##  Enterprise in Brazil: The St. John d'el Rey Mining Company, Limited, 1830-1960*

 - oreign entrepreneurs have played a highly visible and 1 controversial role in Latin American history since the out the colonial period, monarchs and bureaucrats periodically debated the role non-Iberian entrepreneurs should play in the New World empires. The wars of independence in the nineteenth century opened Latin American nations to a massive influx of British, and later, North American affairs. With the emergence of strong cultural and economic nationalism in the twentieth century, politicians and scholars have focused increasingly on the role of foreign investors and foreign enterprise in the de-
velopment process. Most of the scholarly literature during the decades has concentrated on the national and international the past three



 tion of individual foreign companies. Thus, despite the longstanding and

*The author would like to thank the editors of $H A M R$ and two anonymous reviewers for


1. See, for example: Gary A. Gereffi, The Pharmaceutical Industry and Dependency in the Third World (Princeton, 1983 ); Fernando Henrique Cardoso and Enzo Faletto, Depen-
dencia y desarrollo en América Latina: Ensayo de interpretación sociologica (Mexico
 Local Capital in Brazil (Princeton, 1979).
little about the actual operations, organization, and finances of specific firms. ${ }^{2}$
To a large degree, this ignorance stems from lack of access to company
 destruction of records, and firms still operating in Latin America are often reluctant to open private archin Amer-
 Dean noted nearly two decades ago. ${ }^{3}$ Careful analysis of the archives of foreign companies would allow us to clarify the debates over their role in Latin America-to move beyond the myths, legends, and propaganda. Such an analysis would allow us to begin to offer more precise answers to important and neglected issues. How do foreign firms in Latin America

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 André Gunder Frank have stressed how the entry of British capital into Latin American countries distorted the economies of the new republics



 2. Some recent studies using company archives are: Thomas L. Karnes, Tropical Enter-
e: The Standard Fruit and Steamship Company in Latin America (Baton Rouge, 1978); prise: The Standall, Real del Monte: A British Mining Venture in Mexico (Austin, 1972);
Robert W. Randal Jonathan C. Brown, "Why Foreign Oil Companies Shitted Their Production from Venezuela during the 1g20s," American Historical Reviet, $90: 2$ (Apr. $1985,362-305$, and
Allen Wells, Yucatán's Gilded Age: Haciendas, Henequen, and International Harvester,
1860-1915 (Albuquerque, 1985).
2. Warren Dean, "Sources for the Study of Latin American Economic History: The Records of North American Private Enterprises," Latin American Research Review, 3:3 (Sum-
 Experience in Latin America (Oxford, 1977) is a recent effor to
alism and dependency through an analysis of business archives.


 erage and the assistance of the collaborating elites-and, where appropri-


 the internal market. Finally, their political and economic power allowed foreign businesses to extract profits at levels higher than possible in domestic markets in the industrial nations. ${ }^{5}$
This article addresses these issues by examining the rise and fall
 American history. The British-owned and operated St. John d'el Rey Min-

 the Morro Velho mine in central Minas Gerais, the British constructed a business empire of gold mines, iron ore deposits, woodlands, farms, until the 1950s, the company was the single largest industrial century landowner, and taxpayer in Minas Gerais, and the producer of the vast majority of Brazil's gold bullion. This essay looks at the growth of the St. John's operations, focusing on management, labor strategies, technological '7S әЧL 'ssau!snq jo so!u!
 a rare opportunity to study the creation and evolution of an important foreign enterprise in Brazil, and to see the local, national, and international forces which interacted to shape the history of the company. 5. See, for example: Richard Graham, "Sepoys and Imperialists: Techmiques of British
Power in Nineteenth-Century Brazil," Inter-American Economic Affairs, $23: 2$ (Autumn 1969), 23-37; V. I. Lenin, Imperialism: The IIighest Stage of Capitalism (New York, 1939); and André Gunder Frank, Capitalism and Underdevelopment in Latin America (New York,
1967). See also the classic statement of John Gallagher and Ronald E Robinon "" 1997). See also the classic statement of John Gallagher and Ronald E. Robinson, "The Impe-
rialism of Free Trade," The Economic Ilistory Review, and series, 6:1 (1953),






 English company. These records include a nearly complete run of correspondence between

Despite its success and long history, the St. John has only recently at-
 a brief, anecdotal volume the company commissioned for its $125^{\text {th }}$ anniversary in 1955. Two young scholars in Minas Gerais have recently published works on the company. Yonne de Souza Grossi's Mina de Morro Velho: A extração do homem focuses on the history of the miners union between 1934 and 1964, relying heavily on personal interviews with mion activists and secondary sources. Douglas Libby worked in the St. ohn archives in Texas, producing a monograph on the companys use of slave labor in the nineteenth century. This article, and a book manuscript in progress, combine research in company archives in Brazil and Texas, as
 the most comprehensive analysis available of the St. Johnd Rey Ming Company, Limited. ${ }^{8}$

At the outset, it is important to place the role of the St. John d'el Rey in proper perspective by issuing several caveats. First, although this was the most powerful and successful of all the gold mining companies in Brazil, gold itself was a small and insignificant segment of the national economy. ${ }^{9}$ After 1840 , coffee would arise as the principal export and the motor of the Brazilian economy. A truer test of British political and econd gold power must come from than 1 percent of export earnings in this export-

the London office and Morro Velho, reports of company departments for most of this century, diaries of the superintendents, and a wide range of documents on all aspects of company operations. In addition, the Nettic Lee Benson Latin Amerias. Although less complete, this rich collection includes a complete run of the company's annual reports, thousands of photographs, stock registers, minutes of board meetings, and some of to
earliest correspondence. I would like to thank the staff of the Manuscript Department of the collection for guiding me through the materials in Austin (hereafter SJUT). I am grateful to the officials of Mineração Morro Velho, S.A., particularly Juvenil T. Fe their archive (here-
dente, and Paulo Sarmento, diretor comercial, for providing access to the after SJNL), and for their exceptional assistance and support during my research in Nova

8. Bernard Hollowood, The Story of Morro Velho (London, 1955); Yonne de Souza
Grossi, Mina de Morro Vellh: A extracão do homem: Uma história de experiência operária (Rio de Janeiro, 1981); Douglas Cole Libly, Trabalho escravo e capital estrangeiro no Brasil: "British Enterprise in Brazil: The St. John d'el Rey Mining Company, Limited and Nova Lima, Minas Gerais, 1830-1960.
9. At the begiming of the twentieth century, gold accounted for 6.77 percent of
Mineiro exports, cattle for 17.17 percent, and coffee 51.58 percent. Minas Gerais, Secre-
taria de Agricultura, Relatório, 1906. Table 6, "Exportaçōes comparativas de 1853-54, taria de Agricultura, Relatório, 1go6, Table 6, "Exportaçōes comparativas de 1853-54,
1873-74 e 1904," Arquivo Páblico Mineiro, Belo Horizonte (hereafter APM).

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not historically been subject to the market fluctuations of
not historically been subject to the market fluctuations of the inter-
national economy. The price of gold did vary, and it increased dramati-
 classic export pattern of drastically fluctuating demand and prices. Third,
 dormant industry, even within Minas Gerais gold mining remained a sec-
 the nineteenth century, as São Paulo and Rio de Janeiro took off with the coffee boom after 1840. Within Minas Gerais, the southern and south-
 ence economic coftee boom, leaving the old Zona Metalúrgica to experi-
 would emerge as major figures in Mineiro politics, and would be more
 fore, operated an exceptionally successful foreign enterprise, but one isolated from the economic mainstream of both the nation and Minas Gerais.

 more interested in agriculture and cattle raising than an isolated and secondary industry.

## Brazilian Gold and British Capital


 tralia, Alaska, Canada, and South Africa by more than 150 years. In the first half of the eighteenth century, Brazilian gold played a major role in the surging Western European economy and tightened Portugal's subordination to English economic and political power, making the mother country a virtual economic appendage of the colony. ${ }^{12}$ The rush also
10. For a recent economic history of Brazil since independence, see Nathaniel H. Leff, Underdevelopment and Developnent in Brazil, 2 vols. (London, 1982). For Minas Gerais,
see Francisco Iglésias, Politica econômica do governo provincial mineiro de
de Janeiro, 1958); and John D. Wirth, Minas Gerais in the Brazilian Federation 1889-1937 (Stanford, 1977).
11. Peter Louis Blasenheim, "A Regional History of the Zona da Mata in Minas Gerais,
Brazil, $1870-1906$ " (Ph.D. diss., Stanford, 1982).


 shifted the axis of economic and political power to the southeast of Brazil where it remains today. After 1750, the production of bullion leveled of and then began a long decline, leaving the new captaincy of Minas Gerais in decadence and economic stagnation. Gold production, which had apparently reached as high as 15 million grams ammally in $18{ }^{1 / 3}$ The eighteenth century, had fallen to barely mining industry suffered fritish would provide large amounts of all three in the carly nineteenth century


 zil in 1822 and the Constitution of 1824 removed the last foreign investment in the country-especialy under the imperial regime as they had



 14,259 pounds sterling in 1830) to the treasury as a guarantee against fu-

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By the third decade of the nineteenth century, Great Britain had be-



 13. W. L. von Eschwege, Pluto brasiliensis, 2 vols., Domício de Figueiredo, Murta,
(São Paulo, 1944), II, 49; João Pandiá Calogeras, As minas do Brasil e sua legislação, 3 rans. (Säo Paulo, 1944), II, 49; João Pandiá Calogeras, As minas do Brasil e sua legislação, 3
vols. (Rio de Janeiro, 1904-1905); and Pinto, O ouro brasileiro, p. 114 . 14. C. H. Haring, Empire in Brazil: A New World Experiment with Monarchy (Cam-
oridge, MA, 1958), pp. 5-6; John Mawe, Travels in the Interior of Brazil (London, 1815); Richard Graham, Britain and the Onset of Modernization in Brazil, 1850-1914 (Cam-





 republics with investments and manufactured goods. British investors pumped some £25 to £30 million into Latin America in the 1820s, with Brazilian projects taking the single largest share of this capital. The finan-
 siderably for the next 25 years. Investment accelerated after midcentury, and by the $\mathbf{1 8 g o s}$ British investments in Latin America probably totaled
 the total. ${ }^{16}$
The major portion of British capital investment funded the construction of railroads, ports, communications systems and public utilities, and
 percent of British investment in Latin America went into government bonds, another 35 percent to railways, about 7 percent to banking and finance, and 3 percent each to public utilities and mining ventures. Total British investment in Latin American mining hovered around £3.5 million for most of the nineteenth century, rising to more than $£ 20$ million in the 18 gos and reaching $£_{3} 8$ million by World War I. ${ }^{17}$ The major focal points of British mining investment were Brazil, Colombia, Mexico, and Chile, with Peru joining the group in the latter part of the century. Gold mining companies were concentrated in Brazil, Mexico, and Colombia. Almost without exception, the mining companies funded by British investors in nineteenth-century Brazil were gold mining enterprises. Brazil accounted for some 6 percent of British capital invested in Latin American
 18gos. ${ }^{\text {ts }}$
British
British investment in Brazilian gold mining during the nineteenth
ntury flowed in three major waves. The first wave appeared in the century flowed in three major waves. The first wave appeared in the
1820 and lasted into the 1830 . Great Britain had adopted the gold standard in 1816 and other nations followed her lead in the succeeding decades. The British eagerly sought to stimulate the production of Latin America's precious metals, which had declined in the late colonial period
16. J. Fred Rippy, "Early British Investments in the Latin American Republics," InterAmerican Economic Affairs, 6:1 (Summer 1952), 40; D. C. M. Platt, Latin America and
British Trade 1806-1914 (New York, 1973), pp. 36-37; and Irving Stone, "British Direct and Portfolio Investment in Latin America Before 1914," The Journal of Economic IIstory, 37:3 (Sept. 1977), 690-722. "B Portion "
17. Stone, "British Dir
18. Rippy, "Early Britis
Investments in the Hispanic World," Inter-American Economic Affairs, 8:2 (Autumn 1954),

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and practically ceased during the revolutionary upheavals. This rush for

 the bubble burst in 1825, speculation ran rampant in London financial markets as scemingly everyone from clerks to the highest politicians scrambled to get into the American mining ventures. ${ }^{\text {s }}$
A second, somewhat more intense wave swept into Minas Gerais in the 1860 s, primarily due to the success of previous ventures. The third, y and
 only two survived midcentury. None of the companies founded in the 1860 survived the century, although two lasted into the 18 gos. Those founded in the third wave (with one exception) disappeared by $1905{ }^{20}$ Brazil was not exceptional in the failure of mining ventures. enterprise
 America after 1820: less than a score became profitable. Of the 18 British companies to which the nineteenth-century Brazilian gold mining boom gave birth, however, several did become profitable, including the most successful of all the British gold mining ventures in Latin America.





 miners, managers, and their families who guided a slave labor force of

19. Randall, Real del Monte, pp. 32-42: Leclaud Ilamilton Jenks, The Migration of Brit-
 "British Direct and Portfolio luvestment," 692 .
 eds. (Manchester, Eugland, 1986), $p$ p. 10-28.
21. Rippy, British Investments, p. 32, and Rippy, "The British Investment 'Boom' of the
1880 's in Latin-American Mines," Inter-American Economic Affairs, $1: 4$ (Mar. 1948),
$72-74$.


| HAHR | NOVEMBER | MARSHALL C. EAKIN |
| :--- | :--- | :--- | only for a bricf period. The Imperial Brazilian was dissolved in the 1850 os





 companies surviving beyond 1905: the Ouro Preto Gold Mines Company operating the Passagem mine near Mariana until the 1920s, and the St.
 these companies apart from their less successful competitors: rich gold lodes and exceptional management
Creation and Consolidation of the Enterprise
A handful of British investors met in the City of London Tavern on April 5, 1830 to organize the St. John d'el Rey Mining Company. They had previously signed a contract with agents in Brazil leasing a pair of mines in southern Minas Gerais near the city of São João d'El Rei (hence the name of the company) (see Map 1). The agents, three British merchants and a German physician educated at Oxford, had obtained an imperial decree in November 1828 to work these mines, and they transferred the concession to the London investors. ${ }^{24}$ The founders of the new company were hardly newcomers to the American mining industry. John Mining Association operating new Gumajuto woll as anstiation
 most important and visible of mining entrepreneurs in London, Powles also had a mining venture with Simón Bolívar, and employed the young Benjamin Disraeli to write investment brochures. James Vetch, another company founder, had been the first commissioner at the Real del Monte, and Charles Herring, Jr. served on the boards of mining companies in Mexico and Chile. ${ }^{25}$ Herring and Powles also controlled a merchant house that had floated the first Colombian government loan in 1822. . $^{26}$
23. The principal sources on British mining company operations are: Othon Henry
 24. "Decrees and Statutes of Company," SJNL/P, "Comtract for the Mines of San Join
 tion of the company.
25. Simón Bolivar, Cartas del Libertador. 12 vols. (New York and Caracas, 1929-59), Disrueli (New York, 19677), pp. 24-26. James Velchis exploits in Mexexico are described in Randall, Real del Monte, pp. 40-76.
26. Susan Berglund, "Mercantile Credit and Financing in Venezuela, 1830-1870,"
Joutral of Latin American Studies, $17: 2$ (Nov. 1985), 377-379.
The company directors immediately announced an offering of £50,000 in stock to finance mining operations in Minas Gerais, and they dispatched a group of Cornish miners to Brazil under the direction of Her-
 over ownership rights and the creeping realization that the mines' value had been misrepresented compelled the company to shut down operaions by mid-1832. ${ }^{27}$ Herring proceeded to make a thorough search of the gold mining properties of central Minas Gerais, eventually focusing his attention on the Morro Velho mine a few miles south of Sabará alongside the village of Congonhas do Sabara (see Map 1). Apparently the deposit (lavra) had been worked since the early eighteenth century. In the early nineteenth century, a Catholic priest, Antônio Pereira de Freitas, worked the estate with primitive technology and about 100 slaves. ${ }^{2 s}$ A group of British merchants in the area, and the former superintendent at Gongo
 1830 s. The board authorized Herring to purchase the estate for $£ 56,434$, and issued a call for more capital stock. By the end of 1834 , the company had acquired legal ownership of what would become the most valuable gold deposit in Latin America. The estate covered nearly six square miles and included 136 slaves, as well as the existing mining equipment and the eighteenth-century Casa Grande. ${ }^{29}$
In addition to the purchase of the mine, the company had to raise funds to finance the construction of a modern mining operation with deep shafts, milling works, hauling equipment, aqueducts, and housing for company employees. Anxious investors had to wait nearly a decade for their investment to yield a return. ${ }^{34}$ The company paid its first dividend in 1842, and would pay fairly regular dividends until the mid-1880s (see Fig-
ure 1). The growing prosperity of the mine stimulated the growth of the
 numbers of miners and their families. By the 1850 , the British at Morro
 company. The board of directors hired an Anglican clergyman and his wife to handle religious duties and to educate the more than 60 children of the British community. The company erected a chapel and a schoolhouse



28. "Guardamoria, Datas de Terras e Aguas Minerais, Sabará, Raposos, Congonhas, Rio
 29. "Will of Anna Corrêa da Silva, 1829, " Doc. $1 \mathrm{~A} / 1, \mathrm{SJNL} / \mathrm{P} ; A R 1835, \mathrm{p} .23 ; \mathrm{Doc}$.
$1 / 2 \mathrm{C}$, $\mathrm{SINL} / \mathrm{P}$, contains the original bill of sale as registered in the local cartorio. 30. AR 1837,1842 .
LoL TIZvyg Ni asigdyaling hsiligg anv wsitvigadni ssanisog
 sion to lay out a cemetery for the Protestant English. In 1867, after lobbying by company directors, the British Parliament passed a special act legalizing marriages consecrated by Anglican clergy at Morro Velho. By the late 186os, the English at Morro Velho could be born, baptized, married, and buried as easily as if they were in a parish in the English countryside. ${ }^{31}$
Another consequence of the growth of company operations was the development of a well-defined and differentiated organizational structure that would remain basically intact into the early twentieth century (see Figure 2). In London, the company maintained an office in the financial district with a small clerical staff. The board of directors (five to seven men), elected by the stockholders who met biannually, usually met bimonthly to discuss company business, set policy, and go over the latest reports from the mines. In the nineteenth century, the board consisted man was nearly always a member of Parliament, and the other board



 operations at Morro Velho. The fate of the company depended on the
skills and decisions of this man more than any other company official.












 milreis) and the "natives" in local currency. ${ }^{32}$

[^0]



With the expansion of operations, the company also acquired large numbers of slaves. Herring and his successors relied on slave labor guided by English miners to provide the company with a stable and secure work meager and transient supply in the region. Unable to attract the free labor that it believed to be more productive, the company acquiesced reluctantly to the realities of local conditions. ${ }^{33}$ By the 1860 s, the St. John employed 1400 slaves in almost every aspect of its operations, and captive labor formed the vast majority of the work force (see Figure 3). The company was probably the single largest employer of slaves in Minas Gerais, Bre province with the largest slave population in Brazil. ${ }^{3 \prime}$ In 1845, the prohibited British citizens, regardless of residence, from purchasing slaves. Throughout the nineteenth century, the British Foreign Office worked diligently to end slavery and the slave trade, and this act represented a major step in the struggle for abolition. The realities of the Brazilian labor market forced the St. John into confrontation with British foreign policy. The board of directors lobbied successfully to include a passage of the law. This effectively permitted the company to bypass the intent of the legislation by hiring slaves in the surrounding region. ${ }^{35}$ Company slaveholding would continue to expand, and, ultimately, create enormous friction between this British firm and British diplomacy








 33. AR 1849, p. 29.
34. Robert Borges Martins, "Growing in Silence: The Slave Economy of Nineteenthar Martins Filho and Roberto B. Martins, "Slavery in a Nonexport Economy: Nineteenth-






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 minimal social obligations. Local conditions did not allow for the creation of a capitalist free wage labor force, so these British capitalists simply adapted their needs to local conditions.
The company protected its investment in captive labor with careful paternalism. The board hired a Catholic priest to minister to the spiritual needs of the slaves in a company-built church, while the resident British physician monitored the health of the labor force and cared for the sick in the company hospital. The superintendent dispensed gitts to couples who
married, and to those who produced children, while an elaborate system

 (St. John's Day), and another ten at Christmas. They rarely met their goals in times of labor shortages.
Several factors motivated the emancipation process. In the eyes of the board, gradual emancipation for "good behavior" resulted in more responsible freedmen. The desire to relieve the company of unproductive, abolition movement gained strength in the 1870 and 1880 s, and as the
 two additional factors influenced the company's emancipation process.











 partially or entirely paid for their freedom. ${ }^{38}$
 37. Richard Francis Burton, Explorations of the Highlands of Brazil, 2 vols. (Iondon,
1869 ), I, chapters $20-28$, describes in great detail his one-month stay at Morro Velho and his
reactions to the slave system the English employed. The manumission procedure is dis-
 SJNL.
The process of emancipation received a forceful push forward in 1879
 slaves, revealing that the company had failed to free the slaves in 1859 as the original rental contract (1845) had stipulated. Joaquim Nabuco denounced the St. John in the Brazilian Parliament, and the Englishlanguage press in Rio took up the cause. The British Foreign Office had pressured the St. John to free the slaves for years, and now sided with Brazilian critics of the company. ${ }^{39}$ In 1882, Brazilian courts forced the company to free the remaining Cata Branca slaves and pay them back wages. Of the original 385 slaves rented from the Cata Branca mine, the company had freed 87, another 223 were freed by the courts, and the re-

 an insignificant portion of the labor force. By 1888 , the transition to a free labor system had effectively been completed, and the Lei Aúrea merely




## The Golden Years

Throughout the St. John's existence, labor was its principal problem, followed by the difficult geological and technical demands of deep shaft mining. Constant technological imnovation and extraordinary manage-










39. "Papers Relating to Cata Branca Slaves," Foreign Office 1.31 , Embassy and Consular Archives, [Miscellanea], Brazil, $1879-1881$, vol. 18, Public Record office, Great Britain
(hereafter PRO); "Sessão em 26 de agosto de 1879 ," Annaes do Parlamento Brazileiro. Cô-
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[^1]of two vertical shafts into the lode below the old works. After five years without dividends, and with numerous technical setbacks, Gordon re-
 the original Morro Velho estate. With the reopening of the lode in the early 1870 , the company appeared to be once again on sound footing. ${ }^{[2}$ The 1870 os and 1880 s, however, were difficult times for the St. John, yielding erratic dividends and production levels. The new mine proved less productive than anticipated, and the board of directors discovered tha


 hoping to revive operations. Just shy of his 28 th birthday, this Cornishman of Scottish descent would not only revitalize operations, he


 mous pressure on timber supports increasing chances of cave-ins. Chal-






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 42. AR 1868, , 1874, 1890 . One of the company directors, Stonehewer Edward Illing-
worth, visited Morro vello in 1877, and left a thorough description of the relpuiding process

 Oldham, Apr. 23. 18833 and Hockin to Morrism and Tendron, June 8, 1877 , SJNL
44. Hockin to Illingworth, Nov. 4, 1884 , SJNL; board minutes, Oct. 15 and

[^2]dated the old company, called for new capital, and reorganized the St. John d'el Rey. ${ }^{47}$ Chalmers returned to Brazil to bring his plan to life.
The technological advances of the Second Industrial Revolution made possible the rebuilding of the Morro Velho mine. Chalmers incorporated the technological advances of the late nineteenth century that revolutionized the mining world: dynamite, electricity, power drilling, and new discoveries in metallurgical chemistry. Built before the development of the great deep shaft mines of South Africa, the Chalmers mine was a technological marvel. The central aim in the design of mine and mill was to produce high output levels of the medium-grade ore found at Morro
 Water, electricity, and cyanide provided the key ingredients in the new






 amalgamation process in the gold mining industry at the beginning of the century. Cyanidation raised gold ore recovery rates to over 90 percent at Morro Velho, as compared with 70 percent in the old mill. ${ }^{49}$
By the turn of the century, Chalmers and his new mine and mill were
 tons of ore annually. By 1910, the new mine produced twice that. Further, productivity had increased with the new technology and organizational methods. Measured in tons per worker, it rose dramatically, particularly when one looks at just the underground mining force rather than the entire labor force (see Figure 4). Half-ycarly dividends resumed in the late 1890 s, and would continue without a lapse into the 1950 (see Figure 1). Chalmers followed a cautious policy of developing the lode in depth, working proven reserves while opening up and exploring new ones at ever
47. Chalmers first mentions his plan to reopen the mine in Chalmers to board, Jan. 19, Engineering Record, Jan. 22, 1887, and the Mining Journal. June 16, 1888, describes the planned works. Memorandum and Articles of Association of the St. John del Rey Mining Company, Limited, printed by the company, contains the St. Johns new structure as reorga-

 Chart Showing Produce, Cost, Profit and Cost Per Long Ton Stamped at Morro Velho (Jan.
1911)," SJNL.
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## FIGURE 4: Productivity Per Worker Per Year (Morro Velho). Sources: AR and SJNL.

greater depths. By World War I, the Morro Velho had become the deepest mine in the world, reaching down 1,928 meters below the surface. ${ }^{50}$ In conjunction with a young company engineer, Eric Davies, Chalmers developed the first refrigerated air system for a deep mine to combat the intol-
 such tremendous depths. ${ }^{51}$ Development in depth would continue into the mid-1930s, when the mine reached its current depth of 2,453 meters below the surface. The Morro Velho remained the deepest mine in the world until the late $1940 \mathrm{~s} .^{52}$
50. T. A. Rickard, "The Deepest Mine," Mining and Scientific Press, Oct. 2, 1920, pp. $477-478$ 51. Eric Davies, "The Air-Cooling Plant at the Morro Velho Mine of the St. John Del
Rey Mining Company, Limited, Brazil," Transactions of the Institution of Mining Engi52. Millett to board, Sept. 17, 1937, SJNL.


FIGURE 5: Organizational Structure of the St. John d'el Rey Mining Company, Limited (Midtwentieth Century)

Chalmers had truly visionary ideas that soon took him, and the St. John d'el Rey, into other areas of business, and made the company a business empire in central Minas Gerais. Real estate holdings expanded at a rapid pace after 1900, as the company purchased forests for wood and charcoal, watersheds to supply the mine and mill, and surrounding properties to






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boundaries of the original Morro Velho estate. ${ }^{53}$ The St. John attempted to interest several North American companies in developing the iron lands of Minas Gerais, among them Bethlehem Steel. Chalmers's dreams never materialized in his lifetime, yet he stands out as one of the pioneers in the development of Brazilian iron ore. ${ }^{54}$ Leading the company into a wide array

[^3]Downloaded from http://read.dukeupress.edu/hahr/article-pdf/66/4/697/726899/0660697.pdf by guest on 20 August 2022


of auxiliary enterprises, Chalmers developed farms and dairies to supply the company employees, and constantly experimented with projects that would make the mine more self-sufficient. Perhaps his most successful




The mining world that Chalmers brought to Morro Velho was accompanied by a parallel managerial transformation. In the first decades of the century, the company continually restructured and reorganized its operations to meet the demands of growth and diversification. The St. John d'el Rey, in short, became a more modem business enterprise (see Figure 5). ${ }^{56}$ Increasingly, the company turned to highly skilled and university-trained professionals-mining engineers, electrical engineers, accountants, and chemists-to fill a growing number of positions in the supervisory hierarchy. This growth and diversification
process intensified after 1930, as the number of company employees rose

The St. John directly employed 8,0oo workers in a community of less than $30,000 .{ }^{57}$ Most of those not on the company payroll either were dependents, or worked in service sectors that dealt with the company or its employees. The company provided local electricity and water, owned -


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 its own vice-consulate. ${ }^{59}$
 tura, Relatório 1912, pp. 170-172, APM. AR 1915, pp. 62-63; and AR 1919, pp. 52-54.
56. Alfred J. Chandler, The Visible Hand: The Managerial Revolution in American Busi ness (Cambridge, MA, 1977) analyzes the rise of the modern business enterprise in the
United States. 57. Instituto Brasileiro de Geografia e Estatística, Recenseamento, 1940, Série Re-
ional, I , part 13 , p. 54 . The 30,000 took in the entire município. The town probably had 58. Annuário estatístico de Minas Geraes, 4 vols. (Belo Horizonte, 1926), IV, part 1, pp. 406 and 42 . British Community at Morro Velho," Oct. 17, 1950, SJNL.
The 1920 were years of transition for the St. John d'el Rey and Brazil. As new forces began to emerge in Brazilian society and politics, George Chalmers carefully groomed his eldest son, A. G. N. Chalmers, to replace



 consulting work on plans for a direct route to the deepest levels of the mine. The builder of Morro Velho died of heart failure in early 1928, shortly after returning to England for medical treatment. ${ }^{\text {. }}$ With him
 A. G.
A. G. N. assumed his father's mantle, but could not live up to his re-
markable achievements. Plagued by the worst labor shortage in the company's history, embittered by infighting and by mounting criticism of his
 of his life developing his father's model fazenda (Jaguara) near Pedro





## Politics and the Rise of Nationalism

 another 20 years, powerful new forces were emerging in Brazil and the
 ultimately impossible. By 1930, the St. John had a full century of experience working within the political environment of Brazil. Throughout its history, the company had followed a careful policy of behind-the-scenes lobbying and avoidance of public involvement in politics: company senti-
 zilian political allies. ${ }^{61}$ For most of the nineteenth century, the St. John

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\begin{aligned}
& \text { 60. Harris to Chalmers, Oct. 7, 1920, SJNL, AR } 1925 \text { and } A R 1927 . \\
& \text { 61. "Chalmers Folder," SJNL, contains hundreds of telegrams and }
\end{aligned}
$$

61. "Chalmers Folder," SJNL, contains hundreds of telegrams and newspaper obitu-

62. Millett had come to Morro Velho in 1912 and rose to the position of business manager in the early 1920s. Personal interview, Mrs. A. H. Millett and Eileen Millett Nixson,


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d'el Rey operated with little government interference, and only an occasional need to become actively involved in political matters. The thinking hat characterized the political and economic leaders of imperial Brazil favored foreign investment and respected the technical and economic competence of the British, whom the Brazilian elites sought to emulate in м!ч7 ои!
 tain practical necessities, nor did it mean unquestioning aping of the Brit-

 national and provincial governments had begun to assert themselves and
 ing, evidence of a growing nationalism that would not fully manifest itself until the following century.

Throughout the imperial period, the major political issues that preoccupied the company were taxation and tariffs at the provincial and national levels. Although the English mining companies succeeded in owering tax rates and tariffs under the empire, they never managed to lower them and keep them at levels they found acceptable. Independence opened the doors to foreign investment in mining but maintained the old Portuguese quinto as the rate of taxation, and the new English mining
 British companies banded together in the 1830 s and 1840 s, and through numerous petitions to the emperor they reduced the production tax on gold to 5 percent by the early 1850 . Even that amount was phased out by the end of 1859 (a move that came too late for the Imperial Brazilian Com-


 politicians attacked the tax exemptions of the British mining companies.
 ceptional costs of this nascent industry. ${ }^{68}$

The St. John d'el Rey cultivated a network of prominent Brazilians to present its views in political circles and in the provincial assembly. The company followed a policy of retaining prominent lawyers both for their
 retained a member of the powerful Vianna family of Sabará. In the 1870s, it employed Ignacio Ferreira da Fonseca of Ouro Preto to represent com-


pany interests. ${ }^{69}$ Perhaps the most powerful ally of the company was Commendador Francisco de Paula Santos, grandfather of Henrique Santos Dumont of aviation fame. Paula Santos had numerous landholdings and was the major creditor of the defunct Imperial Brazilian Company. He
 understood the advantages that a larger industry with more Brazilian participation would bring. The company could count on the Baron of Cocais, the Baron of Catas Altas, and the Count of Linhares, among others, to come to its aid as fellow mining entrepreneurs. ${ }^{71}$ Unfortunately for the St. John, too few Brazilians became active in mining, making it more difficult for the industry to generate political support.
One important test of political influence arose not over taxes but over conscription of laborers. In the late 1860s, the demands of Brazil's war with Paraguay placed pressure on provincial authorities to conscript soldiers for the war effort. The companys friends had gained it an exemption
 come by, the St. John could ill afford losing workers to a draft. Ultimately,
 sure of provincial authorities, forced the company to compromise and
 receiving favored treatment. The superintendent personally arranged the compromise with the provincial president while they were traveling together from Rio de Janeiro to Juiz de Fora.
The tax issue, however, was once again the central dilemma facing the
 it was one that demonstrated the limits of the company's power and influence. In 1867, the imperial government placed a 2 percent tax on gold





only imperial authorities had the right to levy export taxes. Despite em-

[^4] Hockin to Morrison, Aug. 2, 1878 , SJNL.
Leonardos, As geociências, pp. $60-63$. 7. Superintendent's diary, Nov. 8, 1866, SJNL
74. Provincial decree of Nov. 25, 1875; Lord Salisbury to Mr. St. John, Jan. 17, 1879,
Foreign Office 13/549, no. 1, Embassy and Consular Archives, Brazil, PRO.
ploying powerful local figures in its legal effort, the company ultimately failed in its efforts, and the precedent was set. While pursuing the legal battle in the courts, the St. John and other English mining companies also approached the Brazilian minister in London, the Baron of Penedo, to ask

 vestors and bankers. ${ }^{75}$ The St. John also approached the baron's son-in-law with a generous offer of remuneration for helping to repeal the law. The mining companies argued that such legislation would frighten away potential British investment in Brazil. ${ }^{76}$ The British Foreign Office refused to come to the aid of the St. John d'el Rey because of the company's refusal to release the Cata Branca slaves. ${ }^{77}$ Although the tax was declared uncon--идәлоя әұеұs әчұ 'sә!̣! ment went ahead with its collection beginning in the 1880 s . ${ }^{\text {To }}$
Despite its failure in this critical issue, by the 188 os the company had established friendships with key political figures and was a longstanding and productive enterprise well known to imperial authorities. Pedro I had




 pany periodically entertained provincial presidents at the Casa Grande,
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 of the First Republic (1889-1930). The company continued to profit from
\[

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\begin{aligned}
& \text { 75. Graham, Britain and the Onset of Modernization in Brazil, p. } 101 . \\
& 76 \text {. Hockin to Morrison, Sept. } 23,1878 \text { and Jan. } 8,1879 \text {; Hockin to Baron Penedo, }
\end{aligned}
$$
\]

 Hockin to George Chalmers, Nov. 8, 1884, SJNL. 9. Letter book 1, Jan. 20, 1831, SJUT

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Brazil's internal political stability, but found itself ever less isolated geographically and more involved in state and national politics. The rebuilding of the mine coincided with the construction of the new state capital, Belo Horizonte, just over the Serra do Curral (2o kilometers) from Morro Velho, and these two developments made the company increasingly visible in state and national political circles. A long line of prominent state and
 Salles, Rodrigues Alves, Afonso Pena, Wenceslau Braz, Delfim Moreira, Artur Bernardes, and Washington Luís. Getúlio Vargas knew Morro Velho well, having visited the mine on at least three occasions (1927, 1931, 1938). ${ }^{82}$ Despite the inconvenience, the "Companhia do Morro Velho" (as the company was known in Brazil) rarely turned down requests for visits, fully understanding the importance of good public relations.
The so-called "politics of the governors" dominated by the "coffee and
 of Mineiro politicians, and drew the company into more active lobbying. Concomitantly, the rise of an increasingly interventionist state raised even more concerns over taxation and tariffs. ${ }^{\$ 3}$ However, Chalmers's reputation as a builder, company lobbying, and the modernizing mentality of a European-oriented elite eased the St. John's potential conflicts with the Brazilian state. By the end of World War I, the company had assigned several employees to full-time public relations work (behind the scenes, of course). These key officials spent most of their time in Rio de Janeiro and Belo Horizonte wining and dining bureaucrats and politicians, and frequenting the corridors of power in key offices and ministries. ${ }^{54}$
By the 1920 s, the company had a circle of powerful friends in high places in local, state, and national politics. These Brazilians were convinced of the contribution of the company to regional and national
 technical competence. A brief sampling of the company's "friends" demonstrates its success in developing a political lobby. The St. John's chief

82. Viana, "Viagem à provincia de Minas Gerais em 1881," 80-83; Callaghan, "Ob,
tacles to Industrialization," chapter 4; M'Call to George Chalmers, Mar. 30,1899 , and Aug. 11, 1904; A. H. Millett to Harris, May 14, 1926; A. G. N. Chalmers to board, Dec. 24, 1927;
 (Belo Horizonte, 1981); Steven Topik, "State Interventionism in a Liberal Regime: Brazil, 1889-1930," HAHR, 60:4 (Nov. 1980), 593-616; Topik, "The State's Contribution to the Development of Brazil's Internal Economy, 1850-1930," HAIIR, $65: 2$ (May 1985), 203-228,
and Annibal Villanova Villela and Wilson Surigan, Politica do governo e crescimento da econ-
 84. J. S. Paris to Harris, Sept ,
Davies to board, Oct. 16, 1942, SJNL.
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zonte in the 1920 in $^{* 5}$ One of the company's closest allies was the brilliant young lawyer, Daniel de Carvalho, who served as state secretary of agriculture in the 1920 and as minister of agriculture in the 1940 (among



 a state and federal deputy, as a newspaper editor, and in a wide variety of
 president of Brazil in the 1920s, was a close personal friend of Chalmers, and had family ties to the St. John dating back to the midnineteenth cen-

 by no means faced smooth political sailing, its economic power and its political allies guaranteed Chalmers and his successors a careful hearing of company views-often in the governor's office, or the presidential palace in Rio. ${ }^{89}$
 иI •!! the first decade of the century, the state government, unwilling to become
 for a loan to carry state finances through a difficult period. Although appalled by the request, company management reluctantly acceded, in order to maintain good relations with the state government and to avoid
 to be credited to the company's tax account with the state. It also promised not to raise taxes on gold production while the loan was being repaid (1901-1908). In effect, the state leaned on the company and the St. John had little choice but to make the loan. Success in rebuilding the mine sometimes brought the company more visibility than it wanted. ${ }^{50}$




 $\stackrel{N}{\operatorname{tg} \varepsilon-\mathrm{I} z \varepsilon^{\prime}(\mathrm{IO} 6 \mathrm{r})}$
88. A. G. N. Chalmers to board, June 11,1925 ; S. S. Tegner to A. H. Millett, Aug. 24,
937, superintendent's diary, Feb. 12, 1859, SJNL; and Callaghan, "Obstacles to Indus-
89. See, for example: A. H. Millett to board, Jan. 13, 1933, SJNL.
go. Antônio Luiz de Bessa, Mistória financiera de Minas Gerais em 70 anos de re-
pública, 2 vols. (Belo Horizonte, 1981), II, $442 ;$ M'Call to George Chalmers, Oct. 13, 1904,
SJNL. SJNL.
HAHR | NOVEMBER | MARSHALL C. EAKIN
The so-called Revolution of 1930 did not destroy this political influThe so-called Revolution of 1930 did not destroy this political influ-
ence, rather it altered the nature and terms of the national political system, and, thereby, the company's place in that system. Getúlio Vargas ushered in a new era characterized by the emergence of the working class


 Labor. ${ }^{91}$ Vargas won over labor by providing workers with basic social benefits: minimum wage, maximum working hours, pensions, health insurance, and the right to organize. The new social legislation both helped and hindered the St. John d'el Rey. This government intervention, though bitterly resented by the company management, ironically helped solve one of the St. John's most pressing problems: a constant and often critical shortage of labor.
Labor shortages had plagued the St. John for a century. During the first half-century of operations, the company had reluctantly turned to slave labor to fill the shortage of free laborers. Like good British Victorians, the management of the St. John was convinced of the superiority of free over captive labor, even in the face of studies by the company deearly 1880 s. ${ }^{92}$ As abolition drew near, and spurred by rising rental prices, the company began a series of desperate experiments with imported for-
 John imported Portuguese islanders ( 18505 ), Germans ( 1850 s ), Cornish teenagers (1880s), Chinese (1880s), Spaniards (1890s), Italians (1890s), and Japanese (1910s). ${ }^{93}$ The result was always the same. The few laborers
 the coffee plantations of São Paulo. The reaction of foreign laborers paral-



 and led the first strikes in company history (1897, 1898, 1900). George
91. Hobart A. Spalding, Jr., Organized Labor in Latin America: Mistorical Case Studies



Parish registers and cartorial documents indicate that the vast majority of the Brazilian labor force came from the surrounding municípios of central Minas Gerais, a region of relative economic stagnation in the late

 could not count on a supply of workers familiar with mining. It appears that most of the workers were subsistence farmers, who worked in the mine to supplement their income between planting and harvesting seasons. For decades, management complained about the seasonal work pattern of the labor force that left the company critically short of workers during planting and harvest seasons. ${ }^{97}$ This pattern seems to indicate a relatively large free peasantry in the region moving between self-
 formation of a working-class consciousness and a union movement.
Ironically, Vargas's labor policies, along with the Great Depression and
 (which had become particularly critical in the 1920s). At the same time, these policies created a new headache. Vargas's Ministry of Labor helped
 d'el Rey to form a counter-union controlled by "trustworthy" employees ${ }^{99}$ In the next two decades, this union would provide the miners with a powerful, unified voice challenging British management. The



 on the payroll for at least five years, and 22 percent for more than a decade. ${ }^{100}$ Unionization and social legislation stabilized the workforce and
freed management from the fluctuations of the regional labor market. For 95. Board minutes, June 10, 1897, SJUT; Relatório do chefe da polícia, Secretaria do
Interior, 1898, p. 95, and 1903, p. 112, APM; Minas Geraes (Belo Horizonte), July 15 and
 96. Wirth, Minas Gerais, pp. 31-64. The migration patterns are based on a sample taken from the Registros Paroquiais de Congonhas do Sabará, Nova Lima. See Eakin, "Nova Lima," p. 407.
 99. A. H. Millett to board, May 24,1934 , SJNL.
100. AR 1940 .
HAHR | NOVEMBER | MARSHALL C. EAKIN
the first time in over a century of operations, the company had a steady, trained, and adequate workforce.

Vargas also pursued a policy of strong economic nationalism. The Great Depression had shattered the coffee-export economy of the First Republic. Vargas turned to protectionism and fiscal restrictions and moved away from the more liberal economic policies of the republican era. These policies severely punished foreign companies that imported large quantities of essential materials, as did the St. John. Higher tariffs on vital supplies (chemicals, machinery, spare parts) drove up operating costs and forced the company to seek national suppliers. ${ }^{101}$ The currency restrictions of the new regime struck an even more punishing blow. In order to stem the flow of profits to foreign investors, and to halt the outflow of hard currency, the Brazilian government began to limit exchange transactions and profit remittances. The government had begun to purchase the company's bullion during World War I, and had continued the practice into the 193os. With the government controlling gold sales, the new restrictions created currency exchange problems for the company. ${ }^{112}$ The St. John now found that the government would not allow more than one-third of its bulion to be converted into sterling. Company officials lobbied intensely to fight the measure, with no success. They achieved no more than a prom-
 needs above his favorable view of the company's work.

Fortunately for the St. John, this bold new intervention by the state coincided with an abrupt jump in the world price of gold from $\$ 20.67$ to



 not raise production to even higher levels without creating even larger surpluses, and at the same time risking further remittance difficulties with
 steady pace. The surplus currency, however, had to be put to use, and the
 323-328. A. Millett to board Nov 10, 1932. SJNL
 its shifting policies are detailed in Davies to board, Nov. 4, 1946, SJNL.
company embarked on a massive reinvestment program. (This reinvest- ment and the use of national suppliers, of course, were exactly what the protectionist economic policies had been designed to produce.) During



 mining operation in Raposos, some eight kilometers from Morro Velho.




 Nova Lima. ${ }^{100}$
The phenomenal expansion of the St. John d'el Rey during the Great
 erupted in the 1940s shaking the foundations of the company. The first of


 drove up company costs and moved the workers to demand ever higher


 parity between foreign management and a Brazilian working class, the
 and file. In addition, nationalistic, prolabor government officials pres-

 First, management failed to Brazilianize the staff in any significant way.








business imperialism and british enterprise in brazil 733
mid-1950s and then only to attempt to combat rising nationalism through lobbying. ${ }^{108}$ Second, the company decided to fight the union and govern-



 age daily wage (including bonuses and overtime) rose over 400 percent between 1935 and 1950, while the cost of living in Nova Lima rose at approximately the same pace. ${ }^{109}$ Company confrontation tactics resulted in long strikes and unfavorable publicity exacerbated by growing nationalism in Brazil. The strikes punished the company severely, shutting down production for weeks. Overall productivity per worker had begun a slow rise
 tivity of the underground mine force had been declining (see Figure 4).

 underground force to get the ore out of the ground and to the surface. Underground productivity was the heart of operations and of profitability.


 become a risky venture.
International forces further affected company operations. World War ${ }^{\text {rem }}$ Р I, but these hindrances had been temporary. ${ }^{110}$ More far reaching and fun-






 operating at a profit.
Furthermore, the plant laid out by Chalmers at the turn of the century had become increasingly obsolete and in need of major renovation.
 the mine to speed up the handling of ore and reduce wasted traveling

## 108. "Private and Confidential Correspondence," 1956 , SJNL. 109. "Average Daily Wage," SJNL.

 109. Average Daily Wage,11. AR 1918 , , 9944, 19455.
12. Jastram, Golden Cons

[^5]time along the numerous shafts and horizons. (Workers spent a full hour traveling from the mine entrance to the lower levels of the mine!) Unfor-


 to seek drastic management changes at the mine. After hiring several out-

 before coming to Morro Velho in 1946 as an assistant superintendent.
 the bottom of the mine (nicknamed "maracanã"), and promptly sacked a arge number of the topheavy British staff. He instituted a new labor pol-






 ally eroded the value of company stock on the London stock exchange,
 est in the company in $1957 .^{113}$ The investors, led by New York stockbroker


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 ing magnate, Azevedo Antunes, formed a multinational firm controlled





[^6]the south of Belo Horizonte. ${ }^{115}$ Hanna closed the London office of the St. ohn and moved all the English operations to Cleveland, thus ending 130 years of British enterprise in Brazil.

In the late '5os and early '6os the Brazilian government provided subsidies (via their gold purchasing price) to keep the original Morro Velho enterprise afloat. Government officials did not want to see the demise of one of the most important economic forces in Minas Gerais, and they dreaded the social and economic disruption the mine closing would cause n a company town of 30,000 inhabitants. ${ }^{116}$ Unwilling to take on the giand economic problems of a failing gold mine, Model and


 racio de Carvalho and banking magnate Walter Moreira Salles in the mid-'6os. In the mid-'7os, the Brazilians sold 49 percent interest in the



 valho and Moreira Salles. The high price of gold in the past decade has


 ing region. ${ }^{11}$

> The Financial Balance Sheet
 most successful foreign enterprises in modern Latin American history. During a century and a quarter, the St. John d'el Rey racked up profits otaling $£ 8,024,495$ (see Table I). Approximately one-fifth of this total was

 115. Raymond F. Mikesell, "Hanna in Brazil: The Story of an Iron-Mining Venture," in
Foreign Investment in Mining Projects: Case Studies of Recent Experiments, Raymond F.
Mikesell, ed. (Cambridge 116. João Pinheiro Filho, Conselho Nacional de Economia, to Lord Rathcavan, chairman of the board, June 3, 1955; and superintendent to Yarnell, May 9, 1956, SJNL.
118. Leonardos, Geociências no Brasil, pp. 95-96; Jornal do Brasil (Rio de Janeiro), 0
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Table I: Profits of the St. John d'el Rey Mining Company, Limited, 1831-1956 (in Pounds Sterling)

| Date | Profit | Annual Average |  |
| :--- | :---: | :---: | :---: |
|  | $1831-1887$ | $1,675,758$ | 29,924 |
|  | $1887-1956$ | $6,348,737$ | 90,696 |
| $1831-1956$ | $8,024,495$ | 63,686 |  |
| Source: $A R 188_{31-1957}$ |  |  |  |
| TABLE I: $:$ Profits of the St. John del Rey Mining Company, Limited, $1831-1956$ (in |  |  |  |
|  | Pounds Sterling). |  |  |

between 1892 and 1957. On an annual average, this makes Chalmers's mine almost three times as profitable as the earlier mine(s). Taking into account good years and bad, and beginning with the formation of the company in 1830 , the St. John d'el Rey annually averaged better than $£ 60,000$ in profit. The small venture of 1830 had blossomed from an initial capital stock of $£ 50,000$ to $£ 800,000$ by the early twentieth century. This capital stock growth had taken place in a series of steps. From the ini-
 $£_{175,000}$ by the time of the first major mine crush in 1867. The reconstruction of the mine raised the capital stock to $£ 253,000$, where it stood at the time of the crush in 1886 . The reconstructed St. John d'el Rey car-
 first decade of this century, the company issued 200,000 shares of preferential stock at $£ 1$ each. (Preferential shares were nontaxable in England.) Total capital stock remained at $£ 800,000$ until the takeover in the late 1950s. ${ }^{120}$ The St. John's assets and production levels placed it in a category
 larger companies of the Transvaal. ${ }^{1}$
.
 wise investment with a good return. The company began to pay regu-



 .!
 Total dividends for the period (before taxes) came to $£ 1,453,100$ for an average of $£ 25,053$ per year. Average actual capital stock for the period
 percent (see Figure 1). The company did achieve "windfall" profits during certain years, but when these are averaged out with the lean years, the return of 18.7 percent is impressive, particularly in an industry where only three companies in a score survived more than a decade. Indeed, such a rate of return made the stock of the St. John d'el Rey one of the highest yielding investments of any British enterprise in Latin America or


 and preferential stock gave a 10 percent return.
When compared with other companies in Latin America for which data are available, the St. Johns returns for the nineteenth century are

 produced returns between 10 and 15 percent in the first two decades of
 de Ferro averaged a 10 percent return during the last three decades of the nineteenth century. The most successful of the British-owned railways in Argentina normally returned 7 to 8 percent (1868-1914), while the British railways (as a whole) in the same time period averaged between 2.7


 comparable domestic investments. ${ }^{123}$ South African gold mining companies


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[^7] 12. Graham, Britain and the Onset of Modernization in Brazil, p. 147 ; Robert H. Mat-
toon, Jr., "The Companhia Paulista de Estradas de Ferro, 1868-1goo: A Local Railway En-

 United Kingdom, 1850-1914 (New York, 1982), p. 335 -
numbers pale in comparison with the enormous placer production in the ast half of the century in California, Alaska, Canada, and Australia. ${ }^{125}$ The second mine in the 1870 achieved the $2,000,000$ gram mark only briefly before production fell off drastically in the 1880 os. The Chalmers mine surpassed the $2,000,000$ gram mark soon after going into full production, and passed 3,000,000 grams per year by 1900 . By World War I,


 War II. Production remained relatively steady in the 3,000,000 o $4,000,000$ grams range for the next decade, as company costs skyrocketed, dooming the St. John d'el Rey (see Figure 7). ${ }^{126}$

The St. John d'el Rey's success made it the most powerful private operation in Minas Gerais in the nineteenth and twentieth centuries, its revenues and expenditures rivaling those of the provincial government in the nineteenth century. The company's assets at Morro Velho reached


 company's assets in Brazil were valued at nearly $£_{3}, 500,000 .{ }^{127}$ In the rela-

 the provincial government ( $£ 143,594$ in the same year). Even with the enormous growth of the Mineiro economy after World War I, the company's revenue continued to run at about one-fifth ( $£ 645,179$ in 1935) of that of the state. ${ }^{128}$

The company pumped considerable amounts of money into the re-
 purchases of foodstuffs and wood. Taxation (local, state, and national) seems to have run at about 5 to 7 percent of the value of annual gold production from the 1850 to the 1920 s. As already noted, the St. John found itself in a constant tax struggle with the government, winning some battles and losing others. The overall effect was a gradual rise in total tax pay-
125. The California rush, for example, produced 83,600, ooo grams per year during
$848-56$, and Australia roughly the same during 1851-56. The large mines in the Transvaal produce from three to five times the output of the Morro Velho mine. Vilar, It istory of Cold,
126. Gold production at Morro Velho in 1983 stood at $4,200,000$ grams. Paulo Sarmento, "Cento e cinquuenta anos de mineração em Morro Velho," Mineração e Metalurgia, 48:453 (May 1984), 18-32.
127. AR 1864, 1884, 1906, 1937, 1951.
128. AR 1860,1935 , and Minas Geraís, Secretaria da Agricultura, Serviço de Estatística
Geral, Annuário estatistico, anno II (1922-1925) (Belo Horizonte, 1929), p. 1147 .
ments. Although the combined rate of federal, state, and municipal taxes declined from about 9 percent ( $£ 46,000$ ) in 1930 to less than 5 percent
 alone effectively taxed the company another 7 percent ( $£ 60,000$ ) by the latter year. ${ }^{129}$ Ironically, in 1940 the St. John was paying far higher income taxes in England ( $£ 120,000$ ) than it paid in taxes in Brazil ( $£ 50,000$ ). (Al-
 around £100,000.) About 75 percent of the companys taxes went to the state of Minas Gerais. ${ }^{10}$ Wages and slave hire, which also went essentially



 business was the most important economic force in Minas Gerais apart from the state government.

## Conclusion


 Spanning 130 years of Brazilian history, from its inception in the City of London in 1830 until the Hanna Mining Company transferred corporate


 having located one of the richest and deepest gold deposits in the world. Luck, however, does not account for longevity and financial success. The exceptional management of the St. John, particularly under Chalmers, enabled the company to overcome crises. As Richard Graham has pointed
 zil "was the gross mismanagement of their affairs by the directors and local managers." ${ }^{132}$ The St. John management's willingness and ability to introduce technological innovation allowed them to surmount geological, technical, and social challenges. Finally, management at Morro Velho and in London developed a powerful and extensive political network in Brazil to protect and promote its interests. The history of the company demonstrates clearly the tremendous adaptability of capitalists and capitalism to local conditions.

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\begin{aligned}
& \text { 129. AR 1930, 1937, } 1939 . \\
& \text { 130. A. H. Millett to Langl }
\end{aligned}
$$

Conversely, the company failed when it could no longer innovate and meet new challenges produced by geology, business, and politics. Ultimately, international market forces in the form of fixed gold prices, and national forces in the form of an inflation and wage spiral, brought the firm to financial collapse. Economic nationalism in Brazil, and labor militancy in Nova Lima, aggravated the company's problems, and its extensive, but battered political network could not salvage it. The St. John entered Brazil in the 1830 s with key elements the mining industry desperately needed: capital, technology, and know-how. By the midtwentieth century, however, the company had overstayed its initial welcome and provided little that Brazilians could not manage by themselves. By the 1950s, the complex and constantly changing forces of the international economy, national development, and local society finally turned against
 Brazil.
One case study does not refute or confirm decades of theoretical model building, but the history of the St. John d'el Rey does indicate a need to reassess theories of business imperialism. First, this case confirms the fact that the interests of the British Foreign Office and British
 slaveholding policies. One cannot assume a convergence of business and diplomatic interests. Second, although the company did achieve notable

 losses, than successes and profits. The strong profits of the St. John (especially in the nineteenth century) were exceptional returns in a high-risk,







 after midcentury, and increasingly found its ability to maneuver challenged. The St. John thus shows the political limits of British economic power in Brazil.
Finally, and most importantly, this article has shown the constraints placed on British business by market forces beyond the control of management. Political savvy and exceptional management were able to miti-


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to utilize slave labor when it preferred free wage labor, and the chronic shortage of labor inhibited company operations for decades. The technological revolution of the late nineteenth century saved the company from ruin and made possible the rebuilding of the mine. The rise of militant labor, an activist state, and severe inflation began to constrain the company after 1940, and the international gold market then hit the St. John with the final, deadly blow in the postwar period. In evaluating the power and autonomy of foreign business, moreover, we need to recognize the varying power of different types of enterprise, in different sectors of





 during the past two centuries, we must develop more sophisticated views





[^0]:    31. AR 1852, pp. 10-11, "An Act to Legalise Certain Marriages Solemnised at Morro
    Velho, in Brazil, 1867," British Parlianentary Papers. General Index, 1852-1969, 8 vols.
    
[^1]:    

[^2]:    
    46. Chalmers to H. P. Harris, Apr. 28, 1926, SJNL

[^3]:    
    
     chapter 4, "George Chalmers and the Iron Lands."

[^4]:    69. Superintendent's diary, Jan. 9, 1861; Hockin to Morrison, Aug. 3. 1877, SJNL.
[^5]:    111. Jastram, Golden Constant, p. 53; Temple, Mining, pp. 115-117.
[^6]:    112. Leonardos, Geociôncias no Brasil, pp. 93-94; Davies to board, Nov. 14, 1946, su-
    perintendent to board, Jan. 28, 1953, and Lord Rathcavan to G. P. Wigle, Apr. 29, 1954,
    SJNL.
    113. The Financial Times (London), Jan. 26, 1957.
    114. A. L. Yarnell to H. C. Watson, Jan. 22, 1958, SJNL.
    115. Leonardos, Geociôncias no Brasil, pp. 93-94; Davies to board, Nov. 14, 1946, su-
    perintendent to board, Jan. 28, 1953, and Lord Rathcavan to G. P. Wigle, Apr. 29, 1954,
    SJNL.
    116. The Financial Times (London), Jan. 26, 1957.
    117. A. L. Yarnell to H. C. Watson, Jan. 22, 1958, SJNL.
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