictory, although all five mines eventually came to be considered in part or in full under the purview of the American company.\textsuperscript{23}

Following his involvement with the Colombian Emerald Syndicate, Ltd., Dixon left the mine for a period but returned in the early 1930s to help Peter W. Rainier, then the administrator at the mine, fight attacking bandits.\textsuperscript{24} Later, he also cooperated with Rainier during field work at the Coscuez emerald deposit.\textsuperscript{25}

Dixon remained in Colombia with his wife and children. His last known assignment was in the mid-1940s, as one of the participants in geological investigations carried out in Colombia by the Foreign Economic Administration, in cooperation with the United States Geological Survey.\textsuperscript{26} In the last years of his life, Dixon was celebrated in the U.S. as an authority on emerald mining.\textsuperscript{27} He died in Bogotá in 1961, and some of his descendants still live in Colombia. He will be remembered for the legacy he left in the history of Chivor and in the modern history of Colombian mining at large.

\textsuperscript{19} Ibid.
\textsuperscript{20} Ibid.
\textsuperscript{21} File “Minas de Esmeraldas,” Ministerio de Relaciones Exteriores, Archivo General de la Nación (Colombia).
\textsuperscript{22} Diario Oficial (Colombia), 50, No. 15279 (1914), p. 396; Diario Oficial (Colombia), 51, No. 15557 (1915), p. 448; Diario Oficial (Colombia), 54, No. 16306 (1918), p. 121; Diario Oficial (Colombia), 58, No. 18425–18426 (1922), p. 243.
\textsuperscript{23} For example, a 1920 listing of Restrepo’s assets at the time of his death in 1914 included a one-third share in each of the three newer mines. Escritura 188, January 27, 1920, Notaria 3, Archivo General de la Nación (Colombia). In 1921, it was represented that the titles to all five mines of the Chivor group were under the ownership or control of the Colombian Emerald Syndicate, Ltd., or its operating entity the Colombia Chivor Emerald Company. Canova, 1921. Concomitant with the bankruptcy of the Colombian Emerald Syndicate in 1923, its assets were stated to incorporate complete ownership of Chivor 1 and 2 and one-third of the three newer claims. Jewelers’ Circular, Vol. 87, No. 22 (1923), p. 91. Annual payments of taxes for the three claims were made from 1929 to 1931 by Pedro Ignacio Uribe, a Colombian entrepreneur and public figure (as well as founder of the “Compañía Colombiana del Petróleo” in 1918 along with Wilson E. Griffiths and Carl K. MacFadden). Diario Oficial (Colombia), 54, No. 16364 (1918), p. 56; Diario Oficial (Colombia), 65, No. 21072 (1929), p. 191; Diario Oficial (Colombia), 65, No. 21275 (1929), p. 780; Diario Oficial (Colombia), 67, No. 21674 (1931), p. 189.
\textsuperscript{24} See main text, Part II, and Rainier, 1942.
\textsuperscript{25} Rainier, 1933.
\textsuperscript{26} Singewald, 1950.
\textsuperscript{27} Lancaster Eagle-Gazette, July 2, 1951, p. 14.
Chivor area were occasionally referred to collectively as the Chivor group (see also box B), but ownership of the three mining claims registered in 1904 and that of Chivor 1 and 2 remained, at least before 1920, formally separate (see also box A). Yet, in stark contrast to the ongoing financial and investment maneuvers, practical mining activities were nearly nonexistent. As noted above, prior to the onset of the civil war, initial steps to clean old infrastructure and restore the water supply were undertaken, but endeavors were curtailed by the conflict. The decade after the war then saw Restrepo, one of the key participants with practical mining experience, either out of the country (in Ecuador) or occupied with other ventures (Muzo). With Restrepo thus unavailable and the majority of the other shareholders focused on selling the mine, there was little incentive to invest further in operations.

By 1909, the shares were distributed among Fould & Compagnie, six Colombians (mostly lawyers or engineers), and Dixon. Then, between March 1909 and October 1912, a stock split increased the capital from 100 to 250 shares (figure 9). By the time of the 1919 sale discussed below, ownership was distributed as follows: 92½ shares for Fould & Compagnie, 50 for descendants of Escovar, 45 for González, 41¼ for the widow and descendants of Restrepo, 8¼ for Isaza, 7½ for Dixon, 2½ for Álvaro Uribe, and 2½ for Diódoro Sánchez (figure 9). For other mines that have been erroneously associated with Chivor, see also box B.

ACTIVITIES AT MUZO

As alluded to previously, the year 1904 also witnessed relevant activity connected to the Muzo mines and to the broader Colombian emerald story that included Chivor. The important mines at Muzo, as well as at Coscuez, had been owned by the Colombian government since 1886. Nonetheless, the mines were often leased to private operators against predetermined charges, and those tenants might even sublease to another individual or company. There were also repeated cycles of inactive periods.

After the civil war, an entity known as the Sindicato de Muzo (Syndicate of Muzo, used hereinafter) was founded and took over exploitation of the Muzo mines from 1904 to 1909. Restrepo was named as director, and his son Aníbal joined the mine’s payroll as well. Toward the end of that period, in December 1908, it was agreed between the government of Colombia, the Syndicate of Muzo, and the London-based Colombian Emerald Company that the right to mine at Muzo from March 1909 would pass to the Colombian Emerald Company. Restrepo remained in his position until resigning in December 1909, expressing in a letter to the Colombian president that he did not agree with the new company’s policies. The offered justification was that such policies were contrary to the interests of the Colombian nation.

The contract with the Colombian Emerald Company was to last for more than 20 years, but it was terminated by the government after just 14 months, in May 1910. Mining operations were taken over by

Figure 9. Handwritten register reflecting the ownership distribution of shares in the Chivor 1 and 2 emerald mines before and after a stock split between 1909 and 1912 that increased the capital from 100 to 250 shares. The participants and their holdings remained unchanged until the mines were sold in December 1919 to an American group. Courtesy of Eduardo Restrepo Ortega.
the Colombian government from June 1910, and the government then appointed Restrepo as director on its behalf from January to May 1911.\textsuperscript{74} In early January 1913, production at Muzo was discontinued for several years due to lack of profitability\textsuperscript{75} and only resumed in 1923.\textsuperscript{76} Meanwhile, the termination of the contract in 1910 had resulted in lengthy negotiations on claims for damages involving both the Colombian Emerald Company and the Syndicate of Muzo.

**FRITZ KLEIN AND HIS EARLY ACTIVITIES IN COLOMBIA (1905–1913)**

Klein’s family hailed from Idar, Germany, and was engaged in the gem trade. His father August Klein (1852–1927) began mining and purchasing gemstones, mostly red and green tourmaline and aquamarine, in Brazil in the last decade of the nineteenth century. August Senior was supported in Brazil by his sons Gustav (1876–1931), Fritz (1882–1953), and August Junior (1886–1971) from 1902, 1904, and 1906, respectively.\textsuperscript{77} Although the Klein brothers were successful in their endeavors as gem merchants in Brazil, competition from other Idar traders in purchasing rough gemstones in Minas Gerais increased.

\textsuperscript{74}Diario Oficial (Colombia), 47, No. 12241 (1911), p. 404; Diario Oficial (Colombia), 49, No. 15043 (1913), p. 3221.
\textsuperscript{75}Pogue, 1917.
\textsuperscript{77}Falz, 1939.
The growing competition prompted Fritz to travel through various South American countries such as Argentina, Bolivia, and Peru, always searching for new gem materials, sources, and trade opportunities.

Fritz Klein’s first trip to Colombia occurred in 1905 and nearly ended in disaster. Purchase and sale of gemstones at that time was strictly controlled through government-authorized channels, and Klein sought to buy and export rough emeralds from a private Colombian middleman in violation of applicable regulations. He was accused of this infraction by the Syndicate of Muzo and arrested in Honda, in the department of Tolima. The emeralds he had acquired were confiscated. Only through intervention of the German Resident in Bogotá was he later released and permitted to leave the country.\(^8\)

EMERALD MINES OF COLOMBIA, LIMITED, AND EMERALD MINING COMPANY OF COLOMBIA

Emerald Mines of Colombia, Limited, was registered in London on September 28, 1888.\(^9\) The company purchased the Yacopi mines, located in the Western Colombian Emerald Belt, where the Muzo and Coscuez mines are also situated. The following decade, a company called the Emerald Mining Company of Colombia was mentioned in a report by George Frederick Kunz incorporated in a publication from the United States Geological Survey.\(^10\) Kunz noted that a property had been acquired by the company that was expected to produce emeralds “quite as fine as those from the famous Muzo mine.” Based on this report, the Colombia Mining Company of Colombia was later potentially associated with Chivor by Sinkankas, as previously stated. The identity of the property had not been specified by Kunz, leading to speculation connecting the company with the likewise famous Chivor mines. However, research indicates that the Emerald Mining Company of Colombia referred to by Kunz was most likely Emerald Mines of Colombia, Limited, and therefore was engaged at Yacopi, not Chivor.

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\(^{9}\)Gamba, 1913.

\(^{10}\)Skinner, 1889–1890, 1891–1892.

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Given these incidents, returning to Bogotá would have been advisable only under protection of the German Resident.\(^8\) Nonetheless, Klein continued to pursue his goal of establishing himself in the Colombian emerald trade. In December 1907, for instance, prior to 1914, the German empire designated ambassadors to only a small number of important nations, with such individuals serving in cities such as Paris, London, Rome, Madrid, Washington, and St. Petersburg. For other countries, including Colombia, the German Empire designated officials termed residents, who held rights for purposes of international law essentially equivalent to those of ambassadors.

\(^{7}\)Report by the former translator of the German Resident, September 1925, Historical Archive of the German Ministry of Foreign Affairs.

\(^{8}\)Letter from Fritz Klein, January 19, 1909, to his brother-in-law August Hahn in Idar, Germany.
Klein spent a short period in Barranquilla, a port city in northern Colombia, for a meeting with a local partner.\(^8\) By 1911, Klein's brother-in-law Dr. Ernst Jäckh\(^8\) (1875–1959, figure 10) had asserted his influence at the Ministry of Foreign Affairs in Berlin to secure the protection needed for Klein to re-enter Colombia and stay in Bogotá.\(^8\) An order was issued to the German Resident in Bogotá, Dorotheus Kracker von Schwartenfeldt, to assist Fritz Klein in Colombia, especially as regarded purchasing the Chivor emerald mines. Kracker von Schwartenfeldt later worked to clarify the legal situation in response to inquiries from the Syndicate El Chivor.

Klein returned to Bogotá in September 1911.\(^4\) He initially negotiated with the Colombian government

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\(^8\)Letter from Fritz Klein, December 23, 1907, to his father August Klein in Idar, Germany.

\(^8\)Dr. Ernst Jäckh married Fritz Klein’s oldest sister, Bertha (1874–1928), in 1899. From 1902 to 1912 he was editor-in-chief of a daily newspaper in Heilbronn, Germany. Beginning in 1908, Jäckh also made numerous trips to Turkey, where he came into contact with high-ranking representatives of the Ottoman Empire and became a friend of the German diplomat Alfred von Kiderlen-Waechter, who was appointed Minister of Foreign Affairs in 1910. Jäckh moved to Berlin in 1912 and served as a “consultant” with the Ministry of Foreign Affairs. In 1920, Jäckh founded the German Academy for Political Sciences in Berlin, and during the 1920s, he was a member of the German delegation to several international conferences. Through a conversation with Hitler in April 1933, he realized that he would not be able to keep his positions as the leader of various institutions. In May 1933 Jäckh emigrated together with his second wife Martha to Great Britain. He remained there until 1940, working for the British government in multiple functions. He moved in 1940 to the United States and taught as a professor at Columbia University in New York. See Jäckh, 1954.

\(^8\)Letter from the German Minister of Foreign Affairs, Alfred von Kiderlen-Waechter, November 25, 1911, to Fritz Klein’s brother-in-law Dr. Ernst Jäckh.

in hopes of establishing an emerald-cutting enterprise (figure 12), but these efforts were unsuccessful.85

In November 1911, Klein became aware of the Chivor mine through another German, Hermann Span.86 A preliminary option contract for the mine, initiated by Span, was executed on February 13, 1912, and on June 5, 1912, after Klein conducted preliminary exploration of the mining area, terms were further formalized in a notarized option contract signed between Span and Klein on one hand and the mine owners Compañía de las Minas de Esmeraldas de Chivor on the other. The latter contract provided an exclusive right to purchase the mine for £51,000 (equivalent to 255,000 pesos oro; see again table 3) and was valid for a one-year term.87 Span and Klein were also given the right to mine samples in Chivor during the stated pendency of the option.

Klein was not alone in his interest in Chivor during this period. Dixon (see again box A), previously active in Muzo88 and already both a shareholder in the Compañía de las Minas de Esmeraldas de Chivor and a co-owner of the three newer Chivor mining titles, was engaged anew in exploration in the region, commencing additional mining ventures. As reported in 1911: “Mr. Christopher E. Dixon, formerly engineer in charge of Muzo mines, personally extracted over a pound of emeralds by scratching about in one place and another…. Somondoco [sometimes called ‘Chivor’ from the valley near it] will soon yield gems to delight the world.”89

On June 11, 1912, Klein set out from Bogotá to obtain samples for presentation to potential investors.90 He was accompanied by Restrepo and remained at the mine until January 1913. During that time, from late October to early November 1912, an official from the German Residency in Bogotá visited the site and reported91 that within a short period of four to five weeks, the work undertaken by 15 to 20 indigenous people had produced quite favor-
able results. According to Klein,92 they focused for the first four months on poor targets, but when he finally understood “the direction of the veins and the character of the mine, the production of emeralds began in surprising abundance. With 20 workers, I unearthed in 3½ months under the most primitive conditions conceivable about 6,000 carats of emeralds, which have a minimum value of 150,000 marks [then equivalent to US $37,500].” At the end of 1912, Klein’s younger brother August arrived in Colombia for support.93 He remained at the mine, together with Restrepo’s younger son Alejandro, when Klein and Restrepo subsequently departed for Germany.

Klein left Bogotá in March 1913 to search for investors in Germany. With the approval of the local government, he carried a sample of emeralds produced during his approximately six months at the mine. The set consisted of 157 “gangas” (emeralds still embedded in the original host rock) and over 5,000 carats of crystals in varying sizes and shapes.94 Having received a license for exportation (figure 13), Klein wanted to use these samples to interest potential European investors. In furtherance of this mission, Klein arranged before leaving to have the term of the option contract extended, this time exclusively in his own name and without Span.95 That extension, valid for nine months, was signed in July 1913 by several of the shareholders together with Escovar, representing Restrepo, and the attorney Dr. Antonio José Cadavid96 (figure 14), representing Klein.97 Word had already come to the German Residency in Bogotá.

92Exposé der Smaragdmine “El Chivor” by Fritz Klein, undated, 16 pp., received by the German Ministry of Foreign Affairs September 13, 1913, German Federal Archive.
93August Klein traveled from Hamburg via New York, where he arrived in October 1912. File A. Klein, List or Manifest of Alien Passengers for the United States Immigration Officer at Port of Arrival, New York, October 1912, MyHeritage.com.
94Report by a member of the German Residency in Bogotá, Josef Wipperfeld, March 27, 1913, German Federal Archive.
95Hermann Span left Colombia for Germany in August 1913 to form a banana company, apparently ending his pursuit of the Chivor emerald business. He returned to Colombia in April 1920. Diario Oficial (Colombia), 58, No. 18319–18320 (1922), p. 478.
96The lawyer, law professor, and politician Dr. Antonio José Cadavid (1866–1919) served in various positions as professor at the National University, Minister of the Treasury (1909–1910), and Minister of War (1915–1916). See Bermúdez (1966).
97Escritura 1474, July 15, 1913, Notaria 2, Archivo General de la Nación (Colombia).
gotá that Dresdner Bank, one of the larger financial institutions in Germany, might be interested in funding the purchase of Chivor.

Klein traveled to Germany with Restrepo, who remained there until his return in November 1913.98 Restrepo’s stay in Germany included time in Idar, where he met members of Klein’s family, and in Berlin, where he met Jäckh, Dr. Hjalmar Schacht (figure 15),99 and presumably other possible investors. Restrepo’s sojourn incorporated a period in May 1913 at the renowned sanatorium of Karlsbad100 to restore his health. Restrepo also traveled to Meran, Tyrol, Austria, to see Klein’s father August.101 Klein, in turn, traveled to England in October 1913 to show the emerald samples to members of the company Rudolf Hahn & Sons, London,102 dealers in high-end gem materials, and other potential backers.103

Meanwhile, initial steps were taken by unknown parties between 1913 and 1914 to start a company in London under the name Emerald Mines of Somondoco, Ltd. The stated aim of the entity was “to acquire and work the Emerald Mines called El Chivor No. 1 and El Chivor No. 2” (figure 16). The capital was to consist of £90,000, with 90,000 shares to be issued at £1 each.104 Nonetheless, no further activity pertaining to this company is known, so any underlying rival or alternate plan targeting Chivor was apparently abandoned.

Soon after Restrepo’s return to Bogotá, another extension to the option contract, granting Klein exclusive rights to purchase the mine until December 1914, was signed by Cadavid, representing Klein.105

LITIGATION BETWEEN MINE OWNERS AND THE COLOMBIAN GOVERNMENT (1912–1913)
The commercial success of a gem mine depends primarily on the value of mined stones and the cost of mining operations. Also significant are the amount of duties and taxes imposed and the ability to sell the

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**Figure 15. Dr. Hjalmar Schacht served as a vice director of Dresdner Bank, one of the larger German financial institutions, from 1908 to 1915. Separate from his role at the bank, he opted in 1914 to privately invest in the Chivor mine with Fritz Klein, August Stauch, and the company Rudolph Hahn & Sons, London, in pursuing the Chivor mine. Photo circa 1900, courtesy of Cordula Schacht.**
gems on the open market. During relevant periods in Colombia, the applicable framework of various laws and decrees, issued at different times and subsequently incorporating multiple addendums and amendments, was rife with complexity. The major emerald mines of Muzo and Coscuez had belonged to the government since 1886, but a number of mostly smaller mines existed under private ownership. After 1905, however, registration of new emerald mines by private owners was no longer permitted and additional taxes were imposed upon the existing mines [Law No. 40 of 1905].

Prior to the 1905 change in regulations, a provision allowed for the annual taxes on privately owned mines to be paid in advance for a period of 20 years. Thereafter, these so-called free mines were to be forever excluded from any taxes and fees and could no longer be registered by other persons [Law No. 292 of 1875, Article 45, adapted in Law No. 38 of 1887].

As noted previously, the taxes for Chivor 1 and 2 had been paid in advance for 20 years. After the law changed, the nature of the rights afforded to the free mines became a subject of repeated controversy and litigation between the mine owners and the Colombian government. The disputes centered on three issues:

1. Taxes and fees payable by the owners of free mines
2. Control of mining operations by the government
3. Control of emerald sale and export by the government

An initial legal action challenging several laws and decrees was filed by Francisco de P. Matéus in his name and on behalf of several other owners of free mines. The eventual decision of the Corte Suprema de Justicia on August 2, 1912, was a partial victory for the mine owners, ruling that governmental control of the mining operations was illegal but that state control of emerald exportation could continue. A copy of the decision was mailed to Guateque to inform Restrepo and Klein, who were working at Chivor at the time.

In October 1912, the government rejected a complaint by Dixon about restrictive rules circumscribing the emerald mining business after a seven-year dispute that had begun in 1905 (again, see box A). A new decree by the Colombian government was then issued in December 1912, followed by a supplement in January 1913, which sought again to increase control by governmental institutions over free mines. Opposition to the new regulations began immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor, opposition immediately, with a petition by Isaza, shareholder in the Compañía de las Minas de Esmeraldas de Chivor.
to the Minister of Finance in January 1913\textsuperscript{109} and a similar petition by Klein in February 1913.\textsuperscript{110} An additional legal action challenging several of the older laws and decrees and the two new decrees was filed on February 22, 1913, by the attorney Cadavid in the names of three Compañía de las Minas de Esmeraldas de Chivor shareholders (the Colombian citizens Isaza, Escovar, and González).\textsuperscript{111} The decision of the Corte Suprema de Justicia, issued August 22, 1913, nullified several of the contested laws and decrees, ruling that the free emerald mines could work without any further governmental control.\textsuperscript{112} That result (figure 17) was telegraphed to the Ministry of Foreign Affairs in Berlin by the German Resident in Bogotá on September 7, 1913, and Klein was promptly informed via his brother-in-law Jäckh.

**ACTIVITIES IN 1914**

After the favorable resolution of the legal situation in Colombia, Klein was able to continue searching for and negotiating with potential investors. In this endeavor, Jäckh and his contacts with political and business elites once again proved instrumental. Restrepo, as indicated above, had already returned to Colombia.

The search culminated on February 14, 1914, with the founding of the Syndikat El Chivor (Syndicate El Chivor, used hereinafter) between four members, with initial capital contributions as follows:\textsuperscript{113} August Stauch (figure 18),\textsuperscript{114} Berlin-Zehlendorf, 25,000 marks; Dr. Hjalmar Schacht, Berlin-Zehlendorf, 10,000 marks; Rudolf Hahn & Sons, London, 10,000 marks; and Fritz Klein, Idar, 5,000 marks. The founding contract further contained provisions addressing usage of the initial capital, investigation of the property by an expert, and terms of any future purchase of the mine. The services of an expert were considered necessary because the quality of Klein’s samples was inadequate to convince all investors to formalize the purchase, absent independent examination of the mine (figure 19).\textsuperscript{115} In these endeavors, the four members agreed that the company should be privately financed, without institutional funding from Dresdner Bank or any other German banking firm.
Emeralds from the Chivor region are found as individual single crystals (A–C) or as crystal aggregates (D–F). These aggregates consist of parallel or subparallel oriented crystals or even of radiating, strongly inclined individuals. The habit of the emerald crystals is formed by six or twelve hexagonal prism faces in combination with two basal pinacoids (A–C, G–J). Occasionally, different hexagonal dipyramids are also seen (I and M). The basal pinacoid might show incomplete growth surfaces (K), and, in extreme rare cases, cavities parallel to the hexagonal crystal axis are seen (L). The mineral assemblage within the emerald-bearing veins at Chivor consists of pyrite (A–C, N–R) frequently associated with albite (var. cleavelandite), calcite, dolomite (O–R), occasionally quartz, and limonite (mainly goethite) formed by the alteration of pyrite. The host rocks of the Chivor deposit are breccia, layered limestones, albites, and black and gray shales (C–K, M–S). Photos by G. Martayan, Paris.

**Emerald crystal:** 19 × 7.5 mm  
**Habit:** *hexagonal prism faces terminated by flat basal pinacoids; the large beryl crystal is intergrown at different angles with smaller crystals*  
**Associated minerals:** *dodecahedral pyrite crystals*
Emerald crystal: length 33 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids
Associated minerals: albite, pyrite, calcite

Specimen: 21 × 19 × 14 mm  Emerald crystal: length 7 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: gray dolomite, albite, pyrite
Matrix: gray shale

Cluster of intergrown emerald crystals, specimen: 43 × 38 × 36 mm; several crystals exhibit striations (growth patterns) on basal pinacoids or on prism faces; some crystals of the aggregate contain carbonaceous inclusions
Associated minerals: limonite
Specimen with emerald clusters: 45 × 33 × 23 mm, largest cluster: 18 × 16 mm
Associated minerals: dolomite, albite, pyrite
Matrix: gray shale

Emerald cluster, specimen: 20 mm across; the crystals of the aggregate are inclined to each other
Associated minerals: albite

Specimen with emerald crystal  Crystal: length 8 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: pyrite, dolomite
Matrix: breccia

Specimen with emerald crystal  Crystal: 11 × 4.5 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: white albite, pyrite, dolomite
Matrix: gray limestone
Emerald crystal with channels parallel to the c-axis
Specimen: 17 × 11 × 11 mm
Associated minerals: gray dolomite
Matrix: black shale

Specimen with emerald crystal
Crystal: length 8 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: pyrite, dolomite
Matrix: breccia

Specimen with emerald crystal
Crystal: length 13 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids
Associated minerals: pyrite, gray dolomite rhombs
Matrix: gray shale

Specimen with emerald crystal
Crystal: length 5 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids, indentations in the basal pinacoid
Associated minerals: gray calcite rhombs, white albite, pyrite
Matrix: black shale

Specimen with emerald crystal
Crystal: length 6 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: white albite
Specimen: 60 × 45 × 55 mm  Emerald crystal: length 6 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: pyrite, dolomite
Matrix: black shale

Specimen: 42 mm across  Emerald crystals: up to 14 mm in length
Habit: hexagonal prism faces terminated by flat basal pinacoids, prism faces with striations parallel to the c-axis
Associated minerals: dolomite, pyrite, embedded in a white dolomitic matrix

Specimen: 32 mm across  Emerald crystal: length 9 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids
Associated minerals: pyrite, gray dolomite rhombs, white albite
Matrix: black shale
Specimen: 38 × 35 × 18 mm
Emerald crystal: length 20 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: white albite, small pyrite nodules
Matrix: black shale

Specimen: 67 × 50 × 50 mm
Emerald crystal: length 18 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: albite, dolomite, small pyrite nodules
Matrix: layered gray limestone

Specimen: 15 × 12 × 5 mm
Largest emerald crystal: length 11 mm
Habit: hexagonal prism faces terminated by flat basal pinacoids and hexagonal dipyramids
Associated minerals: white albite
Matrix: gray shale
The initial paid-in capital was to be used solely to finance the expert evaluation. Klein was to assist the scientific expert in his activities. Any subsequent purchase of the mine would proceed through exercise of Klein’s option by paying the price of £51,000 (equivalent to 1,020,000 marks and identical to the 255,000 pesos oro specified in the option contract). Klein was to receive 1,250,000 marks cash from the investors to purchase the mine and would be entitled to 20 percent of the shares of a future mining company.

As communicated in a letter from the Syndicate El Chivor dated February 16, 1914, Prof. Robert Scheibe, Historical Archive of the German Ministry of Foreign Affairs.

Following the just-described formalities, letters were sent from the Syndicate El Chivor to the German Ministry of Foreign Affairs in Berlin and to the German Resident in Bogotá. Therein, Schacht and Stauch sought to obtain clarification regarding the situation in Colombia, inquiring as to the legality of the mining titles, any obligations to pay taxes or additional fees, the parameters for authorized export of the emeralds and so forth. The German Resident in Bogotá, Dorotheus Kracker von Schwartzefeldt, in turn contacted González as a representative of the mine owners, the attorney Cadavid, and the Ministro de Hacienda for details before responding in a letter to Schacht dated June 15, 1914.

Figure 19. In a letter dated November 7, 1913, London-based Rudolf Hahn & Sons advised owners of the Chivor mines that the quality of the emerald samples shown by Fritz Klein was inadequate to justify purchase of the property. Courtesy of Eduardo Restrepo Ortega.
Scheibe arrived with Klein at Chivor on April 4, 1914. Over the course of the next several months, he prepared four interim communications121 and a final report,122 offering a window into circumstances at the mine during that time. At the outset of his visit, a period of heavy rain made geological fieldwork almost impossible. Progress was also impacted when, on April 20, 1914, Restrepo became seriously ill and lost consciousness. As Scheibe wrote:123

We believed it a crisis in encephalitis but he did not wake up again, he lay motionless. On April 23rd we decided to transport him to Guateque despite the rain. The workers did as much as humanly as possible on the muddy and unstable mountain path. Mr. Klein and

Mr. Restrepo’s son, who was working as foreman here, accompanied the transport. On arrival at Guateque late in the evening, Mr. Restrepo died and was buried the day after.

A Colombian certificate of death dated April 24, 1914, was issued documenting Restrepo’s passing (figure 21).

When conditions improved, three weeks were spent repairing the mine’s aqueduct, after which the first clean but small emeralds were found in

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121Letters by Prof. Robert Scheibe, Historical Archive of the German Ministry of Foreign Affairs.
122The final report, dated September 3, 1914, was provided by the grandchildren of Prof. Robert Scheibe.
123Letter from Prof. Robert Scheibe, May 1, 1914, Historical Archive of the German Ministry of Foreign Affairs.
May and June and commercial material was mined in July. A representative of the German Residency in Bogotá also visited the mine from July 3 to 16, 1914, and reported on his observations.124 Between late July and early August, Scheibe finished his investigations, planning to return to Bogotá together with August Klein on August 2.125 The outbreak of war in early August, however, curtailed such plans and suspended Klein’s pursuit of the Chivor project.

Scheibe’s final report,126 dated September 3, 1914, and written in Bogotá, offered his conclusions as to the viability of Chivor. The report began with a detailed description of the geological conditions, then covered both the expected yield and the anticipated costs. As to the yield, he reported:

In the 4 months of my presence at the mine [April 4 to August 2, 1914] with a labor force of 25 men gem quality emeralds of a value of about 40,000 marks were mined…. I do not doubt that emeralds of a good kind are to be found elsewhere in the above mentioned area and beyond…. I consider the pit itself to be exploitable, especially since the prices of emeralds are high—also in Chivor stones were found that are estimated to 800 marks per carat. The average value of the usable stones found during my time there [1,267 ct = 39,420 marks] is about 31 marks for one carat of raw stones.

The start-up investment for mining equipment was calculated at 150,000 marks. Annual operating costs for 150 workers, six supervisors, one commercial manager, one mining engineer, and one head of operational activities was estimated at 142,000 marks. Taking into account those parameters, in combination with the material recovered during his time there and the purchase price for the mine, Scheibe saw a realistic chance for a successful venture but also an extremely high “risk” in buying the mine under the existing conditions. Hence, he was unable to offer an unqualified recommendation to buy Chivor for the contract price.

WORLD WAR I
The international conflict that became World War I began in August 1914 and had far-reaching consequences for Chivor. Germans who found themselves overseas faced an ongoing series of complications and decisions. Early on, there was hope that hostilities would end quickly and normal business pursuits could be resumed after waiting a few months. As that hope faded, the desire to return home became stronger. However, a simple trip to Germany was hindered by the fact that British warships stopped commercial or passenger ships, even vessels of neutral states, and transported any German passengers to internment camps.

Klein waited, using the time to reprise his efforts to obtain permission for an emerald-cutting enterprise in Colombia. As before, his petition dated November 12, 1914, was swiftly rejected.127 Klein then left Colombia in December 1914 or January 1915, returning to Germany, possibly under false papers.128 He entered a cavalry regiment stationed in Ludwigsburg, southern Germany, as a volunteer on February 20, 1915.129 According to Klein, he felt that this service was a duty he owed to his country.130 The equipment used at Chivor was held by a custodian in Klein’s absence, presumably in hopes of resuming operations in the future.131

Scheibe deemed an attempt to return to Germany, combined possibly with years of internment, too risky. He therefore decided to stay in Colombia, working for the government as a geologist. Becoming head of the Comisión Científica Nacional (National Geological Commission), he devoted himself to exploring the country’s important mineral resources. For instance, he prepared reports on the Muzo emerald deposit, published in 1916 and 1922, for the Ministerio de Hacienda.132 His work on behalf of the government continued until his return to Germany in the spring of 1920133 and was recognized with an appointment as an honorary professor at the University of Bogotá. Upon request of the government, Scheibe subsequently returned to Colombia in 1921 under a three-year contract, again as the head of the Comisión Científica Nacional.
PURCHASE OF CHIVOR BY AN AMERICAN COMPANY (1919)

Following World War I, both Klein and his brother August were interested in continuing with the Chivor project. Nonetheless, several developments during the interim changed their previous plans and expectations. From a personal standpoint, each of the Klein brothers had married in 1919, Fritz to Claire Cullmann and August to Liese Brill, so future work would need to take their new wives into consideration.

From a business perspective, war altered the economic landscape for the Syndicate El Chivor. The exchange rate of the mark decreased dramatically, and the financial situation for at least one investor, Rudolf Hahn & Sons, London, deteriorated substantially.134 To accommodate this scenario, a new investor in the Syndicate El Chivor was found, the Dutch shipping firm Wm H. Müller & Co., based in The Hague and Rotterdam.135 In addition to its primary shipping and transport business, Wm H. Müller & Co. participated in various mines and other industrial companies.

After the foregoing preparations were initiated, Klein and his wife Claire left Germany for Bogotá in late July or early August 1919.136

Meanwhile, a new competitor for Chivor had entered the fray after Klein’s option expired during the war. The Colombian Emerald Syndicate, Ltd. had been founded in the United States on June 22, 1918,137 by a group of American bankers and speculators from the oil industry. Those involved were principally associated with the Carib Syndicate, Ltd. and the Colombian Petroleum Co., which pursued commercial ventures in the oil business in Colombia and Venezuela.138 Key figures included Wilson E. Griffiths (1851–1929) and Carl K. MacFadden (1872–1952).139 Griffiths and MacFadden (figure 22) made several trips to Colombia between 1917

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134 Eugen and Paul Hahn, as well as their brother Rudolf, had been interned in the United Kingdom from 1915 to 1918. Assets of the company in the United States worth $225,000 and in Britain worth £250,000 (equivalent to US $1,250,000) had been confiscated as enemy property. See Hahn v. Public Trustee, [1925] Ch. 715 (Eng.); [1926] 95 Law Journal Reports 9 (Ch.), pp. 9–22 (Eng.).

135 Letter from August and Liese Klein, January 4, 1920, to Fritz and Claire Klein. No further relevant documentation was found in archived records of Wm H. Müller & Co., held at the Rotterdam City Archive (Stadsarchief Rotterdam).

136 Letter from August and Liese Klein, September 26, 1919, to Fritz and Claire Klein.


139 The Pittsburgh Press, December 29, 1895, p. 12; Escritura 3084, December 27, 1919, Notaria 1, Archivo General de la Nación (Colombia); Rausch, 2014; Torres del Río, 2015. MacFadden’s name is also written as Mac Fadden or McFadden.
drawn to the Chivor emerald mine and its history by Dixon.144

Upon his arrival at the Colombian port of Barranquilla, Klein was informed of a legally valid option contract held by the U.S.-based corporation.145 Hence, Klein could only wait to see if the Americans exercised the option, as expressed by his brother: “Now, December 8 is getting close, and thus the final decision. We are of course all very excited about the result and would be very happy if it turns out in your favor.”146

In a last-ditch effort to thwart the signing of a deal by the Americans, Klein on December 22, 1919, filed a complaint with the Colombian government alleging that the legal status of Chivor 1 and 2 was unclear.147 Such a move, which would likely have rendered the property unavailable for sale pending any attendant investigation, resulted only in directives that Klein support his assertions with documentary evidence.148 When he failed to do so, the complaint was dismissed in April 1921, having had no effect.149

On December 27, 1919, Chivor 1 and 2 were purchased from the Sociedad Ordinaria de las Minas de

and 1920, focused generally on establishing American interests in the oil business there and particularly on obtaining control of an oil field at the border between Colombia and Venezuela, referred to as the “Barco concession.” The emerald business was merely an adjunct to their activities in the oil industry. The companies operating in the two sectors were formally separate but were led by the same officials and were even marketed jointly in advertisements (figure 23).

An option contract to purchase Chivor had already been obtained on April 3, 1918,140 prior to establishing the Colombian Emerald Syndicate in June 1918.141 A second option contract was executed on August 13, 1919,142 with a term running to December 8, 1919.143 MacFadden’s attention had been

Figure 23. Although the American companies involved in Colombian oil and emerald were formally separate, they were led by the same individuals and were even marketed in joint advertisements. Image from “The Colombian Review,” published by the Government Information Bureau of the Republic of Colombia, New York, 1920.

140 This first option was mentioned in the sales contract for Chivor, Escritura 3084, December 27, 1919, Notaria 1, Archivo General de la Nación (Colombia).
141 These two events coincided with the travels of Griffiths and MacFadden, who were together in Colombia in early 1918 before leaving the country on April 20 and arriving in New York on May 3, 1918. Files Wilson E. Griffiths and Carl K. MacFadden, List of United States Citizens, Arriving at Port of New York, May 3, 1918, Ancestry.com. The option was thus signed while they were in Colombia, and the company was incorporated shortly after their return to the United States. Although the actual April 3, 1918, option contract for Chivor has not been found, an option contract with that date and signed by Griffiths was located for the transfer of an oil field concession from Virgilio Barco to the Compañía Colombiana de Petróleos, Escritura 331, April 3, 1918, Notaría 4, Archivo General de la Nación (Colombia).
142 This second option was also mentioned in the sales contract for Chivor, Escritura 3084, December 27, 1919, Notaria 1, Archivo General de la Nación (Colombia).
143 Letter from August and Liese Klein, December 5, 1919, to Fritz and Claire Klein; Canova, 1921.
144 Rainier, 1931, p. 223 (comment by Carl K. MacFadden).
145 Letter from August and Liese Klein, September 26, 1919, to Fritz and Claire Klein.
146 Letter from August and Liese Klein, December 5, 1919, to Fritz and Claire Klein.
149 Diario Oficial (Colombia), 57, No. 17687–17688 (1921), p. 258.
Chivor by the American group. Pursuant to the sale contract, the mine titles for Chivor 1 and 2 and the land holdings of the Colombian company were transferred for a purchase price of £46,000 (equivalent to US $230,000) to Griffiths and MacFadden. Griffiths and MacFadden were represented in the transaction by Leon J. Canova, acting under a power of attorney dated October 31, 1919.

In retrospect, circumstances rendered it almost a foregone conclusion that the Colombian Emerald Syndicate would not turn away from the opportunity to purchase Chivor. Between the corporation’s founding and the time the option was exercised, the price of the 4,000 issued shares had increased from $25 to approximately $1,100 with continued appreciation to $4,000 or $5,000 expected. Moreover, the company had already started mining operations, and president Nathaniel W. Ross (1874–1938) was by October 1919 referring to Chivor as “the company’s mine.”

Civil mining engineer Harold Case Willcox had been hired in December 1919 to map the area for a deeper understanding of the geological setting, and he continued in that position until March 1920. Later, Willcox worked for the Carib Syndicate, Ltd., in Colombia, underscoring the interconnectedness of the companies involved with the American investors.

In July 1920, a local mining company was formed in Colombia by Griffiths and MacFadden to serve as the operating entity for the Colombian Emerald Syndicate. Known as Colombian Chivor Emerald Company (Compañía Colombiana de Esmeraldas de Chivor), stated capital was to consist of 20,000 shares at $5 each (figure 24; again, see table 2).

In September 1920, Ross retired from business and was thereafter succeeded by MacFadden as president of the Colombian Emerald Syndicate. Griffiths served as one of the company’s directors, and Dixon acted as the Colombian manager.

By 1921, interests in the titles to the other three Chivor mines, Triunfo de Chivor, Paz de Chivor, and Esperanza de Chivor were represented to be under the ownership or control of the Colombian Emerald Syndicate or the Colombian Chivor Emerald Company, but the nature of any relevant transactions is not otherwise elucidated (again, see box A).

### Figures

**Figure 24. Share certificate for the Colombian Chivor Emerald Company (Compañía Colombiana de Esmeraldas de Chivor), formed in 1920 in Colombia as the operating company for the U.S.-based Colombian Emerald Syndicate, Ltd., which had purchased the Chivor mines in December 1919. Courtesy of Eduardo Restrepo Ortega.**

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150 Escritura 3084, December 27, 1919, Notaría 1, Archivo General de la Nación (Colombia).

151 Ibid.

152 A share split was performed in late October to early November 1919, with the value of 50 new shares being equivalent to that of one old share. *The Washington Post*, December 11, 1919, p. 11.


155 *Schwarz*, 1953.

156 *American Society of Civil Engineers, Year Book 1920*, p. 312; *Oil Dom*, 12 (1921), pp. 28–30.


160 Canova, 1921.
brothers, such a plan was never implemented. Instead, Klein (figure 25) was hired by the Colombian Emerald Syndicate for two terms as head of mining operations at Chivor, from 1920 to 1921 and 1922 to 1923.\(^{161}\)

At the time of Klein’s hiring, Dixon had been overseeing Chivor’s administration.\(^{162}\) According to Klein (1941, 1951), he was hired because Dixon had failed to obtain a profitable supply of gem-quality emeralds. However, during Klein’s first engagement, Dixon continued to be involved in the background, still working for the Colombian Emerald Syndicate.

At that time, the mine was worked exclusively by the traditional open-cut method of preparing terraces or steps in the extremely steep environment (figure 26). During the initial contract period of approximately six months from the fall of 1920 to the spring of 1921, Klein was assisted by several American mining engineers, including Eugene Brossard.\(^{163}\) A notable discovery occurred in December 1920 when a 632 ct emerald crystal (figure 27) was found at Chivor by miner Justo Daza.\(^{164}\) Klein (1941, 1951) recounted that Daza located the cavity and that Klein himself carefully removed the crystal. The emerald was personally transported to New York by Brossard in January 1921.\(^{165}\) The extraordinary stone generated great interest in the United States, and its arrival in New York was widely reported in the nation’s press.\(^{166}\)

The crystal was subsequently named the “Patrizius” or “Patricia” emerald after the patron saint of Ireland, the green island, according to Klein.\(^{167}\) Speculation that it might have been named after Klein’s

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\(^{161}\)Klein, 1941, 1951. No known contracts have been preserved to offer specific details, but general parameters and time frames can also be drawn from other contemporaneous materials such as newspaper reports and travel documents.

\(^{162}\)An example of Christopher Dixon’s leadership can be found in the form of a certificate he signed on September 27, 1920, at the time of Anibal Restrepo’s departure from employment at Chivor and recognizing nine months of exemplary service for the Colombian Emerald Syndicate, Ltd.

\(^{163}\)Eugene Brossard’s work in Colombia was recognized in an alumni publication of his alma mater: “Eugene Brossard Madison, is in the employ of the Colombian Emerald Syndicate… as assistant to the superintendent of the Chivor emerald mines.” The Wisconsin Alumni Magazine, 21, No. 6 (1920), p. 171. Another assistant at Chivor was F. Stewart Turneaure. Wisconsin State Journal, September 4, 1921, p. 7; Proceedings of the Geological Society of America for 1945, published 1946, p. 106. Yet another American involved at Chivor was the mining engineer William Burns, who was first employed by the Colombian Emerald Syndicate, Ltd., returning to New York in May 1922, and who later worked for the Colombia Emerald Development Corporation at Chivor in 1925. File William Burns, List of United States Citizens, Arriving at Port of New York, May 14, 1922, MyHeritage.com; Brock (1929).

\(^{164}\)Canova, 1921; Klein 1941, 1951; Johnson, 1959, 1961; Weldon et al., 2016.


\(^{166}\)The Brooklyn Daily Eagle, February 2, 1921, p. 1; The Montana Standard, February 7, 1921, p. 3; Sikeston Standard, February 8, 1921, p. 3; The Tennessean, February 15, 1921, p. 9. Inconsistently, multiple articles or reports in American newspapers from February or March 1921 provided a weight of 630 ct.

\(^{167}\)Klein, 1941.
daughter168 (whose name was Susanne)169 is unfounded. Whether to cut the stone was initially debated, but the crystal was preserved as such.170 The 632 ct emerald crystal is now in the collection of the American Museum of Natural History, New York, inventory number 42027, and was donated to the museum in 1953 by Mr. and Mrs. J. Robert Rubin.171 Rubin (1882–1958), a New York lawyer, served as one of the trustees and/or directors of the Colombian Emerald Syndicate in the 1920s.172 Prior to its donation, the emerald was transferred internally among company officials after financial pressures in March 1923 led the company to borrow $3,000 from two of the directors, pledging the emerald as security.173

After Klein’s first contractual commitment with the Colombian Emerald Syndicate ended, he and his wife returned to Germany via New York. They arrived at the New York port in August 1921 and may have spent a period of several months before continuing their journey.174

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170Jewelers’ Circular, 82, No. 6 (1921), p. 79.
174The documentation cites the Colombian Emerald Syndicate, Ltd., as Fritz Klein’s employer and gives four months as the intended length of stay in the United States. File Fritz Klein, List or Manifest of Alien Passengers for the United States Immigration Officer at Port of Arrival, New York, August 1921, MyHeritage.com.
Following Klein’s initial engagement at the helm in Chivor, Dixon resumed leadership of mining operations.\textsuperscript{175} Dixon reportedly claimed that during the six months from June to December 1921, emeralds worth $176,000 were recovered under his management.\textsuperscript{176} Meanwhile, the corporate leadership in New York had undergone a transition. MacFadden resigned in September 1921 from his role at the head of the Colombian Emerald Syndicate and was succeeded by Julian A. Arroyo.\textsuperscript{177} In summer of 1922, the company’s vice president, Joseph J. Paris, visited Colombia, returning to New York on June 15.\textsuperscript{178} About one week later, Dixon arrived in New York,\textsuperscript{179} and he spent time in the city during June and July,\textsuperscript{180} presumably meeting with Colombian Emerald Syndicate officials to discuss further activities at Chivor. Because no documentation after 1922 mentions Dixon in a management role at Chivor, the implication is that no agreement for his continued employment was reached.\textsuperscript{181} That, in turn, might have led to the rehiring of Klein.

The precise dates of Klein’s second contractual commitment with the Colombian Emerald Syndicate are unknown. He first traveled alone to Colombia, and his wife followed in August 1922.\textsuperscript{182} Good production was reported during this time,\textsuperscript{183} and Scheibe returned to conduct further scientific study at Chivor (figure 28).\textsuperscript{184} Nevertheless, the financial support for work at the mine was reduced, and, ultimately, mining activities were terminated. Even now, the reasons that precipitated the decline remain shrouded in history. On the corporate side, Paris replaced Arroyo as president in October 1922.\textsuperscript{185} 

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\textsuperscript{176}Gilles, 1930.

\textsuperscript{177}New York Tribune, September 13, 1921, p. 6; Engineering and Mining Journal 112 (1921), p. 466; The New York Herald, September 13, 1921; The New York Times, September 13, 1921. Some months later Carl K. MacFadden was also dismissed from his role at the Carib Syndicate, Ltd., oil company, New York Times, April 18, 1922, p. 32.

\textsuperscript{178}File Joseph Paris, List or Manifest of Alien Passengers for the United States Immigration Officer at Port of Arrival, New York, June 1922, MyHeritage.com; Investor & Trader, July 1, 1922, p. 6.

\textsuperscript{179}File Christopher Dixon, List or Manifest of Alien Passengers for the United States Immigration Officer at Port of Arrival, New York, June 1922, MyHeritage.com.

\textsuperscript{180}The Washington Times, July 2, 1922, p. 3.


\textsuperscript{182}Claire Klein traveled alone from Hamburg to Puerto Colombia. File Claire Klein, Hamburger Passagierlisten, August 1922, Ancestry.de.


\textsuperscript{184}Prof. Robert Scheibe fell ill in Colombia in February 1923 and died on March 3, following appendicitis and peritonitis. As a result, the Chivor study was never completed. A decree by the Colombian President dated March 8, 1923, was issued in honor of the deceased, and numerous Colombian newspapers carried his obituary. The congress in Bogotá honored his work and his selfless service to Colombia in June 1923 with an official state ceremony. Historical Archive of the German Ministry of Foreign Affairs. Diario Oficial (Colombia) 59, No. 18841-18842 (1923), p. 629.

\textsuperscript{185}Investor & Trader, October 14, 1922, p. 8.
ing engineer Brossard, with whom Klein had worked at Chivor, returned to the United States in July 1923.  

**BANKRUPTCY OF THE COLOMBIAN EMERALD SYNDICATE, LTD. (1923)**

As noted above, financial pressures at the company had become severe by March 1923 on account of expenses that exceeded the income generated from emerald sales. By April 4, 1923, an involuntary petition in bankruptcy had been filed against the Colombian Emerald Syndicate in the United States District Court in New York. At that time, Paris was still serving as the president, and Wolcott H. Pitkin was appointed receiver for purposes of the bankruptcy proceeding. Liabilities were initially estimated at between $45,000 and $48,000. Schedules detailing the assets of $314,039 and liabilities of $37,816 were then filed with the court on December 17, 1923.

At that time, the Colombian Emerald Syndicate owned the Chivor 1 and 2 mine titles and a one-third interest in the titles to the three other mines of the Chivor group. Outstanding debts were owed to, among others, present or former presidents, vice presidents, and/or directors of the corporation, such as MacFadden, Griffiths, Arroyo, and Rubin. Other listed creditors included Klein, mining engineer Brossard, the corporation’s attorney in Colombia Miguel S. Uribe Holguin, the Carib Syndicate, and the German firm Hahn & Klein.

Meanwhile, a stockholders’ committee was established to devise a method of raising funds to pay off the liabilities, and it was proposed that a new company would be formed to bid for the assets in an anticipated bankruptcy auction. A special meeting of creditors was held in January 1924 to consider and act upon offers to purchase the property.

The mining titles for Chivor 1 and 2 and the related land ownership were sold on or about August 23, 1924, to the recently formed U.S. company Chivor Emerald Corporation. Another new entity, the Colombia Emerald Development Corporation, was then established on November 7, and the Chivor claims and land were transferred to that company in late 1924. Throughout these machinations, the value of stock in the Colombian Emerald Syndicate fell precipitously, dropping from 65 cents per share in June 1922 and 40 cents in December 1922 to 5 cents in April 1923 and 1 cent in December 1923. The downward spiral continued thereafter, and the value was reported in 1925 at $1 for 600 shares.

With his employer’s demise, Klein returned to Germany and over the following months established his own company in Idar in 1924, focused on the emerald trade. He decided to travel to Colombia once again in March 1925. At that time, the sale of Colombian emeralds was still strictly controlled by the government, with the only authorized channel being through the firm Rosenthal in Paris. Klein’s aim was to obtain a similar authorization under which emeralds could also be sold to him directly or to a partner company. After intensive negotiations with Colombian officials, Klein was hired by the government as an evaluator for rough emeralds in Paris, in cooperation with the Colombian government’s representative in the city, J.M. Arango. Klein was never again active as a miner in Colombia, but remained at the center of the emerald trade. Several trips to Colombia in the second half of the 1920s and the early 1930s reflect his ongoing involvement.

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193 A company based in Idar, Germany, owned by August Klein and his brother-in-law August Hahn.
200 Klein traveled via the port of Hull in Great Britain to Santa Marta in Colombia. https://www.findmypast.co.uk/Colombia. Findmypast.co.uk
201 J.M. Arango was nominated General Consul of Colombia in Paris in 1925 and was responsible for the selling of emeralds to Rosenthal. Diario Oficial (Colombia), 61, No. 19862 (1925), p. 519.
<table>
<thead>
<tr>
<th>Date</th>
<th>Events in Colombia, Germany, or the United States</th>
</tr>
</thead>
<tbody>
<tr>
<td>1880s</td>
<td>Search for and rediscovery of old native and Spanish tunnels by F. Restrepo</td>
</tr>
<tr>
<td>March 1889</td>
<td>Mining titles for Chivor 1 and 2 are granted to F. Restrepo, E. González, B. Escobar, and Núñez &amp; Compañía</td>
</tr>
<tr>
<td>August 1896</td>
<td>F. Restrepo and L. Correa are referred to as the mine owners; E. González declares the Chivor mines “abandoned”</td>
</tr>
<tr>
<td>February 1898</td>
<td>Transfer of the mining titles to E. González</td>
</tr>
<tr>
<td>August 1898</td>
<td>Formation of a company by F. Restrepo and three companions; transfer of the mining titles to the company</td>
</tr>
<tr>
<td>1898–1899</td>
<td>Cleaning of former tunnels and repair of water channels at the mine by F. Restrepo</td>
</tr>
<tr>
<td>1899–1909</td>
<td>Numerous sales of shares involving different shareholders take place</td>
</tr>
<tr>
<td>1902</td>
<td>First publications by the British Vice-Consul S. Dixon mentioning the rediscovery of Chivor</td>
</tr>
<tr>
<td>August 1904</td>
<td>The five principal shareholders buy land from A. Acosta</td>
</tr>
<tr>
<td>December 1904</td>
<td>Three additional claims near Chivor 1 and 2 are registered for the Triunfo de Chivor, Paz de Chivor, and Esperanza de Chivor mines, with F. Restrepo, C. Dixon, and H. Campo named as co-owners of the three titles</td>
</tr>
<tr>
<td>1905–1906</td>
<td>C. Dixon attempts but fails to sell the three additional mines</td>
</tr>
<tr>
<td>February 1912</td>
<td>Preliminary option contract between F. Klein, H. Span, and the mine owners</td>
</tr>
<tr>
<td>June 1912</td>
<td>Formalized option contract with the mine owners; F. Klein and F. Restrepo start mining at Chivor</td>
</tr>
<tr>
<td>End of 1912</td>
<td>A. Klein joins the miners at Chivor</td>
</tr>
<tr>
<td>March 1913</td>
<td>F. Klein and F. Restrepo travel to Germany; A. Klein remains at Chivor</td>
</tr>
<tr>
<td>July 1913</td>
<td>Option contract with F. Klein is extended by Klein’s lawyer</td>
</tr>
<tr>
<td>November 1913</td>
<td>F. Restrepo leaves Germany for Colombia</td>
</tr>
<tr>
<td>December 1913</td>
<td>F. Klein’s option contract is extended again</td>
</tr>
<tr>
<td>February 1914</td>
<td>Formation of the “Syndikat El Chivor”; F. Klein and R. Scheibe leave Germany for Colombia</td>
</tr>
<tr>
<td>April 1914</td>
<td>R. Scheibe begins evaluation of Chivor; Restrepo becomes ill and dies at Guateque</td>
</tr>
<tr>
<td>August 1914</td>
<td>R. Scheibe finishes the evaluation of Chivor; outbreak of World War I</td>
</tr>
<tr>
<td>End of 1914 or early 1915</td>
<td>F. Klein leaves Colombia for Germany</td>
</tr>
<tr>
<td>1915–1916</td>
<td>C. Dixon again fails to sell the three additional mines</td>
</tr>
<tr>
<td>April 1918</td>
<td>Option contract between W.E. Griffiths, C.K. MacFadden, and the mine owners</td>
</tr>
<tr>
<td>June 1918</td>
<td>Formation of the “Colombian Emerald Syndicate, Ltd.”; N.W. Ross becomes president</td>
</tr>
<tr>
<td>July or August 1919</td>
<td>F. Klein and his wife leave Germany for Colombia</td>
</tr>
<tr>
<td>August 1919</td>
<td>Second option contract between W.E. Griffiths, C.K. MacFadden, and the mine owners</td>
</tr>
<tr>
<td>December 1919</td>
<td>Purchase of Chivor 1 and 2 by W.E. Griffiths and C.K. MacFadden</td>
</tr>
<tr>
<td>By early 1920</td>
<td>C. Dixon serves as Colombian manager for the “Colombian Emerald Syndicate, Ltd.”</td>
</tr>
<tr>
<td>By September 1920</td>
<td>C.K. MacFadden becomes president of the Colombian Emerald Syndicate, Ltd., succeeding N.W. Ross</td>
</tr>
<tr>
<td>Fall 1920–Spring 1921</td>
<td>F. Klein serves as head of mining operations at Chivor</td>
</tr>
<tr>
<td>December 1920</td>
<td>632 ct “Patricia” emerald is found and sent to New York</td>
</tr>
<tr>
<td>June–December 1921</td>
<td>C. Dixon serves as head of mining operations at Chivor</td>
</tr>
<tr>
<td>September 1921</td>
<td>C.K. MacFadden resigns as president and is succeeded by J.A. Arroyo</td>
</tr>
<tr>
<td>June–July 1922</td>
<td>C. Dixon travels to New York and presumably meets with company officials to discuss further activities at Chivor</td>
</tr>
<tr>
<td>Summer 1922–1923</td>
<td>F. Klein again serves as head of the mining operations at Chivor</td>
</tr>
<tr>
<td>October 1922</td>
<td>J.A. Arroyo is succeeded by J.J. Paris</td>
</tr>
<tr>
<td>By April 1923</td>
<td>An involuntary bankruptcy petition is filed in New York against the “Colombian Emerald Syndicate, Ltd.”</td>
</tr>
<tr>
<td>August 1924</td>
<td>Properties are sold to the “Chivor Emerald Corporation” in a bankruptcy sale</td>
</tr>
<tr>
<td>End of 1924</td>
<td>Properties are transferred to the “Colombia Emerald Development Corporation”</td>
</tr>
</tbody>
</table>
The present authors have endeavored to describe the events between 1880 and 1925 to the extent corroborated by contemporaneous primary documents, without filling gaps with dramatizations and apparent fabrications, some of which have been repeated so often as to become accepted “facts.” Also, no effort has been made to explain the origin of these discredited or unverified views. Consequently, the story given here leaves various points open, waiting for future closure through discovery of further records, whether in Colombian archives or elsewhere. A few of these lingering ambiguities and the milieu in which they arise may be highlighted as follows.

Klein’s 1941 memoir describes in a lively way his travels in South America, always connected with the pursuit of new gem deposits. It went to press in the middle of World War II and was geared toward a circle of readers interested in gemstones and the “adventures” associated with their discovery, mining, and trading. The book was not intended to be a historical document, consistent in all aspects with the rather complex and vacillating legal situation in Colombia, but was written for the entertainment of the interested reader.

Notably, the book was penned after an interval of almost 30 years, in terms of events before 1915, and nearly 20 years, based on the events after 1918. It is not known what contemporaneous documents and records were available to Klein when drafting the original manuscript or to what extent such manuscript was edited by the publisher or elsewhere, much less the expertise or awareness of those involved in the editorial process. A degree of liberality with facts is evidenced by the statement on the back cover of the 1941 edition referring to “drill holes that produced surprising results,” although no underground mining activities or their results were mentioned in the pages.

Looking at the chronology of events (see table 4), it can be seen that actual developments in Germany and Colombia, especially regarding the acquisition of Chivor, formed a rough framework for the story told by Klein. This background was supplemented and embellished in some places and even substantially dramatized in others. For instance, the purported one-and-a-half-year search for the first emeralds in Chivor, Restrepo’s death in 1914, and the “fight” for the mine with the American competitors in 1919 are all illustrative of the tendency to sensationalize.

Nonetheless, Klein did recount a large number of details that have been verified by contemporaneous materials, particularly concerning travel arrangements and individuals involved. The names offered for ships by which he journeyed between Germany, Colombia, and the United States have been corroborated by manifests, contracts, or letters, and many persons are accurately named and characterized, aside from minor spelling errors (e.g., the Colombian Emerald Syndicate’s attorney Uribe-Holguín and Klein’s lawyer Cadavid in Bogotá). On the other hand, some key figures are inexplicably absent or given a much diminished role. Stauch, a principal investor in the German group, is missing, and Klein’s brother-in-law Jäckh is given little credit for his crucial influence in obtaining protection for Klein to return to Colombia in 1911 and in facilitating contact with potential investors such as Schacht. The name of his own brother August, who spent nearly two years at Chivor, is never mentioned.

Further complicating the situation created by the dramatized version of events is the problem of gaps in the historical record. Regarding Restrepo, for example, certain aspects of his activities are clear, while others are unexplained. Materials found to date are silent as to his partner Correa’s involvement in the search for the forgotten Chivor mines in the 1880s, the reasons why the mining titles were twice transferred, first from Restrepo and three partners to Restrepo and Correa between 1889 and 1896, and later from Restrepo and Correa to González between 1896 and 1898; and the rationale for González shortly thereafter in 1898 to form a new entity in partnership with Restrepo and the other two original title applicants. Restrepo’s activities during several largely silent periods and his involvement in a range of other ventures, such as farming and the coffee trade, are equally obscure.

The record is likewise deficient as to the dealings of the Colombian Emerald Syndicate, including Dixon’s mining activities for the company, the circumstances that led to Klein’s employment simultaneously with Dixon during one interval, and the reasons precipitating the 1923 bankruptcy. Thus the story, and the search, continues.

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202Gaceta Judicial (Colombia), 20 (1911), pp. 49–57.
ABOUT THE AUTHORS
Dr. Schmetzer is an independent researcher living in Petershausen, near Munich, Germany. Mr. Martayan is a senior geophysicist and longtime emerald aficionado residing in Paris, France. Mr. Ortiz is a mechanical engineer and emerald dealer who owns the Colombia Emerald Co., based in Bogotá, and Los Angeles, California.

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Documents, pictures, biographical data, and other information concerning the events of the years 1880 to 1925 described here have been provided by relatives of the persons involved, who have willingly reviewed their private records. Thanks are given especially to Ms. Iris Böhmer (granddaughter of Dorotheus Kracker von Schwartzzenfeld), Mr. Simon Hamilton (great-grandson of George Dixon), Ms. Anette Klein (granddaughter of August Klein), Mr. Michael Krafft (grandson of August Stauch), Ms. Carola Kroll (granddaughter of Fritz Klein), Mr. Eduardo Restrepo Ortega (grandson of Francisco Restrepo Escobar), Ms. Cordula Schacht (daughter of Dr. Hjalmar Schacht), and Mr. Andreas Scheibe (grandson of Prof. Robert Scheibe). Literature on the history of the gem trade in Idar-Oberstein, as well as historical and biographical data, were shared from the private archives of Mr. Dieter Jerusalem and Mr. Klaus Eberhard Wild; biographical data from the Idar-Oberstein city archive was supplied by Mr. Manfred Rauscher. In the search for the relevant files on German activities in Colombia and related biographical data, Ms. Annegret Wilke and Ms. Lucia van der Linde, Historical Archive of the German Ministry of Foreign Affairs, and Mr. Ralf Engel, Garman Federal Archive, assisted. Prof. Kris Lane, Tulane University, New Orleans, generously discussed his extensive research on Colombian history. The Ernst Jäckh collection at Columbia University in New York was reviewed by Ms. Andrea Blake, and files of Wm H. Müller & Co. in the Stadsarchief Rotterdam were accessed by Mr. Martin Verbon. Victor Castañeda and Yovanny Alba accompanied one of the authors (GM) on various expeditions to the Chivor mining area. Finally, countless other unnamed individuals and staff members at various archives, libraries, and local administrations should also be thanked here for numerous details and clues that helped in finding descendants of individuals involved and in completing the puzzle.

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