

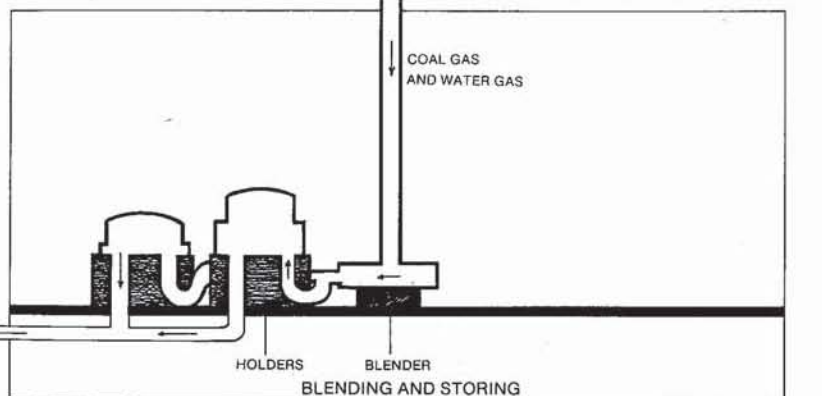
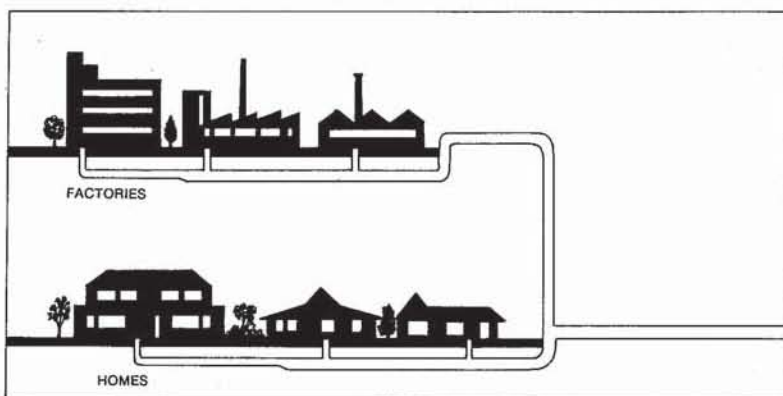
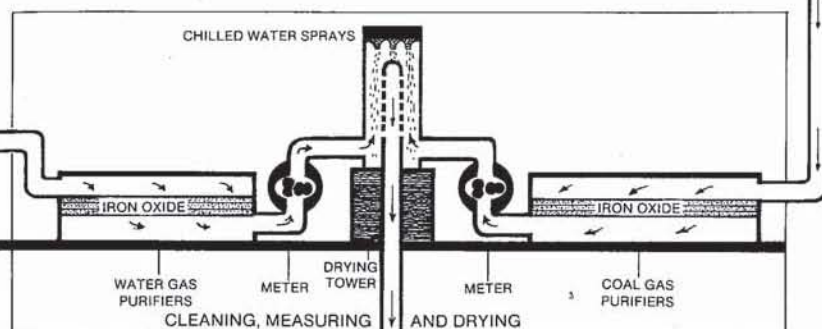
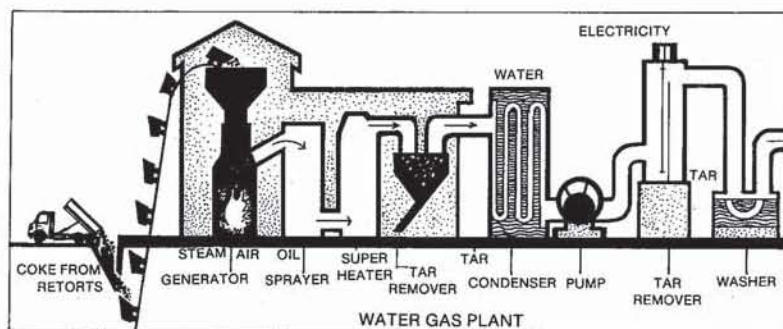
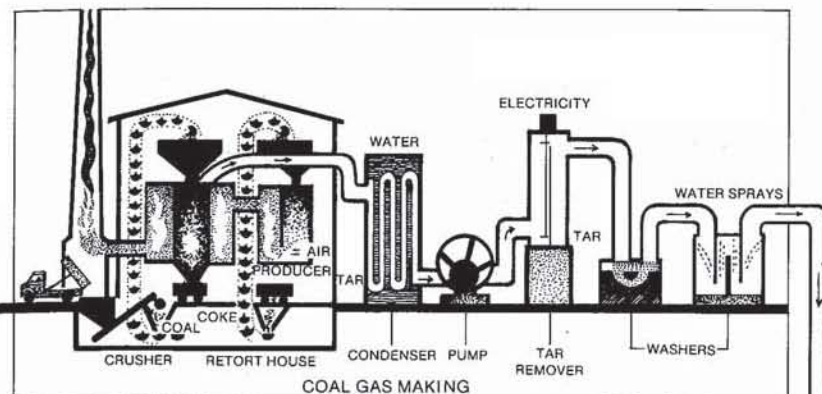
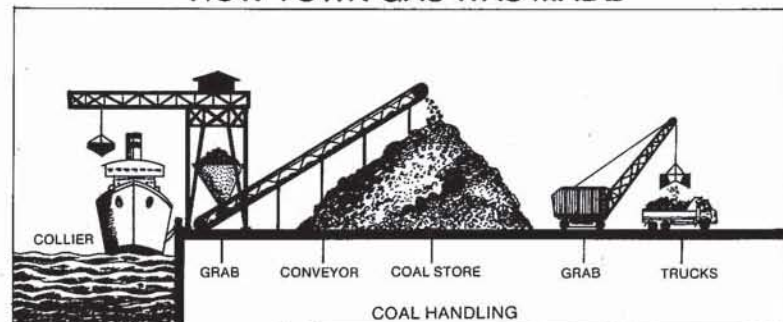
THE UNQUENCHABLE FLAME

The South Australian Gas Company
1861-1986



PETER DONOVAN • NOREEN KIRKMAN

HOW TOWN GAS WAS MADE



Endpapers — Diagrammatic representation of the manner in which town gas was made, redrawn from a poster prepared by the Visual Education Centre of the Education Department of Victoria in co-operation with the Gas and Fuel Corporation of Victoria.

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*The
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Gas Company
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*Peter Donovan
and Noreen Kirkman*

Wakefield Press

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FOREWORD

This book had its genesis when some concerned South Australian Gas Company employees, regaled by the raconteurs amongst them about the events and anecdotes of the good old days of the Company, realized that the history of the organization was gradually slipping away and could be lost for all time.

It was on this ground that the seeds of the present South Australian Gas Company Historical Society were sown and with its formation came the first serious attempts at preserving elements of the physical, written and oral history of the Gas Company.

It was my belief at this time that any book written about the organization should be lighthearted and reflect the nostalgic good humour with which old hands and long-serving employees told their tales about their past experiences, and the way we were. For no matter in what serious drama or dilemma the individual, the division or the Company had been involved, the stories handed down from decade to decade almost always emphasized the humorous side of the event.

It soon became apparent however, as the Historical Society continued its work, that although much had been lost which could have been saved, a substantial quantity of old records, statistics and equipment still existed in stores, offices and strong-rooms, and that there indeed could be a story to tell, not just to our own people but to the community in which the Company has lived for so long.

The appointment of Peter Donovan and Associates as Company historians, and their subsequent initial examination of the existing

THE UNQUENCHABLE FLAME

material, confirmed that a serious history should be written and that it would make a significant contribution to the history of South Australia.

This book can be described then as a history of the South Australian Gas Company, and I have no doubt it will be read as such by professional historians, researchers, librarians and others. However to those who have been, and are still part of, the Gas Company, it is a story about the most valuable asset which any organization can have — its people.

Drew Polglase
General Manager
South Australian Gas Company

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INTRODUCTION

SAGASCO was formed in 1861, only twenty-five years after the foundation of South Australia. Few South Australian companies are so long-lived or have had such an illustrious history, and few have been more closely identified with the development of the State.

During its long history SAGASCO has touched the lives of countless South Australians. Many have been shareholders in the Company and some of these — all of whom were prominent citizens — have been its directors, many more — fathers and sons — have made it their career and almost all other South Australians have benefited from the Company's operations, many of them because of gas appliances in the home or workplace, all of them because of the by-products which have helped build better roads and produce better crops.

This is a story of that Company and something of its impact on South Australia and its citizens.

Throughout the story we have been eager to highlight several key themes. We have looked at the management of the Company and have focussed on the many people who have been responsible for decision-making, including the several generations of directors who have determined policy in the face of government decisions, competitors and technological advances, and also the many managers and engineers who have been responsible for the routine decisions which have ensured that supplies were maintained, often despite great difficulties.

We have also given particular attention to the engineering history of the Company, which is effectively a history of the gas industry in South Australia. We have highlighted the changes in the industry and the new technologies which have been introduced and which closely reflect the history of the industry world-wide and technological changes in the State.

A major concern of ours has also been to look at the internal functions of the Company and to illustrate the manner in which the many groups have related to one another. In this instance, too, the Company reflects wider trends. The development and growth of unionism in its workforce has reflected that of trade-unionism in South Australia, while the distinction within the Company's workforce also reflects features of contemporary South Australia. Particularly in the years before natural gas, there was a clear division between salaried and wage employees — the white and blue-collar workers. The division remains, though in an altered fashion. And just as there have always been office and plant workers, so there have always been 'field' workers, originally the lamplighters, later canvassers and meter readers. The interrelationships between the several groups have been complex, and at times there have been differences of opinion, but this is all part of the fascinating story. The fact that so many of those presently in management have worked their way to the top from blue-collar positions suggests that the distinctions are not iron-clad, and that the Company has long been eager to encourage excellence at every level and to seek management personnel from within the Company. This has helped to forge strong traditions and loyalty and is also reflected in the fact that so many children have followed parents into the industry.

Finally we have also been eager to demonstrate the impact that the Company and its technology have had on the lives of ordinary South Australians. It was the Company which was first responsible for the extensive lighting of public thoroughfares and places of entertainment. Given as we are to take street lighting for granted, it is now difficult to appreciate the tremendous impact on the social habits of Adelaidians and the social development of the city. When electricity subsequently assumed this lighting role, the Gas Company turned to the promotion of home appliances, cookers, coppers and water-heaters and was at the forefront of the social revolution

in the home. These new devices were so much more efficient than the solid fuel appliances which were all that had been available hitherto, and their popularity and acquisition was a measure of an increasing affluence and rising standard of living.

Like all histories, this is contrived, to the extent that the multitude of facts have been ordered and some highlighted so that they might tell a story, otherwise this narrative might be no more interesting to read than a telephone book or a computer print-out of gas accounts.

In order to emphasize those themes which we believe to be important we have divided the history of SAGASCO into three time-periods. These vary in terms of the numbers of years which they cover, but each concentrates on a particular feature of the Company's history which we believe to be significant.

Part One is concerned with the origins of the Company and its struggle to establish itself in the face of competition from traditional fuels and rival companies and is a time when gas was used primarily for lighting. It was a time, too, when the Company was a major generator of social change in Adelaide and some of the major country towns. The period closed with the perceived threat from proposed electricity utilities and the development of an idea that gas had little future.

The intense rivalry between the protagonists of gas and electricity is the essence of Part Two. This conflict, which has never been completely resolved, became less intense only when the Gas Company abandoned the field of lighting and became 'purveyors of heat'. Even then, indeed until the mid-1960s, the Gas Company continued to be a *producer* of gas. So even though the industry underwent considerable change, particularly in the years after the Second World War, this change is treated in this second period.

Part Three concentrates on the last twenty years of the Company's history at a time when it has undergone almost total change, commencing with the establishment of South Australia's oil refinery at Port Stanvac in 1964. Initially the Company began to market liquefied petroleum gas and to re-form refinery gas, but in 1969 it committed itself totally to the distribution of natural gas. At a stroke, the Company all but abandoned the manufacturing of gas. These changes have revolutionized the gas industry, the Company and its workforce. The ramifications of this move to natural gas

continue to be felt and will promote future changes within the Company. Moreover, despite the jeremiads of several generations of pessimists, the Company continues to prosper, and still has a bright future.

This is an unashamedly self-indulgent book, produced to help mark the 125th anniversary of SAGASCO, although this is not meant to suggest that the research has been any less rigorous than it might have been otherwise. It has been written primarily for the benefit of all those who are closely associated with the Company in a multitude of functions in order to highlight the history and traditions of which they are a part. This is particularly important at present because of the vast changes which have been made in the industry since the introduction of natural gas and because time and retirement have meant that there are increasingly fewer people both within and without the Company who have an appreciation of its history and traditions.

There would be none more aware than we of the fact that there are many stories to be told of this Company and that, indeed, several studies could be undertaken which could be largely independent of one another. We can attest that many features of the SAGASCO story await closer consideration and more detailed treatment than was possible within the time-limits of this project. However, we hope that this story will highlight the richness and importance of SAGASCO's history, will provide a datum point from which others might work and, indeed, encourage other researchers to develop some of the points made here.

A Debt of Gratitude

In many ways this book is a co-operative effort and its successful publication has been dependent upon the contribution of many.

Pamela Runge has been a partner in the enterprise from its inception. She was particularly responsible for the interviewing of many informants and she has undertaken some of the research and helped locate and select appropriate illustrations. She also read and made valuable comment upon the manuscripts.

Nancy Robinson-Whittle played an important role in developing the project at the behest of the Company and also liaising with the Wakefield Press at the time of publication. This has meant that we

INTRODUCTION

have been able to concentrate on the task of research and writing.

We would also like to acknowledge our debt to the Company's Historical Group, most particularly Graham Maloney, Barrie Fowler and Nancy Sellar. The group has done a great deal to awaken an interest both in the history of the Company and in this project and it made our task the easier because it had already identified, rescued and collected together many of the Company's important historical records.

The typing of any manuscript for publication is always an onerous task. This one was made the more so because of the tight time constraints. However, we have been delighted that the typing was the least of our problems. We consider ourselves very fortunate to have been able to leave this in the hands of Ann Rogers and her able assistants Karen Mase and Monica Victorsen, who have typed and retyped drafts as expeditiously as though they had not had other work to do.

The appearance of the book, and we are sure an understanding of much of what it describes, has been greatly enhanced by the several line drawings. These are the work of Bert Sanders who took great delight in preparing these although he was hard-pressed for time because of a host of other demands associated with Company promotions. Steve Moore of the Printing Section was responsible for the lettering of these diagrams while Imy Lapins helped with the plans of the several gasworks.

A host of other people at all levels within the Company helped to bring the history to completion and it seems unfair to acknowledge some and not others. All have given us the information or aid which we have sought and have gone out of their way to facilitate our work. None has imposed on us their interpretation of events, and the judgements which we have made are our own.

We are indebted to all those who helped to bring the project to a satisfactory conclusion and made it such an enjoyable one for us. We hope that this history will help to deepen their appreciation of a great South Australian company and their part, and responsibility, in continuing its traditions.

PETER DONOVAN
NOREEN KIRKMAN

NOTES ON SOURCES

Any historian must disclose the sources from which the history is written so that statements can be verified and so that others who wish to pursue particular points of detail may do so. For the most part these references have been woven into the text. Those that are not so clearly identified are given below.

The Company's own records have provided the basis for much of this history, and it is as well to draw attention to these. Although we are grateful that any of the old records of the Company have been retained we were often frustrated that there were frequently only short runs of these. The most valuable of the records include:

| | | |
|--|---------|--------------------------|
| Annual Reports and Addresses by the Chairman of Directors 1862 — | | |
| Chief Engineer's Correspondence | | |
| Engineers' Reports | | 6/10/1861–7/12/1863 |
| Engineers' Out Letter Books | Vol. 2 | 26/7/1892–25/3/1902 |
| | Vol. 4 | 9/3/1905–19/4/1911 |
| Minutes of Annual General Meetings | | |
| Minutes of Board Meetings | | 6/7/1863–(Gap 1916–1961) |
| Newspaper Cuttings | | 4/5/1861–29/4/1875 |
| | | 20/11/1901–17/3/1911 |
| | | 16/4/1917–23/6/1919 |
| | | 25/7/1944–12/10/1945 |
| | | 5/10/1946–11/11/1947 |
| | | 10/5/1947–27/7/1949 |
| Correspondence Records — F.G.E.I.U. | | 1953–1973 |
| Correspondence Records — G.I.S.O.F. | | 1943–1975 |
| Register of Shareholders | | 1861– |
| Requisition for Mains | Vol. 12 | 13/4/1908–25/8/1909 |
| Special Board Reports | | 1931–(with early gaps) |

In 1934, the first issue of *The Flame* was published by the Company, but only Vol. 1, Nos 1-2, and 4 have been sighted. Since 1969, newsletters have been distributed to employees by the Company, under the following titles:

Natural Gas Newsletter No. 1 July 1969-No. 2 June 1972
South Australian Gas Company Newsletter September 1972-Spring 1977
Pipeline Christmas 1977 —

The Home Service Department library holds cook books (including the annual SAGASCO Christmas series), and the various recipe handouts, distributed for such programmes as 'Touch of Elegance' 1981-82, and for demonstrations, two current titles being *Quick and Easy Cooking with Gas* and *Rundle Mall is Cooking with Gas*.

Much of the later history of the Company was gleaned from interviews, which were an integral part of the project and included the following people:

| | | |
|----------------|-------------|--|
| L. Bertram | (1946-) | Plant Superintendent Osborne, Superintendent of Personnel & Industrial Relations |
| J. Burnside | (1944-) | Chief Engineer, General Manager |
| P. Cain | (1969-) | Finance Manager |
| A. De Boer | (1941-) | Meter Maker |
| E. Ingham | (1921-1973) | Draftsman, Designing Engineer |
| B. Macklin | (1963-) | Chairman of Board of Directors |
| G. Maloney | (1953-) | Purchasing Officer |
| A. Miller | (1974-) | Manager, Industrial & Commercial Gas Division |
| R. Pantzer | (1941-) | Meter Maker |
| D. Polglase | (1945-) | General Manager |
| D. Russ | (1940-1985) | Personnel Manager |
| D. Scott Young | (1928-1954) | Assistant Chief Engineer |
| N. Sellar | (1960-) | Secretary to Operations Manager |
| D. Tucker | (1955-) | Company Secretary |
| R. Wagstaff | (1926-1975) | Company Secretary, General Manager |
| E. Wakelin | (1957-1975) | Chief Draftsman |
| R. Willis | (1954-) | Meter Maker |

Dates in brackets indicate term of employment with SAGASCO

Also consulted were the records of the Federated Gas Employees' Industrial Union (SA Branch) and the Gas Industry Salaried Offi-

cers' Federation (SA Branch) — preceded by the South Australian Gas Company's Salaried Officers' Association. While the records of the F.G.E.I.U. survive with gaps and are held by the Mortlock Library of South Australiana, those retained by the SA Branch of G.I.S.O.F. in its office in the SAGASCO Building, are almost complete. The major series are:

Federated Gas Employees' Industrial Union (SA Branch). Minute Books 20 June 1917–25 July 1927, 12 January 1938–March 1947; Membership Books c.1919+ and Seniority Lists 1922+ (irregular)

(Mortlock Library of South Australiana. Previously S.R.G. 132 S.A.A.)

South Australian Gas Company's Salaried Officers' Association/Gas Industry Salaried Officers' Federation (SA Branch) and South Australian Gas Company. Agreements 1943+.

(G.I.S.O.F. SA Branch)

South Australian Gas Company's Salaried Officers' Association/Gas Industry Salaried Officers' Federation (SA Branch). Minute Books 1 April 1943+.

(G.I.S.O.F. SA Branch)

South Australian Gas Company's Salaried Officers' Association, Preliminary Correspondence Leading Up to Registration 1943–1948.

(G.I.S.O.F. SA Branch)

Manuscript material giving an interesting perspective on the 1946–47 strike also came to light. The following are in the possession of Mr. D. Scott, and were maintained by his father W.H. Scott.

Strike Relief Pay Book, January 1947.

Notebook, December 1946–January 1947.

CHAPTER NOTES

Chapter 1

The general history of the gas industry has been drawn together from several general books on the subject. These have included Trevor I. Williams, *A History of the British Gas Industry*, Oxford University Press, Oxford 1979, and it is from page 4 that the quotation of John Clayton has been taken; Compton MacKenzie, *The Vital Flame*, published for the British Gas Council by Muller Ltd, London 1947, and from which was taken the quotation concerning the lighting of the Mall; Dean Chandler, *Outline of History of Lighting by Gas*, London 1936, which provides useful information on the changing gas technology. Other useful introductions are to be found in *The Gas Journal, Centenary Volume*, Walter King Ltd, London 1949, while information about European and American origins is to be found in issues of the *Journal of Gas Lighting*, viz. 4 January 1910, 25 January 1910, 8 February 1910, 1 October 1912, 22 October 1912.

The most useful source for information on the Australian connection is J.D. Keating, *The Lambent Flame*, Melbourne University Press, Melbourne 1974. More detailed information about the origins of the industry in Victoria were published in the *Proceedings of Gas Congress, 1934*, 'Address of the Chairman', Gas Companies Association of Australia, Melbourne 1934. The history of the Ballarat Gas Company is detailed in Ray Proudley, *Gas in Ballarat: An Illustrated History*, Gas and Fuel Corporation of Victoria, Melbourne 1985, while that of the Brisbane Gas Company is included in

a commemorative brochure, *Brisbane Gas Co. Ltd.*, Brisbane Gas Co, Brisbane 1954.

Chapter 2

This chapter is based primarily on information from the Company's own records, although the thesis by Buckhard Kabelitz 'The Early History of Gas Production in South Australia 1861-1931' at the University of Adelaide describes the physical development of the several gas works in South Australia and has provided some background. Details about negotiations with the Adelaide City Council have been largely derived from the press, and from the annual reports of the City Council which are available at the Council Archives. The reminiscences of Sir Joseph Verco are to be found in the Mortlock Library, old South Australian Archives reference number PRG 322.

Chapter 3

The references in the text indicate the major sources for this chapter. Information about the development of electricity derives largely from Colin and Margaret Kerr, *The Vital Spark: The Story of Electricity Supply in South Australia*, Electricity Trust of South Australia, Adelaide 1979, and the article 'How Adelaide Saw the Light' in *Adelect* 83 No. 1, May 1983.

The discussion on new gas lighting technology is based upon that of Chandler, *Outline of History of Lighting by Gas*. Background information on the New South Wales coalfields and industrial relations there is to be found in M.R. McKeown (ed.) *Coal in Australia: A Symposium*, Fifth Empire Mining and Metallurgical Congress Australia and New Zealand, 1953, Melbourne 1953, while background on the Maritime Strike in South Australia is to be found in Jim Moss, *Sound of Trumpets, History of the Labour Movement in South Australia*, Wakefield Press, Netley 1985. Information on the registration, rules and names of officers of the South Australian Gas Company's Employees' Association 1890-93, and the formation of the South Australian Gas Company's Employees Mutual Benefit Association c.1907, was found in the following file: Department of Corporate Affairs, Series 5, Special List, GRG 119/5/28

Public Record Office of South Australia. (Note: The word *employe* was in common use at the turn of the century but *employee* has been used consistently throughout the text, when not part of an original quote).

Chapter 4

The information in this chapter about new gas technologies is taken largely from Chandler, *Outline of History of Lighting by Gas*. Other sources consulted for this chapter and not alluded to in the text include *South Australian Parliamentary Paper No. 22 of 1917*, 'Report of the Royal Commission on the Municipalisation of Gas and Electric Sources', while information about tenders for street lighting in Adelaide in 1921–22 are to be found in Adelaide City Council Archives, Town Clerk's Department (C15), Special File 74A Electric Lighting Contract. The early history of the Federated Gas Employees' Industrial Union has been gleaned from Commonwealth Arbitration Reports 1911+, newspaper reports and the records of the F.G.E.I.U. (SA Branch).

Chapter 5

Information about the physical development of the Company, most notably that at Osborne, is given by Kabelitz, in his thesis 'The Early History of Gas Production in South Australia', although a detailed and technical description of the works at this time including that at Osborne is found in the typescript notes by Tom Johnson entitled 'Gas Works Practice' which is the text of an illustrated lecture delivered to the Adelaide Division of the Association of Charge Engineers (Aust.) on 26 April 1939; the notes also refer to photographs and illustrations in a photo album. Much of the later technical information was obtained from an interview with Donald Scott Young, at one time Assistant Engineer. The figures illustrating the reality of the Depression are to be found in W. Vamplew *et al.* *South Australian Historical Statistics: Historical Statistics Monograph No. 3*, History Project Incorporated, Kensington 1984. The Special Board Reports provided detailed information about the Company to complement that from the annual reports and chairmen's addresses. The importance of the works fire in 1941 is evident

from Michael Page, *Muscle and Pluck Forever! The South Australian Fire Services 1840–1982*, The South Australian Metropolitan Fire Service, Adelaide, 1983. The letter from H.G. Winkler is found in Chief Engineer's Correspondence under the date.

The Minute Books of the Federated Gas Employees' Industrial Union proved useful in describing industrial relations. For the effects of the Depression on labour, *Commonwealth Arbitration Reports*, newspapers and the Company's Special Board Minutes for the 1930s proved useful. The descriptions of the one-day strike of 2–3 August 1937 were derived from contemporary newspaper reports, along with the Company view in special Board Minutes. Two photographs of the strike are in the possession of the Mortlock Library (previously B9921–2 SAA). The formation of the South Australian Gas Company's Salaried Officers' Association was traced through records held in the office of the Gas Industry Salaried Officers' Federation (SA Branch). Of particular value were folders containing 'Preliminary Correspondence Leading Up to Registration 1943–1948', the South Australian Gas Company's Officers' Agreement 14 October 1943, and the proceedings of the SA Industrial Court, March 1944, regarding objections to the application for registration. The South Australian Gas Company's correspondence records regarding the Salaried Officers' Association and the Association's Minute Books were also important sources.

Chapter 6

Company records, most notably the Special Board Reports, have formed the basis for most of the information about the Company in this chapter: these reports are filed in calendar years and divided alphabetically in accordance with their subject matter. Information about new plant also derives from an interview with Donald Scott Young. Information about the Housing Trust was taken from Annual Reports of the Trust plus files Nos. 314, 387, 583 and 954, as well as SAGASCO records. On industrial relations, the records of the F.G.E.I.U. and G.I.S.O.F., along with the Company's correspondence with both bodies, proved invaluable.

From the mid-1950s the SA Branch of G.I.S.O.F. regularly contributed to the journal *Light*, with the newsletter *Flashlight* being

also irregularly circulated. Issues of both titles are held by the SA Branch of G.I.S.O.F. The SA Branch of the F.G.E.I.U. published its own periodical the *Gasworker* from about 1953, surviving issues of which have been found in the Company's Correspondence Records with the F.G.E.I.U. (the earliest being No. 20 October 1954) and others being held by the Mortlock Library August 1961–June 1972 (Z Per 665.7). Irregular issues of the Communist Party's two-page newsletter *Retort* (September–November 1954, October and December 1964, and March and August 1965), were found enclosed with the Company's Correspondence Records with the F.G.E.I.U. For the 1946–47 strike, leading articles and photographs from the *Advertiser* November 1946 to January 1947 provided day-by-day descriptions, in addition to the information contained in the Company's Special Board Reports. Reference to the strike was also made by Jim Moss in *Sound of Trumpets*, Wakefield Press, Netley 1985, p.355. The Strike Relief Pay Book and Notebook, maintained by W.H. Scott during the strike, give important insights into the organization of the F.G.E.I.U.

Chapter 7

The Company's Special Board Reports provided most of the detail for this chapter, while several of the interviews, most notably those of T. Watkins and G. Maloney, and much of the information about the conversion to natural gas was taken from the Company's *Natural Gas Newsletter*. Other publications produced to increase public awareness included the South Australian Gas Company's *Natural Gas and You: A Customer Information Booklet*, 1969, and Noeleen Matheson's *The Natural Glamour of Gas: Recipes*, South Australian Gas Company, 1970, and *Natural Gas Cookbook*, Rigby, Adelaide 1973. For details regarding retrenchments, severance pay and redeployment of employees during natural gas conversion, the Company's Special Board Reports, Annual Reports, and Correspondence Records with the F.G.E.I.U., along with the *Gasworker* (to June 1972) were consulted. The *Natural Gas Newsletter*, which continued as the *South Australian Gas Company Newsletter* then retitled *Pipeline*, provided important information regarding the Company, its employees, and social/sporting events from 1969 to the present.

Chapter 8

Once again the Special Board Reports proved to be the most valuable source of information for this chapter along with that from successive annual reports. The letter from R. Brierley to Premier Tonkin referring to 'negative creeping socialism' is kept with the Company records at the Adelaide Stock Exchange. The references to debate in Parliament are to be found in Hansard under the appropriate dates. In addition to the *South Australian Gas Company Newsletter* and *Pipeline*, issues of *News & Views* April 1972+, a publication of G.I.S.O.F. (SA Branch), and *Light* (to July 1975), provided further information regarding employees and changes within the Company.

APPENDIX 1

CHIEF EXECUTIVE OFFICERS 1861–1986



| SECRETARY AND GENERAL MANAGER | | APPOINTMENT |
|-------------------------------|---|-------------|
| R.B. Colley | Secretary | 8/7/1861 |
| J. Paxton | Secretary | 13/7/1864 |
| J. Evans | Secretary | 22/7/1878 |
| A. Dawkins | Secretary | 11/8/1910 |
| G.M. O'Dea | Secretary | 11/8/1915 |
| | Secretary and Business Manager | 19/1/1932 |
| | Secretary and General Manager | 5/9/1935 |
| | General Manager | 7/10/1943 |
| A.J. Dobson | Secretary | 7/10/1943 |
| E.L. Brown | Acting General Manager | 12/5/1949 |
| | Assistant General Manager | 2/6/1949 |
| | Assistant General Manager and Secretary | 1/1/1950 |
| S.R.B. Preston | General Manager and Chief Engineer | 2/6/1949 |
| R. Wagstaff | Secretary | 18/5/1961 |
| | General Manager | 1/7/1962 |
| J.W. Redin | Secretary | 1/7/1962 |
| J.D. Burnside | General Manager | 1/7/1975 |
| R.A. Ward | Secretary | 4/3/1977 |
| D.G. Polglase | General Manager | 1/5/1982 |
| D.L. Tucker | Secretary and Manager Administration and Planning | 7/7/1984 |

ENGINEERS/CHIEF ENGINEERS

| | |
|----------------|------------|
| S. Scoltock | 24/7/1861 |
| G. Anderson | 1863 |
| W. Ray | 1885 |
| S.W. Durkin | 1913 |
| S.R.B. Preston | 19/12/1935 |
| J.P. Burnside | 1/7/1962 |
| T.K. Watkins | 1/7/1975 |

APPENDIX 2

SAGASCO DIRECTORS 1861-1985

| | | | | | |
|---------|---------------|----------------|----------------|-------------------|----------------|
| 1861/62 | Henry Ayers* | Arthur Blyth | Thomas Graves | George P. Harris | George Young |
| 1862/63 | Henry Ayers* | Arthur Blyth | Thomas Graves | George P. Harris | George Young |
| 1863/64 | Henry Ayers* | Arthur Blyth | Thomas Graves | George P. Harris | George Young |
| 1864/65 | Henry Ayers* | Arthur Blyth | Thomas Graves | George P. Harris | George Young |
| 1865/66 | Henry Ayers* | Arthur Blyth | Thomas Graves | George P. Harris | George Young |
| 1866/67 | Henry Ayers* | Arthur Blyth | Thomas Graves | George P. Harris | George Youngφ |
| | | | | Samuel Tomkinson | William Milne |
| 1867/68 | Henry Ayers* | Arthur Blythφ | Thomas Graves | Samuel Tomkinson | William Milne |
| 1868/69 | Henry Ayers* | Neville Blyth | Thomas Gravesφ | Samuel Tomkinson | William Milne |
| | | | George Main | | |
| 1869/70 | John Lindsayφ | Neville Blyth | George Main | Samuel Tomkinson | William Milne* |
| 1870/71 | John Lindsay | Neville Blythφ | George Main | Samuel Tomkinson | William Milne* |
| 1871/72 | John Lindsay | Henry Ayers | George Main | Samuel Tomkinson | William Milne* |
| 1872/73 | John Lindsayφ | Henry Ayers | George Main | Samuel Tomkinson | William Milne* |
| 1873/74 | Alexander Hay | Henry Ayers | George Mainφ | Samuel Tomkinson | William Milne* |
| | | | John Acraman | | |
| 1874/75 | Alexander Hay | Henry Ayers | John Acraman | Samuel Tomkinsonφ | William Milne* |
| | | | | Arthur Blyth | |
| 1875/76 | Alexander Hay | Henry Ayersφ | John Acraman | Arthur Blyth | William Milne* |
| 1876/77 | Alexander Hay | John Hartφ | John Acraman | Arthur Blythφ | William Milne* |
| | | | | Samuel Tomkinson | |
| 1877/78 | Alexander Hay | Henry Ayers | John Acraman | Samuel Tomkinson | William Milne* |

| | | | | | |
|-----------|---|---------------|---------------|--|---------------------------------------|
| 1878/79 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | William Milne*φ |
| 1879/80 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | Joseph Fisher |
| 1880/81 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | Joseph Fisher |
| 1881/82 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | Joseph Fisher |
| 1882/83 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | Joseph Fisher |
| 1883/84 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | Joseph Fisher |
| 1884/85 | Alexander Hay | Henry Ayers* | John Acraman | Samuel Tomkinson | Joseph Fisher |
| 1885/86 | Alexander Hayφ Alfred Muller Simpson | Henry Ayers* | John Acraman | Samuel Tomkinsonφ Robert Barr Smith | Joseph Fisher |
| 1886/87 | Alfred Muller Simpson | Henry Ayers* | John Acraman | Robert Barr Smith | Joseph Fisher |
| 1887/88 | Alfred Muller Simpson | Henry Ayers* | John Acraman | Robert Barr Smith | Joseph Fisher |
| 1888/89 | Alfred Muller Simpson | Henry Ayers* | John Acraman | Robert Barr Smithφ George Scarfe | Joseph Fisherφ George Dutton Green |
| 1889/90 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1890/91 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1891/92 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1892/93 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1893/94 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1894/95 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1895/96 | Alfred Muller Simpson | Henry Ayers* | John Acraman | George Scarfe | George Dutton Green |
| 1896/97 | Alfred Muller Simpson | Henry Ayers + | John Acraman* | George Scarfe | George Dutton Green |
| 1897/98 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | George Scarfe | George Dutton Green |
| 1898/99 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | George Scarfe | George Dutton Green |
| 1899/1900 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | George Scarfe | George Dutton Green |
| 1900/01 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | George Scarfe | George Dutton Green |

φ Retired/Resigned

* Chairman

+ Died

APPENDIX 2 — SAGASCO DIRECTORS 1861–1985

| | | | | | |
|---------|-------------------------|------------------------------------|-------------------|---|---|
| 1901/02 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | George Scarfe | George Dutton Green |
| 1902/03 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | George Scarfe + | George Dutton Green |
| 1903/04 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | Arthur Robert Lungley | George Dutton Green |
| 1904/05 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | Arthur Robert Lungley | George Dutton Green |
| 1905/06 | Alfred Muller Simpson | Joseph Fisher | John Acraman* | Arthur Robert Lungley | George Dutton Green |
| 1906/07 | Alfred Muller Simpson* | Joseph Fisher | John Acraman + | Arthur Robert Lungley | George Dutton Green |
| 1907/08 | Alfred Muller Simpson* | Joseph Fisher + William Culross | William Taylor | Arthur Robert Lungley | George Dutton Green |
| 1908/09 | Alfred Muller Simpson* | William Culross | William Taylor | Arthur Robert Lungley | George Dutton Green |
| 1909/10 | Alfred Muller Simpson* | William Culross + | William Taylorφ | Arthur Robert Lungley | George Dutton Green |
| 1910/11 | Alfred Muller Simpson* | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley | George Dutton Green + William Herbert Phillips |
| 1911/12 | Alfred Muller Simpson* | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley | William Herbert Phillips |
| 1912/13 | Alfred Muller Simpson*φ | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley | William Herbert Phillips |
| 1913/14 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1914/15 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1915/16 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1916/17 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1917/18 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1918/19 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1919/20 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1920/21 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1921/22 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1922/23 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1923/24 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1924/25 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1925/26 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungley* | William Herbert Phillips |
| 1926/27 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse | Arthur Robert Lungleyφ Wallace Bruce | William Herbert Phillips |

| | | | | | |
|---------|---------------------|--------------------------|--|---|--|
| 1927/28 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse* | Wallace Bruce | William Herbert Phillips |
| 1928/29 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse* | Wallace Bruce | William Herbert Phillips |
| 1929/30 | Howard Watson Lloyd | Frederick George Scarfe | Arthur Waterhouse* | Wallace Bruce | William Herbert Phillips |
| 1930/31 | Howard Watson Lloyd | Frederick George Scarfe* | Arthur Waterhouseφ Frederick Neighbour Simpson | Wallace Bruce | William Herbert Phillips |
| 1931/32 | Howard Watson Lloyd | Frederick George Scarfe* | Frederick Neighbour Simpson | Wallace Bruce | William Herbert Phillips |
| 1932/33 | Howard Watson Lloyd | Frederick George Scarfe* | Frederick Neighbour Simpsonφ | Wallace Bruce | William Herbert Phillips |
| 1933/34 | Howard Watson Lloyd | Frederick George Scarfe* | Alfred Allen Simpson | Wallace Bruce | William Herbert Phillips |
| 1934/35 | Howard Watson Lloyd | Frederick George Scarfe* | Alfred Allen Simpsonφ | Wallace Bruce | William Herbert Phillips + William Steele |
| 1935/36 | Howard Watson Lloyd | Frederick George Scarfe* | Charles Richmondφ John Glover | Wallace Bruce | William Steele |
| 1936/37 | Howard Watson Lloyd | Frederick George Scarfe* | John Glover + Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1937/38 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1938/39 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1939/40 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1940/41 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1941/42 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1942/43 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1943/44 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid | Wallace Bruce | William Steele |
| 1944/45 | Howard Watson Lloyd | Frederick George Scarfe* | Stanley McGregor Reid + Alfred Roy LeMessurier | Wallace Bruce + James Wallace Sandford | William Steele |

* Chairman

φ Retired/Resigned

+ Died

APPENDIX 2 — SAGASCO DIRECTORS 1861–1985

| | | | | | |
|---------|--|--|---|--|--|
| 1945/46 | Howard Watson Lloyd Lancelot Howard Lloyd | Frederick George Scarfe* | Alfred Roy LeMessurier | James Wallace Sandford | William Steele |
| 1946/47 | Lancelot Howard Lloyd | Frederick George Scarfe* | Alfred Roy LeMessurier + Charles John Glover | James Wallace Sandford | William Steele |
| 1947/48 | Lancelot Howard Lloyd | Frederick George Scarfe* | Charles John Glover | James Wallace Sandford | William Steele |
| 1948/49 | Lancelot Howard Lloyd | Frederick George Scarfe* | Charles John Glover | James Wallace Sandford | William Steele |
| 1949/50 | Lancelot Howard Lloyd | Frederick George Scarfe* | Charles John Glover | James Wallace Sandford | William Steele |
| 1950/51 | Lancelot Howard Lloyd | Frederick George Scarfe* | Charles John Glover | James Wallace Sandford | William Steele |
| 1951/52 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford* | William Steele |
| 1952/53 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford* Robert Moore Steele | William Steele + |
| 1953/54 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford* | Robert Moore Steele |
| 1954/55 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford | Robert Moore Steele* |
| 1955/56 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford | Robert Moore Steele* |
| 1956/57 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford | Robert Moore Steele* |
| 1957/58 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | James Wallace Sandford + Peter Henry Giles Geddes | Robert Moore Steele* |
| 1958/59 | Lancelot Howard Lloyd | Frederick George Scarfe | Charles John Glover | Peter Henry Giles Geddes | Robert Moore Steele* |
| 1959/60 | Lancelot Howard Lloyd | Frederick George Scarfe John William Hurtle Coumbe | Charles John Glover | Peter Henry Giles Geddes | Robert Moore Steele* |
| 1960/61 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover | Peter Henry Giles Geddes | Robert Moore Steele* |
| 1961/62 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover | Peter Henry Giles Geddes | Robert Moore Steele* |
| 1962/63 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover* | Peter Henry Giles Geddes | Robert Moore Steele Bruce Roy Macklin |

| | | | | | |
|---------|---|--------------------------------|---|---|--------------------|
| 1963/64 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover* | Peter Henry Giles Geddes | Bruce Roy Macklin |
| 1964/65 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover* | Peter Henry Giles Geddes | Bruce Roy Macklin |
| 1965/66 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover* | Peter Henry Giles Geddes | Bruce Roy Macklin |
| 1966/67 | Lancelot Howard Lloyd | John William Hurtle Coumbe | Charles John Glover* | Peter Henry Giles Geddes + Samuel Joshua Jacobs | Bruce Roy Macklin |
| 1967/68 | Lancelot Howard Lloyd | John William Hurtle Coumbeφ | Charles John Glover* | Samuel Joshua Jacobs | Bruce Roy Macklin |
| 1968/69 | Lancelot Howard Lloyd | David Murray Fowler | Charles John Glover + William Faulding Scammell | Samuel Joshua Jacobs | Bruce Roy Macklin* |
| 1969/70 | Lancelot Howard Lloyd | David Murray Fowler | William Faulding Scam- mell | Samuel Joshua Jacobs | Bruce Roy Macklin* |
| 1970/71 | Lancelot Howard Lloyd | David Murray Fowler | William Faulding Scam- mell | Samuel Joshua Jacobs | Bruce Roy Macklin* |
| 1971/72 | Lancelot Howard Lloydφ Malcolm Alexander Kin- naird | David Murray Fowler | William Faulding Scam- mell | Samuel Joshua Jacobs | Bruce Roy Macklin* |
| 1972/73 | Malcolm Alexander Kin- naird | David Murray Fowler | William Faulding Scam- mell | Samuel Joshua Jacobsφ Murray Frew Bonnin | Bruce Roy Macklin* |
| 1973/74 | Malcolm Alexander Kin- naird | David Murray Fowler | William Faulding Scam- mell | Murray Frew Bonninφ | Bruce Roy Macklin* |

φ Retired/Resigned

* Chairman

+ Died

APPENDIX 2 — SAGASCO DIRECTORS 1861–1985

| | | | | | |
|---------|-----------------------------|---------------------|----------------------------|---|--------------------|
| 1974/75 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Murray Frew Bonnin | Bruce Roy Macklin* |
| 1975/76 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Murray Frew Bonnin | Bruce Roy Macklin* |
| 1976/77 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Murray Frew Bonnin | Bruce Roy Macklin* |
| 1977/78 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Murray Frew Bonnin + Alan Gordon McGregor | Bruce Roy Macklin* |
| 1978/79 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1979/80 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1980/81 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1981/82 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1982/83 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1983/84 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1984/85 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |
| 1985/86 | Malcolm Alexander Kin-naird | David Murray Fowler | William Faulding Scam-mell | Alan Gordon McGregor | Bruce Roy Macklin* |

* Chairman

φ Retired/Resigned

+ Died

APPENDIX 3

TOP TWENTY SHAREHOLDERS SAGASCO 1975-1985

| | 1975 SHAREHOLDER | NO OF SHARES | 1976 SHAREHOLDER | NO OF SHARES | 1977 SHAREHOLDER | NO OF SHARES | 1978 SHAREHOLDER | NO OF SHARES | 1979 SHAREHOLDER | NO OF SHARES | 1980 SHAREHOLDER | NO OF SHARES |
|---|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|-----------------|
| 1 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 |
| 2 | THE NATIONAL MUTUAL LIFE ASSOCIATION OF AUSTRALASIA LTD MELBOURNE | 82,485 | THE NATIONAL MUTUAL LIFE ASSOCIATION OF AUSTRALASIA LTD MELBOURNE | 97,500 | THE NATIONAL MUTUAL LIFE ASSOCIATION OF AUSTRALASIA LTD MELBOURNE | 78,500 | THE NATIONAL MUTUAL LIFE ASSOCIATION OF AUSTRALASIA LTD MELBOURNE | 83,500 | THE NATIONAL MUTUAL LIFE ASSOCIATION OF AUSTRALASIA LTD MELBOURNE | 94,000 | THE NATIONAL MUTUAL LIFE ASSOCIATION OF AUSTRALASIA LTD MELBOURNE | 96,700 |
| 3 | EXECUTOR TRUSTEE AND AGENCY CO. OF SA LTD ADELAIDE | 39,396 | EXECUTOR TRUSTEE AND AGENCY CO. OF SA LTD ADELAIDE | 40,543 | POLLARD, P.C. POLLARD, J. LOCKLEYS SA | 38,000 | POLLARD, P.C. POLLARD, J. LOCKLEYS SA | 38,000 | DAYCO NOMINEES PTY LTD ADELAIDE | 67,949 | BRIERLY, R.A. SYDNEY | 76,100 |
| 4 | LECON PTY LTD ADELAIDE | 30,659 | POLLARD, P.C. POLLARD, J. LOCKLEYS, SA | 33,000 | TARA INVESTMENTS PTY LTD SOUTH YARRA VIC | 33,000 | EXECUTOR TRUSTEE & AGENCY CO OF SA LTD ADELAIDE | 33,964 | TARA INVESTMENTS PTY LTD C/- M.P. TINSLEY SOUTH YARRA VIC | 33,100 | NATIONAL NOMINEES LIMITED MELBOURNE | 72,200 |
| 5 | POLLARD, P.C. POLLARD, J. LOCKLEYS, SA | 30,000 | ELDERS TRUSTEE AND EXECUTOR CO. LIMITED ADELAIDE | 24,413 | EXECUTOR TRUSTEE AND AGENCY CO. OF SA LTD ADELAIDE | 31,862 | BERESFORD T.J. TOORAK VIC | 29,400 | BERESFORD T.J. TOORAK VIC | 32,958 | DAYCO NOMINEES LIMITED ADELAIDE | 67,949 |

APPENDIX 3—Top Twenty Shareholders SAGASCO 1975–1985

| | 1975 SHAREHOLDER | NO OF SHARES | 1976 SHAREHOLDER | NO OF SHARES | 1977 SHAREHOLDER | NO OF SHARES | 1978 SHAREHOLDER | NO OF SHARES | 1979 SHAREHOLDER | NO OF SHARES | 1980 SHAREHOLDER | NO OF SHARES |
|----|---|-----------------|---|-----------------|---|-----------------|--|-----------------|--|-----------------|---|-----------------|
| 6 | ELDERS TRUSTEE AND EXECUTOR CO. LIMITED ADELAIDE | 26,873 | GNALTA PASTORAL CO. PTY LTD ADELAIDE | 21,000 | GNALTA PASTORAL CO. PTY LTD ADELAIDE | 28,000 | TARA INVESTMENTS PTY LTD SOUTH YARRA VIC | 30,193 | SYSTEMATIC NOMINEES PTY LTD ADELAIDE | 30,193 | A.U.C. NOMINEES PTY LTD MELBOURNE | 65,000 |
| 7 | PUBLIC TRUSTEE ADELAIDE | 22,076 | TARA INVESTMENTS PTY LTD SOUTH YARRA VIC | 20,000 | A.W. SANDFORD AND CO. LTD ADELAIDE | 20,000 | GNALTA PASTORAL PTY LTD ADELAIDE | 21,000 | EXECUTOR TRUSTEE AND AGENCY CO. OF SA LTD ADELAIDE | 30,134 | ZEMPILAS, C. PERTH | 47,200 |
| 8 | TARA INVESTMENTS PTY LTD SOUTH YARRA VIC | 20,000 | A.W. SANDFORD AND CO. LTD ADELAIDE | 20,000 | SPICER INVESTMENTS PTY LTD FULHAM, SA | 20,000 | A.W. SANDFORD AND CO. LTD ADELAIDE | 20,000 | POLLARD, P.C. POLLARD, J. LOCKLEYS, SA | 28,000 | DIVSPLIT NOMINEES PTY LTD MELBOURNE | 36,500 |
| 9 | A.W. SANDFORD AND CO. LTD ADELAIDE | 20,000 | SPICER INVESTMENTS PTY LTD FULHAM, SA | 20,000 | R.M.G. SERVICES PTY LTD URRBRAE, SA | 20,000 | SPICER INVESTMENTS PTY LTD FULHAM, SA | 20,000 | GNALTA PASTORAL CO. PTY LTD ADELAIDE | 21,000 | BERESFORD T.J. TOORAK VIC | 32,958 |
| 10 | F.W.O. PTY LTD C/- A.L. ROYCE AND WARNE SMITH, MELBOURNE | 10,000 | PUBLIC TRUSTEE ADELAIDE | 17,998 | ELDERS TRUSTEE AND EXECUTOR CO. LIMITED ADELAIDE | 15,073 | TONKIN, R.L. ADELAIDE | 20,000 | ANFRANK NOMINEES PTY LTD SYDNEY | 19,200 | SYSTEMATIC NOMINEES PTY LIMITED ADELAIDE | 38,800 |
| 11 | GOODEN MANUFACTURING PTY LTD ARNCLIFFE NSW | 10,000 | F.W.O. PTY LTD C/- A.L. ROYCE AND WARNE SMITH MELBOURNE | 10,000 | ADAM, E.O. (Mrs) LOCKLEYS SA | 13,200 | ELDERS TRUSTEE AND EXECUTOR LTD ADELAIDE | 17,673 | TINSLEY, S.P. (Mrs) TOORAK VIC | 15,000 | EXECUTOR TRUSTEE AND AGENCY CO. OF SA LTD ADELAIDE | 30,508 |
| 12 | REDVERS PTY LTD ADELAIDE | 10,000 | GOODEN MANUFACTURING PTY LTD ARNCLIFFE NSW | 10,000 | PUBLIC TRUSTEE ADELAIDE | 12,448 | ADAM, E.O. (Mrs) LOCKLEYS SA | 13,200 | ADAM, E.O. (Mrs) LOCKLEYS SA | 13,200 | THE NATIONAL MUTUAL LIFE ASSOC. OF A/ASIA MELBOURNE | 30,300 |
| 13 | TREVERNY PTY LTD ADELAIDE | 10,000 | REDVERS PTY LTD ADELAIDE | 10,000 | F.W.O. PTY LTD C/- A.L. ROYCE AND WARNE SMITH MELBOURNE | 10,000 | PUBLIC TRUSTEE ADELAIDE | 12,048 | PUBLIC TRUSTEE ADELAIDE | 12,048 | JOHNSWEEN NOMINEES PTY LTD SYDNEY | 27,500 |

| | | | | | | | | | | | | |
|------------------------------|---|---------|--|---------|--|---------|--|---------|---|---------|--|---------|
| 14 | WATTLE HILL PTY LTD ADELAIDE | 10,000 | TREVERNEY PTY LTD ADELAIDE | 10,000 | GOODEN MANUFACTURING PTY LTD ARNCLIFFE NSW | 10,000 | F.W.O. PTY LTD SOUTH MELBOURNE VIC | 10,000 | A.W. SANDFORD AND CO. LTD ADELAIDE | 10,000 | CORCARR NOMINEES PTY LTD MELBOURNE | 26,600 |
| 15 | LAYCOCK HENRY WESTBOURNE PK SA | 9,000 | WATTLE HILL PTY LTD ADELAIDE | 10,000 | REDVERS PTY LTD ADELAIDE | 10,000 | GOODEN MANUFACTURING PTY LTD ARNCLIFFE NSW | 10,000 | SPICER INVESTMENTS PTY LTD FULHAM, SA | 20,000 | SMALL, H.T. MOSMAN NSW | 25,000 |
| 16 | URRBRAE PTY LTD ADELAIDE | 9,000 | LAYCOCK HENRY WESTBOURNE PK SA | 9,000 | TREVERNY PTY LTD ADELAIDE | 10,000 | REDVERS PTY LTD ADELAIDE | 10,000 | GOODEN MANUFACTURING PTY LTD ARNCLIFFE NSW | 10,000 | STATE GOVERNMENT INSURANCE COMMISSION ADELAIDE | 20,000 |
| 17 | PETARLI PTY LTD HUNTERS HILL NSW | 9,000 | URRBRAE PTY LTD ADELAIDE | 9,000 | WATTLE HILL PTY LTD ADELAIDE | 10,000 | THE PARK LTD C/- A.B. ROWLEY MEADOWS, SA | 10,000 | THE PARK LTD C/- A.B. ROWLEY MEADOWS, SA | 10,000 | ANFRANK NOMINEES PTY LTD SYDNEY | 19,200 |
| 18 | BAGOTS EXECUTOR AND TRUSTEE CO. LTD ADELAIDE | 8,958 | PETARLI PTY LTD HUNTERS HILL NSW | 9,000 | GILLIN, M.S. (Mrs) BLACKWOOD, SA | 10,000 | TREVERNY PTY LTD ADELAIDE | 10,000 | ZEMPILAS, C. PERTH | 10,000 | ELDERS TRUSTEE AND EXECUTOR CO. LTD ADELAIDE | 18,723 |
| 19 | SLADE, M.E. (Mrs) TRINITY GDNS SA | 8,100 | SLADE, M.E. (Mrs) TRINITY GDNS SA | 8,100 | TINSLEY, S.P. (Mrs) TOORAK VIC | 10,000 | TINSLEY, S.P. (Mrs) TOORAK VIC | 10,000 | TAYLOR, T.R. COLLETT, H.G. ADELAIDE | 8,000 | ALLIED MILLS STAFF FUND PTY LTD SYDNEY | 17,500 |
| 20 | ADAM, E.O. (Mrs) LOCKLEYS SA | 8,100 | ADAM, E.O. (Mrs) LOCKLEYS SA | 8,100 | URRBRAE PTY LTD ADELAIDE | 9,000 | WATTLE HILL PTY LTD ADELAIDE | 10,000 | ANGOVE, J.M. ESTATE C/- ERIC MERCHANT & ASSOCIATES ADELAIDE | 8,000 | SPICER INVESTMENTS PTY LTD FULHAM, SA | 15,000 |
| TOTAL NO OF SHARES ISSUED | | 471,201 | | 485,308 | | 479,737 | | 504,439 | | 560,436 | | 853,292 |

APPENDIX 3—Top Twenty Shareholders SAGASCO 1975–1985

| | 1981 SHAREHOLDER | NO OF SHARES | 1982 SHAREHOLDER | NO OF SHARES | 1983 SHAREHOLDER | NO OF SHARES | 1984 SHAREHOLDER | NO OF SHARES | 1985 SHAREHOLDER | NO OF SHARES |
|---|--|-----------------|---|-----------------|--|-----------------|---|-----------------|--|-----------------|
| 1 | GENERAL MINING AND INVESTMENT LTD SYDNEY | 97,638 | BANK OF NSW NOMINEES PTY LTD SYDNEY | 109,300 | BANK OF NSW NOMINEES PTY LTD SYDNEY | 99,200 | GENERAL MINING AND INVESTMENT LTD SYDNEY | 97,638 | GENERAL MINING AND INVESTMENT LTD SYDNEY | 97,638 |
| 2 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | GENERAL MINING AND INVESTMENT LTD SYDNEY | 97,638 | GENERAL MINING AND INVESTMENT LTD SYDNEY | 97,638 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 |
| 3 | BANK OF NSW NOMINEES PTY LTD SYDNEY | 91,300 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | AUSTRALIAN MUTUAL PROVIDENT SOCIETY ADELAIDE | 97,554 | ANFRANK NOMINEES PTY LTD SYDNEY | 95,500 | ANFRANK NOMINEES PTY LTD SYDNEY | 95,500 |
| 4 | NATIONAL NOMINEES LTD MELBOURNE | 79,920 | WINCHCOMBE CARSON TRUSTEE CO LTD EPF A/C SYDNEY | 86,200 | ANFRANK NOMINEES PTY LTD SYDNEY | 95,500 | WINCHCOMBE CARSON TRUSTEE CO LTD EPF A/C SYDNEY | 91,700 | MERCANTILE EQUITIES LIMITED SYDNEY | 95,000 |
| 5 | R.A. BRIERLY SYDNEY | 76,100 | R.A. BRIERLY SYDNEY | 76,100 | WINCHOMBE CARSON TRUSTEE CO LTD EPF A/C SYDNEY | 91,700 | R.A. BRIERLY SYDNEY | 76,100 | R.A. BRIERLY SYDNEY | 76,100 |
| 6 | DAYCO NOMINEES PTY LTD ADELAIDE | 67,949 | DAYCO NOMINEES PTY LTD ADELAIDE | 67,949 | R.A. BRIERLY SYDNEY | 76,100 | DAYCO NOMINEES PTY LTD ADELAIDE | 67,949 | DAYCO NOMINEES PTY LTD ADELAIDE | 67,949 |
| 7 | ANFRANK NOMINEES PTY LTD SYDNEY | 67,500 | ANFRANK NOMINEES PTY LTD SYDNEY | 67,500 | DAYCO NOMINEES PTY LTD ADELAIDE | 67,949 | G.H. MICHELL ADELAIDE | 65,000 | ANZ NOMINEES PTY LTD MELBOURNE | 67,800 |

| | | | | | | | | | | |
|----|--|--------|--|--------|--|--------|--|--------|--|--------|
| 8 | C.B.A. NOMINEES LTD MELBOURNE | 65,300 | C.B.A. NOMINEES LTD MELBOURNE | 65,300 | G.H. MICHELL ADELAIDE | 65,000 | A.U.C. NOMINEES PTY LTD MELBOURNE | 65,000 | G.H. MICHELL ADELAIDE | 65,000 |
| 9 | A.U.C. NOMINEES PTY LTD MELBOURNE | 65,000 | A.U.C. NOMINEES PTY LTD MELBOURNE | 65,000 | A.U.C. NOMINEES PTY LTD MELBOURNE | 65,000 | C.I.C. INVESTMENTS PTY LTD MELBOURNE | 60,000 | C.I.C. INVESTMENTS PTY LTD MELBOURNE | 60,000 |
| 10 | C.T.B. NOMINEES LTD SYDNEY | 56,500 | NATIONAL NOMINEES LTD MELBOURNE | 64,020 | C.T.B. NOMINEES LTD SYDNEY | 56,500 | PERPETUAL TRUSTEE CO. LTD & W.S. ROBINSON SYDNEY | 53,100 | J.S. FOLEY HAWTHORN VIC | 49,950 |
| 11 | PERPETUAL TRUSTEE CO. LTD & W.S. ROBINSON SYDNEY | 53,100 | C.T.B. NOMINEES LTD SYDNEY | 56,500 | PERPETUAL TRUSTEE CO. LTD & W.S. ROBINSON SYDNEY | 53,100 | C. ZEMPILAS PERTH | 47,200 | C. ZEMPILAS PERTH | 47,200 |
| 12 | C. ZEMPILAS PERTH | 47,200 | PERPETUAL TRUSTEE CO. LTD & W.S. ROBINSON SYDNEY | 53,100 | C. ZEMPILAS PERTH | 47,200 | PERPETUAL TRUSTEE CO. LTD NO 2 A/C SYDNEY | 43,900 | PERPETUAL TRUSTEE CO. LTD NO 2 A/C SYDNEY | 43,900 |
| 13 | GOLDEN PLATEAU N.L. SYDNEY | 37,200 | C. ZEMPILAS PERTH | 47,200 | PERPETUAL TRUSTEE CO. LTD NO 2 A/C SYDNEY | 43,900 | J.S. FOLEY HAWTHORN VIC | 43,250 | BANK OF NSW NOMINEES PTY LTD SYDNEY | 38,500 |
| 14 | CORCARR NOMINEES PTY LTD MELBOURNE | 35,000 | PERPETUAL TRUSTEE CO. LTD NO 2 A/C SYDNEY | 30,900 | SYSTEMATIC NOMINEES PTY LTD ADELAIDE | 30,200 | BANK OF NSW NOMINEES PTY LTD SYDNEY | 38,500 | EVELIN INVESTMENTS PTY LTD WAITARA NSW | 32,800 |
| 15 | SYSTEMATIC NOMINEES PTY LTD ADELAIDE | 30,200 | SYSTEMATIC NOMINEES PTY LTD ADELAIDE | 30,200 | JOHNSWEEN NOMINEES PTY LTD SYDNEY | 27,500 | SYSTEMATIC NOMINEES PTY LTD ADELAIDE | 30,200 | W.M. HORE HENLEY NSW | 32,550 |

APPENDIX 3—Top Twenty Shareholders SAGASCO 1975–1985

| | 1981 SHAREHOLDER | NO OF SHARES | 1982 SHAREHOLDER | NO OF SHARES | 1983 SHAREHOLDER | NO OF SHARES | 1984 SHAREHOLDER | NO OF SHARES | 1985 SHAREHOLDER | NO OF SHARES |
|----|--|-----------------|--|-----------------|--|-----------------|--|-----------------|--|-----------------|
| 16 | JOHNSWEEN NOMINEES PTY LTD SYDNEY | 27,500 | JOHNSWEEN NOMINEES PTY LTD SYDNEY | 27,500 | J.S. FOLEY HAWTHORN VIC | 27,000 | R.W. PRATT RIVERWOOD NSW | 27,600 | SYSTEMATIC NOMINEES PTY LTD ADELAIDE | 30,200 |
| 17 | DIUSPLIT NOMINEES PTY LTD MELBOURNE | 26,200 | H.T. SMALL MOSMAN NSW | 25,000 | NATIONAL NOMINEES LTD MELBOURNE | 26,220 | JOHNSWEEN NOMINEES PTY LTD SYDNEY | 27,500 | R.W. PRATT RIVERWOOD NSW | 27,600 |
| 18 | H.T. SMALL MOSMAN NSW | 25,000 | THE MERCANTILE AND GENERAL LIFE RE-ASSURANCE CO. OF AUST. LTD SYDNEY | 20,800 | H.T. SMALL NEUTRAL BAY JUNCTION NSW | 25,000 | W.M. HORE HENLEY NSW | 25,450 | JOHNSWEEN NOMINEES PTY LTD SYDNEY | 27,500 |
| 19 | THE MERCANTILE & GENERAL LIFE RE-ASSURANCE CO. OF AUST. LTD SYDNEY | 20,800 | STATE GOVERNMENT INSURANCE COMMISSION ADELAIDE | 20,000 | THE MERCANTILE & GENERAL LIFE RE-ASSURANCE CO. OF AUST. LTD SYDNEY | 20,800 | H.T. SMALL NEUTRAL BAY JUNCTION NSW | 25,000 | H.T. SMALL NEUTRAL BAY JUNCTION NSW | 25,000 |
| 20 | STATE GOVERNMENT INSURANCE COMMISSION ADELAIDE | 20,000 | CORCARR NOMINEES PTY LTD MELBOURNE | 18,700 | STATE GOVERNMENT INSURANCE COMMISSION ADELAIDE | 20,000 | STATE GOVERNMENT INSURANCE COMMISSION ADELAIDE | 20,000 | W. PACKER PERTH | 23,400 |
| | TOTAL NO OF SHARES ISSUED | 1,086,961 | | 1,126,461 | | 1,133,061 | | 1,098,141 | | 1,101,141 |

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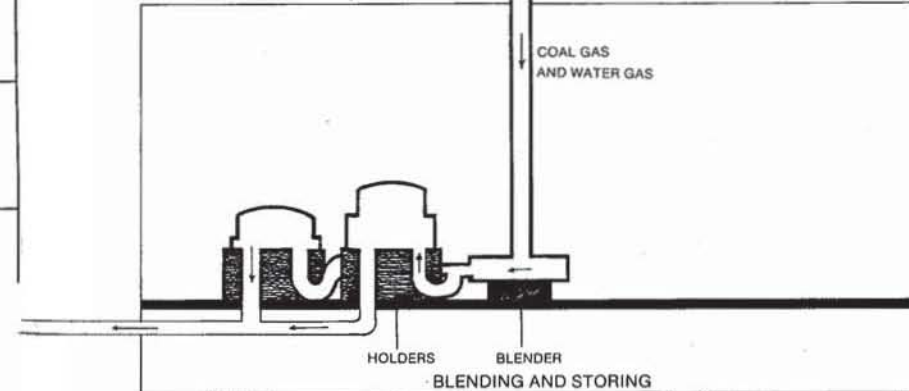
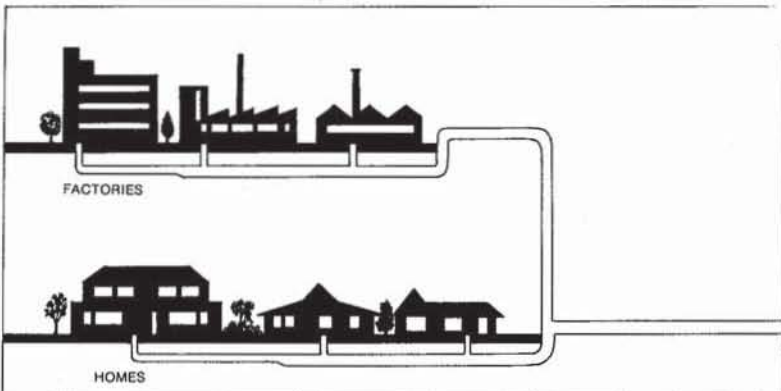
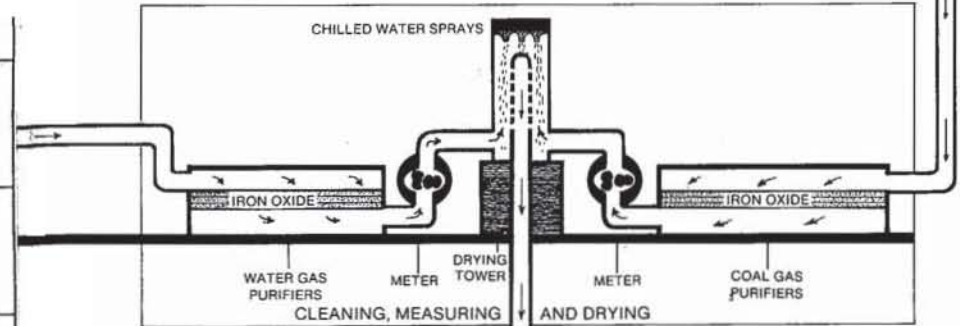
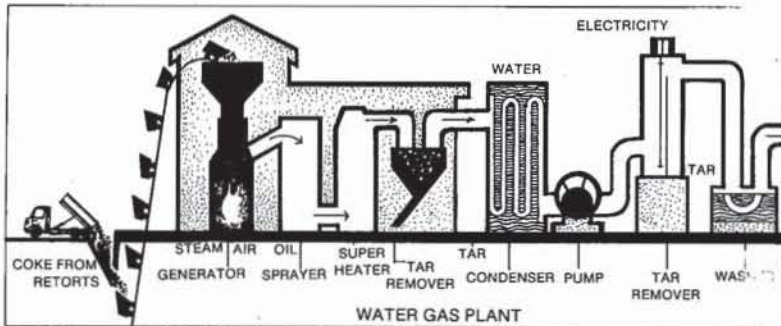
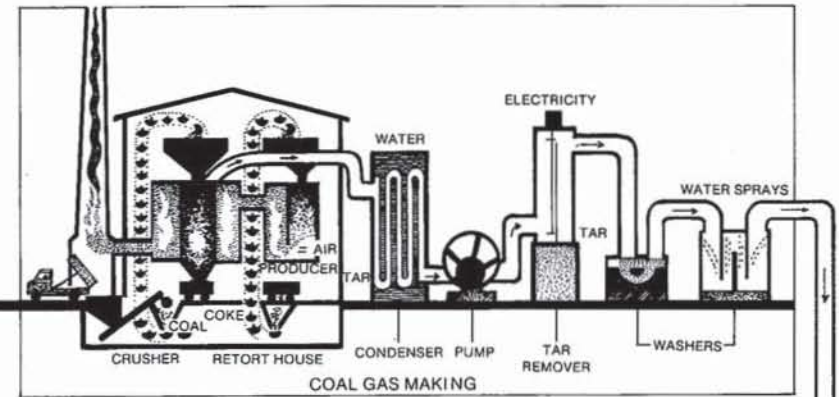
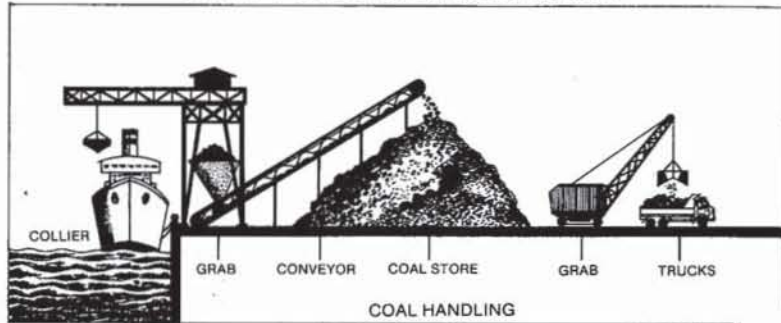
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HOW TOWN GAS WAS MADE



Endpapers — Diagrammatic representation of the manner in which town gas was made, redrawn from a poster prepared by the Visual Education Centre of the Education Department of Victoria in co-operation with the Gas and Fuel Corporation of Victoria.