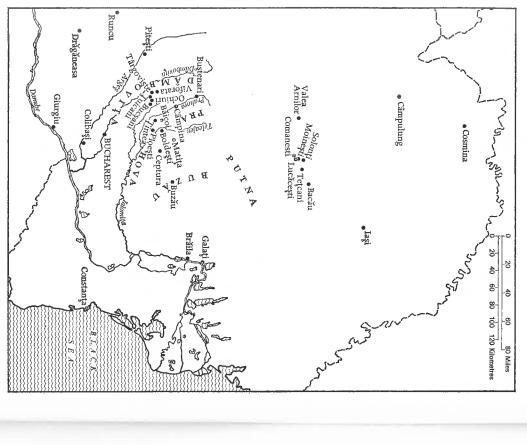
# ROMANIAN STATE

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MAP 2. Romania: oil-producing areas

#### CHAPTER I

# The Genesis of the Romanian Oil Industry

## The beginnings of the world oil industry

of an equivalent quality to that obtainable by simple treatment its quality and, to some extent, the treatment necessary to make it marketable. Thus crude oil containing predominantly naphof hydrocarbons, classified as paraffins, naphthenes, and aromatics. of compounds of hydrogen and carbon (hydrocarbons)2 in series. specifically into the nature of crude oil, established that it consisted from crude oil consisting mainly of paraffin hydrocarbons. thenes required to be specially refined in order to yield kerosine The varying proportions of each in any given crude determined By 1890 all crudes were discovered to contain three major types research into the molecular structure of organic compounds, and These were achieved only in the nineteenth century, during which composition and developments in engineering and metallurgy. resources on a large scale depended on the strict analysis of its known and used since antiquity, the exploitation of the world's they boil at different temperatures. Although crude oil had been state, a mixture, the constituents of which can be separated because by the physical fact that its raw material, crude oil, is, in its natural THE manufacturing processes of the oil industry are determined

The processes and techniques by which the results of this progress in organic chemistry were commercially applied were borrowed: the common basic method of treating oil in the laboratory and in the refinery was distillation, a process, taken over from the production of alcohol, by which the component parts of a

<sup>&</sup>lt;sup>1</sup> For the background of chemical analysis, see R. J. Forbes, "The Chemists and the Composition of Petroleum", in *More Studies in Early Petroleum History* r860-r880.

<sup>&</sup>lt;sup>2</sup> Crude oil also commonly contains impurities, mainly sulphur and traces of chlorine, oxygen, and nitrogen. For a discussion of the various series, see A. N. Sachanen, "Hydrocarbons in Petroleum", in *The Science of Petroleum*, vol. v, pt. I.

steels for bits, its use was at first restricted to soft geological formathrough hollow rods to assist the action of the bit and carry upstrokes a minute. Towards the end of the century, rotary drilling except that the cable was replaced by poles; it came to be adopted suspended from a cable of rope or steel, which described a recion natural seepages and on the digging of pits or galleries as a means of exploiting resources of petroleum. Various systems were and Baku, 1871. In all these areas, by reason of the greater depth wards the disintegrated material, but, for the lack of suitable made its appearance and eventually superseded all other forms. the bit was raised and allowed to fall freely, at a rate of 20/40 practised in Baku:2 the essential feature of this technique was that in modified form in Galicia and Romania. Free-fall drilling was procal movement. The Canadian system was basically the same strata to be penetrated. In America the drilling tools were generally employed: their effectiveness depended largely on the type of which could be penetrated, drilling eventually displaced reliance specifically for oil took place in Hanover in 1857, Ontario and quarrying and from boring for water and salt. The first drillings Similarly, the means of extraction, drilling, was adopted from It incorporated the water-flush method, whereby water was forced Pennsylvania in 1859, Galicia, 1862, Romania, 1863, Alsace, 1870, liquid mixture are separated by evaporation and condensation.

seepages had already indicated the presence of oil deposits, or observations in Burma (1855) and the United States (1861) it was known beds of salt their likelihood.3 As a result of geological The search for oil was usually concentrated in areas where

prospecting.1 as domes, faults, monoclines, etc. It became the foundation of other geological formations with which oil was associated, such bearing strata in 1883 and was gradually extended to embrace obvious surface traces of oil were to be seen. The anticlinal theory correlation enabled prospecting to be carried on in areas where no was first systematically applied to the search for potential oildemonstrated that deposits occurred in anticlinal structures. This

otherwise accrue to adjacent landowners or lessees.2 which, as fugacious material, under the "rule of capture", would who felt himself compelled rapidly to exploit his subsoil resources deposits were held to belong absolutely to the surface owner, oil-bearing strata through wastage of underground gas pressure, in the U.S. by the legal arrangements governing extraction; oil characterized many early oilfields. This trend was encouraged followed in many cases by the rapid exhaustion of the particular remained very much a matter of chance, and flush production, Notwithstanding these developments, success in finding oil

problem of leakage until in 1865 van Syckle successfully trans-1886. Pipeline development was inhibited by the considerable vehicles, the use of which extended to Russia and Germany in in 1865, but were followed three years later by specially constructed five miles from the producing field to a railway. This successful ported crude oil through a wrought-iron line over a distance of wooden vats mounted on flat-topped trucks—appeared in America transport, viz. rail tank-cars and pipelines. The first cars-merely in freights encouraged oil-producers to seek alternative means of varied with distance and road conditions, and wide fluctuations trains over existing roads proved inadequate. Teamsters' charges not situated on the fields, and of products to markets. Wagonof disposal both of crude oil to refining centres, where these were from the ground and treating it necessitated improved methods The technical improvements mentioned above in extracting oil

of Petroleum, vol. ii. vol. ii; and W. Miller and H. G. Osborn, "History and Development of Some Important Phases of Petroleum Refining in the United States", The Science History of the Art of Distillation; Sir Boverton Redwood, A Treatise on Petroleum, first, and condense as gasoline: they are followed by components with higher boiling points, yielding, in order, kerosine, gas oil, lubricants, waxes. The residue varies with the type of crude oil, and provides fuel oil and bitumen. For the development of the distillation process, see R. J. Forbes, A Short I When crude oil is distilled, the most volatile constituents are separated

<sup>&</sup>lt;sup>2</sup> On developments in Baku, see Sir Boverton Redwood, "The Russian Petroleum Industry", *Journal of the Society of Chemical Industry*, vol. iv, no. 2 (28 Feb. 1885), and A. Beeby Thompson, *The Oilfields of Russia*.

<sup>3</sup> For a brief account of the development of geological prospecting methods, see E. de Golyer, "Historical Notes on the Development of the Technique of Prospecting for Petroleum", in The Science of Petroleum, vol. i.

I That is, of "surface" geology—the analysis of the substrata by geophysical

well is the first and classic example: for a graphic account, based on contemporary records and journalism, see P. H. Giddens, The Birth of the Oil methods took place only after 1924.

<sup>2</sup> The oil rush in Pennsylvania consequent upon the drilling of Drake's The Age of Illumination, pp. 375-7, and Appendix E: The Legal Framework of Crude Oil Production also discusses this aspect. Industry; Williamson and Daum, The American Petroleum Industry, 1859-1899,

demonstration encouraged further investment in long-distance lines and, after the opposition of the railway companies had been overcome, the first trunk-line was constructed in 1874 from the producing fields to Pittsburgh—a distance of sixty miles. By 1900, 18,000 miles of pipeline were being operated in the United States. In Russia gathering-lines from fields to refineries were pioneered by Nobels, but the first long-distance line, completed in 1889, was laid merely to overcome the technical inefficiency of the Baku–Batum railway.

was greatest in the United States, and from 1866 until the late sales justified the erection of bulk-storage and handling facilities. 1880s, in spite of expanding internal demand, the greater part of first the oil business was primarily an export trade. Production in specially designed tank-steamers, to serve those markets where replaced by bulk cargoes, initially in sailing ships and, after 1886, method of transport very expensive. Ultimately, barrels were United States kerosine output went abroad,1 principally to These marine developments emphasize the fact that from the in obtaining wharf-side labour to handle the cargo made this but the problem of safe storage of the barrels and the difficulty European oil market. Transatlantic traffic in oil began in 1861, Moscow, Warsaw, and St. Petersburg-and eventually into the beyond the Caucasus and Persia to the main Russian centrestransport of oil, which enabled the Russian oil trade to expand Baku occasioned the first tank steamer designed specifically for the The high cost of barrels in relation to the price of kerosine in

The economic incentive to the exploitation of petroleum resources on an industrial scale was provided by an increase in demand, following the industrialization of North America and north-west Europe, for a cheap illuminant and for lubricants. Traditionally these needs had been met by the use of whale- and rape-oil and tallow, but the depletion of the whale population and the need for longer voyages to new areas caused a rise in price sufficient to encourage the search for a cheaper substitute.<sup>2</sup>

Similarly, the mechanization of industry and transport increased the demand for lubricants<sup>1</sup> beyond the existing sources and at the same time created a demand for a lubricant which would not break down in the more exacting operating conditions of machinery.

of an undisposable surplus of heavy residual products.2 gasoline market for automotive vehicles would involve the creation clear that reliance on existing methods for meeting the expanding cracking was applied to the production of gasoline when it became structure. Originally discovered in connection with kerosine, up at a high temperature into smaller molecules, often of a different refining technique. In this process, large molecules are broken process for gasoline after 1912 and became an integral part of consequence, "cracking" entered the commercial manufacturing demand for fractions hitherto wasted-gasoline and gas oil. In internal combustion and compression-ignition engines created a took place only in the 1890s. After that period the invention of the introduction of fuel oil as a combustible into the United States industrial fuel. Largely through difficulties of burner design, the was used for Caspian steamers and Russian railways, and as an found to be suitable for burning in boilers. This new fuel (mazout) After 1870 the latter was generally pulverized with steam and was had only a small yield of kerosine and left a large volume of residue. duction created a particular problem in Russia, since Baku crude products ran to waste or were burnt. The stress on kerosine protreated with sulphuric acid, yielded lubricating oils. All other production of the kerosine fraction and the heavier distillate which, petroleum-based lubricants virtually eliminated rival forms of and remained a rival to gas and electricity as a source of light; ments: kerosine ousted whale-oil and other vegetable illuminants lubricants. Refining operations therefore concentrated on the Crude oil was found to yield products meeting these require-

By this stage, the basic output of the refining industry comprised, in descending order of volatility, gasoline, kerosine, gas oil, and residuals used as fuel oil and as a feedstock for lubricants and greases. The products of distillation (distillates) were then

<sup>&</sup>lt;sup>1</sup> For statistics of exports, see Williamson and Daum, The American Petroleum Industry, 1859–1899: The Age of Illumination, Appendix D.

<sup>&</sup>lt;sup>2</sup> In 1856, in the American market the higher-quality whale-oil was priced at U.S. \$2.25 a gallon, rape-seed oil \$1.50, kerosine \$1; other substitutes varied from 63 to 874—see Kendall Beaton, "Dr. Gesner's Kerosene", section iv, The Business History Review (Mar. 1955).

<sup>&</sup>quot;New By-Products for Burners, Bearings and Bitumens", in *More Studies*.

On early cracking techniques, see B. T. Brooks, et al., "The Preparation"

of Gasoline and Kerosine from Heavier Hydrocarbons", Yournal of Industrial and Engineering Chemistry, no. 7 (1915), pp. 180 ff. On the history of the process, see J. L. Enos, Petroleum Progress and Profits: a History of Process Innovation.

market requirements. characteristic enabled refiners to meet varying and fluctuating could be varied by alterations in the manufacturing process. This within the limits imposed by the type of crude input, the products and filtration and settling tanks for the chemical treatment of densers, storage for crude oil and refined products, and agitators therefore, necessarily included stills and heating boilers, con-From the outset, however, the refinery was a flexible factory in that, both for the production of steam and for washing distillates. A plentiful supply of relatively pure water was essential to refining distillates. There was at this time no specific vessel for cracking various impurities such as sulphides. The refining apparatus, treated with sulphuric acid and caustic soda solutions, to remove

activities, even in the United States, where Rockefeller began in and distribution and transport. These were not wholly integrated extraction, field transport, refinery construction and operation, sequent management and social problems. The industry was (and equally unexacting. There was no mass labour-force, with cononly inspection and maintenance. Refineries' schedules were of the latter being hired ad hoc. Once in production, wells needed as digging conduits and preparing sites for drilling rigs-most of petroleum necessitated the employment of a small number of scale plants with a continuous process. The production and refining refining and transport, integrated "forward" into the wholesale the industry therefore had to cover buying or leasing lands, oi has remained) essentially "capital-intensive". The capital needs of drilling and refining specialists, and unskilled labour for such work latter, therefore, was a determining factor in the operation of largethe costs necessarily burdened that of the current output. The former could only be a palliative, since storage was expensive and tankage and commercially by the search for secure outlets. The between the two was represented technically by investment in demanded in theory a continuous market: the practical discrepancy gave higher yields but also reduced unit costs, since the plant was tion commercially of continuous distillation processes<sup>2</sup> not only in operation twenty-four hours a day. Continuous production The first plants operated on batch production but the introduc-

and retail markets, but still acquired a large percentage of his crude oil on long-term contract from non-integrated producers.

# Romania's oil deposits and their exploitation

seepages had long been used by the inhabitants for lighting and development of oil on an industrial scale, the output of various eastern slopes of the Carpathian mountains-where, before the and Buzău (Wallachia) and Bacău (Moldavia). The crude oi in Moldavia were situated largely in the older Tertiary rocks and compressed into anticlines and marked by irregular folds. Deposits ciated, in Wallachia, with Miocene and Pliocene rock-structures, greasing and for medicinal purposes. These deposits were assosubsequently became the standard for marketing purposes:2 in obtained varied in quality. Buştenari (Prahova) yielded a rich were, geologically, easier of access. The principal field was in the ten miles from Buştenari, had a heavy paraffin base. Generally, contrast, oil from Câmpina, also in the Prahova district and only oil with an asphaltic base almost devoid of solid paraffins, which Prahova district but deposits were also worked in Dâmbovița matics in liquid sulphur dioxide. The naphthenes, with which petroleum chemist, patented the method of dissolving the arokerosine until 1909, when Edeleanu,4 the celebrated Romanian sine could not successfully compete with Russian or American market. Because of the aromatics in the crude oil, Romanian kerowhich presented problems in the distillation of the oil for the light, volatile aromatics and of naphthenes and paraffins-all of content (seldom more than 0.4 per cent), and a high content of however, Romanian crudes3 were found to have a low sulphur Romania's oil deposits were located along the southern and

See Redwood, Treatise, vol. ii, section vi.

Williamson and Daum, pp. 263-73. <sup>2</sup> Baku, 1883; Romania, 1897; U.S., 1903; see Redwood, Treatise, vol. ii, and

<sup>&</sup>lt;sup>1</sup> See R. W. and M. E. Hidy, *Pioneering in Big Business*, Chap. 7.
<sup>2</sup> See Dr. S. Aisinman, "Bustenari Petroleum", *The Petroleum Review* (26 Oct. 1907) (a translation of a paper read at the World Petroleum Congress, Bucharest, 1907).

<sup>1900),</sup> pp. 175-6; (14 Apr. 1900), pp. 234-5: also papers presented at the World Petroleum Congress, Paris, 1900, by C. Alimanestenu and Edeleanu, and by N. Concou, published in the special Congress supplement of *PITR* (25 Aug. <sup>3</sup> On Romanian crude oils, see A. Saligny, "Roumanian Petroleums", The Petroleum Industrial and Technical Review (3 Mar. 1900), p. 139; (17 Mar.

<sup>1900),</sup> pp. 5-9 and 22-6.

\* See obituary notice, Moniteur du pétrole romain, no. 8 (1941), pp. 353-5.

were often combined naphthenic acids, also created difficulties, since the manufacture of lubricants necessarily left a residue with a high ash-content, which was a hindrance to its use as a fuel oil or bitumen.

of the occult influences that motivated diggers. were removed by bailing or pumping,2 which went on regardless had been completed, the oil and water that collected in the pit hundred such days in the year." When the first stage of digging of oil, or sudden flooding by water. A British observer commented to work. It is no exaggeration to say that there are about two There are many days on which they consider it most unlucky (1899) "the workmen who dig [such wells] run a good deal of risk. industrial accidents and fatalities through excess of gas, an inrush hour, and the pit method of extraction was responsible for many out. Even so the maximum time in the working was only half an tion when the fan was turned in the wrong direction was ruled rotary fan or a pair of bellows. The latter, although more primitive, supplied to him by a metal pipe, through which it was driven by a and for his job wore leather skins and a tin helmet. Fresh air was had the advantage that the possibility of death through asphyxia-"sinker", i.e. the digger, was attached to the surface by a line, the soil; hence holes were square and lined with timber. The wicker-work were inadequate to withstand the lateral pressure of permeable clay, bound in with planks and wicker-work. In steeply inclined, the pits were round, and were lined with im-3 ft. to 5 ft. in diameter. In Moldavia, where the oil-beds were not itself. The pits were dug by manual labour and measured from Galicia, and the introduction of machine drilling into Romania in operation long after its supersession in other areas, such as a system which could be worked only seasonally and which was Wallachia, where the shafts were steeper, round holes lined with Petroleum deposits were tapped by means of pits and conduits-

Drilling attempts in Romania in the 1860s and early 1870s were unsuccessful. The Pennsylvania system was introduced between 1880 and 1887, and was used on the estates of Prince Cantacuzino at Drägăneasa in the Prahova valley, but through difficulties of lining the borings all the wells were unproductive,

except one. The output of this well, however, far exceeded any experienced in the country up to this time, and, in default of adequate storage facilities, great quantities of oil ran to waste. Concurrently, similar results were obtained by other pioneers at Sărata (Buzău) and Solonți and Moinești (Bacău), where the Canadian system was introduced by Galician drillers. These developments vindicated technically the use of drilling in Romania.

domestic preoccupation. comprising 188 stills.3 The field location and multiplicity of crude oil production of 134,185 tons was treated in 72 refineries industry comprised a large number of small units. In 1898 a total in the industry's formative stages in Romania and its essentially primitive plants reflected the absence of a Rockefeller or a Nobel handling refined products for export. The refining sector of the stanța, which became and remained principally concerned with prevented the development of a seaboard refining centre at Confields were transported. The absence of adequate transport facilities having a central refining area to which crudes from different Arinilor. This was in direct contrast to the American practice of grew up on the oilfields, with the main centres in Ploești and and Câmpeanu at Cernavodă, the Romanian refining industry 94,000 tons.2 With odd exceptions, such as the plant of Hagienof of the output of pits. The first refinery was constructed at Lucăcești Câmpina (Prahova). The Bacău output was refined at Valea (Bacău) in 1840, and by 1880 total Romanian capacity was about The refining side of the industry was developed on the basis

Distribution of products was by ox-cart, until the construction of the railway system offered alternative means of transport. Even during the ox-cart era, Romanian illuminating oil was exported to Brassó, and Pest, and eventually to Marseilles, where it competed successfully for a brief period, with that from the United States and Russia. Exports, however, accounted for only about 15 per cent of the total crude output in 1894.4

D. A. Sutherland, see below, p. 21.

<sup>&</sup>lt;sup>2</sup> On pit extraction, see I. Tänäsescu and V. Tacit, Exploatarea Petrolului in Rômania, pp. 89-120.

For a description of the Draganeasa operation, see ibid., pp. 121-32.

<sup>&</sup>lt;sup>2</sup> For refining companies, refinery capacities, and capital investment, see table on p. 75 of Mihai Pizanty's Le Pétrole en Roumanie.

<sup>&</sup>lt;sup>3</sup> See abstracts of "Statistical Report of Ministry of Agriculture, Industry and Commerce for 1898", in PITR (1899), pp. 603-4, 631, 659.

<sup>&</sup>lt;sup>4</sup> See Acting Consul-General Bennett, Report on the Petroleum Industry of Roumania, FO, 1896, Miscellaneous Series, no. 411, Dec. 1896, p. 4.

### The Emergence of the Romanian State

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The development of Romania's oil resources took place during a period when the Principalities of Moldavia and Wallachia were achieving, in consequence largely of Great Power rivalry in the Balkans and Near East, first unity and then independence of the suzerainty exercised by the Turks since the fifteenth century.

of free navigation and trade for merchant shipping. Further state controlling the northern part of the delta, and gained rights ties. This advance threatened Austria's trading position along the and resulted in the establishment of certain rights in the Principalipolicy south-westwards challenged Turkish rule in the Balkans problem was initially ideological. Paris provided the higher educaimportant source of supply. French interest in the Romanian regarded on the London and Liverpool corn exchanges as an Russia's attempt to control the outlet from what increasingly was as part of "the Eastern Question", and, more specifically, through by the signatories of Moldavia and Wallachia, under Turkish primary question of international politics. By the Treaty of Paris, Napoleon III4 on behalf of the independence of their native country. fully engaged the sympathy of Lamartine and, subsequently, tion of many emerging leaders of Romanian politics,3 who success-Russian activity against Turkey involved Great Britain, generally Danube, particularly after 1812, when Russia<sup>2</sup> became a riparian 1856, Russia's rights were abrogated in favour of a joint guarantee With the Crimean War, the future of the Principalities became a From the time of Peter the Great onwards, Russia's forward

suzerainty. From the post-war settlement there emerged in 1861 a unified regime for both Principalities. Formal independence was achieved seventeen years later in consequence of Romanian participation in the Russo-Turkish war of 1875–8, Romania's claims being recognized by the Treaty of Berlin.

sessions lasted from mid November to the beginning of May, assisting its mentors, particularly at election times. Prefects and the objects of administration. The Civil Service reciprocated by by political patronage, and the creation of jobs remained one of with recesses for religious festivals. The bureaucracy was staffed to influence by staging street demonstrations. Parliamentary be initiated by the King, whose decision the Opposition attempted through internal rivalries prepared the way for the next change to installed in office. The crumbling of the resultant large majority idiom, "made", and therefore invariably won, by the party newly preceded elections, which were, in the expressive Romanian in government took place under royal management<sup>2</sup> and commonly stricted franchise expressed through electoral colleges. Changes Deputies. Parliament had about 300 members, elected on a re-2,500,000 hectares of land as a result of the suppression of the monasteries. The existing assemblies of Moldavia and Wallachia introduced, serfdom abolished, and the State itself acquired became a Parliament, comprising a Senate and a Chamber of tion of the State: a constitution after the Belgian model was cent was urban. The achievement of unity involved the reorganiza-1890 the population had increased to 5,950,000, of which 18.9 per 1859 census, of 4,425,0001 only 10 per cent lived in towns: by Bucharest, Galați, and Iași. Of a population, according to the were confined to Jews and Greeks in the towns, principally (boiars) and a large peasantry. Trading and commercial activities the social structure was feudal, with a small class of landowners by equally radical changes in its internal situation. Until 1864 Changes in Romania's international status were accompanied

<sup>&</sup>lt;sup>1</sup> For the part played by considerations of trade and navigation in the achievement of Romanian independence, see J. P. Chamberlin, *The Régime of International Rivers: Danube and Rhine*.

<sup>&</sup>lt;sup>2</sup> On Russian policy, see C. and B. Jelavich, "The Danubian Principalities and Bulgaria under Russian Protectorship", in *Yahrbücher für Geschichte Osteuropas* (Oct. 1961), pp. 349-66.

Osteuropas (Oct. 1961), pp. 349-66.

3 In 1839 the Society of Romanian Students was formed in Paris and was supported by donations from both Romanian and French sympathizers, among whom the most influential in their effect on public opinion were Michelet and Quinet: see J. C. Campbell, "The Influence of Western Political Thought in the Roumanian Principalities, 1828–1848", in Journal of Central European Affairs (Oct. 1944).

<sup>\*</sup> For the question of unification generally and for the crucial role of Napoleon III, see W. G. East, *The Union of Moldavia and Wallachia* 1859; and T. W. Riker, *The Making of Roumania*.

<sup>&</sup>lt;sup>1</sup> Quoted in G. Cioriceanu, *La Roumanie économique 1860–1915*, p. 46. Between 1859 and 1890 Romania had lost three districts of Bessarabia to Russia and had gained the Dobrogea from Bulgaria.

<sup>&</sup>lt;sup>2</sup> In May 1907, the King complained to the British minister, apropos government changes, that he had been compelled to do what he had never done before, viz. to accept a Cabinet whose members he had not himself selected or at any rate approved: there had been no time. See Sir Conyingham Greene to Sir Edward Grey: Dispatch no. 30, 29 May 1907, FO Series 371, vol. 317.

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sub-prefects helped to control the vote, and senior officials in departments saw to it that their staff got to the polls.<sup>1</sup>

The two main parties, the Conservative and the National Liberal, were both essentially "connections" built round personalties and both supported by the landowners. The Conservatives generally

represented the old landed class with their interest and expectations centred mainly on the development of agriculture: and in Roumania they had on their side King Carol, who worked hard to make of the Crown domains model agricultural estates. They wanted industry, but through a gradual and natural growth:... they also disliked greatly, as Carol did, the rather "pushing" ways and temperament of the Liberals.<sup>2</sup>

Because they "wanted industry", the Conservatives were in principle prepared to make concessions to foreigners. Their legislative programme on their return to office in 1894 envisaged modifying provisions of the Commercial Code stipulating Romanian nationality qualifications for directors of enterprises, and those of the Constitution barring non-Romanians from owning land.<sup>3</sup> They eventually carried the Mining Law of 1895.<sup>4</sup>

The National Liberals were "liberal" only in the sense that they were the party of 1848, had expropriated monastic lands in 1864, and were interested in Romania's rapid development into a manufacturing and trading state. Their motives in so doing were wholly nationalist, and their liberalism was in the tradition of List rather than Adam Smith or Cobden. There is no formal evidence that List was adopted as a mentor in Romanian liberalism, but his classic work specifically mentioned the Danube area in the discussion of its main theme, and it would be surprising if articulate Romanian politicians remained unaware of the fact, especially in view of the German cultural influence emanating from Carol I and the fact that Romanian economists and engineers tended to

should be developed by Romanians-particularly if they were matter: other investment was "colonization". Romania's resources state sovereignty; their application was exclusively an internal Liberals.2 Foreign loans were necessary and constituted recognition of implied by the western Liberal theory of the division of labour. Sturdza. The Liberals explicitly rejected the international effort Economic emancipation entailed national effort prin noi insine natural and logical consequence of its political emancipation". of others, and the economic emancipation of the country as a objectives as the "protection of our economic interests, not of those ("through ourselves alone"), in the slogan coined by Dimitrie The programme of November 1882 defined the party's economic interests of the State were "higher" than those of individuals. only tolerable form were clearly congenial to the mind of Romanian basic economic entity and the manufacturing nation-state as the study in Germany. Further, List's notions of the nation-state as the Liberals. It was axiomatic in their political vocabulary that the

As, during the period of the Old Kingdom, 1866–1920, they were in office for a total of forty years, the Liberals had every opportunity to implement their ideas: they were responsible, inter alia, for the recovery of the railways for the State, the foundation of the National Bank, the tobacco monopoly, the denunciation of the ten-year-old trade agreement with Austria-Hungary in 1886 and its replacement by a stiff protectionist tariff, and for the first law for the encouragement of national industry in 1887. In this way the State became the biggest entrepreneur. In their public utterances the Liberals tended to be overtly hostile to foreign investment and enterprise on the terms then understood in the main creditor nations. The British Consul-General in Galați

<sup>&</sup>lt;sup>1</sup> Dispatch of Townley, chargé d'affaires, Bucharest: no. 64, 28 Sept. 1894 FO Series 104, vol. 112.

<sup>&</sup>lt;sup>2</sup> David Mitrany: letter to writer, 9 Mar. 1963.

<sup>3</sup> Dispatch by Townley: no. 94, 28 Nov. 1894 FO Series, 104, vol. 112, summarizing the King's Speech at the Opening of Parliament. These restrictions were designedly anti-Semitic but applied to all foreigners.

<sup>4</sup> See below, p. 18.

<sup>&</sup>lt;sup>5</sup> Although Manoilescu, Liberal Minister of Industry and Commerce in 1931, echoed List's arguments on the shortcomings of what both took to be Adam Smith's ideas: see *CER*, no. 2 (1931), pp. 1–15.

<sup>&</sup>lt;sup>1</sup> See F. O. Manoliu, La Reconstruction économique et financière de la Roumaine et les partis politiques, p. 148.

<sup>&</sup>lt;sup>2</sup> For the results of this policy after the First World War, see below, pp. 103 et seq.

<sup>&</sup>lt;sup>3</sup> This was managed in such a way that the shares were reserved to adherents of the Liberal Party even when they could only pay for them out of future dividends. Wealthy Conservatives were financially ostracized. See dispatches by W. A. Winter (Bucharest) to Granville: no. 72, 7 June 1880, FO Series 104, no. 15; and Townley to Grey: 3 Jan. 1912, FO Series 371.

no. 15; and Townley to Grey: 3 Jan. 1912, FO Series 371.

4 On this topic see N. Spulber, "The Role of the State in Economic Growth in Eastern Europe since 1860", in The State and Economic Growth, ed. H. G. J. Aitkin, pp. 255-86.

noted in his report for the year 1890<sup>I</sup> that "the tendency towards protection has become more marked every day and great exception is taken to the most-favoured-nation clause as hampering measures of retaliation when a foreign country imposes an import duty on corn", and that it had been officially decided that foreign chambers of commerce among foreign merchants in Romania were to be "neither recognised nor encouraged".

There also emerged in the domestic politics of the Old Kingdom various dissident groups, of which the most important, from the viewpoint of its permanent impact on Romanian politics, was the "Junimists", whose leaders included Petre Carp, Titu Maiorescu, and Alexander Marghiloman. The party advocated an explicit programme of financial and agrarian reform and a close connection with Germany and Austria-Hungary. In the parliaments of the eighties the Junimists supported the Liberals on foreign policy but opposed them on their handling of domestic issues.

establishment of 45,600 men and a normal wartime force of 207,000 army, based on compulsory military service, with a peacetime general practice, viz. that the King was his own foreign minister.2 arrival in office demanded. This is the most striking instance of a its artillery was supplied by Krupps. Carol I was also the creator and Commander-in-Chief of an King successively to a few Romanian political leaders, as their Triple Alliance. The treaty was kept secret, being disclosed by the an alliance was concluded with Germany and her partners in the guarantor on both dynastic and military grounds, and in 1883 the Congress of Berlin, Germany appeared the most efficacious first importance. From that period onwards, and certainly after sympathies with France could not overcome the fact that France, from which Romania was only lately emancipated. Romania itself already anti-Russian but was also committed to Ottoman Turkey, by reason of the defeat of 1871, was militarily no longer of the was not central to British policy in the Levant. Ideological tenance of the kingdom's new sovereignty. British policy was issue was that of the external guarantor necessary to the main-Balkans united Romania's political leaders. The only question at policy: fear of Russian-sponsored Pan-Slav expansion in the There were no wide differences between the parties on foreign

The gradual abridgement of Turkish control also permitted Romania to enter into independent commercial relationships. Before the Treaty of Adrianople, 1829, Moldavia and Wallachia functioned as a granary for Constantinople. The opening, under the treaty, of Romanian harbours to foreign shipping and the foundation in the same year of Die erste Donau-Dampfschiffahrtsgesellschaft (DDSG) operating along the Danube as far as Cernavodă, linked Romania with Western and Central Europe and assisted in the reorientation of her foreign trade which took place in the 1860s. From the unification onwards, Turkey declined to third place (after Austria-Hungary and Great Britain) as a market for the agricultural products which were, and remained, Romania's largest single export item until after the First World War.

At this period any significant extension of foreign trade was inhibited by a number of internal factors—poor communications, the rudimentary nature of the credit system, lack of indigenous capital, and the diversity of currency in circulation. In consequence, Romanian governments sought to remedy these deficiencies by reforming the currency² and by contracting loans³ for expenditure on public works. Between 1864 and 1875 450 million lei was raised—350 million in Germany, 72 million in France, and 33 million in Great Britain; 100 million derived from Romanian sources. Two-thirds of the total sum was expended on communications, the rest on covering budgetary deficits. It remained characteristic of Romanian finance that the State's receipts from the exports of

I F.D. 1891 Annual Series No. 837, pp. 5 and 8.

See R. W. Seton-Watson, A History of the Roumanians, Chap.XII, pp. 346-70.

Russian hostility to Austrian commerce was aimed at protecting Odessa, as against Galați and Brăila, and successfully prevented the DDSG from operating in the Danube delta. Passengers and freight were transhipped at Cernavodă to go overland to Constanța. The setting up of the Danube Commission after the Crimean War put an end to Russian obstruction in the Delta until 1946. Nevertheless, a policy of low freight rates on Russian railways enabled Odessa to handle timber from Galicia and Bukovina which otherwise would have gone to Galați. (See Trade and Commerce of Roumania 1909, FO, May 1910, p. 28.)

<sup>&</sup>lt;sup>2</sup> Since the right to mint money was regarded as a fundamental attribute of statehood, Turkish opposition considerably delayed the establishment of a new Romanian currency: this was not achieved until 1890, when the gold leu became the standard unit, supplanting the silver leu and various intermediate currencies, and being valued, until the First World War, at par with the Swiss and French francs.

<sup>&</sup>lt;sup>3</sup> The first loan was authorized by the Law of 15 Jan. 1864; it was for 23 million francs at 7 per cent over 24 years and was negotiated on the London and Paris markets by the Ottoman Bank and Stern Brothers: on Romanian financial policy, see G. Cioriceanu, La Dette publique de la Roumanie.

The Emergence of the Romanian State

grain had to meet current expenses and interests on loans; their scheduled repayment was usually made out of further loans. Thus the State's financial position rested on the vagaries of the harvest and the goodwill of foreign lenders.

The public works programme, however, strengthened the new kingdom internally. By 1875 5,420 km. of metalled roads had been completed and about 1,300 km. of railway were in operation. Romania had been linked with the main European system, westwards to Hungary through Vârciorova and northwards to Galicia through Român: Berlin and Vienna had been brought within two and a half days' journey from Bucharest. There was also a branch-line from Iaşi to link with the Russian railway to Kishinev (Chişinău) and Odessa. The Romanian Government bought out the shareholders, both native and foreign, in the various companies, and created a united state administration, the Căilor Ferate Române (C.F.R.) in 1880.1

The organization of credit was determined by the needs of agriculture, and the first public banks, founded either by the State or by private funds, served a limited clientele. Banking facilities for foreign trade were provided either by those private banks which developed out of money-lending, such as those of Marmarosch and Chrissoveloni, or by foreign capital, e.g. Anglo-Austrian in the Banque de Roumanie 1865,<sup>2</sup> or German, as in the case of Banca Generală Română, founded by the Disconto-Gesellschaft-Bleichroeder group in 1895.<sup>3</sup>

This banking investment was part of a general move by German and Austro-Hungarian capital into Romania, particularly in those sectors requiring technical expertise, e.g. foundries, manufacture of agricultural machinery, brewing, and oil. Investments in the latter were necessarily made on the basis of concessions, since

Article 7 of the Romanian Constitution barred foreigners from holding landed property. The first attempts were uniformly unsuccessful. From 1879 onwards the Viennese banking house of Suchard and Co. financed drillings at Colibaşi (Dâmboviţa), but the output was insufficient to meet the royalties involved, and the bank retired. Similarly, in 1887, the German company Hildebrand failed with drillings at Matiţa and Ploeşti. Austro-Hungarian capital met with its first unqualified success in 1895. British and French experience of Romania's oil resources dated from 1868, but had been equally unfruitful, partly for technical reasons and partly through incompetent management.<sup>2</sup>

system of landownership meant that negotiations could be carried concessions were often taken out in a hurry, the complexity of the extent of the holding. Furthermore, since for competitive reasons on with the wrong parties. When this was discovered, concessions there being no documents to prove ownership or to define the in consequence, for an intending concessionnaire to get a good title, accidental features such as trees and stones. It was thus difficult title. The boundaries of such holdings were marked often by Moșneni, or Elder's land, which passed down without any apparent one acre. Further, in the peasant sector, there was also the in many cases to ascertain the real owner of petroliferous land and, oil area this process had reduced the average size of plots to about equal partition of estates between all heirs. In the Wallachian subsequently subdivided by a law of succession providing for the distributed to the peasants, whose individual holdings were peasant sector. In 1864 about a quarter of the land had been complexity of the system of land-holding, particularly in the was retarded by the absence of an adequate land survey and the period 1865–95 totalled only 25 million lei (£1.05 m.). Progress In monetary terms, the investment in Romanian oil during the

<sup>&</sup>lt;sup>1</sup> The railway question became entangled with the attempts by the Powers to compel Romania to grant civic rights to Jews and exacerbated German-Romanian relations from 1867 to 1879. See reports of Degré, Romanian agent at Berlin, of 27 and 29 May 1877 in Correspondance diplomatique roumaine sous le roi Charles  $r^{er}$  (1866–1880), ed. Nicolas Iorga; and N. M. Gelber, "The Intervention of German Jews at the Berlin Congress 1878", Year Book V, Leo Baeck Institute.

<sup>&</sup>lt;sup>2</sup> Subsequently the Austrian participation was withdrawn and the Bank reorganized as the Bank of Roumania Ltd., with British capital. On the question of foreign-owned banks in Romania, see D. Kastris, Les Capitaux étrangers dans la finance roumaine.

<sup>&</sup>lt;sup>3</sup> See dispatch by H. E. Browne (Second Secretary, British Legation Bucharest): no. 29, 1 Aug. 1897, FO Series 104, vol. 134.

I See below, p. 23.

<sup>&</sup>lt;sup>2</sup> e.g. the failure of Jackson Brown & Co., who in 1868 appeared at Ploeşti as the "Wallachian Petroleum Company" and invested 8 million francs in the acquisition of lands, subsequently discovered to be highly productive, in Băicoi, Țintea, and Buştenari. The company sank pits and, in order to enter the kerosine market, constructed a refinery at Brăila and organized wagon transport on a scale hitherto unprecedented. All these activities resulted in the expenditure of the entire capital of the company in four years, at which juncture the loss of oxen through disease and the destruction of the refinery by fire led to its dissolution. For the beginnings of investment of British capital in Romanian oil, see "Roumania: a review and retrospect", PITR (3 Mar. 1900).

taken out in good faith had to be cancelled. Connivance between peasants and intermediaries increased the hazards of investment.<sup>1</sup> The effect, as noted by C. M. Pleyte on his exploratory visit to the country for the Royal Dutch, even as late as 1906, was the proliferation of large numbers of small concessions with an insecure legal basis, making the country "an el Dorado for lawyers".<sup>2</sup>

#### The Mining Law of 1895

instituted by the Mining Law of 20 April 1895.3 It was introduced tion of all mineral deposits on both state and private lands was the monasteries. A single regime for the exploration and exploitaownership after the expropriation of 1864 and the dissolution of resources on state lands, i.e. those that had reverted to direct state concessionaires. A beginning was made in 1890, concerning the oil and there was no over-all state policy with regard to intending considerably throughout the different provinces of Romania, status of petroleum deposits and the right to exploit them varied authorization of the Minister of Domains, is free to devote himself "throughout the whole territory of Romania, any person without surface and subsoil rights, and further provided (Article 4) that remedy the existing difficulties: it established a distinction between to extract other resources from the soil besides those provided policy, announced at the opening of Parliament in November 1894, by Carp, as Minister of Domains, in accordance with the party is not necessary for the owner of the surface". of the surface without causing its deterioration. This authorization to the discovery of mines, to the investigation and prospecting distinction of nationality and without any other formality than by agriculture. The Law incorporated two features designed to This chaotic situation was aggravated by the fact that the lega

At the same time, the Law declared the interest of the State in the exploitation of mineral deposits by reserving (Article 5) the right of the State to demand of the owner of the land on which deposits were discovered whether or not, within a given time, he

intended and was able to exploit them, and, in the case of a negative answer, to proceed to exploration and subsequent exploitation itself or to concede the mining rights to a third party. An exploitation right thus conceded lasted for seventy-five years, and was (Article 7) regarded under the category of real property, transferable, mortgageable, and distinct from the ownership of the surface. Similarly, concessions renounced by the concessionaire reverted to the State either for direct exploitation or for concession to a third party for the remainder of the original seventy-five-year term (Article 12).

These considerations established the relationship between the State and the individual owner of subsoil rights with regard to the exploitation of mineral deposits in general. Petroleum deposits were considered as a special type of mineral, and by Article 65 their exploitation rested at the "full and entire disposal of the surface owner, provided that the exploitation does not imperil the safety of his neighbours".

exploitation of petroleum;3 it levied taxes, and determined the welfare, the Romanian State played only a limited role in the respect of its own property and its general concern for industrial regulation.2 Thus, apart from these minor rights retained in scribed by the Law for other surface owners, except that royalties, due to the State as landowner, were to be established by subsequent State held in its own right was submitted to the general terms precompany engaged in the petroleum industry and the owner of neighbouring property and with employees (Articles 67-69). and to the supervision or the relationship between a person or specifically ruled out the necessity to obtain the authorization of Furthermore, under Article 70, the exploitation of those lands the in petroleum resources was confined to the dues and taxes stipulated resources on his land. According to the Law, the State's interest the Ministry of Domains in the case of a surface owner exploiting was subjected to no prior or residual state direction, since Article 4 In practice, this clause meant that the exploitation of petroleum

<sup>&</sup>lt;sup>1</sup> See memorandum of Consul Liddell on "The Petroleum Industry and its Abuses", enclosed in Dispatch no. 26, 7 Sept. 1897, FO Series 104, vol. 135.

<sup>&</sup>lt;sup>3</sup> Text in Lois, réglements, décrets concernant les mines et le pétrole, ed. D. R. Rosetti, pp. 4-139. Regulations on the application of its provisions, ibid., pp. 143-207.

<sup>&</sup>lt;sup>1</sup> They were not the subject of a specific petroleum law till 1942, see below p. 230.

<sup>&</sup>lt;sup>2</sup> Promulgated 10 May 1895: text in Rosetti, pp. 143-207. See also commentary by A. de Richard in *Loi sur les mines*.

<sup>&</sup>lt;sup>3</sup> The mining of solid substances was attended by a greater degree of state supervision or control, and, in respect of deposits of salt, Articles 77–80 of the Mining Law ascribed to the State a complete monopoly; the State also exercised

not single out its own lands for any special regime. It did not, however, attempt to discriminate in favour of any size of exploration and exploitation areas and the scale of royalties. determine the organization of any exploiting company, and did particular class of owners or exploiters: it did not attempt to

registered, the right was established against all comers. after an investigation of land-holdings by public inquiry. Once a legal basis for exploration and exploitation by the registration of established by the law of 8 May 19041 was a means of creating complement the Mining Law in this respect. Consolidation as ing exploiters. Accordingly, a consolidation law was necessary to the applicants' right to do so by a tribunal in the locality concerned, the "surface owner" had to be carefully investigated by intendtenure was eliminated, although for reasons explained above (p. 17) of the confusion resulting from the different systems of landof the surface of the land in which those deposits occurred, much Since rights to petroleum deposits were vested in the owners

open Romania's petroleum resources for rapid development. of the Mining Law of 1895 were themselves sufficient to throw Notwithstanding this lacuna and the delay in filling it, the terms

petroleum development took place in that area during the period of the 1895 certain rights in the Dobrogea, where all mines were state property, but no

<sup>1</sup> See Rosetti: text, pp. 210-33; regulations, pp. 236-67. For Exposé des motifs see MPR no. 5 (1904), pp. 181-5. See also A. de Richard.

#### CHAPTER II

#### The Foreigners Arrive

## The beginnings of corporate investment

of the industry from exploitation to marketing demanded greater mic life. But the introduction of the new techniques in all phases whose operations became an important factor in Romanian econoon pits and ox-carts to a highly developed industrial undertaking resources of capital than had hitherto been necessary. the development of Romania's oil industry from primitive reliance THE technical and legal changes already described made possible

mediaeval kitchen". fortunate horse which is doomed to gyrate like the turnspit of a month, "including the wages of a driver and the keep of the unof a 150-metre pit was 6,000 francs², and of a 300-metre pit 15,000provision of well-lining materials, bailing equipment, and tanks) a report published in 1899 which is the first appraisal of the Maintenance costs of such wells he averaged at sixty francs a 18,000 francs. These costs were doubled for difficult strata Sutherland noted that the cost (based on labour costs and the industry published in English by a technically qualified observer. These changes in cost were discussed by D. A. Sutherland in

generally supported by Brackel and Leis in their discussion of also demanded specialist labour, which in the absence of skilled costs, and the much longer time taken to complete a well. Drilling of 600 metres—on account of greatly increased primary and drilling Romania in the context of U.S.-Russian oil rivalry,4 though no Romanians was imported from Galicia.3 Sutherland's figures are It was, however, much more expensive—75,000 francs to a depth beneath the surface and open up wells which were more productive. Mechanical drilling could penetrate strata as far as 1,000 metres

<sup>&</sup>lt;sup>1</sup> See PITR (1 Apr. 1899), pp. 95-101 and 104; (15 Apr. 1899), pp. 131-7

<sup>&</sup>lt;sup>2</sup> At this period francs 24 = £I.

A government drilling school was opened at Câmpina in 1904.
 O. von Brackel and J. Leis, Der dreissigjährige Petroleumkrieg, pp. 257-60.

exact comparisons can be established. Nevertheless, from their study of Romanian sources (not available to the present writer) they arrive at an average combined extraction and refining cost of thirty francs a ton—"which in no other production area has been achieved as an average and which in itself secured competitiveness on the world market for Roumanian producers".

Capital was needed not only for the extraction itself but also for expenditure on marketing facilities—tankage, pipelines, rail-ways in refineries, and oil docks, and so on—the cost of which related basically to the cost of iron and steel. Sutherland reported on pipelines which ran from fields to refineries or to railway loading-points, that "the cost in steel tubing of 3" diameter is about 11.5 francs per metre, so that a line of 12 miles (the largest then in existence in Romania) inclusive of conical threads, freight and laying would cost about £8,000".

## The advent of foreign capital and the controversy over state-owned oil lands

Capital of the order required for large-scale operation with the new techniques was not forthcoming from Romanian sources. Romania was not a money economy: agriculture was the predominant industry and the wealth of the boiars consisted not in cash or securities but in latifundia, farmed to provide a wheat crop which earned a premium at Liverpool. Oil was regarded by the generality of landowners as a secondary 'crop', the importance of which was entirely overlooked. The outstanding exception in this respect was Prince Cantacuzino, who financed and supervised the successful venture on his estates at Drägäneasa.<sup>2</sup> Public corporate enterprise was restricted by the relatively small number of companies and their limited capital basis.

Of the indigenous companies operating before the first Mining Law, one of the most important was the Societatea Română pentru Industria și Comertul Petrolului (Romanian Company for the Manufacture and Marketing of Oil Products) founded in 1889 by Romanian capitalists, with assistance from the Vienna

scale. question that Romania was a suitable field for oil development were from 5 to  $7\frac{1}{2}$  per cent. These results demonstrated beyond 61 per cent of the total for Romania. Dividends for these years success and the company's production between 1896 and 1899 successfully in outside markets of Europe and Asia". Accordingly requirements of an inland trade into one capable of competing management was "to develop a business originally adapted to the acquired all its commercial and industrial assets and took over on 17 September 1895 as the Steaua Română S.A. The Bank also provided that capital and skills were forthcoming on a sufficient rose from 23,655 tons to 152,500 tons or from 29 per cent, to progress was spectacular: increased drilling activity met with Societate Română's landed property at Câmpina on mortgage. the reorganization of the Societatea Română, Steaua Română finance as a guarantee of the Bank's advances to Steaua. Under sought additional support on the London market, where the and Industry of Pest, a creation of the Wiener Bankverein. The business-the first in Romania. The organization's immediate it set up an integrated exploration, refining, and marketing Initially, Steaua had a capital of 2,400,000 lei: the problem for its Romanian Oil Trust Limited was set up to bring in British Hungarian bank financed a new Romanian company registered its directors to seek the help of the Hungarian Bank for Commerce years' operations it ran into financial difficulties, which induced land in its own right in Moinești and Solinti. However, after five fineries at Bucharest, Câmpina, and elsewhere, and possessing became prominent in the inland petroleum trade—having rebanking house of Offenheim and Singer. The company rapidly

Capital arrived from the Netherlands from 1897 onwards, but the first group to draw the correct conclusions from the Steaua experience was that led by Frits Olic, who in 1899 invested the fortune derived from the East Indian tobacco trade in the Internationale Rumeensche Pet.-Mij. of Amsterdam. The company, for an outlay of 5 million francs, purchased properties at Buştenari and Gura Ocniței and an existing refining company, the Aurora, whose Băicoi plant was modernized and extended. Henceforward,

<sup>&</sup>lt;sup>1</sup> Even when estates were sublet, metayage was widespread, particularly in Wallachia. On the prevalence of latifundia, see D. Mitrany, *The Land and the Peasant in Rumania*, pp. 255 et seq.: on wheat production, ibid., pp. 288-9.

<sup>2</sup> See above, p. 8.

<sup>&</sup>lt;sup>1</sup> Dr. Lagerwall, Managing Director, in his report to the second general meeting of shareholders of the Romanian Oil Trust 29 Dec. 1899, summarized in *PITR* (30 Dec. 1899), p. 718; (6 Jan. 1900), pp. 4 and 19.

and marketing. Internationale concentrated on production and Aurora on refining

strengthen his position in face of increased Russian competition owned source of supply for the German market. investment in oil, but were concerned to establish a German-Gesellschaft differed, inasmuch as they had not hitherto made an in India and Central Europe. The motives of the Discontothe current American deficit against Russian output, and to feller was interested in Romania as a source of supply to offset the main supplier of credit to the Romanian government. Rockemade a similar survey on behalf of the Disconto-Gesellschaft, bilities, while in 1898 Richard Sorge, a noted German geologist, in the Prahova to inspect the oil workings and assess their possirepresentatives of Standard Oil Company of New Jersey appeared showed interest in Romanian oil. From 1895 onwards a series of During the same period, the United States and Germany first

of the harvest.2 The short-term financial difficulties were overof activity and make the economy less dependent on the vagaries pipeline from the oilfields to Constanța—to create a new sphere the petroleum-lands belonging to the State, and a concession for a policy of realizing the country's most valuable commercial assetsadvances. At this juncture the Carp Government resorted to a banks, including the Disconto-Gesellschaft, refused further third of the total annual budget. In consequence the German deficit in the financial year 1898-9 of 74 million lei, or about oneexports and therefore the return to Romania, contributing to a loans. The disastrous harvests in the seasons 1895-9 curtailed wholly provided by the receipts from grain exports and by foreign Since independence the financial basis of Romania had been almost concerns, but by a financial crisis of the Romanian State itself ments was provided, not by the operational frailty of existing come by the direct personal intervention of the King, which The opportunity to transform these investigations into invest-

years as a preliminary to the negotiation of a long-term loan. induced the banks to grant the equivalent of £7,000,000 for five

revert to the State.2 level of profit. On the expiry of the concession, the line would years on a "common-carrier" basis, with a fixed uniform tariff and struction and operation to a private undertaking for twenty five 13 million francs, which should be met by concessioning the conthe Băicoi-Constanța line, including ancillaries, he estimated at the transport of kerosine, the loss to the C.F.R. in this respect on the level of output and exports. Saligny's plans were based on being offset by increasing rail-transport of residuals. The cost of should be constructed direct from Băicoi to Giurgiu on the greatest incentive to exploitation in Moldavia, hitherto impeded by terminal, and then to Constanța-a total distance of 310 kilo-Danube—156 kilometres. The adoption of either would depend lack of transport facilities. Alternatively, Saligny suggested, a line metres. The route was to run via Buzău in order to provide the Buzău and Fetești to Cernavodă, where there was to be a Danube 1899 he reported in favour of a line from Băicoi via Ploeștireport on the possibilities of pipeline construction. In September missioned Angel Saligny, Director-General of the C.F.R., to In the developing financial crisis, the Carp Government com-

advantages of any concession. serious transport problems for the already strained resources of the C.F.R. and their solution was necessary to realizing the full was complementary in that discoveries on state lands would create ments to the profitable application of new techniques. The pipeline an easily defined legal basis for operations—both necessary inducethemselves were geologically favourable, and a concession offered operator of a concession on state lands was twofold: the lands supervision of the concessionaires' accounts. The attraction to the struction of a Constanța line: these included, apart from technical provisions, fixed transport and storage charges for users, and state ditions on which it was prepared to consider offers for the con-In March 1900 the Government announced the general con-

The first approach was made by the Disconto-Gesellschaft for

current expenses, even at 7-8 per cent, and that the forthcoming renewal of the Bank of Romania's concession might be used to bring pressure to bear on its directors to help in floating a loan in the U.K.: see dispatch in FO Series 104, 1 On 24 Oct. 1899 Sir John Kennedy, the British minister, reported the King as stating, over lunch at Sinaia, that Romania needed £1 million for

<sup>&</sup>lt;sup>2</sup> This idea had been in the Junimist programme since 1894. See dispatch by Townley: no. 94, 28 Nov. 1894, FO Series 104, vol. 112.

United States 1902, pp. 905-9.
<sup>2</sup> For text of the report (16 Sept. 1899), see MPR, no. 1 (1940), pp. 49-51, <sup>1</sup> See dispatches by Kennedy: 8 Nov., 9 Nov., and 1 Dec. 1899, FO Series 104, vol. 139. On the uses and its outcome see also report by C. S. Francis (U.S. minister), "Financial Conditions in Roumania", in Foreign Relations of the

place during November and December 1900. a concession to construct a crude-oil pipeline from the main per annum. At about the same time Standard Oil asked for royalty on the crude oil produced and a rent of 30 lei per hectare existing railway. In return the Disconto offered a 10 per cent and for the construction of a pipeline to Constanța alongside the comprising those areas favourably reported on by Richard Sorge, a concession of 10,000 hectares on state petroliferous lands, requested both parties to make a joint approach: negotiations took producing centres to Constanța. The Romanian Government

a Romanian joint-stock company was left open, but during the as oil-bearing. The question of whether the work of exploitation state lands outside the recognized petroliferous area, against payagreed upon (Articles 2 and 3). Standard Oil was also to be rising to 10 per cent, and, in addition, certain specific taxes were in depth in such a manner as to prospect the whole area (Article 1). took to expend 7 million francs on drilling wells of 500 metres first eight years of the concession the exploiting company underwas to be carried out by Standard Oil under its own name or as tion-concession of about 15,000 hectares on state lands recognized took to grant the Standard Oil Company for fifty years an exploitament of a royalty (Article 4.) granted an exclusive right for eight years to search for oil or Royalties for the crude oil extracted were estimated at 8 per cent In the proposed agreement the Romanian Government under-

of crude oil from the state lands and from those belonging to necessary to construction, including the pipe itself (Article 11).2 permitted to import free of duty all machinery and accessories for the transport of his oil. Standard undertook to construct all stated that every producer had the right to make use of the line private owners, was to run alongside the railway. It was expressly of a pipeline. The line, which was to be used for the transport had the right to establish branch lines. The company was to be the necessary storage and pumping-stations, to which all producers Câmpina to Băicoi and hence to Constanța, and it was further The route was established (Article 12) as being from the region of Articles 5 to 18 of the draft convention concerned the concession

on the security of the revenues of the lands conceded". records of the company. The concession was to run for thirty years, after which the Government reserved the right to purchase the Disconto-Gesellschaft makes to the Roumanian Government participate in the advance of the sum of 10 million francs which the line outright. By Article 19 Standard Oil bound itself "to to the State the right to inspect all the accounts and operational appeal to Romanian courts. Furthermore, it explicitly reserved ment control of the working of the line and of the installations belonging to it, and provided for arbitration in case of dispute, with 100 kilometres for the Câmpina-Constanța line and 70 centimes oil going through the line, amounting to 95 centimes a ton per for the Moldavia line. Article 16 set out the conditions of governto pay a predetermined royalty to the State on the quantity of through the pipeline were to be fixed by law. Standard undertook a second pipeline. The transit rates which the company would be tons per annum, then Standard Oil would be bound to lay combined output of Moldavia and Wallachia reached 600,000 permitted to charge other producers for transporting their oil provided that, if production in Moldavia increased so that the

spondent<sup>1</sup> stressing the identity of German and Romanian interests in oil matters and urging large-scale German help in realizing Industry, Commerce, and Domains, wrote to a German correprivately pro-German. In October 1900 Alimaneştianu, the Liberal Opposition policy was not only publicly anti-Standard but also and not by bargaining between the State and particular interests. responsible for industry within the Ministry of Agriculture, line concessions, this should be done only on the basis of tenders needs: even if it were decided to realize the state lands and pipewith such important assets merely in order to satisfy temporary Government, the Liberals urged that the State should not part monopoly would then deter other foreign investors. Against the lation by Standard Oil to ruin Romanian producers; the resultant of a rival producing state; this would be achieved by price manipuprovided for the exploitation of Romanian oil to serve the interests of wishing to sell out Romania's vital interests: the scheme opportunity to stage that political crisis on which their chance of returning to office depended. Sturdza accused the Government The Standard Oil proposals presented the Liberals with an

Industry of 1887. <sup>1</sup> Text subsequently published in MPR, no. 9 (1904), pp. 273-6.
<sup>2</sup> This provision was in accordance with the Law for Encouragement of

Professor Oebbeke of Munich, see Petroleum (15 June 1918), p. 725.

attempts of the Standard representatives to state their case and to rebut the charges went unregarded, and on 8 December 1900 the to combat Standard Oil in Germany. In the political clamour the proposals were withdrawn. Romania's oil assets, which offered a convenient source of supply

over its budget proposals, and was succeeded by the Liberals, kind and the negotiations lapsed. In February 1901 the Carp political agitation was now against any concession of whatever ments and a loan of RM 6,480,000. At this stage, however, the sufficient capital to exploit petroliferous land on a large scalealternative proposition,2 undertaking to form a company with ment at 5 per cent, pending the conclusion of a long-term loan. opened an unlimited account in favour of the Romanian Government, good harvests, and the patience of Romania's creditors.3 Sturdza combining the offices of Prime Minister and Minister of Government resigned, on failing to get a vote of confidence for which right they offered in return various tax and royalty pay-King, in that at the beginning of 1902 the Disconto-Gesellschaft German financial support in addition to that negotiated by the The new government was also assured of further immediate Finance. His remedy for the financial crisis relied on retrench-Two days later the Disconto-Gesellschaft came forward with an

Standard Oil. 4 The state-lands crisis became therefore a determinant lingness to accommodate itself to Romanian conditions, and official thereafter consistently ignored this evidence of the company's wilof its activity in Romania. Nevertheless, Liberal opinion then and viously elsewhere, it was prepared to agree to official supervision the declared intentions of the Government make it clear that, powerful and rapacious Standard Oil" had attempted to despoil party policy continued to insist on the attempt at monopoly by however that company might have behaved either then or pre-Romania of her oil resources. The terms of the draft agreement and It became an article of faith with Liberals, thereafter, that "the

of political attitudes and was a major factor in the formulation of

a specific nationalist programme for Romania's oil resources. The weakness of Standard's2 position lay in its misunderstand-

about the treatment of Jews in Romania. on account of the U.S. Government's persistent representations disadvantageous position simply by being American: among all also included Greece and Bulgaria.3 Standard Oil was put in a enjoyed no diplomatic support. At the time, U.S. representations to commercial nexus as a deal with a private partner. The company supposed that a deal with a state involved only the same sort of sumably a result of its being Standard's first oil-producing (as mental issue. The maladroit nature of this approach was, pre-Romanian political groups there was hostility to the United States States and therefore set in unfamiliar territory. It was evidently distinct from refining or marketing) venture outside the United or to obtain some bipartisan support in Romania on such a funda-Romania were made by an envoy based in Athens, whose bailiwick to sound Liberal opinion-with or without appropriate douceursthat the time had come for a change of government. Standard Oil presented them with one. No attempt appears to have been made in the Parliament and in the streets to demonstrate to the King change in Romania. The Liberals, having been out of office since within living memory been liberated from a long period of foreign April 1899, needed some big issue on which to base their agitation rule, and its apparent disregard of the techniques of political ing of the strength of nationalist feeling in a country which had

himself as a firm "for trading in all kinds of petroleum business" enterprise, and in December 1903 G. F. Southard registered with a view to buying either or both of these companies. Such ideas, areas and inspected the properties of Telega and Steaua Română however, were abandoned in favour of a directly owned Standard In June of that year Standard Oil representatives toured the oil Both rebuffed undertakings returned on a private basis in 1903.

See interview with Moniteur des intérêts pétrolifères roumaines, translatec

in PITR (24 Nov. 1900), p. 476.

Text subsequently published in MPR, no. 10 (1904), pp. 303-5.

On Sturdza's financial reforms see Kennedy, dispatch to F.O. 8 Mar. 1902:
FO Series 104, vol. 151; also O. von Brackel, Rumäniens Staats-Kredit in deutscher Beleuchtung, Chap. IV.

although customarily translated as such. <sup>4</sup> The Romanian verb acaparere implies 'grab' rather than 'monopolize'

I See below, p. 66.

<sup>&</sup>lt;sup>2</sup> There is only an implied mention and no discussion of the state-lands controversy and Standard Oil's role in *Pioneering in Big Business* (see p. 516), which R. W. Hidy confirmed to the writer was due to the absence of company

<sup>&</sup>lt;sup>3</sup> See J. B. Jackson's account of his reception, as reported to Hay, U.S. Secretary of State, on 9 Feb. 1903, in *Foreign Relations of the U.S.* 1903, pp. 699, 700, and 701.

"Taking as a model the motto of Americans, 'America for was summed up in a speech at Prahova made in June 1904: from using his position to hamper the new company. His attitude privately owned lands. This did not apparently preclude Sturdza economy, deprive it of the right to commence operations on Romania but could not, without prejudice to the legal basis of the The Liberal Government remained unwilling to see Standard in the Standard Oil Trust and all who are in league with it."2 especially 'Romania for Romanians'.... Guard yourself against Americans', I have as my motto 'Europe for Europeans' and

wherever possible. Finally, Româno-Americană reiterated that it drilling system-and to train and employ Romanian labour, strata than hitherto-using for this purpose the Pennsylvanian concentrate its activities on the export market,4 to explore deeper its favour before it could properly be constituted and operate. the new company, which had to obtain a High Court decision in tracted since the competent tribunal rejected the application of Standard Oil Company of New Jersey.3 Registration was procompany with a capital of 2 million francs, entirely owned by the owners lands at Comănești (Bacău) and Boldești (Prahova) programme. Româno-Americană also acquired from private royalty of 10 per cent on the crude output and a stipulated drilling assets were taken on long lease by Româno-Americană against a including a short pipeline and 10,000 tons of tankage. All these in Romania concessions of 400 hectares together with other assets, concern whose primary oil interests were in Baku, but which had The basis of Româno-Americană's operations was land held at had no intention of applying for a concession on state lands. Româno-Americană announced its intention to build a refinery and Americană S.A., which was formally incorporated as a Romanian a refinery at Ploesti, which went on stream in December of that year to 6 million francs, acquired tankage at Constanta, and began work on obligations. In April 1905 Româno-Americană increased its capitai punctuated by lawsuits over failure to fulfil contracted drilling totalling 4,600 hectares. The early history of the company was Cosmina (Prahova) by the European Petroleum Co.—a British In June 1904 the Southard concern was taken over by Româno-

ing was held by Romanian nationals. one-third of Vega's capital. In both companies a minor shareholdthe Compagnie Internationale des Pétroles, contributed about Creditul Petrolifer, for transport and storage. A French concern, existing National Pipeline Company, which had a capital of December 1904, two new companies, the Vega, for refining, and Bleichroeder group also extended its investment by founding, in from reorganizing existing concerns, the Disconto-Gesellschaft/ for its output rather than of relying on hand-dug wells. Apart new resources enabled Buştenari<sup>1</sup> to initiate a policy of drilling 500,000 francs and owned a line from Buştenari to Băicoi. The 10 million francs and the company was amalgamated with the producers in the Buştenari district. The capital was increased to part in re-forming the Buştenari Company—a combination of small Later in the same year, the Disconto-Gesellschaft took a leading tions were curtailed by insufficient capital and lack of a refinery. with about 10 per cent of Romanian production, but whose operaassumed control of the Telega Oil Company, a British enterprise cerns. In co-operation with the Internationale and Aurora, it privately in Romania in 1903 by buying itself into existing con-The Disconto-Gesellschaft/Bleichroeder group also reappeared

In July 1901 Steaua had introduced electric power3 into its operacapital. Expensive technical innovations not only failed to yield company of income which it had expected to use as working in 1902 of its market in the Balkans and Asia Minor<sup>2</sup> deprived the the expected economies but suffered from teething troubles. in prices for crude and products, and the temporary elimination in many cases stipulated an annual amount of development work. Such clauses imposed wasteful expenditure. Furthermore a decline financial side, since the land in question was held on leases, which technical advantages of which were to some extent offset on the output tied up an excessive amount of capital in the oilfields. Steaua's policy of achieving the quickest possible increase in In particular, Steaua had on concession about 7,500 hectares, the Română passing from Austro-Hungarian into German hands. During 1902 operational difficulties led to the control of Steaua

See MPR for Mar. and Apr. 1904. <sup>2</sup> See MPR, no. 11 (1904), p. 333

The export market intended was Germany (see below, pp. 40-43). Statutes in MPR, no. 12 (1904), pp. 425-30.

In Jan. 1907 these two producing interests were fused into the company Concordia: see F. Haase, Die Erdöl-Interessen der Deutschen Bank und der Direction der Disconto-Gesellschaft in Rumänien, p. 75.

See below, p. 39.
 On the advantages of electricity, see article 'Electricity as a Motive Power

station at Sinaia but frequent breakdowns in the supply of current opened with the Deutsche Bank, which agreed to salvage Steaua company going, new capital was necessary. Negotiations were capital. Hence, to satisfy the bank's liquidators and to keep the no assets would remain to represent the major part of the share own floating debt in Romania and for outstanding debentures, Steaua repaid advances made by the bank and provided for its vestigation of the Hungarian Bank. It soon appeared that, even if vened to take control of the company during the liquidators' in-Steaua was necessarily involved. The Wiener Bankverein intertechnical difficulties caused unexpected expense. As a result Steaua pany's lands in place of the Canadian pole system, but again the water-flush boring system was widely introduced on the comentailed continuous reliance on reserves of steam power. Similarly, tions by an overhead-wire system radiating from a generating francs (£680,000). direction and control and raised its share capital to 17 million bank's liquidators to settle outstanding claims and also to keep Oil Trust in London. In return for sufficient funds to enable the Română on terms involving the liquidation of the Romanian In November of that year the Hungarian Bank failed and the Română's liabilities stood at 9 million francs on 30 April 1902. Steaua Română in being, the Deutsche Bank assumed effective

stretches of the line.2 a source of fuel for the operation of the Balkan and Anatolian regard to kerosine,1 but the reconstruction of Steaua Română Artur von Gwinner, who was an ardent supporter of the Baghdad Railway project, and who saw in the German-controlled company led to the appointment (as its President) of the Bank's Director, by developments in the German oil market, particularly with The Deutsche Bank's intervention in Romania was prompted

another powerful combination, Bank were followed by other German institutions. In July 1904 another powerful combination, the Dresdner Bank and the The initiatives of the Disconto-Gesellschaft and the Deutsche

in the Petroleum Fields', PITR (20 Apr. 1899), pp. 170-1: on its application to Romania see "The Electrical Installation at Câmpina, Roumania", ibid.

to private enterprise. use for his assets when the working of German mines was closed ing the S.A. Română Raky as a drilling concern, in order to find founder of the Internationale Bohrgesellschaft, Erkelenz. The ductive. Involved in Câmpina Moreni were also the Henkel von of 3 million francs, quickly acquired large areas in Moreni, latter strengthened his position in Romanian oil in 1906, by found-Donnersmarck interests together with those of Anton Raky, hitherto largely unexplored, but soon discovered to be very proby founding the Câmpina-Moreni company, which, with a capital Schaffhausen'scher Bankverein, entered the Romanian industry

gamation with the Shell Transport & Trading Co. purchaser of the gasoline output of another Netherlands company, Internationale. Subsequently, the possibility of a Standard Royal Dutch was concerned not to jeopardize its impending amalcompany, Astra Română S.A.3 The reasons, however, differed possibilities and was then transformed into a Romanian limited adopted the same procedure as Standard; a pilot firm explored the output determined the Royal Dutch on direct investment. They monopoly through Româno-Americană of the Romanian gasoline gasoline trade.2 The company originally featured (1903) as a resulted from its competition with Standard Oil in the European The investment of the Royal Dutch in Romania effectively

of which 74 million were of German origin.4 This accession of The total capital investment was computed at 185 million francs, represented by subsidiary companies established for that purpose. such importance in the development of Romanian oil were all By 1906, therefore, the foreign interests which were to assume

but this was dispelled by the controversy over the Standard-Disconto project: see F. C. Gerretson, History of the Royal Dutch, vol. ii, Chap. 5. Arbeit und deutsches Kapital in der rumaenischen Erdoelindustrie, 1927, pp. 45-8. <sup>2</sup> The company had shown some interest in acquiring state lands in 1900 1 On these, and other smaller German ventures, see F. Wirth, Deutsche

Astra Română, see Gerretson, vol. iii, Chap. 2. 3 For details of the development of the private firm of C. M. Pleyte into

German French Miscellaneous 6.5m. 16m. 74m. 22m. 3 m. U.K. U.S. Italian Belgian I5m. 12.5m 5m. 3m.

(a paper read before the International Petroleum Congress, Bucharest, 1907). in der rumänischen Petroleum-Industrie in ihrer geschichtlichen Entwicklung" MPR, no. P. 261 (1907); see also Paul Schwarz, "Die Kapitalsinvestitionen

ventures see F. Haase, Die Erdoel-Interessen.
<sup>2</sup> See below, p. 50. (9 Dec. 1899), pp. 663-4.

1 See below, p. 41. The Deutsche Bank also made similar investments in Galicia and Russia. On both the Disconto-Gesellschaft and Deutsche Bank

German capital and the consequent reorganization of the various managements increased German influence in Romanian oil to an extent greater than the aggregate of German participations, when compared to the number belonging to other nationalities, would suggest. All the United States capital was in one company (Româno-Americană), while much of the rest of the capital was in minority holdings in various undertakings (e.g. British and Belgian in Telega, and French in Vega). The Romanian stake, although totalling some 16 millions, was spread over a large number of small undertakings or confined to minority interests in large ones. Furthermore, German capital was invested in those concerns with the exception of Româno-Americană, which were the market leaders in the industry.<sup>1</sup>

The advent of this foreign capital enabled Romanian oil to expand rapidly in all phases of activity. It implied easy access to foreign markets, both as a source of capital and as an outlet for products. The investment took place in response to market considerations, and specifically the preponderance of Standard Oil in the trade of Central Europe. Even the German Government, which by reason of its standing alliance with Romania had political reasons independent of Germany's oil needs for urging the Deutsche Bank to participate in Romanian oil, subscribed to these considerations. Nevertheless, the investment's foreign character left open the possibility of political complications with the governments of the shareholders concerned, particularly in view of the endemic nationalism of Romanian political life.<sup>2</sup>

#### CHAPTER III

## Production, Trade, and Policy

#### Refining and marketing

The application of new capital, both Romanian and foreign, resulted in increased exploration activity through all the known oil-bearing areas. The digging of pits diminished in favour of drilling wells (see Table 1), and the annual output of crude oil Table 1

PITS AND WELLS DRILLED (AS AT 31 DECEMBER)

1914	1913	1912	1911	1910	1909	1908	7001	1906	1905	1904	1903	1902
562	537	488	560	547	568	583	643	701	680	745	635	577
987	944	850	847	819	748	681	595	425	340	220	195	136

increased rapidly, exceeding I million tons for the first time in 1907 (see Figure I). Similarly, refinery construction by the new companies or combinations of companies extended the range and the capacity for manufacture. The principal plants were:

Aurora Astra Română	Komano-Americana Colombia Aquila	Steaua Română Vega Aurora	Company
1908	1905 1906 1904		Date of construction
Târgoviște Ploești	Teleajen Ploești Ploești	Câmpina Ploești Băicoi	Place
79,960 44,890	151,680 143,720 141,909	516,890 283,260 275,520	Initial distilling capacity (tons p.a.)

<sup>&</sup>lt;sup>1</sup> After the First World War this preponderance of German capital was widely regarded as a sinister manifestation of German imperialism: at the time even the Liberals thought of Berlin as their primary source of finance and technique.

<sup>&</sup>lt;sup>2</sup> See below, p. 62.

1800

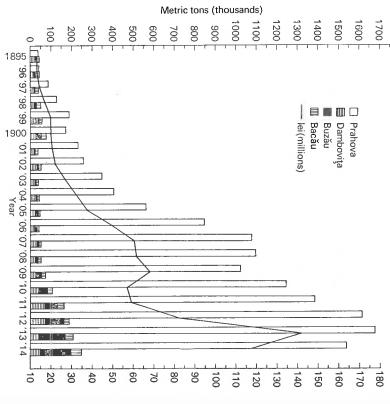


Fig. 1. Annual crude-oil production by areas.

The new plants, in addition to the then conventional distillation processes, provided for the manufacture of the higher-grade products, motor gasoline and kerosine, demanded by the Central and Western European oil markets. All lubricants were manufactured in refineries owned by foreign-capital companies. The growth in refining was superimposed on the existing pattern of manufacturing in the petroleum industry; the small refineries remained in being, working for the domestic market. The increase in over-all capacity put an end to the practice whereby small producers, by reason of their limited storage facilities, were forced to sell their crude oil virtually as it was produced, and enabled them better to withstand fluctuations in the price of their output by forward selling on contract to the large refiners. The latter used

such supplies to make up any shortfall in their own crude output so that they were able to employ their capacity to the maximum extent and, if ever united, could enforce market leadership on their own terms.

For the purposes of a report<sup>1</sup> on the working capacity of Romanian refineries, in June-July 1908, the Government Inspector of Finances, Constantin Hălăceanu, distinguished three categories of refining, viz.:

Group I, comprising nine refineries of over 40,000 tons each.

Group II, comprising five refineries of between 10,000 and 40,000 tons each.

Group III, comprising forty refineries of under 10,000 tons each. Subsequently, the numbers varied but the pattern remained. Until the end of the First World War, Group I was entirely "foreign"-owned and Groups II and III entirely Romanian. There were many different techniques used within this sector of the industry, but the broad difference between Group I and the others was that the former could carry out continuous distillation, and had better storage facilities and a more varied crude supply. These refineries were therefore better placed to manufacture to more exacting specifications, with the concomitant possibility of bigger unit returns.

demand for motor gasoline increased the use of crude oil from aromatic fractions in kerosine, which caused soot in lamps, went crude oils. The first Edeleanu<sup>2</sup> plant in Romania to wash out the disadvantages in quality of the yields from the various Romanian Casin or Teţcani crudes, distilling 38 Băicoi and Câmpina, which were rich in gasoline fractions, e.g. into operation at Astra's refinery in Ploești in 1913. Further, the grade products, refining methods were developed to overcome the locomotives and ships. In response to the demand for higherused within Romania as a fuel in manufacturing industry and for export were regulated by rail freights: residuals were, therefore, oil. The latter was a low-value product, and the possibilities for motive vehicles and chemical manufacture), and residual fuel known as benzine, produced virtually for export for use in autoconsumption and for export as an illuminant), gasoline (also The main products were kerosine (produced both for domestic per cent-47 per cent

I See below, p. 53.

<sup>&</sup>lt;sup>2</sup> See above, p. 7.

Refining and Marketing

gasoline at 150 °C. in contrast to Gura Ocniței or Sărata crudes which yielded only 20 per cent.1

producers and refiners survived, largely through political pressure advantages were latent, and in spite of them the small-scale cular, as beneficiaries of Romanian nationalist policies in general, and government price and transport control in partiproduce high-value products. In 1900, however, both these discommanding lower prices or with insufficient refining capacity to gent, they found themselves saddled with a type of crude oil tankage. Thus, for example, as specifications became more strinlimited scale of operations, particularly as regards shortage of mained, however, particularly vulnerable to changes through their comprising at least two sets of middlemen). They were and rescale concerns, as producers, refiners, or distributors (the latter market provided the basis for the continued existence of smallbetween "Romanian" and "foreign" capital. The domestic retail The market structure of the industry also reflected the division

#### (a) The export trade

other sources, but also of the structure of refining in the Gulf area.3 matter not only of the proportion of export output in relation to accepted international yardstick until about 1950. This was a world export trade, quotations "f.o.b. U.S. Gulf" became the In consequence of the predominance of the United States in the Philadelphia were replaced as bases for shipment by the Gulf ports. situated for the export trade, with the result that New York and centre to Pennsylvania and Indiana<sup>2</sup> which was more favourably the beginnings of production in the Gulf Coast area created a rival years 1901-5 and of the Galician after 1908. In the United States which was strengthened by the decline of Russian output in the dominant U.S. contribution to the world oil trade-a position the Romanian State, since they depended ultimately on the precapital concerns, but prices could not be similarly controlled by The export market provided the raison d'être of the foreign

which entered into the total f.o.b. price quotation. oil exporter through the possibility of varying the f.o.b. charges, ad hoc charges, depending on government financial policy. The cent of the total f.o.b. quotation. This was also subjected to various Romanian State thus exercised an indirect command over the charges", and approximated to between 35 per cent and 50 per the C.F.R. or the fiscal authorities, became known as the "f.o.b. could be earned. Nevertheless the Constanța quotation did reflect Constanța. These costs, which accrued to the State through either in the state-owned installations was a prerequisite of delivery to transport, customs and excise duties, and manipulation expenses the products left the refinery, of the costs of rail (later pipeline) state financial policy in that payment in lei by the exporter, before transport in Romania restricted the area in which this premium storage and handling conditions of the trade. The high cost of at shorter notice and in smaller quantities, to suit the general and the cost of freight. In the European market the standard sources only, viz. Romania, the Netherlands East Indies, Iran, premium over the Gulf price in virtue of the possibility of supply Romanian export price, f.o.b. Constanța, customarily enjoyed a by the price in the major alternative and preponderant market, and later Iraq, their export prices were necessarily conditioned market outside the Western Hemisphere originated from a few During a period when oil movements in the international

market, Bulgaria and Turkey, and of gasoline, for which there the mid eighties, virtually all supplies to Western and Central industry and were too sensitive to influences from Baku. Until market were madequate to support continued development of the was no demand in these countries. Returns from the Balkan higher-grade kerosine than was necessary for the original export in Western and Central Europe. This required the production of was based primarily on the demand for kerosine and lubricants The development of Romania's oil resources by foreign capital

being still adequate for automotive purposes. quality requirements, and hence the refining process, were not exacting: anti-knock aromatics, such as toluene, were *extracted*, the residual product As at this time gasoline engines had low compression ratios of 2½-3, the

<sup>&</sup>lt;sup>2</sup> On the shift in American production, see H. F. Williamson et al., The American Petroleum Industry: The Age of Energy 1899-1959, Chap. 2.

<sup>3</sup> See D. C. Hamilton, Competition in Oil: the Gulf Refinery Market 1925-

greater than the domestic market could absorb. Russian producers therefore a reversion to the distillation of kerosine, which now, took place at a rate ment contracts for the railway system had caused the Baku industry to concentrate on the output of fuels, to the neglect of kerosine. The reduction in kerosine turned to exports and undersold their rivals in the Balkans and the Levant, in drilling. The completion of the government contracts, in 1901-2, entailed output in turn caused a rise in prices which encouraged additional investment In Russia, during the 1890s, the metallurgical industry's work on govern-

their search for other sources of supply and necessarily involved organization of the Nobel distribution system. Between 1883, competition between Russian and American oil interests intensified 1899, when Russian kerosine began to be sold in Portugal, the when U.S. kerosine ceased to be competitive in St. Petersburg, and sequence of the reduction of railway freights in 1885, and the that time its position was challenged by Russian sources in con-Europe were made by Standard Oil from the United States: after

sources of supply were to New York. The improvement of storage nection with Constanța was improved after the opening of the and by the Danube from Giurgiu to Regensburg. The rail condevelopment of the Danube waterway, which appeared better on facilities in Constanța<sup>3</sup> and the pipeline project inhibited the cheaper, since Ploești was nearer Constanța than the main U.S. York, but freight costs before shipment could be expected to be Hamburg was only fifty nautical miles shorter than that from New Cernavodă bridge in 1895. The sea route from Constanța to Western and Central European oil trade both by sea from Constanța Romania was geographically well placed to participate in the

PITR (1899), p. 519. wholesale by weight, and retail by volume: since the Russian product was 4 per cent heavier, German dealers had an initial preference in favour of the Americans. See "The Importation of Russian Petroleum into Germany", or spindle oils. In the main illuminant market, Germany, kerosine was sold sources tended to be complementary-the Russian having a high viscosity at kerosine commonly contained more gasoline fractions than the best Pennsylvanian product and therefore "flashed" more easily: lubricants from the two difficulties, owing to the quality of the product and to retail practice. Russian having a high viscosity at high temperatures, were more suitable as cylinder low temperatures which made them suitable as machine oils, while the American, 1 The advantages enjoyed by Baku producers were to some extent offset by

importers and organized their own marketing subsidiaries, viz: <sup>2</sup> The competition also changed the character of marketing inasmuch as both Standard Oil and Nobel discontinued selling through independent

Oesterreichische-Russische Nafta Import G.m.b.H. Deutsche-Russische Nafta Import G.m.b.H.

Standard: Anglo-American Oil Company, 1888.

Deutsche-Amerikanische Petroleum Gesellschaft, 1890.

Soc. Italo-Americana del Petrolio, 1891.

On the organization of the Nobel interests see A. Beeby Thomson, The Oil

and Williamson and Daum, Chaps. 19 and 24. Fields of Russia; for the rivalry between the two companies see Hidy, Pioneering,

<sup>3</sup> On Constanța, see reports by Vice-Consul Pogson, 1905 (FO June 1906 pp. 3-5), 1906 (FO Oct. 1907, p. 13).

overland rail communications<sup>2</sup> were of less importance until the the Danube. Through the technical shortcomings of the C.F.R. only 10-13 per cent per annum of Romania's exports went via tariff enabling it to reach central Germany. From 1906 onwards, using the Danube route, was effectively competitive only in south Dardanelles were closed.3 i.e. after the large-scale foreign investments in Romanian oil, Germany and Switzerland: raw gasoline enjoyed a special rail shipped. The trip from Giurgiu to Regensburg took four weeks. Because of these operational restrictions, Romanian kerosine, tons) operated as far as Budapest, where their cargo was tranbe reached by vessels with a maximum draught of one metre full capacity. Even in normal conditions, Regensburg could only the second factor compelled the loading of vessels to less than reduced draught in summer. The first was offset by the constructions were still hampered by the winter freezing and the much proved after the opening of the Iron Gates Canal in 1896, operaa map than in actual practice. Although it was considerably im-(i.e. in terms of capacity, 300-400 tons). Larger vessels (600-1,000 tion of winter harbours at Deggendorf (Bavaria) and Passau, but

and publicists, it was less acceptable than the established brands from American and Russian sources. then in use, so that despite propaganda by Romanian officials tended to burn unevenly and leave deposits of soot in the lamps it came to be treated by the Edeleanu process, Romanian kerosine There were also difficulties over the quality of the product. Until

were directed to Germany as part of the Deutsche Bank's challenge company's exports, other than those to the local Balkan market, the reorganization of Steaua Română by the Deutsche Bank, the in quantity in the U.K. This ceased in March 1904 when, after trade by steamer, mainly with Bulgaria, Turkey, and Italy. Under the aegis of the Romanian Oil Trust, Romanian oil began to appear facilities and a case factory at Constanța for use in an export burg in 1898. At the same time, this company erected storage Română set the pace by shipping cargoes of kerosine to Regens-As the first undertaking founded for the export trade, Steaua

<sup>1907;</sup> and Brackel and Leis, pp. 325-45. <sup>1</sup> On Danube trade, see K. Obbeke, "Bayern und die Rumänische Petroleum-industrie", in Festschrift für den III Internationalen Petroleum Kongress, Berlin,

<sup>&</sup>lt;sup>2</sup> See below, p. 45.

<sup>&</sup>lt;sup>3</sup> See below, pp. 72-73.

and then the Europäische Petroleum Union¹ (E.P.U.). Both were defeated in the market—an episode which had not only commercial

export organizations sold f.o.b. Constanța. to Standard Oil. Other Romanian companies lacking similar

The development of Romanian oil in the export markets,

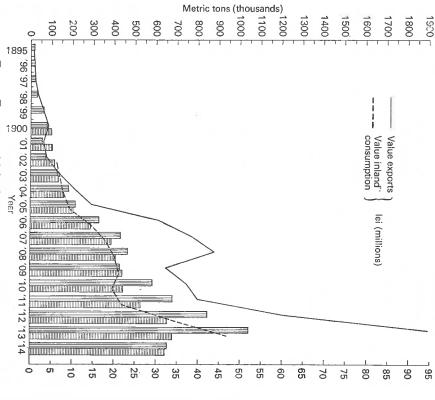


Fig. 2. Exports and inland consumption, 1895-1914

by the Deutsche Bank-first the Petroleum Produkte A.G., Oil, and for this purpose were sold through organizations set up kerosine and gasoline were to be used in a battle with Standard expectations of those who had invested in its production. Romanian particularly Germany and Austria-Hungary, disappointed the

the Deutsche Bank's oil investments in Romania and elsewhere), the Berliner Deutsche Bank, the Deutsche Petroleum A.G. (the organization which managed The shareholding companies in the Petroleum Produkte A.G. were the

EXPORTS OF PETROLEUM PRODUCTS

TABLE 2

repercussions but nationalist implications.2 Notwithstanding this

Year	Crude oil and residuals	Kerosine	Gasoline	Total tons
1895	15,718	и	*0	
1896	17,269	529	:	
1897	21,339	48	:	
1898	27,480	4,253		
1899	48,108	14,283		
1900	48,899	24,612	4,145	
1901	30,753	16,819	8,300	
1902	23,073	32,291	16,344	
1903	58,723	45,897	21,601	
1904	45,204	78,270	36,970	
1905	49,515	118,134	46,696	
1906	54,799	190,914	74,493	
1907	78,423	262,480	89,522	
1908	78,765	263,633	122,860	
1909	54,265	262,587	108,736	
oiei	122,492	337,036	126,334	
1911	231,327	323,012	125,060	
1912	318,441	353,564	173,816	
1913	380,077	418,622	237,168	
1914	191,545	297,800	164.143	

and north-west Europe discussed above. The progress in the export trade is shown in Tables 2 and 3. found new and regular outlets, based on the two routes to Central particular set-back, Romanian oil, under the foreign capital regime,

# (b) The problem of transport—the Constanța pipeline project

in that the railways were already under its control and the disputes problems of transport—at which point the State became involved, The export bias to the industry's activity focused attention on

Bank, Steaua Română S.A., and the Shell Transport and Trading Company. After the Steaua agreement the Disconto-Gesellschaft was admitted to P.P.A.G., On the origins and operations of P.P.A.G. see Gerretson, vol. iii, pp. 83-8; and R. Henriques, *Marcus Samuel* (references, see index).

<sup>1</sup> See Gerretson, vol. iii, pp. 88-106.

<sup>2</sup> See below, p. 63. Supplies were drawn from Steaua Română (Deutsche Bank share), Telega which henceforward sold all Romanian oil in Germany on behalf of its principals. (Disconto share), and Aurora (under contract to Shell Transport and Trading)

<sup>2</sup> See below, p. 63

TABLE 3 ANNUAL EXPORTS BY COUNTRIES OF DESTINATION

(In tons) Country 1903 1904 1906 1905 1907 1908 1909 1010 1911 1912 1913 1914 Austria-Hungary 20,712 19,240 16,479 22,107 22,959 3,623 5,409 33,881 46,311 86,013 77,184 84,253 Belgium 28,857 164 22 87 33,390 40,280 7,944 18,726 27,673 11,907 25,136 18,076 Bulgaria 4,643 3,909 4,995 4,062 3,448 3,243 6,285 7,364 8,550 10,358 13,149 18,689 Egypt 25 73,286 142,418 20,910 79,945 66,317 115,170 121,642 62,714 France and French North Africa 13,148 118,925 40,631 91,618 116,076 134,564 142,601 123,052 127,396 170,732 159,606 58,384 Germany 48,381 24,271 24,972 53,294 25,757 37,091 38,040 34,109 84,041 54,059 126,295 99,165 Greece 298 166 6 19 17 18 100 1,502 6,958 12,406 India 5,466 58,371 15,715 Italy 8,026 34,206 10,140 21,466 28,479 77 21,549 31,104 18,048 25,921 118,643 108,144 Japan 18,631 . . . . 1,549 . . Netherlands 298 166 6 . . rq 17 т8 6,958 100 1,502 12,406 Russia . . . . 575 . . 3 26 33 47 1,210 9,114 7,016 Scandinavia . . 3,348 2,751 5,183 6,406 3,435 10,417 15,843 12,724 20,531 22,039 19,412 Serbia 7 25 34 704 403 121 29I 622 1,044 2,614 3,675 24,369 Spain . . . . 71 63 648 14 64 III Switzerland 250 119 25 26 5 127 836 10 . . 1,155 Turkey 1,241 2,100 7,660 24,587 22,524 32,568 37,838 29,951 49,655 53,549 73,790 31,463 U.K. 37,085 36,869 22,570 91,262 64,575 109,372 70,979 125,687 180,614 232,880 214,195 77,971 U.S.A. . . 3,827 . . . . . . 2,353 . .

> construction and operation would take place only on its terms. in 1900 over the pipeline scheme had made it clear that any pipeline

now had the whole pipeline project firmly in its own hands. project was shelved. The proposals concerning the line advanced 1905 (see below, p. 57) merely emphasized the fact that the State by the Deutsche Bank and Banque de Paris et des Pays Bas freights. Romanian exports would be better stimulated railways other export routes by water available, and, even when Romanian exports reached that figure there were two helpful but was not either then or in the foreseeable future essential; reason why a pipeline should be necessary. A pipeline would be Batum to Baku were made at a million tons a year: he argued that Caucasus, advice of Alexandru Beldiman, Various estimates of cost were made, and the Government, through Sea and also to the Danube. Furthermore, an engineer was sent to aside for the necessary preliminary studies of routes to the Black whereby being 12 million francs. In the following year he introduced a law Constinescu, suggested in 1902 that the Constanța line should be scheme, the Minister of Finance in the Sturdza Government, Emil constructed, After the withdrawal of the Standard Oil-Disconto-Gesellschaft United Beldiman reported in these terms to Sturdza and the could 500,000 francs from the current budget surplus was set where oil exports along the single-track railway from Richard States to study problems of pipeline construction. owned, and run by the State-the estimated cost move the larger quantities of oil, there was no Sorge. Sorge made comparisons Romanian minister in Berlin, sought the provided that the by a cut in with rail the Ħ

exports—the current programme of three oil-trains a day moved about congestion and delays in transit, resulting in restriction on and American production, was not long valid. By C.F.R., and the oil companies. formance of competitive advantages in European markets over current Russian increasing oil exports and at rates which did not nullify Romania's into abeyance, viz. that the railways could adequately move The premiss on which the construction of a pipeline was consequence, plan refineries at Constanța and even buy sites for their constructhe railway caused representatives of the Steaua Română and Aquila, The latter complained particularly Ministry of Industry, convening of who had been induced . 1906 22 conference, the perbу

tion, reverted to extending their up-country plants

only 32,000 tons a month, whereas the net export availability was 40,000 to 45,000 tons a month. It was generally admitted that this was due to a shortage of locomotives, which private concerns had not been allowed to provide for themselves. Further, in the view of the oil industry, the existing routes suffered from two major drawbacks—they all converged on Feteşti and then followed the same route over the Cernavodă bridge to Constanța, and—since they passed through the grain areas—oil-trains had to give way during the harvest to grain exports.<sup>3</sup>

Various remedies<sup>4</sup> were canvassed to increase both the number of trains and their running speeds, and to cut down unloading time at Constanța. The conference agreed that the oil companies should draw up a memorandum of shortcomings and suggest "means for satisfying the present and future needs" for both inland and export trades. The problem was complicated by the fact that the types as well as the volume of exports increased. Residuals, hitherto a burdensome waste product, were now in some demand as fuel,<sup>5</sup> but competition in export markets was so severe that Romanian residuals could not bear the high freights levied by the railway authority.<sup>6</sup> The kerosine trade also increased rapidly and Asia Minor was no longer supplied in cases, but in bulk.

The problem of the disposal of the residuals that necessarily resulted from refining operations enforced continuous official consideration of improving transport facilities, but the immediate cause of the decision to build the pipeline was the sudden increase in output from Prahova in 1910. In consequence, at the end of 1911 the Ministry of Industry decided on the construction of three lines,<sup>2</sup> one for residuals and two for kerosine.

of public utility by Article 8. stations, and all ancillaries was declared expropriated on grounds level of 15 million lei.3 The necessary land for lines, pumping and Commerce (Article 3). It was foreseen that other lines from the struction was to be undertaken by the Ministry of Public Works means of rebates in the transport tariffs for crude and kerosine to a partial amortization for a maximum period of twenty years by Existing refineries, as specified in the Law, were to secure a though not in competition with existing private lines (Article 4) producing areas to the main trunk-line could also be constructed mercial and tariff questions was ascribed to the Ministry of Industry through the management of the railways: competence in com-Cernavodă—was given to the Minister of Finance (Article 1). Conto Bâicoi-Constanța via Ploești, Buzău, Făurei, Fetești, and to finance (to the extent of 18 million lei) a pipeline along a route The necessary law was introduced on 25 March 1912. Permission

Although the law as a whole reflected an initiative and the ultimate continuing competence of the State, concessions were made to the industry in Articles 4 and 5 whereby existing refiners whose plants were inland and therefore dependent on the line were safeguarded against loss of export markets (in consequence of the raising of transport tariffs) to any refineries operating from the seaboard. This was done, as explained by the Prime Minister, P. P. Carp, when introducing the Bill, not as a right but as a simple matter of equity.

As defined in the Law, the route to be followed was 287 kilometres in length: the head of the line was well situated to gather

<sup>&</sup>lt;sup>1</sup> Official permission was granted in 1906, but the type of locomotive had to be the same as those used by the C.F.R.—which ruled out any rapid increase in numbers available.

<sup>&</sup>lt;sup>2</sup> There were two main routes by which oil was transported and to this a third was being added.

Câmpina—Ploeşti—Mogaskaia—Feteşti and Cernavodă—Constanța: 282 km. Ploeşti—Buzău—Făurei—Feteşti and Cernavodă—Constanța: 279 km.

Ploeşti—Slobozia—Feteşti and Cernavodă—Constanța: 256 km.

<sup>(</sup>Completed September 1909).

The industry also suffered by reason of the army manœuvres for 1907, which, taking place in the Dobrogea, occupied the Constanța railway with military traffic during preparations in September and closed the port for a fortnight in October.

<sup>&</sup>lt;sup>4</sup> In his report for 1906 the British Vice-Consul in Constanţa wrote, "the critical question of the moment is the improvement and extension of transport facilities. It has been estimated that the State railway alterations would need at least £4 million, whilst a pipeline from the chief oil fields at Câmpina... would be made at an expense only of £400,000. It is therefore probable that the cheaper alternative will be adopted in the near future." The Vice-Consul was over-sanguine: see \*Trade and Shipping of Constanţa for the year 1906, no. 3939 in the series \*Roumania: Diplomatic and Consular Reports, Foreign Office, Oct. 1007.

<sup>&</sup>lt;sup>6</sup> Approximately one-third of the f.o.b. Constanța price of residual fuel oil represented the freight.

I See Figure I above.

<sup>&</sup>lt;sup>2</sup> Originally two, but, in view of the different qualities of kerosine exported to the European and the Balkan and Near Eastern countries respectively, the number was increased to three.

<sup>&</sup>lt;sup>3</sup> The levels were based on the transport of a minimum quantity of 500,000 tons of crude and kerosine through the line p.a. at 1.5 centimes per ton per kilometre.

crude oil from the existing producing areas in Prahova—all within a radius of 30 kilometres—and to take kerosine from the concentration of refineries in Ploeşti. The Directorate of the Railways sent two missions—to Russia and the United States—to study the organization and running of pipeline systems. It was decided that the crude lines were to be 9 in. in diameter from Băicoi to Ploeşti, and 11 in. from Ploeşti to Constanța, the kerosine lines 6 in. and 5 in. In this way it was hoped to transport 1.8 m. tons crude oil and 500,000 tons kerosine a year. Storage problems were discussed by an *ad hoc* commission, which recommended which types of crude oil should be transported and into which type of tankage they had to be segregated: a total capacity of 140,000 tons would be required.

Tenders were put out for 600,655 metres of 5 in. pipe, 90,300 metres of 9 in., and 210,027 of 14 in. The successful bid was for 11,680,247.80 francs put in by the firm of Stokois and Zonn, Rotterdam, on behalf of the United States Steel Products Company. The contract was approved by the Council of Ministers on 2 December. It was estimated that the work would be finished and the line in operation by 1915. Construction was interrupted by the Balkan Wars of 1913, by the end of which year the 18 million lei originally appropriated was exhausted, and a further subvention became necessary.

# (c) The inland market—the Proration Law of 1908

Romanian oil-production went through the same phases of flush production described above² as characteristic of early developments in Pennsylvania. The multiplicity of new wells and the inadequacy of storage forced producers to sell almost immediately and kept prices low.³ They attempted to offset this disadvantage by combining to stabilize and maintain prices: the effects were, however, local and temporary. The setting up of Steaua Română introduced into the Romanian industry an organization sufficiently large in relation to other producers and refiners to exercise leadership in both these phases. In consequence, the Steaua management initiated

furnish capital and provide credit. engineering, and of a syndicate of home and foreign bankers to on problems of manufacturing and materials used in petroleum output of the home retail trade, including arrangements for storage and transport, of a technical and commercial bureau for advice of a selling syndicate disposing of at least 70 per cent of the yearly suggested a programme of measures comprising the organization to members at Ploești, on 4 February 1902, Alimăneștianu industry on a solid and profitable foundation. In a speech The problem remained, however, of putting the Romanian oil maintain prices at between 3 and 4 francs per 100 kilogrammes. Alimanestianu, of the Winistry. This Association contrived to against the operation of cartels. In 1901 the Minister of Domains price of crude oil. There was nothing in liberal theory or practice lived, since unorganized production increased and depressed the refining capacity, through subsidies. Again, the effect was shortthe control of production, through agreements, and of surplus Producers' Association', under the Presidency of Constantin (responsible for oil affairs) sponsored the formation of a 'Petroleum

By this means Alimăneștianu hoped to raise prices to producers and reduce them to consumers through economies of scale. As an immediate step a central sales bureau for crude oil was organized from within the Association in February 1902: it was unsuccessful in maintaining prices—during 1903, the latter dropped from 3 francs in January to 1.7 francs in December. Alimăneștianu's programme was never implemented, and the problem of disposing of crude oil output disappeared through the enlargement of manufacturing opportunities represented by the investment in refining²—to be replaced by that of disposing of the resultant products.

Refining operations were designed to yield kerosine, gasoline, and, where possible, lubricants, in that order. They necessarily gave rise to a large yield of residuals, the price of which affected the earning capacity of the developing industry. The disposal of these residuals remained a persistent problem, though new outlets were found in the conversion of C.F.R. locomotives from coal- to oil-burning and the adoption of fuel oil by the Romanian Department of Navigation in 1905 and the Romanian Navy in 1906.

<sup>&</sup>lt;sup>1</sup> Composed of representatives of Steaua Română, Astra Română, Creditul Petrolifer, Româno-Americană, and of small firms (Aisinmann).

<sup>&</sup>lt;sup>3</sup> See A. P. Bennett, Report on the Petroleum Industry of Roumania, (FO, 1896, Misc. Series, no. 411); and article in PITR (9 Dec. 1899).

<sup>1</sup> Text of speech, in translation, in PITR (1 Mar. 1902), pp. 240 f.

<sup>&</sup>lt;sup>2</sup> See above, p. 35.

coal c.i.f. Brăila with an equivalent thermal output. viz. that it should not exceed the price of a quantity of Cardiff cartel in May 1906, with the approval of the Government, the Steaua Română, after various attempts, managed to form a residuals abreast of their yields, not to overcome the difficulties they created fuel oil. Nevertheless, such outlets only enabled refiners to keep railway, thus fulfilling, in part, the aim of the original investment the company began supplying residual fuel oil to the Anatolian business, setting up tanks at Alexandria for this purpose. In 1909 latter imposing a limit on any upward movement of the price, Powers began to make contracts for supplies of residuals for use as by the Deutsche Bank. Further, the naval authorities of the Great Steaua Română also began to interest itself in the marine bunker

output of kerosine through a joint office established in August 1901 as for exports, and therefore Steaua Română's technical superiority ing and heating. On this market, specifications were not so exacting strong interest in the domestic kerosine market. For this purpose, exported all its kerosine output: after that time it began to take a each year. The reorganization of Steaua Română by the Deutsche prices in this way, and the arrangements were renewed in May of decided upon monthly. Steaua and its partners were able to hold with Aurora and four smaller refiners, through which all sales of could not be used to compel smaller refiners to fall into line. higher-quality product, made from Moreni crude oil traditionally engaged in distribution. Moreover it introduced a practice inimical to the existence of the various middlemen improved methods of selling direct to retailers and consumers, a the company erected storage and distribution depots and introduced from the completion of its refinery in 1905 until the spring of 1907, The most formidable newcomer was Româno-Americană, which, the industry to join, in order to maintain the price structure. Romania of the cartel, which sought to persuade new entrants to päische Petroleum Union, strengthened the position within Bank, and the company's consequent participation in the Eurokerosine meeting a guaranteed specification were made, at prices Nevertheless, the company was able to control a proportion of the The main product for the inland market was kerosine, for light-

The competition thus provoked reduced the home market price

sympathy, if not support. methods were all Romanian: therefore they could expect official whose interests were damaged by Româno-Americană's marketing elsewhere. It was, however, not simply an argument of small and from what were construed as that organization's malpractices the hostility to Standard Oil caused by the state-lands controversy necessarily sustained. The suggestion derived its plausibility from it would try through increased prices to recoup itself for the losses business against big: the small manufacturers and distributors competitors: having arrived at a de facto monopoly of the market was deliberately forcing down prices in order to eliminate its made in 1900 were revived. It was alleged that Româno-Americană commercial circles, during which all the charges of monopoly 6 to 7 lei, and brought about an agitation in both political and for kerosine during 1907 from 12 lei per 100 kilogrammes to

kilogrammes ex-refinery in April 1908.4 within the cartel, Româno-Americană extended its operations and renegotiated in May. While these proposals were being debated not immediately acceptable and the cartel agreement was due to be own scheme for such a bureau,3 in March 1908: the scheme was prices continued to fall, reaching the lowest point of 4 lei per 100 should be invited to join.2 The Steaua countered by proposing its neutral sales bureau, for a period of ten years, which Steaua tion; the inland trade would then be left to the only companies These cartel members therefore suggested the foundation of a possessing distributing assets, viz. Steaua and the Americans. forced out of business after the impending defeat of their organizawhose members, other than Steaua, saw themselves as likely to be Furthermore, the competition had corroded the existing cartel,

situation by announcing that it would in future allow no comby agreement among refiners: in default of such agreement, the petition in the home retail trade, which instead should be regulated In May 1908 the Romanian Government put an end to this

antipathy to Standard Oil in Europe and subsequently touched off the agitation I This technique of bypassing traditional intermediaries caused great

for a kerosine monopoly in Germany and Austria-Hungary; see Gibb and Knowlton, *The Resurgent Years*, p. 203; and Gerretson, vol. iv, p. 170.

As to which, see R. W. and M. E. Hidy, *Pioneering*, Chap. 8; and A. Nevins, *Rockefeller*, vol. i, Chaps. V-VIII.

<sup>&</sup>lt;sup>4</sup> On the competition between Româno-Americană and the cartel, see article "Le Commerce du pétrole en Roumanie", MPR no. 7 (1908), pp. 245-50.

Government proposed to set up a state monopoly. During the last three days of the parliamentary session, the Government rushed through a bill giving effect to these ideas in order, as the Minister of Finance, Emil Constantinescu, explained, "to extirpate the evil transplanted from elsewhere before it takes root in Romanian soil".

I October 1908 (Article 17).2 would not themselves construct them, at railway stations and ports ment to construct storage facilities, in the case when refiners for the home market. Further, the Law empowered the Govern-State's prerequisites would be permitted to manufacture kerosine permitted (Articles 10-14). Only refineries capable of meeting the ing an inferior quality or by selling at prices higher than those for non-compliance, either by over-production or by manufacturand would be binding on all refiners. There were heavy penalties maximum selling price1 would be determined by the Government plemented by control over prices. Article 7 declared that the capacity of each refinery. Control of output was to be comtion were to be fixed among refiners on the basis of the producing established", and provided that (Article 2) quantities for distribuoil [kerosine] among existing refineries and those which may be arrange the distribution of the total consumption of illuminating (Articles 15 and 16). The Law was to be applied at the latest on Illumination Oil empowered the Government (Article 1) "to The Law for the Proration of the Inland Consumption of

As published, the terms of the Law required the definition of refining capacity and also of the average price of crude oil. Further, it had merely established the basis for the maximum price of kerosine ex-refinery, not the retail price to the consumer: it therefore left open the vexed question of the retail system to be adopted, i.e. whether it was to operate with or without intermediaries. The question of refining capacity—whether constructed capacity or actual throughputs were to be taken into account in arriving at the ex-refinery price—was considered at Constantinescu's request by

an ad hoc commission of refiners<sup>1</sup> and by Constantin Hălăceanu,<sup>2</sup> an official of his ministry. On the basis of Hălăceanu's report, the Government announced the first proration on 24 June 1908, and established the price for the next quarter at 8.70 francs per 100 kilogrammes.<sup>3</sup> The Proration Law induced that combination among refiners which the Government wished; in this it emphasized the position of Steaua Română and Româno-Americană, the only concerns possessing storage and distribution facilities for the internal market.

and regulated the supply to the domestic markets in a way which an end to the other product cartels, which had been organized date and extend its sales network throughout the country and tried to secure the adhesion of other refiners. In this way Distribuția put Distribuția, and on this basis the new company began to consolidistributing organizations and their government contracts to At the same time, the three companies agreed to surrender their of the participants by the Law: other products, pro rata to the as Distribuția). Kerosine quotas would be those assigned to each tribunal of Ilfov (Bucharest) contracts by which their production distillation capacity, as established, of their respective refineries. would be sold through the new organization (which became known ceded. On 28 July 1908 the three companies registered with the to consumers instead of through intermediaries had been conpate. Româno-Americană did so, after its point about selling direct produselar petrolului".4 Other companies were invited to particidistributing company, the "Societatea anonimă pentru distribuirea Steaua Română and Aurora announced the formation of a new

This was to be, ex-refinery per roo kg., "between frs. 3.50 and frs. 4.50, representing the cost of refining and the refiner's profit"—to which figure was to be added "the average price of the crude oil delivered to the refinery. The total of these two figures will form the maximum selling price."

<sup>&</sup>lt;sup>2</sup> It was in fact applied from I July 1908: see "Report of the Minister of Finance to the Council of Ministers, 19 June 1908", MPR, no. 18 (1908), p. 638.

<sup>&</sup>lt;sup>1</sup> Consisting of Bergher (Steaua Română), Edeleanu (Vega), Aisinmann, Mony (Colombia), Bossal (Aquila), Parascheva and Frischoff (small refiners). Hălăceanu took part in the discussions. The commissioners advocated that capacity be determined by reference not only to the crude intake capacity of a refinery, but also to the redistilling capacity and storage and loading facilities.

<sup>&</sup>lt;sup>2</sup> Hălăceanu broke down the refining process into its component parts—according to which he then examined the plants in the existing refining industry, in order to assess the seven different manufacturing systems in use on a common basis (see translation of this report in PR (18 July 1908), pp. 15, 45, 46, and 71). Hălăceanu was also commissioned to examine "the average price of crude oil"—a concept difficult to establish, since 70 per cent of crude output belonged to refinery companies and therefore was never quoted in the market, while 20–25 per cent was sold under long-term contract: the basis for an open-market price was thus slender.

<sup>&</sup>lt;sup>3</sup> The small refiners protested at the basis of the award, and at the price, which they argued should have been 10.70 francs, <sup>4</sup> MPR, no. 13 (1908).

vocated a complete state monopoly. the latter were dissatisfied with the results of proration and adensured the continued existence of the small producers. Even so,

for bringing down prices to the point where two kilogrammes of in the Chamber, Româno-Americană was criticized, for example, kerosine were sold for the price that obtained for one before it The Proration Law was explicitly anti-American. In the debate

INLAND CONSUMPTION

Years	Gasoline	Kerosine	Gas oil	Fuel oil	Others	Total (tons)	Value francs/lei
1900	1,500	30,000	500	65,000	:	97,000	
1001	1,555	30,904	675	66,753	169	100,056	
1902	1,365	32,210	2,685	77,876	671	114,807	6,318,706
1903	2,120	30,273	2,976	97,098	744	133,211	7,195,261
1904	2,369	32,440	2,739	119,735	685	157,968	7,843,512
1905	2,696	31,558	5,046	162,213	1,261	202,804	9,657,470
1906	4,059	35,243	7,878	237,477	1,970	286,627	14,766,048
1907	5,689	38,467	7,238	332,999	1,809	386,202	18,126,879
8001	9,055	38,422	9,564	347,329	2,391	406,761	20,604,106
1909	14,041	39,45I	12,558	366,703	3,815	436,568	21,211,849
1910	20,314	41,849	14,035	360,351	4,279	440,828	19,680,814
1911	24,450	43,94I	17,921	434,094	5,624	526,030	21,888,700
1912	30,656	49,94I	23,198	540,385	6,937	651,117	34,154,420
1913	30,131	51,396	26,980	560,492	8,170	677,169	46,852,153
1914	31,672	51,710	32,653	524,254	9,579	642,868	

and by showing that its quotations had not been the lowest in a other foreign organizations to abandon Romania. The language timely for Steaua Română, whose position in the inland market regarded as the evil genius of the industry. The Law was also not concerned to protect the Romanian consumer but the number of public adjudications, were ignored.3 The agitation was ing from the benefit to the consumer in both quality and price, charged.<sup>2</sup> Româno-Americană's attempts to defend itself by arguof the Minister in the official exposé des motifs was similarly highly came on the scene. This sort of practice, it was alleged, would cause unexpectedly and passed unanimously, after four hours' debate was assured by the Government's action. The Bill was introduced Romanian producer, and, as Gerretson notes,4 the Standard was

seen in Table 4. zation Law of 1948.3 The progress of the internal market can be others being the Mining Laws of 19241 and 19372 and the Nationalibetween the industry and the State that were so enacted-the first of four measures fundamentally altering the relationship in the Chamber of Deputies and none in the Senate. It was the

#### State oil lands and state policy

state-owned lands in order to strengthen their position in markets. Romanian oil in relation to that of their competitors in other Applicants had a continuing interest in gaining concessions on it and the arrangements under which it was to be granted. company of its own, some form of concession was necessary, and such exploitation would be carried out. Given that the Government the questions at issue were concerned with who was to receive was not willing to wait until it commanded sufficient capital for a State's resources but merely established the conditions on which disputes of 1900 did nothing to further the exploitation of the but also as owner of the most likely source of raw material. The industry not only through its capacity as legislator and customer, The Romanian State impinged on the development of the oil

of his principals only in July 1904. On 10 September he concluded would found a company to exploit the state oil lands on concession with Sturdza a secret agreement5 whereby they, the Baku group, Viennese lawyer, Dr. Herman Fialla, who revealed the identity conto-Gesellschaft, and the negotiations, which took place in resources against Standard Oil. Negotiations were opened by a Mantascheff,<sup>4</sup> all producers in Baku, sought to use Romanian Berlin, were broken off. The next year Rothschilds, Nobel, and areas conceded. These clauses were unacceptable to the Discipation in profits and some control over the exploitation of the ment's terms were stiffer and included a demand for state partiin the name of the syndicate in 1900. The Romanian Governthe Romanian Government with proposals similar to those made In 1903 the Disconto-Gesellschaft made another approach to

<sup>&</sup>lt;sup>1</sup> See Grigorescu in MPR, no. 13 (1908), pp. 465-6; no. 14, pp. 508-10.
<sup>2</sup> See MPR, no. 11 (1908), pp. 385-8.

<sup>&</sup>lt;sup>3</sup> See letter to the Bucharest journal Curventul Financiară reprinted in PR (25 Apr. 1908); see also table in MPR, no. 10 (1908), p. 256.

<sup>+</sup> Gerretson, vol. 3, p. 123.

<sup>&</sup>lt;sup>1</sup> See below, p. 115. <sup>2</sup> See below, p. 205. <sup>3</sup> See below, p. 318.

<sup>(1905),</sup> p. 645. 4 On this episode see Haase pp. 37-42. 5 See MPR, no. 22 (1905), pp. 500-3, and editorial comment in no. 23

of the Romanian State in the exercise of its rights, and in return ceed 30,000 hectares in total (Article 4). The choice of actual plots fifty years (Article 2), the relevant areas were to be subsequently as technicians and workers". The company was to obtain the in regard to employment as far as possible of Romanian nationals corresponds with the interests of the Romanian State, particularly undertook "to establish its enterprises on a basis which best nection in any way with Standard Oil. It was to receive the support vision by the State. Its purpose was stated in Article 1, according for fifty years on terms explicitly allowing comprehensive superdetermine their extent in each case. mixed commission of state and company representatives was to was at the company's discretion for a period of ten years, but a enumerated by the Government but the concession was not to exexclusive rights (concessions) to explore and drill state lands for lands belonging to the State. The company was to have no con-Petroleum Company, under Romanian law, to exploit petroliferous to which the group was to set up in Bucharest a Romanian State

In return for these rights the company undertook (Articles 5-7) to make certain annual payments together with a proportion of dividends above a certain level. The Government was to have the right to inspect and annually audit the company's books.

Articles 8 to 11 set out the reciprocal obligations of the State and the company, concerning the actual working of the areas under concession. Article 12 reserved to the State the exclusive right to erect and operate public, i.e. trunk, pipelines. By Article 13 the State undertook to draw, so far as possible, its own supplies of crude and products from the company. Finally, the Romanian Government reserved the right (Articles 14–15) to take part in the drafting of the statutes of the company which would, when completed, have to receive official approval. The validity of the conpartract was to be sanctioned in a constitutional manner and the Government undertook to use its good offices for this approval to be given as soon as possible.

The agreement was signed by the Prime Minister, Sturdza, and Dr. Fialla at Munich on 10 September 1904 and was covered by a letter<sup>1</sup> from the Prime Minister in which was set out an undertaking by both parties to observe complete secrecy on the terms for a

period of seven months, during which the Romanian Government bound itself not to discuss with any other party the questions involved, and during which the company was to be set up. The final working agreement would be reached on the basis of the agreement under reference. Sturdza also stipulated that the board of management would include members appointed by the Government and envisaged an increase in the suggested royalty to 8 per cent.

and a share in profits. head prices, or in kind, at the State's option, together with taxes cent on the output per annum, either in value, determined at welldistricts. In return the State was to receive a royalty of 10 per of which the company undertook to sink 150 wells in stipulated 10,000) on state lands for a period of fifty years, in the first ten subsoil rights to an area of 30,000 hectares (later reduced to set up, at the latest by I August 1905, and was to be conceded the conformity with the desires, exigencies, and conditions expressed by the Romanian Government." As before, a company was to be began significantly: "New project for a concession, worked out in tiated by Fialla on behalf of the Russian interests, and the text principals. The terms<sup>2</sup> varied slightly from those originally negojuncture not known to the general public, on behalf of his new March he visited Cantacuzino, accompanied by Spies, the General and the Banque de Paris et des Pays Bas. At the beginning of but that the principals in the case were now the Deutsche Bank as foreseen by that agreement, succeeded in forming a company, the basis of the Munich agreement, whose terms were at that Manager of Steaua Română, and entered into negotiations on force. On 24 February 1905 Fialla informed Sturdza that he had, their Munich agreement, to be informed that it still remained in inquired of Sturdza as to the effect of the change of government on the Conservatives under Cantacuzino. On 11 January 1905 Fialla 1905, by which time his government had given way to that of The terms specified in Sturdza's letter expired on 10 April

These proposals, dated 17 May 1905, evoked a great political

<sup>&</sup>lt;sup>1</sup> Given by Sturdza in the Senate, 13 May 1905; MPR, no. 15 (1905) pp. 432-3.

<sup>&</sup>lt;sup>1</sup> Haase, (p. 39) suggests that the substitution may have had to do with the 'threads between the Deutsche Bank and the Russians'—as seen later in the establishment of the Europäische Petroleum Union. The archives of the Deutsche Bank disclosed no evidence on this point.

Deutsche Bank disclosed no evidence on this point.

<sup>2</sup> See MPR, no. 23 (1905), pp. 645-9; also letter by Ion Lahovari (Conservative Minister of Domains in 1905) published in MPR, no. 5 (1908), p. 168.

existence from 29 May to 2 June.3 the rights to which would be guaranteed by the Government. The company, called "România", was hurriedly brought into legal exclusively Romanian capital to explore and exploit state lands, Catargiu and Alexandre Marghiloman, for a company financed by controversy there emerged a proposal put forward by Lascar journals as a test of public reaction. From the resultant political of the Fialla-Sturdza agreement were made public in government too much for any commercial purpose.2 At this stage also the terms capital, but of the extent of the area involved, which was considered uproar, I not so much on the grounds of the foreign nature of the

Sturdza, laid down three criteria: on the future development of state lands. On 6 June 1905 the "România" company led to the final announcement of the policy and des Pays-Bas and the counter-proposals of the putative Prime Minister, Cantacuzino,4 responding to an interpellation of The proposals of the Deutsche Bank and the Banque du Paris

- Part of the state lands was to be kept as a reserve for the future (i.e. could not be conceded at all).
- There was to be no monopoly of any lands conceded
- The State was to retain in its own hands all means of transport.

were in a position to undertake the financing of exploitation of the natural consequence of economic progress, Romanian nationals previously. His defence<sup>5</sup> was that in the meantime, and as a what he had been willing to concede to the Russians nine months put him in the position of denying to the Germans and French volte-face, on the technical grounds of the change of principals, declaration did not in itself exclude foreign interests. Sturdza's as the basis for a comprehensive programme of development: the the differences between the parties on this issue, and was designed Sturdza welcomed the terms of this declaration, which resolved

the Russians and then to the Germans. Americans, Sturdza offered the state lands (through Fialla) to government which would include as Foreign Minister Take that Sturdza foresaw the accession to office of a Conservative Romania. In order to forestall possible concessions to the British minister, Sir John Kennedy, offered another explanation: to foreigners was detrimental to the interests of the State. The state lands: in these circumstances the concession of state lands Ionescu, who was legal adviser to the Standard Oil interest in

secure the State's interest in the exploitation of Romania's petroleum resources and to remedy the concentration of capital in areas nation resulted in the Law of 30 December 19053 intended to statement an official inspection of state lands was made, during which all applications for concessions were blocked.2 This examiformer Liberal Finance Minister. Immediately after Cantacuzino's negotiable. The company was to be managed by Costinescu, a sequently, in the form of bearer shares, which were to be freely citizens. The remainder of the capital was to be issued subcompany was proceeded with. There was no public issue of shares but 60 per cent of the capital was taken up privately by Romanian propositions of his principals and the formation of the "România" In consequence of the declaration, Dr. Fialla withdrew the

State and the concessionaire. Article 15 introduced a novel feature by stipulating that only concession-holding drilling obligations, transport, and royalties. capital for development, determined (Article 2) as at least two Romanian courts were competent to try disputes between the hectares of non-proven. Articles 3 to 13 discussed restrictions on million francs for each lot of 100 hectares of proven land and 1,000 the concessionaire had to prove that he disposed of sufficient have more than three lots altogether, and before acquiring them demand for concessions (Article 1). No one concessionaire could was given final authority on the approval or dismissal of any 1,000 hectares of non-proven lands. The Council of Ministers 100 hectares of proven oil-bearing lands and a maximum of known to be oil-bearing to the detriment of those which were not. The Law divided state lands into lots with a maximum of

<sup>&</sup>lt;sup>1</sup> The MPR editorial (no. 1 (1906), p. 7) also reported "irritation" in Romanian Government circles at the forceful intervention of the German minister (Kiderlen Waechter) on behalf of the banks.

<sup>&</sup>lt;sup>2</sup> See H. E. Browne to FO, 12 June 1905: F.O. Series 104, vol. 165; and

MPR, no. 15 (1905), pp. 421-4.

For a prototype of the "România" scheme, dating from 1867, see MPR.

no. 36 (1906), p. 32.

4 See MPR, no. 16 (1905), pp. 458-61.

5 See Sturdza's speeches in the Senate of 6 June 1905; MPR, no. 16 (1905), pp. 461-5; and his pamphlet La Question du pétrole en Roumanie.

<sup>&</sup>lt;sup>1</sup> Dispatch to FO, no. 31, 5 June 1905: FO Series 104, vol. 164.
<sup>2</sup> MPR, no. 16 (1905), pp. 473-4.
<sup>3</sup> MPR, no. 38 (1905), pp. 1064-6.

"România" company of its raison d'être, and the project collapsed state lands en bloc through an individual concessionaire who would and those which were extensions of "proven" lands but were hitheras those on which there were borings or hand-wells in exploitation Romanian and foreign nationals as applicants for concessions. It is noteworthy, however, that it did not discriminate between be responsible for all matters of detail: this in itself deprived the to undeveloped.1 The Law signified the end of ideas of exploiting were by subsequent Ministerial explanation specified respectively The Law did not define "proven" and "non-proven" lands, which

that the State should explore and then provide openings for naires and the stagnation would be broken. Vintila Brătianu, then "Romanian capital, Romanian intelligence, and Romanian labour" Finance Minister, gave the orthodox Liberal rejoinder, stressing technicians: in this way the state lands would attract concessionpayments, and the latter reserved for Romanian capital and state lands. This was the incentive to revision of the Law, which hectares and concessioned by public adjudication against royalty territories, with the former split up into small plots of 15 to 20 He advocated different regimes for proven and non-proven Message at the opening of the parliamentary session 1908-9.3 was proposed by Take Ionescu in the debate on the Royal In this situation the only prospects appeared to be offered by the fell off from an average of 34 per cent to one of under 4 per cent. output increased further to 1,180,000 tons, the rate of increase (1907), all from private lands. Moreover, although in 1908 the period, production increased from 641,070 tons (1905) to 1,142,448 cessions were taken out in the next three years. During this its own lands, but could not compel others to adopt it. No conrealized: the State had arrived at a policy for the development of abundant source of riches for the future. These hopes were not protected, the national economy would find in the oil industry an operations of the State would multiply and prosper and that, as the rights of the State and those of concessionaires were equally had expressed his conviction that under its aegis the petroleum In introducing the Law,2 the Minister of Domains, Lahovary,

adjudication to determine which territory on state lands was to be declared oilbearing; such territories could be leased for thirty years by public 1909. This authorized the Ministry of Industry and Commerce<sup>2</sup> in the Law for the Exploitation of State Lands passed on 5-6 April The implications of this brief statement were formally developed

comers to whoever offers the highest royalties. (Article 1.) 500,000 million; the fourth quarter . . . without distinction among all at the time of the present law disposing of a paid-up capital of at least special law: the second quarter will be leased only to companies with reserved to the State and cannot be conceded except on the basis of a Romanian nationals: the third quarter to companies in legal existence according to the following rules: a quarter of the chosen area will be Romanian capital, with nominative shares reserved exclusively for

and drilling obligations. ministration of the concessioning procedure, royalty payments, forbidden (Article 2). Articles 3 to 8 set out the details of the ad-Fusions of companies for exploitation in the same region were

of joint ventures between the State and private individuals, with concessions to individuals as a technique of exploration, in favour when, for example, as early as 1911, Liberal policy abandoned ship. It was maintained through subsequent formal changesnominative shares, registered with the company in the name of ship between the industry and the State. This policy was underand which in consequence had important effects on the relationwhich became fundamental to the country's mining legislation, cinstită și românească). In the long term, the Law's significance lay Romanian hands. Citizenship thus became a criterion of ownerthe owner, made it possible to ensure that the capital stayed in feature in that shares in Romania were traditionally "to bearer": pinned by the stipulation on nominative shares. It was a novel Romanian and non-Romanian participants in the oil industry in the last ascription, since it introduced a distinction between given by the Law was "just, honest, and Romanian" (soluție dreaptă, In the Chamber of Deputies Djuvara claimed that the solution

<sup>82,000</sup> hectares of non-proven lands. I At the time the State domain included 5,750 hectares of proven lands and

<sup>&</sup>lt;sup>2</sup> MPR, no. 35 (1905), pp. 985-90. <sup>3</sup> MPR, no. 36 (1908), pp. 1337-8.

<sup>&</sup>lt;sup>1</sup> MPR, no. 9 (1909), pp. 313–18 (Djuvara's statement); MPR, no. 10 (1909), pp. 355–60: details summarized MPR, no. 11 (1909), pp. 391–5.

<sup>2</sup> Industry and Commerce was separated from its former departmental

association with Domains and Agriculture in 1908

the remainder of the capital and day-to-day management.1 the former contributing lands and some capital, and the latter,

situated for working, was by no means all the land available for ownership became state lands.2 worked out to the point where all lands not already in private oil exploration. It was nearly twenty years before this trend was domain, though extensive and comprising areas most favourably restrictive they might be. At this time, however, the State's own property was to be exploited was uncontestable, however The Romanian State's right to decide the terms on which its

## The demand for a "national" industry

of detail, as over, for example, the setting up of companies.3 its own legal and technical requirements in matters both of principle—as over the exploitation of its own territories—and resources, as, for example, Turkey. The State was able to impose investing in other countries lacking the means to develop their own even in the heyday of international private capital transactions, part of the ex-territorial rights enjoyed by foreign nationals bility of unhindered operation: there was in Romania no counterforeign capital enjoyed no privileged position or even the possi-The foregoing analysis of the industry demonstrates that,

foreign investments were made, however, remained anathema to to Romanian agriculture. The general assumptions on which the much enlightened internationalist opinion as a deep commitment on equal terms, from no matter what source. This reflected not so ploitation should be open to all comers: Romanian capital should owned land, and subject to Romanian law, exploration and exbe encouraged to participate, but foreign capital should be invited affairs: they took the view that under proper safeguards on state-The Conservatives were in general satisfied with the state of

<sup>1</sup> See exchanges in the Senate between Carp and Ionel Brätianu, in MPR,

no. 35 (1911), pp. 1356-7.

See below, pp. 112 et seq.

of the Memorandum of Association and the Articles of Association . . . (2) A power of attorney for the Representative . . . In the Application with which Compagnie, on 22 Jan. 1907: "Permission must be requested from the Ministry of Domains to set up a second registered office of the Company in these documents are sent the Representative also states that he submits to Bucharest. The application must be accompanied by: (1) a sworn translation Romanian law." 4. <sup>3</sup> Pleyte wrote to his principals, Geconsolideerde Hollandsche Petroleum

> cipate in the wealth created by the output of wells on their land. will be difficult to struggle with the unequal arms we possess". The State should act powerfully before it was too late: otherwise "it owners should be changed to allow them progressively to parti-Geological Institute. The basis of royalty payments to small landowned means of transport and storage, and the work of the State credit bank and protection of small producers through statein capital or labour, by, for example, the creation of an industrial of 1900. The remedy lay in state action "reserving the greatest of Romanian petroleum developments since the state lands crisis possible part in oil exploitation to the national element", whether suffer through market policies not in accordance with Romanian These arguments were embedded in the received Liberal version interests (the failure of E.P.U. against Standard Oil in Germany).3 not be monopolized by foreigners (Standard Oil) or, as exports, to be able to stand on its own feet, and that its oil resources should in an industry we call national" and rested on two general arguments, namely that Romania was sufficiently advanced technically insufficient participation of the national element in all its forms 1907.2 These were designed to rectify "the weak not to say utterly national audience at the World Oil Congress held in Bucharest in his ideas for the "nationalization" of the oil industry to an interand Vintila. The latter, when Mayor of Bucharest, first announced successors, the younger members of the Brătianu dynasty, Ionel slogan without a programme, and its ultimately xenophobic implications were not worked out. This task was taken up by Sturdza's Sturdza from public life at the end of 1909 the cry remained a tion, inimical to Romanian interests, but until the retirement of Romanians" regarded the "foreign capital" companies as, by definilate by the Liberal party. The advocates of "Romania for the important sections of Romanian opinion, made politically articu-

of Romanian technologists and technicians had not advanced Vintila Brătianu's analysis was inadequate: in 1907 the training

<sup>2</sup> MPR, no. 38 (1907), pp. 1037-41, 1069-72.

<sup>3</sup> See above, p. 43.

for Romanians" was also anti-Semitic and anti-Hungarian, i.e. it implied a definition of nationality as a test of citizenship, excluding some who lived under policy after a speech by Sturdza in the Senate on 9 Dec. 1892. grievances of the Romanians in Transylvania became an official part of Liberal the jurisdiction of the Romanian State and including some who did not. I Sturdza in a speech at Prahova, June 1904 (see above, p. 30). "Romania

sufficiently to support the scale of operations throughout the industry which his programme envisaged: the State had already provided against a foreign monopoly, and it could not command success in export markets, such as Germany, which were freely open to other sources of supply. His reference to "unequal arms" curiously underestimated the already proven effect of state power through legislation and existing state institutions such as the C.F.R.

open a possibility of co-operation with foreign groups for export exploitation from the influence of foreign control-though leaving technical training; (xi) safeguarding the independence of Romanian cadastral survey of private properties in the oil area and the deterof all transport and storage; (ii) the completion of Constanța, found to be oil-bearing; (x) the development of professional and finance installations, production, and the exploitation of lands creation of an industrial credit bank, with Romanian capital, to making the widest possible use of the national element; (ix) the tion to encourage industry and detailed regulations on administration mination of minimum joint perimeters for exploitation; (viii) legislathe existence of oil deposits even on private properties; (vii) a refineries) with an eventual state monopoly of kerosine sales; internal consumption of kerosine (to protect the small and medium limitation when necessary of all refining capacity to the level of the and (iii) the construction of the main pipelines; (iv) and (v) protect the general interest and comprised (i) centralized control were those which the State as legislator could take at any time to to promote national initiative. Measures under the first heading mine the conditions for the immediate future of the industry and into a worked-out programme of state action, designed to deter-(vi) a programme of prospecting organized by the State to establish în industria petrolului.2 The conclusions were similarly developed book written jointly with Constantin Hălăceanu, Politica de stat National Bank) rehearsed these arguments in greater detail in a Four years later Vintila Brătianu (by this time Director of the

Ideas for the promotion of national initiative aimed at the more distant future and envisaged the entry of Romanian capital into

margin to be allocated to each enterprise. certainly be found which, based on that price, allowed a profit was due in the first instance to the selling price, a solution could three could be transformed into a single unit. As the final result tion) in the two other spheres (manufacturing and selling) would cessive participation of the National Oil Company (for exploitaform the bond of interest and the "happiest" means whereby the branches should be assured to attain the common end. The suc-"in a privileged situation". Collaboration between the three only problem remaining in the internal market was one of organizaand the existing foreign capital-possibly involving the National the interests of Romanian and foreign capital together would be foreign sales organizations, or by direct selling, where eventually tion: exports could continue as before, with participation in Oil Company-would be permitted. As regards marketing, the did not hold for refining, where collaboration between Romanian normal situation in which we find ourselves today". This objection be disguised as a concession, "which would exacerbate the ab-"for superior reasons" and because such a collaboration could association of the State with foreign capital would be forbidden exclusively Romanian partners in the national concern: in fact, installations and for future investment. This solution implied and those bought back from companies wishing to participate would contribute to the National Oil Company its own oil-lands and marketing with some of the existing organizations. The State exploration and production, which would collaborate in refining in the venture. Romanian capital would be responsible for all for Romanian capital, as a basis for a National Oil Company for capital, as follows: state lands were to be reserved exclusively State, and of some of the foreigners who had already invested of uniting the diverse interests of Romanians with those of the through replacing the existing organizations. This was a matter oil, above all in exploration, through the action of the State and

Brătianu and Hălăceanu concluded their exposition by referring to foreign capital already in Romanian oil, whose readiness to co-operate in the envisaged organization was held to be as necessary to the realization of the programme as action by the Romanian State, but their peroration restated the nationalist theme: the State would have to show more perseverance and concern itself in greater detail in all economic matters; "we should strive to \$828246X

<sup>&</sup>lt;sup>1</sup> The Romanian Ambassador in Berlin argued Brătianu's case with greater relevance in 1934 at the time of exchange restrictions and import quotas: see below, p. 196 n. 1.

earn] a brilliant return for their risks and their efforts, they will for which we all strive". assist in the best possible way the work of economic emancipation economic role is overwhelming and that, at the same time as [they convince Romanian capital and labour that their national and

seem to indicate the authors' willingness to come to terms with such as the seaboard refineries, which never got beyond discussion. towards "economic emancipation": others referred to developments sities into a nationalist context and showed that they assisted completed at the time), merely fitted particular technical necese.g. the pipeline and Constanța construction schemes (neither nationalism in relation to oil resources. Some of its proposals, "privileged situation" referred to at the end of the proposals poly was at its height) over joint working in parts of the Germany (where in 1911 the agitation for a state kerosine monohints about the rationalization of various interests quoted above, to "part of" the existing foreign capital, and the unworked-out either state or private, would be decisive. The continued references strictly controlled conditions: even here the Romanian voice, foreign. Refinery and marketing could admit foreign capital under they had infringed some law or other, but because they were was to be exercised against foreigners not because, for example, National Oil Company for exploration. In this field, state power were exploited or not. Hence the concern in the first instance, for a raw materials, i.e. that they belonged to Romania whether they The novel feature was the emphasis on national ownership of for the future. Otherwise, Romanian oil was to be reserved for Romanian industry in return for a guaranteed market—the Politica de stat în industria petrolului was a manifesto of economic

oil trade. The failure of the attack by the Europäische Petroleum overestimated the importance of Romanian oil to the international market factors which Romania could not control. Liberal opinion wealth, the precise value of which at any given time depended on they envisaged state action to realize a particular source of national reasoned discussion on this point. A more serious flaw was that Romania, but Vintila Brătianu had already shown himself beyond interpretation of what Standard Oil had or had not tried to do in Union on the position of Standard Oil in Germany demonstrated The arguments to this conclusion derived from an inaccurate

> the United States rather than from Romania. was being met by production from the Netherlands East Indies and seeking to sell its assets in Romania. Further, the increase in The agitation for a state monopoly also failed, and the guaranteed that Romania was not a vital but merely a useful source of supply. demand for gasoline and kerosine in Central and Western Europe market did not materialize. By 1912 the Deutsche Bank was already

other things, provided jobs for Liberal engineers and bureaucrats. happened. The next year, 1912, the Brătianus founded the "industrial credit bank", the Bancă Românească, whose operations state control would not only create jobs but, by the same token, War the rest of the nationalization programme which, among became the mainspring in carrying through after the First World multiply the number of Liberal Party dependants. This in fact similarly manipulated for party ends. Moreover, the apparatus of undertakings" suggested that the industrial credit bank would be State control of the industry would strengthen the Liberal interest: the manœuvres over the National Bank and other "patriotic The programme implied political as well as economic results.

the idea of România Mare ('Greater Romania') in which all state policy for oil were also those who promoted most vehemently Romanians should be united.4 It was noteworthy that the advocates of a rigorous interventionist from tutelage and her aspirations to be a European power. wealth and employment but symbolized Romania's emergence Seen from Bucharest, the oil industry not only offered a source of of foreign capital was greater than the latter's need of Romania. ad hoc on issues raised in the book such as the obligation to employ capitalists<sup>2</sup> whose interests were threatened, though they reacted reaction discounted the nationalist overtones in the programme. This was, in 1911, correct, but did not remain so. Further, this Romanian labour.3 Foreign opinion noted that Romania's need in industria petrolului were widely discussed by the foreign There is no evidence that these implications of Politica de stat

As it was, similarly, in the period prior to the Second World War: see below,

p. 218.
<sup>2</sup> The book appears not to have been translated into French or German (the MPR, no. 32 (1911), pp. 1210–12; no. 34, pp. 1290–2; no. 35, pp. 1338–43.

3 Henri Deterding of Royal Dutch-Shell and Vintila Bratianu quarrelled usual languages for works of this kind): summaries and excerpts appear in

on this issue in 1909: see 5, also below, p. 78.

This applied especially to Hungary, since the recovery of Bessarabia

under the regime of foreign capital. convenient juncture for a résumé of the industry as it had developed to be realized.2 For this reason the outbreak of the war provides a carried out. The necessary opportunity was provided by the war two Brătianus; this in itself did not ensure that they would be confined to a small number of politicians, grouped around the itself, which enabled the nationalist programme in all its aspects Before the First World War these ideas in Romania were

of, for example, tank cars owned by the C.F.R. had reached nationality were as follows: Fr. fr. 440 million:3 of this sum the individual contributions by Total investment excluding the state contribution in the form

Italy/Switzerland	Romania	U.S.A.	France/Belgium	Netherlands	Great Britain	Germany/Austria-Hungary	
2%	5%	7%	14%	20%	21%	31%	

27 per cent of production4 and 36 per cent of refining, Dutch In terms of enterprises, German and Austrian capital financed

on conversation with Sturdza, no. 53, 14 Sept. 1898: FO Series 104, vol. no. 136. On the subsequent developments in irredentist agitation, see R. W. Setonof King Carol's visit to St. Petersburg: and Kennedy's (minister's) dispatch (chargé d'affaires, Bucharest) report, no. 47, 9 Aug. 1898, on the significance as 1898 that Romania was prepared to "write off" Bessarabia: see Trotter's conflict, and did not permit the existence of national schools to be the focus could only result from a dispute, possibly war, with Russia—as distinct from encouraging Vienna to exert pressure on Budapest. Further, Russian rule in Watson, History, Chap. XIII. of nationalist agitation and to train emergent leaders. There were signs as early the province (unlike Hungarian rule in Transylvania) involved no religious

e.g., J. E. Hartshorn, Oil Companies and Governments. much more intricate but the basic attitudes and themes can be identified. See as oil-producing countries, in consequence of the greater involvement of governdevelopment of oil resources, which have since found a response in, e.g., Mexico ment in all oil matters since 1911. The terms of the argument have become Iran, Iraq, and Indonesia, and have come to be argued in oil-consuming as well Romanian context, as being the first discussion of nationalist policies for the I Brătianu and Hălăceanu's study is additionally important outside the

on a more direct political significance.1 likely source of new capital. During the war, however, they took ment, the country of origin of some of its personnel, and the participations merely indicated the predominant voice in managecent, and U.S. 18 per cent and 17 per cent. In peacetime these 16 per cent and 12 per cent, British capital 5 per cent and 2 per capital 31 per cent and 29 per cent, French and Belgian capital

destinations (1913): course of the export trade had established the following pattern by stocks accumulated during 1913 were being liquidated. The 80,604 tons a month and internal consumption 68,662; i.e. the and Cricov showed positive results. Exports, likewise, averaged (Astra Română); exploration drilling at Ceptura, Valea Telegi, Consolidated Oilfields) in Băicoi, and Ochiuri in Dămbovița both in Prahova; Fierbători (Romano Americana and Romanian Romanian Consolidated Oilfields) and Ţuicani (Steaua Română), New fields were developed at Bana-Moreni (Astra Română and backs experienced during the two Balkan Wars of 1912 and 1913. 146,148 tons a month and was recovering from the drilling set-Production in the first half of 1914 was running at a rate of

	Others	Austria-Hungary Turkey	Italy	Germany Egypt	France	U.K.	Country
1,036,446	143,798	77,184	118,643	126,295	151,402	232,800	Quantity

15 per cent of the total receipts from exports. The value of these exports to Romania was 100,773,850 lei, or

See below, pp. 105-11.

available capacity. <sup>3</sup> End-1913 figure: MPR, no. 3 (1914), pp. 116 and 118. <sup>4</sup> 1913 figures: "refining" = % of 1913 total crude-oil runs, not theoretically

I See below, p. 72.