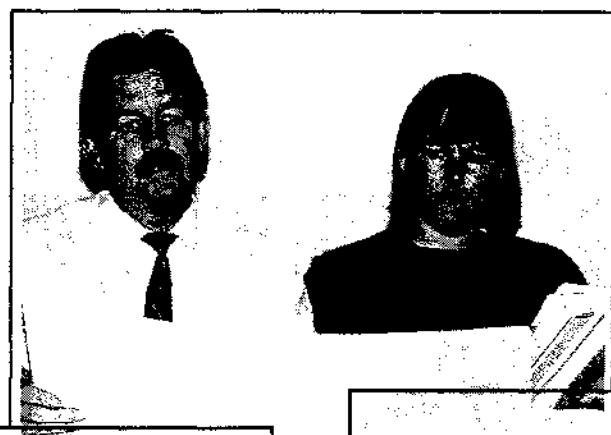


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# Department of Minerals and Energy Queensland



ANNUAL REPORT 1992-93

## ACTS ADMINISTERED

**Minister:** The Minister for Minerals and Energy

**Responsible Head:** Director-General

**Administrative Unit:** Department of Minerals and Energy

**Principal Ministerial Responsibilities:** • Minerals and Energy • Explosives • Geological Survey • Electricity (including generation, transmission and distribution, licensing of electrical workers) • Gas • Health and Safety (including mining) • Environment (including management of mining) • Titles (including mining) • Royalties • Aboriginal and Torres Strait Islander matters (including mineral resources).

### Acts Administered:

Aboriginal Land Act 1991, section 7.01 and section 9.04 (as it applies in relation to section 7.01)

Alcan Queensland Pty Limited Agreement Act 1965 (The Schedule)

Aurukun Associates Agreement Act 1975 (Part III of the Schedule)

Central Queensland Coal Associates Agreement Act 1968 (Parts II and III of the Schedule)

Coal and Oil Shale Mine Workers (Pensions) Act 1941

Coal and Oil Shale Mine Workers' Superannuation Act 1989

Coal Mining Act 1925

Coal Mining Act Amendment Act 1969

Coal Mining Acts Amendment Act 1964

Commonwealth Aluminium Corporation Pty Limited Agreement Act 1957

Currambin Minerals Pty Ltd (Transfer of Treatment Plant) Act 1973

Explosives Act 1952

Explosives Act Amendment Act 1980

Gas Act 1965

Gas Suppliers (Shareholdings) Act 1972

Irvinebank State Treatment Works (Sale and Operation) Act 1990

Liquid Fuel Supply Act 1984

Mineral Resources Act 1989

Mineral Resources (Adjustment Submarine Areas) Act 1964

Mines Regulation Act 1964

Mining Act and Another Act Amendment Act 1974

Mining Act and Other Acts Amendment Act 1982

Mining Act and Petroleum Act Amendment Act 1983

Mining Acts Amendment Act 1929

Mining (Fossicking) Act 1985

Mount Isa Mines Limited Agreement Act 1985

Petroleum Act 1923

Petroleum (Submerged Lands) Act 1982

Queensland Cement & Lime Company Limited Agreement Act 1977 (Parts II and VI of the Schedule)

Queensland Nickel Agreement Act 1970 (Part II and III of the Schedule)

Queensland Phosphate Limited Guarantee Act 1975

Thiess Peabody Mitsui Coal Pty Ltd Agreements Act 1965 (Part III of the Schedule)

Thiess Peabody Mitsui Coal Pty Ltd Agreements Act 1962

Torres Strait Islander Land Act 1991 (Part 7, section 7.01; Part 9, section 9.04 as it applies to the provisions of the Act administered by the Minister)

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**FRONT COVER:** The Department of Minerals and Energy is aware of community concerns about environmental issues and the need for mined land to be available for other uses once mining has ended.

The four pictures on the cover illustrate the way in which the Department works to provide continuing land use.

**Top:** Manager, Environmental Branch (Energy) David Welsh, and Environmental Officer Neala Gillespie, study a miner's Environmental Management Overview Strategy, without which mining cannot begin.

**Right:** The first stages of land reclamation - the spoil heaps have been levelled and contoured and covered with stockpiled topsoil ready for planting.

**Bottom:** Contoured and seeded land in the initial stages of restoration.

**Left:** The restoration process is well advanced and trees have grown to a considerable height.

Queensland Minerals and Energy Centre  
61 Mary Street Brisbane 4000

The Honourable Tony McGrady M.L.A.  
Minister for Minerals and Energy

*Dear Minister*

*In the past twelve months the Department has consolidated major structural and directional changes brought about by our internal processes of review and improvement and the report by the Public Sector Management Commission Review.*

*The PSMC finding that the Department had an important role in supporting Queensland's economic development led to the Department establishing itself as lead agency on minerals and energy issues within Government.*

*As part of this process the Department had a change of name from the Department of Resource Industries to the Department of Minerals and Energy.*

*A major initiative during the year was the release for exploration of the whole of the Bowen Basin in a two-stage release. The first phase involved all the area with the exception of 13 special areas, one set aside for ongoing scientific research and 12 set aside for release by a cash bidding process in the 1993-94 year.*

*Processing times for exploration permits, mining leases and other approvals processes, such as environmental planning, have been cut significantly in a concerted effort to improve our service to the industry and maintain Queensland's position as an attractive State for investment and development in the minerals and energy sector.*

*The Department's Mineral and Energy Resources Location and Information Network (MERLIN), which provides for linkages of computerised data sets, was further advanced to provide an even better service to exploration companies.*

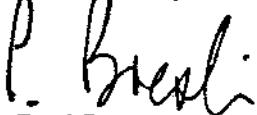
*This work was complemented by advances in geological knowledge, largely from exercises in conjunction with the Australian Geological Survey Organisation, which have added to the geological knowledge of the State, particularly in the exciting Carpentaria-Mount Isa Mineral Province in north-west Queensland.*

*Public concern about the environment resulted in a number of environmental and rehabilitation initiatives including the introduction of Environmental Management Overview Strategies (EMOS). This means that before mining can begin, companies must lodge a strategy detailing their plans for the land after mining has ceased.*

*The staff also took part in a comprehensive job re-design process during the year which saw every person contribute to a job re-design document designed to improve our productivity. The process involved identifying clients' needs clearly and targeting the main areas of demand to improve service delivery.*

*This process paid special attention to workplace health and safety issues, equal employment opportunity principals and also involved close consultation with the regional offices to ensure maximum benefit in our 10 regions.*

*Yours sincerely*



Paul Breslin  
Director-General

## DEPARTMENTAL HIGHLIGHTS

- Major land release for coal exploration in the Bowen Basin sees the lifting of the former Restricted Area 55 freeing the Bowen Basin for coal exploration in two stages, the first stage for most of the land and the second stage involving 12 areas considered to be of high prospectivity.
- The Geological Survey of Queensland celebrates its 125th anniversary with a series of initiatives including further regional gravity surveys over the Mount Isa block.
- Mining Week launched with work from the Department, the Queensland Mining Council, mining companies and Unions.
- Petroleum Resources Branch completes a comprehensive review of Coalbed Methane Drainage in Queensland.
- The Safety in Mines Testing and Research Station (SIMTARS) gains National Association of Testing Authorities (NATA) Quality System Registration Certificate.
- Departmental program to make safe old gold mine shafts at Gympie receives an allocation of \$3.75 million over three years from State Cabinet.
- A Joint Research Agreement on energy research was ratified by the Minister for Minerals and Energy and the Executive Director of Japan's New Energy and Industrial Technology Development Organisation.
- Geological Survey Division begins a program of upgrading the regional gravity data coverage of north-west Queensland and the Mount Isa mineral inlier to produce detailed gravity profiles of the area.
- Geological Survey completes a major re-organisation of its operations, significantly reducing the time required to produce geological maps.
- Mapping of the Broken River and Hodgkinson Provinces and the Kangaroo Hills Mineral Field completed.
- The Safety and Health Branch (Minerals) organises a series of industry awareness seminars to enhance safety and health in the industry.
- The second phase of the development of the Department's Minerals and Energy Locational Information Network (MERLIN) commenced. This will provide geoscience and resource data on the Department's computerised network.
- The name of the Department was changed from the Department of Resource Industries to the Department of Minerals and Energy.

## REVIEW BY THE DIRECTOR-GENERAL

The Department's focus during the year has been on improving our measured performance in our major areas of work.

These areas include mining title processing, geological survey, safety, environmental protection, safety research and strategic advice on major policy issues such as royalties, electricity industry reform and future gas supplies.

The Department became leaner and more focussed with a series of moves - including a job re-design process involving the entire staff - designed to make the best use of the people and resources available.

The name of the Department changed from the Department of Resource Industries to the Department of Minerals and Energy early in the 1992-93 financial year.

The change was made to define more accurately the scope of the Department's operations and to reflect its importance to the economy and Queensland.

The annual Client Survey, designed to monitor our clients' needs and perceptions, provided input for the Strategic Plan and important information about performance.

Two internal evaluations covering Geological Survey and Energy Divisions were completed during the year.

A Steering Committee was created within the Geological Survey Division to undertake an extensive work re-design process to implement the recommendations.

Evaluations of the Queensland Coal Board and the Minerals Division began in June 1993.

Officers of the Minerals Division continued the implementation of an environmental management policy for mining in Queensland and an Annual Premier's Awards for Environmental Excellence for exploration and Mining was introduced.

There was continued involvement in decommissioning and rehabilitation programs for the mine sites at Horn Island, Mount Morgan,

*Director-General, Mr Paul Breslin*

Agricola and Bathampton (Clermont) and further progress on repairs to make safe old gold mine shafts in the Gympie area.

Minerals Division officers were also involved in co-ordination of consultation for exploration and mining on Aboriginal land and they were also involved in the inter-Government committee considering the implications of the High Court decision on Native Title.

The Minerals Division has also made significant advances in reducing the backlog of mining tenure applications and bringing down processing times. This is an important element in improving the industry's access to land.

Minerals Division officers approved 213 Environmental Management Overview Strategies and 219 Plans of Operation were processed to reduce the backlog at June 1993 to zero.

The second phase of the Minerals and Energy Locational Information Network (MERLIN) began during the year making geoscience and resource data accessible through the system.

A highpoint of the year for the Energy Division was the release of a large area of Central Queensland for coal exploration. This land, covering the Bowen Basin, became available with the lifting of the former Restricted Area 55 in an exercise designed to attract interest and investment in Queensland's coal industry.

## REVIEW BY THE DIRECTOR-GENERAL

The release was made in two stages, the first stage covered all of the land except 13 special areas.

One of these 13 was set aside for ongoing research and the remaining 12 were excluded because they were considered to be of high prospectivity and so deserving of special treatment.

This special treatment included the preparation of detailed information packages on each of the 12 areas so that potential bidders (the areas will be subject to cash bids in 1993-94) for the areas can have access to all the geophysical and geological information available within the Department.

Also of interest on the energy front was the ratification of a Joint Research Agreement by the Minister and the Executive Director of Japan's New Energy and Industrial Technology Development Organisation.

The agreement established a framework for a co-operative research project between the Department and NEDO to investigate new techniques in coal exploration geophysics. It paved the way for a \$1 million Japanese investment to develop a research site at Taroborah, 20 km west of Emerald.

Queensland's energy industries continued to expand and the Department provided facilitation services for new projects, including North Goonyella mine, Ensham mine and Crinum Colliery, as well as the Stuart Oil Shale, Blackall Power Station and the South West Queensland-Moomba Gas Pipeline.

Petroleum land releases in south west and central Queensland resulted in increased exploration plans for these areas and the Petroleum Resources Branch prepared a comprehensive review of Coalbed Methane Drainage in Queensland.

The Safety in Mines Testing and Research Station (SIMTARS) made significant advances on a number of fronts during the year. Research began on a number of safety projects of vital importance in modern underground coal mining and the demand for high quality and timely testing services continued to increase.

Research grants were achieved from two new sources - the Australian Coal Association Research Program (ACARP) and BHP Australia Coal Pty Ltd and two research grants (Arc Fault Containment - Stage 2 and Frequency Characteristics of Roof Talk and Derivation of Suitable Hearing Protection Parameters) were completed.

The Electrical Testing and General Services Branch achieved accreditation by the National Association of Testing Authorities, Australia (NATA) based on the requirements of AS3902/ISO9002 and implementation of a Quality Assurance system based on AS3901/ISO9001 was well advanced in the other branches.

The new Standards Australia ExMark Scheme for Certification of Electrical Equipment for Explosive Atmospheres came into operation with SIMTARS as one of only two Approved Testing Laboratories in Australia.

Significantly improved outcomes have followed major changes to the structure of the Geological Survey which were implemented as a result of the already mentioned internal evaluation of the Division.

A project based structure which removed one layer of management is now in place. It allows greater flexibility in responding to changing client needs and focuses more closely on delivery of Program outcomes.

The National Geoscience Mapping Accord North Queensland Project was substantially progressed and mapping of the Broken River and Hodgkinson Provinces and the Kangaroo Hills Mineral Field was completed.

Mineral occurrence mapping as part of the Cape York Peninsula Land Use Study and the Hodgkinson-Broken River-Ravenswood Provinces was substantially completed.

The National Geoscience Mapping Accord Sedimentary Basins of Eastern Australia Project was substantially progressed by incorporating all existing data into the Queensland Petroleum Exploration Database and delineating the

distribution of potential petroleum source rocks and reservoir units in the subsurface.

The petroleum potential of the Galilee Basin was determined and the work has attracted interest from at least one major petroleum explorer.

In addition, geological and mineral occurrence mapping in the Anakie area successfully trialled new techniques, including an aerial geophysical survey, to speed the process of mapping and subsequent map production.

Mapping in the Gympie region was completed and a Minerals Commodity Group established to produce papers summarising knowledge of Queensland's major mineral commodities.

The Policy Division began work on the corporatisation of the Queensland electricity supply industry. It has also been responsible for the Department's input on other major policy issues, such as coal royalties, Ecologically Sustainable Development and Greenhouse Response Strategies.

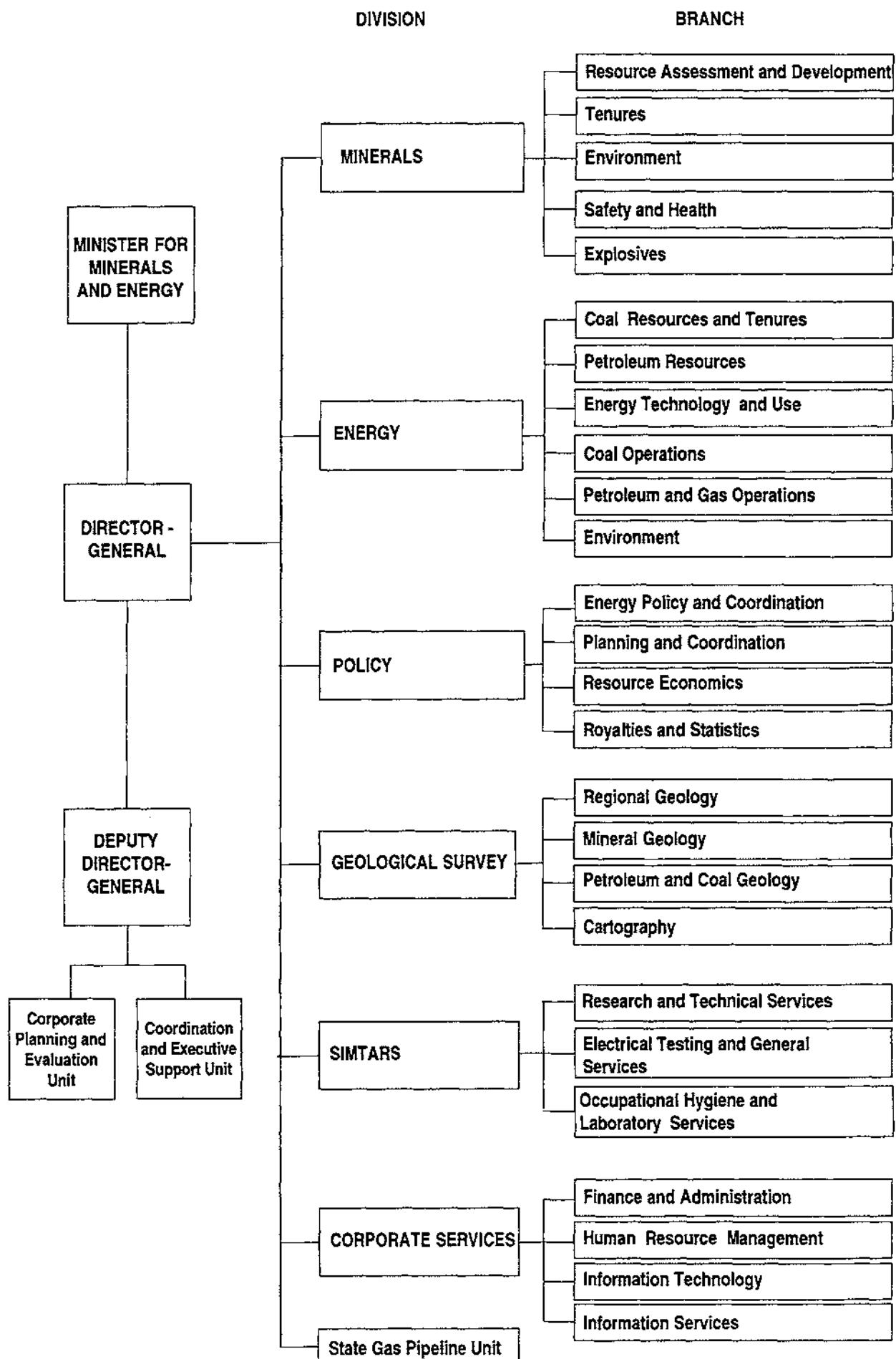
The Corporate Services Division managed the introduction of a number of major changes during the year, including 60 per cent of the recommendations of the Public Sector Management Commission Review.

Executive Performance Management and Development and Performance Planning and Review systems were also implemented and a Structural Efficiency Principle implementation was largely completed with job redesign taking place in all units.

Implementation of Freedom Of Information and Judicial Review processes were successful. To date no applicants have sought a review of decisions regarding access.

The Department has taken a practical approach to implementation by balancing the requirements for open government with the need to consider the business and personal interests of individuals about whom information is held. As part of this process, the Department's Administrative Law Co-ordinator conducted training courses in head office and at all district offices during the year.

# ORGANISATIONAL STRUCTURE



# MINERALS DIVISION

## Role

To promote increased minerals development and acceptable environmental and safety standards.

## Strategies

- To improve opportunities for responsible and sustainable development.
- To achieve a high standard of environmental, occupational safety and health performance in the minerals and explosives industries.
- To improve management principles and practices in the development of staff and use of resources.
- To enhance the quality of service to clients.

## Organisation

- Resource Assessment and Development Branch
- Tenures Branch
- Environment Branch
- Safety and Health Branch
- Explosives Branch

## Staff

153 including tenures and field officers, project officers, mining engineers, environmental officers, geologists, surveyors, policy development officers and administrative staff.

## Budget

\$9,302,000 Base  
\$4,107,000 Special Allocations



## Performance Targets

- Further reduction of the backlog of mining tenure applications and the average processing time.
- Continued implementation of an environmental management policy for mining in Queensland.
- Compilation of a mining projects data base to assist in facilitating new mineral projects and review mineral prospects for land currently restricted for mining.
- Target commodity information collection and produce individual key commodity reports.
- Technical guidelines produced to assist industry with the production of environmental plans.

## Major Achievements

- Number of mining leases granted was 418 (a small decrease on the 1991-92 figure of 503, but still, a significant improvement over the 85 granted in 1990-1991).
- Average processing time for exploration permits fell from 90 days at June 1992 to 80 days at June 1993; most new applications reach offer stage in 20 days.
- 261 Environmental Management Overview Strategies (EMOS) were received and 222 were approved.
- 193 Plans of Operation were received and 219 were processed to reduce the backlog at June 1993 to zero.
- Draft technical guidelines for environmental management of exploration and mining activities completed.
- Review of the Mines Regulation Act in progress.

## **Directions for the Future**

The target for tenure processing turn around time in 1993/94 is 20 days for presentation of an offer and 40 days for grant for exploration permits and mineral development licences, and 6 months for grant of mining leases. At any one time, no more than 80 mineral exploration permits are expected to be outstanding. Achievement of these targets will consolidate major improvements of recent years and further encourage mining investment.

It is planned to reduce the number of unprocessed mining lease applications waiting for grant to 200 by 30 June 1994. This will be a significant reduction from the 1302 outstanding in June 1991 and 324 in June 1993 and will greatly facilitate access to the State's resources. Outstanding mining lease renewals is to be reduced to 50 or less by July 1994.

In 1993/94 the majority of rehabilitation works will be complete for the Horn Island site and management arrangements will progress for rehabilitation of the Mount Morgan site.

As of 30 June 1993 the Minerals Program had 39 Environmental Management Overview Strategies (EMOS's) still to be approved. The target for 1993/94 is to process EMOS's at a rate exceeding average monthly inflow and thereby allow the backlog to be reduced.

The target is for 60% of the metalliferous mines to be conforming to the environmental policy by 30 June 1994 with at least 35% of all mines having fully integrated rehabilitation and water management systems in place by that date.

The lost time injury frequency rate at metalliferous mines and quarries will be targeted for a reduction to 15 in 1993/94. An estimated 300 audits are planned for 1993/94 compared with 242 audits in 1992/93. The Safety database will be fully operational by 30 June 1994.

Draft proposals arising from the review of health and safety legislation applying to metalliferous mining and quarrying are expected to be available for public comment by 31 March 1994.

An estimated 100 shafts will be capped in Gympie under the shaft capping project.

The Explosives Inspectorate is expected to undertake 550 audits in 1993/94 compared with an estimated 400 in 1992/93 and 450 in 1991/92. The target is to have no accidents or incidents related to explosives. The Government Explosives Reserves will operate on a full cost recovery basis in 1993/94.

Working with other State agencies, the Division will contribute to the development of policies aimed at addressing native title issues.

## **RESOURCE ASSESSMENT AND DEVELOPMENT BRANCH**

### **Role**

**To improve opportunities for responsible minerals development.**

### **Strategies**

- Provide timely and efficient processing of exploration and mining development tenure.
- Develop effective arrangements for land access for the mining industry and protection of resources.
- Facilitate mining projects.

### **Review of Activities**

During the year 633 applications for Exploration Permits (Minerals) were received. Of these, 155 were abandoned or rejected. The number of Exploration Permits (Minerals) granted was 433. At June 30, 1993, 881 Exploration Permits (Minerals) were held over 46 385 sub-blocks.

The average processing time to grant exploration permit applications was reduced from 90 days at the end of the previous period to 80 days. However, the majority of new applications are being processed to offer stage in about 20 days.

Overall, the number of Exploration Permit (Minerals) applications outstanding was reduced to 154. About 40 of these involve offshore applications or are on Aboriginal land (Aboriginal Land Act 1991) and cannot be progressed at this time. Also, at any time, generally 80 to 90 are awaiting company action in regard to payment of security and/or acceptance of the Exploration Permit (Minerals) offer.

During the year, 7 applications for Mineral Development Licences were received and 12 granted. All outstanding Mineral Development Licences have been processed.

Terms for 617 mining leases (applications and renewals) were set with an individual maximum processing time of 5 days.

Access to land for exploration purposes remained a major priority for the Branch. As a result of the revocation or amendment of 13 restricted areas, 3,414 sub-blocks or approximately 1.1 million hectares were made available for exploration and other mining purposes. In addition, a review of the current 207 restricted areas was completed and it is likely that up to 40 restricted areas will be either revoked or amended during the 1993/94 period.

The Branch continued to assess new National Park and Conservation Park (formerly Environmental Parks) proposals to minimise the sterilisation of mineralised ground and to scrutinise and comment on other land use proposals that have potential to alienate land to mining. In 1992-93 the Branch assessed 48 of the abovementioned parks.

Comments were provided on more than 50 Local Government Planning Schemes to assist in protection of extractive material resources.

Negotiations began with land owners and local authorities in relation to the establishment of 3 new Fossicking Areas at Yowah, Seven Mile Digging (Nanango) and Thanes Creek (Warwick).

Significant involvement in resource access issues continued with the Branch being involved in negotiations with industry, other government departments and client groups. The highly mineralised "North West Province" attracted much attention with interest centred on the prospective silver, lead, zinc and copper projects around Mount

Isa and Cloncurry. Continued involvement was provided for the Century, Cannington, Dugald River, Osborne and Ernest Henry projects. In relation to these projects, assistance was provided to the Carpentaria/Mount Isa Minerals Province Study. The Branch contributed to the "Common User Lands Working Group" that is investigating infrastructure use for the region.

On-going assistance was provided to the Bayfield and Middle Island titanium minerals projects. At Agnes Water the Branch mediated in a dispute between the Local Authority and the mining company. As a result, an agreement has been drafted that should be acceptable to both parties and Government.

The Commonwealth Government issued 5 mining leases at Shoalwater Bay and co-ordination of the administration of the mining leases began under the terms of a Commonwealth/State/company agreement.

A project to restore the exterior of Parliament House with similar stone was assisted by aiding access to the site where the original stone was mined.

Dealings with liquidators to maximise returns to the Department to be used for site rehabilitation were completed for two mining companies.

The Branch had input into numerous external studies with the more important being the RAC Coastal Zone Inquiry, Weipa Normalisation, Inskip Point land use, Greenvale Town and railway line decommissioning and the Curtis Coast Study. A Policy Paper on extractive materials was prepared for the SEQ 2001 Study and a lead agency role was taken for the Commonwealth Government's Shoalwater Bay Inquiry. Field work was completed for the Broken River land use study.

Work continued on a Code of Conduct for explorers and miners on Aboriginal land and the Branch has facilitated a number of proposals involving DOGIT land. Major input has been provided towards resolving the implications of native title to the mining industry as a result of the Mabo High Court decision.

Input was provided to the preparation of the Coastal Protection Act, amendments to the Water Act, and

Commonwealth onshore and offshore minerals legislation. The Fossicking Act was reviewed and drafting instructions prepared for the Parliamentary Counsel.

The Branch continued to provide client assistance in regard to facilitating the development of mining projects.

## **TENURES BRANCH**

### **Role**

**To enhance the administration of mining tenures to meet the needs of industry and the community.**

### **Strategies**

- Facilitate the processing of applications for prospecting, exploration and mining tenures and provide advice to applicants on the procedural requirements relevant to legislation and policy.
- Review legislation, operational policy and procedures for prospecting, exploration and mining.
- Provide Warden's Courts services, manage the Department's District Offices and regularly review their functions, resources and performance.
- Maintain registers of prospecting, exploration and mining tenures including dealings for legal, industry and community needs.
- Provide immediate advice to industry on the availability of land for prospecting, exploration and mining purposes.
- Control tenure rentals, security deposits and fees, and accept lodgement of royalty returns and payments.
- Maintain a state-wide computer network at District Offices for the timely management of

all tenures, ensure data integrity and further develop the system to improve performance and design.

- Undertake preliminary assessment and approval of EMOS and plans of operation within prescribed delegated authority.
- Issue permits, instruments of lease and licences.
- Provide cartographic and surveying services regarding mining tenures.

### **Review of Activities**

The major focus was on streamlining the administrative procedures and on monitoring applications to achieve performance targets and improve effectiveness. The focus has brought about a large reduction in pending applications which has benefited industry.

The 10 District Offices shared an increasing workload and provided a diverse amount of current information at the local level. Increased field presence has reduced the number of complaints received and has worked well both from an industry and landowner point of view. District staff were provided with educational workshops on environmental matters which will assist them in providing advice to our clients.

Workstations in each District Office and the Head Office system were upgraded. This has provided an increase in processing speed and productivity.

The final edition of QUEST, which was first available in 1985, was produced in January, 1993. QUEST has now replaced the hardcopy QUEST maps and listings with floppy disks containing Exploration Permit data for the State. Hard copy tenure locational plots for external clients were discontinued from May and replaced by Tenure Plot Files available on floppy disks suitable for graphic software packages.

A program for the capture of historical spacial tenure information began in April. When completed the graphical location of past mining tenures will be available through the MTDB and GRDB GIS systems. This will assist greatly with property searches of which 3248 were requested during the year.

Less emphasis was placed on field surveys this year, however the following work was undertaken:

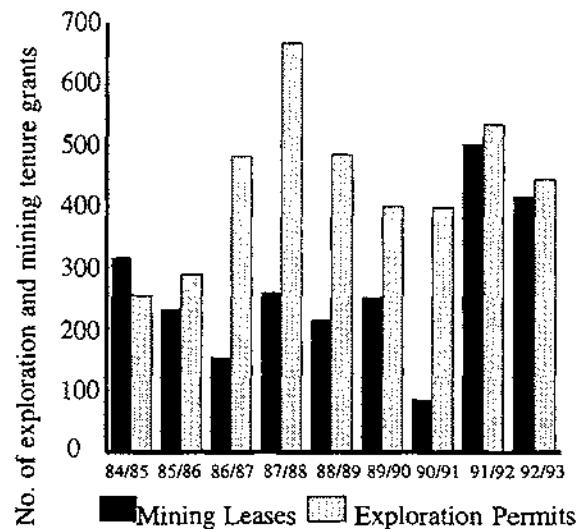
- A fossicking area at Yowah.
- A small subsidence investigation at Bundamba.
- Several surveys for the partial surrender of mining leases to accommodate the new National Park on Stradbroke Island.

The Gympie Shaft Repair Project continued to occupy most of the field time for one surveyor and district surveyors spent an increasing amount of time on field officer related duties.

A total of 199 survey plans were examined and registered, including 61 petroleum well location plans.

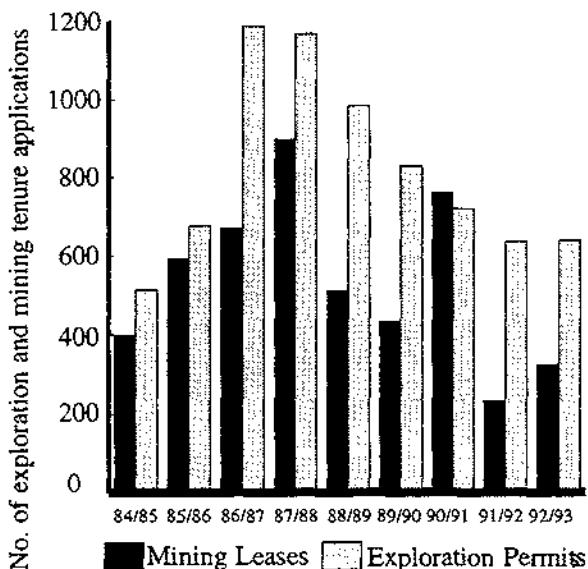
A staff member was engaged on the updating of the Queensland Surveyors Board's Operational Manual and discussions have commenced with the Institution of Surveyors for the Tenures Locational Information Section to be involved in a program for the training of private surveyors to carry out mining tenure surveys.

### **MINERAL TENURE GRANTS**

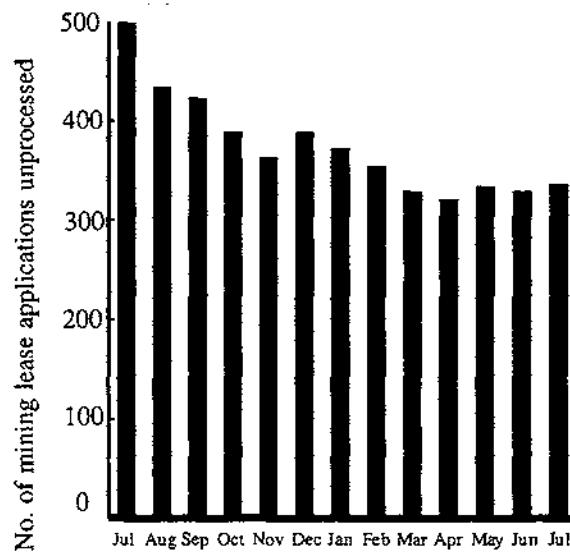


High priority given to the granting of mining leases resulted in a reduction in the number of unprocessed applications from 499 at 1 July 1992 to 336 at 30 June 1993. Similarly unprocessed mining lease renewal applications were reduced from 466 at 1 July 1992 to 176 at 30 June 1993.

### **MINERAL TENURE APPLICATIONS**



### **MINING LEASE APPLICATIONS UNPROCESSED Backlog Reduction 1992-93**



## ENVIRONMENT BRANCH

### Role

**To promote a high standard of performance in environmental management by the exploration and mining industries in Queensland.**

### Strategies

- Encourage environmental responsibility in prospecting, exploring and mining.
- Develop administrative procedures within the overall framework of industry self-regulation.
- Promote the role of the Department in providing a "one-stop-shop" for approval mechanisms.
- Guide the environmental assessment process for proposed developments.
- Advise industry with regard to the avoidance and management of land contamination.
- Encourage research into technical aspects of environmental management.

### Review of Activities

Implementation of the Environment Policy continued, with the objective of achieving full industry conformity by the end of 1997.

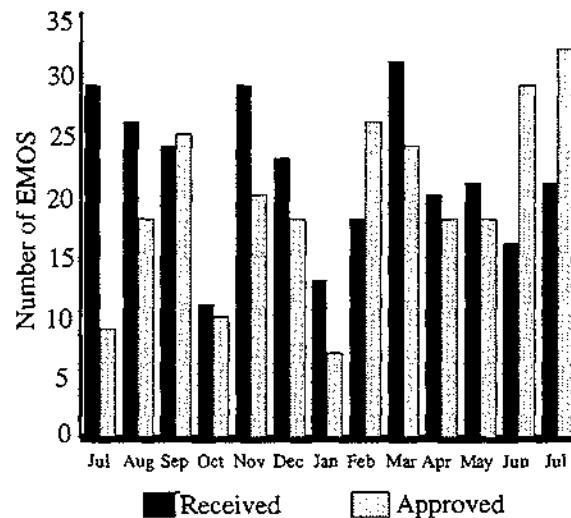
The Branch continued liaison with industry providing advice on both procedural and technical matters.

Draft technical guidelines were developed in consultation with the industry, other government departments and academics, and released for public/industry comment in June.

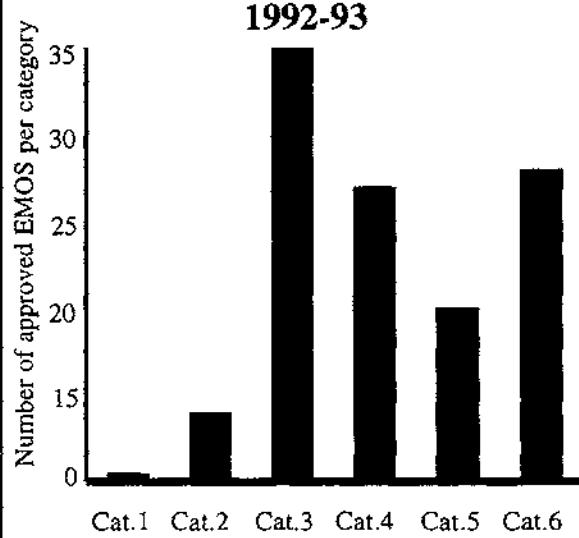
In order to assist the industry to comply with the new environmental processes, several guidelines were developed, including one on environmental auditing. A model Environmental Management Overview Strategy (EMOS) and a model Plan of Operations were also developed, as was a model environmental audit report.

The Branch approved 222 EMOSs for metalliferous mining projects. The accompanying graphs provide an estimate of the number of approved EMOSs for the year in each performance category for security deposits.

**EMOS TRANSACTIONS  
1992-93**



**PERFORMANCE CATEGORIES  
FOR APPROVED EMOS**



The Department, in collaboration with the Queensland Mining Council, launched the inaugural Premier's awards for Environmental Excellence highlighting the industry's achievements in the area. The first of these awards - which will be made each year - will be announced during Queensland Mining Week early in 1993/94. The Branch is responsible for managing the Awards process.

Decommissioning and rehabilitation programs continued at a number of former mine sites, most notably Horn Island, Mount Morgan and Agricola. Negotiations concerning the Mount Morgan site resulted in the leases being taken over by a joint venture interested in exploring the site's potential for re-working existing tailings and waste rock.

The two Environment Branches of the Department conducted a series of miner information seminars in Emerald, Rockhampton, Brisbane, Mount Isa, Charters Towers and Cairns in early June 1993. These seminars are an important means of communicating in a broad-based way with the industry. District Office seminars were held prior to the industry seminar program. Small miner workshops were held at Mt Isa, Palmer River, Georgetown and Mareeba.

## SAFETY AND HEALTH BRANCH

### Role

**To work with industry to achieve an accelerated reduction in workplace injuries and to secure the safety and health of employees at mines and quarries, and of people affected by the operations.**

### Strategies

- Administer the provisions of the Mines Regulation Act 1964.
- Set appropriate safety and health standards for metalliferous mines and quarries, and investigate and monitor accidents, incidents and complaints.

- Inspect and audit safety and health performance at metalliferous mines and quarries.
- Provide advice, information and guidance on mining methods and technology to the industry, Government and the public.
- Collate and disseminate data on lost time injuries and diseases in mines and quarries.
- Manage the Gympie Shaft Repair Project.

### Review of Activities

The year saw a further refinement of the auditing system as a means of improving health performance at mines and quarries. A trial of a more in-depth auditing system for large mines was carried on a number of different locations at the Isa mines complex. A total of 242 audits and 1359 inspections were conducted during the period compared with 241 audits and 1716 inspections during the previous year.

Development of the Queensland Mining Industry Lost-Time Injury and Disease Database and recording system continued throughout the period. This database was adapted from an earlier version which has served the coal mining industry in Queensland since 1983. Modifications were made to bring the database substantially into line with the current (1990) Australian Standard on workplace injury and disease recording and to include data from metalliferous mines and quarries.

Investigations into 59 accidents, incidents and complaints were conducted. The Inspectorate assisted the Mining Warden in an inquiry into a fatal accident at an underground mine.

A total of 30 complaints about blasting were received from the public and investigated.

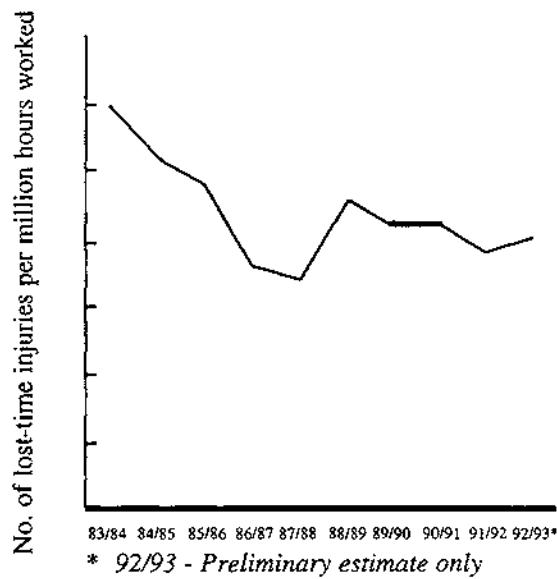
A total of 174 investigations or examinations were conducted for approvals and authorisations, the major portion being for authorisations to fire shots.

Three alleged breaches of the Mines Regulation Act and six breaches of Regulations were investigated. These investigations resulted in one unsuccessful and four successful prosecutions.

One fatal accident occurred at a mine. A total of 361 accidents resulting in lost-time injury were reported, 317 from mines and 44 from quarries and other excavations subject to the Mines Regulation Act. These figures are preliminary for the year and are still to be confirmed.

The lost-time injury frequency rate is expected to be slightly more than the 1991-92 level of 18 lost time injuries per million hours worked. An inspectorate check revealed a number of accident reports which had not been submitted for input into the data base. These reports are still outstanding and they are expected to now marginally increase the frequency rate.

### LOST-TIME INJURY RATE Qld Metalliferous Mines and Quarries



Twelve Industry Awareness Seminars were conducted at Mt Isa and surrounding mining areas to raise managers' awareness of the Mines Regulation Act and of safety and health management. A combined Safety Awareness and Environment Seminar was conducted for the benefit of small mine operators in the Georgetown district.

The review of the Mines Regulation Act 1964 and the Metalliferous Mining Regulations 1985 began during the year. It is being progressed under the guidance of a tripartite steering committee consisting of representatives from mining and

quarrying industries, unions and the Department. The framework for review established by the Business Regulations Review Unit is being followed.

At Gympie 251 excavations were made to search for suspected shafts of which 130 located shafts required concrete capping to make them safe. The total cappings to date are 312. Major repairs to sites under buildings and roadways required a higher degree of expertise and added expense.

In the last financial year \$1.58 million was spent on the Gympie Shaft Repair Project which involves finding and capping potentially dangerous old shafts with reinforced concrete.

The project to date has cost \$3.1 million and Cabinet has approved in principle the expenditure for a further three years at an estimated cost of \$1.25 million a year.

### EXPLOSIVES BRANCH

#### Role

To increase safety of storage, handling and use of explosives and related materials.

#### Strategies

- Establish acceptable safety standards of operation at explosives handling locations.
- Monitor/audit compliance with established safety standards at all identified locations.
- Improve public awareness of explosives and their associated hazards.
- Provide expert technical and safety advice on explosives and related matters.
- Provide an efficient system of Government Explosives Reserves.
- Provide effective emergency response to explosives accidents/incidents.

## Review of Activities

The Explosives Branch worked closely with Standards Australia, industry and Government agencies in establishing standards within the Explosives area. During the year, the Australian Standard relating to use of explosives was finalised for publication, while work on standards covering storage of explosives and fireworks displays continued to a limited extent. The National Code for the Transport of Explosives by Road and Rail continued to be updated with all national authorities, industry, emergency services and Defence being involved. The Code was adopted into Queensland explosives legislation in May 1993.

All manufacturing facilities were audited once during the year while other locations are monitored less frequently.

One new explosives manufacturing facility was established at Charters Towers, while extensions to existing facilities occurred at Helidon and Bajool.

The Minister participated in a special ceremony at Helidon to present the General Manager and Staff of Initiating Explosives Systems Pty Ltd with their company's accreditation for quality management by Australian Standards Association to comply with AS3901 and AS3902.

The other manufacturing companies Dyno Wesfarmers Limited, ICI Australia Operations Pty Ltd, Total Energy Systems Limited, ERT Explosives Australia Pty Limited and Extech Pty Ltd are all working towards accreditation on quality management to AS3901 and AS3902.

While imports of explosives by sea and air were monitored during the year, there was a significant increase in the quantities of explosives exported from Queensland to overseas locations, including South East Asia, United States and New Zealand.

The Explosives Inspectorate continued to provide lectures and demonstrations to emergency service groups, schools and other community groups to create an awareness of the hazards associated with explosives. All police cadets received relevant education through the Academy at Oxley in Brisbane while Joint Emergency Services Training

groups and Response Advice for Chemical Emergencies groups received presentations arranged through the Bureau of Emergency Services. Information Bulletins were prepared to alert industry on hazards associated with Shock Tube Detonators and Use of Explosives in Reactive Ores and to advise of changes in requirements for transportation of detonators with other explosives.

The Branch has a 24-hour emergency telephone network by which Inspectors can be contacted for advice on explosives matters. During the year numerous requests for advice were answered and a free recovery and disposal service for explosives was provided to encourage use of that service and hence improve community safety.

Government Explosives Reserves provided independent storage of explosives services for the industry on a cost recovery basis. A review of their operation was carried out during the year with options being explored to ensure efficient services while maintaining the safety benefits provided by these Reserves.

While there were fourteen incidents involving explosives during the year, only two of these resulted in injuries. In both these cases detonators were involved and were being used by unauthorised people.

The injuries in both cases resulted in serious impairment to hands and are tragic reminders of the inherent hazards associated with explosives. These two accidents compare with one in 1991/92 and three in 1990/91.

There was one prosecution for illegal storage of explosives during the year with emphasis again being placed on advising those involved with explosives to remember their safety obligations to the community in their handling of these dangerous materials.

# ENERGY DIVISION

## Role

**To manage responsibly and efficiently the development and use of Queensland's energy resources.**

## Strategies

- Create a favourable climate for exploration and development of the State's energy resources.
- Ensure responsible environmental management of production and use of energy resources.
- Ensure acceptable health and safety standards for coal mining, petroleum production and gas operations are established and practised.
- Foster a climate favourable for the responsible and efficient use of energy.
- Achieve Divisional goals through effective leadership, management and motivation of staff.

## Organisation

- Coal Resources and Tenures Branch
- Coal Operations Branch
- Petroleum Resources Branch
- Petroleum and Gas Operations Branch
- Energy Technology and Use Branch
- Environment Branch

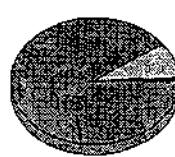
(Departmental input to the Board of Examiners and the Mines Rescue Brigade is provided by this Division).

## Staff

60 including administration officers, professional officers (engineers, geologists, geophysicists, environmental and chemical scientists), technical officers and operations officers.

## Budget

\$5,394,000 Base  
\$ 492,000 Special Allocation



## Performance Targets

- Reduction in average tenures processing times to 12 months for Mining Leases and 3 months for Exploration Permits.
- Tenures renewal backlogs removed.
- The release of coal area RA55 finalised and promoted.
- New legislation for coal-bed methane extraction drafted.
- Technical guidelines for environmental management produced in conjunction with Minerals Division.
- Application of risk management systems to health and safety in coal mines developed.
- Business Regulation Review Unit timelines for review of the Petroleum Act met.
- Lost time injury frequency rate for the coal industry to be below 20 by June 1993.
- Gas strategy in place which guarantees gas supply for SE Queensland into the next century.
- 5% reduction in Government electricity consumption in target sites.
- Create a comprehensive safety auditing system for major gas installations.

### Major Achievements

- Restrictions on exploration and mining in Central Queensland were removed with the revocation of Restricted Area (RA) 55 - the Central Queensland Coal Area. The second phase of the release involves 12 areas being offered for cash bid in 1993/94.
- Detailed technical and commercial information was prepared by consultants working with Departmental staff, to maximise interest in the areas being offered for cash bids. An international promotional effort, including Ministerial visits to the United Kingdom, Japan, Korea, Hong Kong, China and Taiwan, was undertaken.
- Facilitation services were provided for new projects including North Goonyella mine, Ensham mine, Crinum Colliery, Stuart Oil Shale, Blackall Power Station and the South West Queensland - Moomba Gas Pipeline.
- A study into coal mine longwall respirable dust was completed, resulting in a measurable reduction in respirable dust exposure by workers on longwall faces.
- Substantial progress was made on a comprehensive review of the Coal Mining Act and Rules.
- Petroleum land releases in southwest and central Queensland resulted in increased exploration commitments for these areas.
- A safety audit program of major gas terminals was progressed.
- In gas licensing, the requirements of the Mutual Recognition Act were implemented.
- The gas safety education program was substantially expanded.
- Gas industry liaison initiatives were extended to include meetings in regional centres.
- The Government Energy Management Program progressed by distributing information on energy savings and cooperating with Administrative Services Department in conducting site surveys.
- Adequacy of future gas supplies for eastern Queensland markets continued to be closely monitored. The Division worked with industry investigating the viability of gas delivery from South West Queensland.
- The Queensland Centre for Advanced Technologies, built with a contribution of \$20 million from the Queensland Government, was opened at Pinjarra Hills, Brisbane, in October. Staff of the Energy Division co-ordinated the Government's interests in the project during the establishment phase.
- The Energy Information Centre achieved a 44% increase in client enquiries.
- Staff contributed to the preparation of draft Technical Guidelines which will provide industry with advice and assistance on the issues of minesite rehabilitation, water management and environmental planning.
- An intragovernmental liaison group was established to improve co-ordination of Government activities in relation to coal mining environmental issues.
- Mining Lease applications awaiting grant fell from 37 in June 1992 to 18 in June 1993. The backlog in exploration permit applications was eliminated.
- Exploration expenditure for coal increased by more than 50% and for petroleum by approximately 20%, despite generally adverse worldwide economic conditions.
- Lost Time Injury Frequency Rates at coal mines fell by approximately 9% overall (6% for opencut mines and 25% for underground mines).
- Notifiable accidents under the Gas Act decreased by around 40% to a total of 29.
- 47% of all coal mines had an approved Environmental Management Overview Strategy by June 1993, compared with zero 12 months ago.

### Directions For The Future

The Division will generate substantial revenue for Queensland through the release of RA 55. The total of bids is expected to be in the tens of millions of dollars. Substantial bids are expected for the more prospective areas. The potential for mining and subsequently an improvement in the economy of Queensland through increased coal exports, jobs, royalties, rail freight and continued regional development in central Queensland is significant.

Following the closure of applications for RA 55 areas, the emphasis for the Division will be project facilitation to ensure the maximum possible transition from potential to reality. The target is to achieve at least one new coal mine within RA 55 by 1996/97.

The environmental performance of industry will be improved. All operating coal mines will have acceptable environmental management plans by July 1994 with 50% having water management systems in place.

A Gas Strategy will be developed and in place by June 30 1994. This strategy will ensure gas supplies for Queensland and address the problem of diminishing supply from the Surat Basin. Coal bed methane studies will accelerate and policy changes which will facilitate development of this resource will be completed by October 1993.

A comprehensive review of legislation administered by the program will be completed, with a revised Petroleum Act being prepared by June 1994.

The backlog for new Mining Leases will be reduced to zero by July 1994 with an average processing time of 9 months or better (15 months if IAS required). Renewals backlog at July 1994 will be reduced to zero.

There is to be no backlog for new mineral development licences and processing time will be 2 months or better. There will be no renewals backlog.

Offers will be made for Exploration Permits and Authorities to Prospect within 20 working days for non-competitive applications and 40 days for competitive applications. The corresponding targets for grant of title (following acceptance of offer by

the applicant) will be 60 days and 80 days respectively. (RA 55 bids will be processed outside of these targets).

Health and Safety aspects of Queensland mines will be further enhanced through Inspectorate activities. The lost time injury frequency rate target for July 1994 is 30 for open cut mines and 65 for underground mines. After audit training in October, the target is to carry out at least 2 audits per month with at least 100 staff days of field inspections.

### COAL RESOURCES AND TENURES BRANCH

#### Role

**To promote efficient and responsible exploration and development of coal and oil shale resources in Queensland.**

#### Strategies

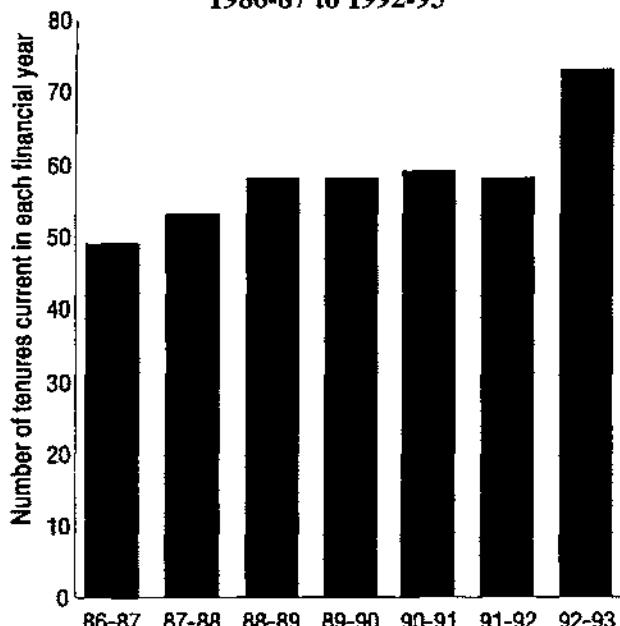
- Provide government, industry and the community with authoritative advice on technical matters, policy, procedures and standards.
- Ensure that legislation and administrative systems are efficient, responsive and appropriate to industry and community needs.
- Manage and administer energy titles and tenures.
- Provide leadership and support in the development of new coal and oil shale projects through liaison with industry and other government Departments.
- Ensure responsible management of coal and oil shale resources to meet future requirements.
- Develop and promote strategies to link coal resources and utilisation opportunities.

## Review of Activities

Technical information and advice concerning coal resource exploration and development was provided to external clients including mining companies, Government departments, investors and the general public. Presentations were made during the year to several visiting delegations from Japan, China and Germany.

Effective management of coal and oil shale exploration titles was maintained by monitoring and assessing company exploration work and negotiating conditions.

**Coal Exploration Permits  
1986-87 to 1992-93**

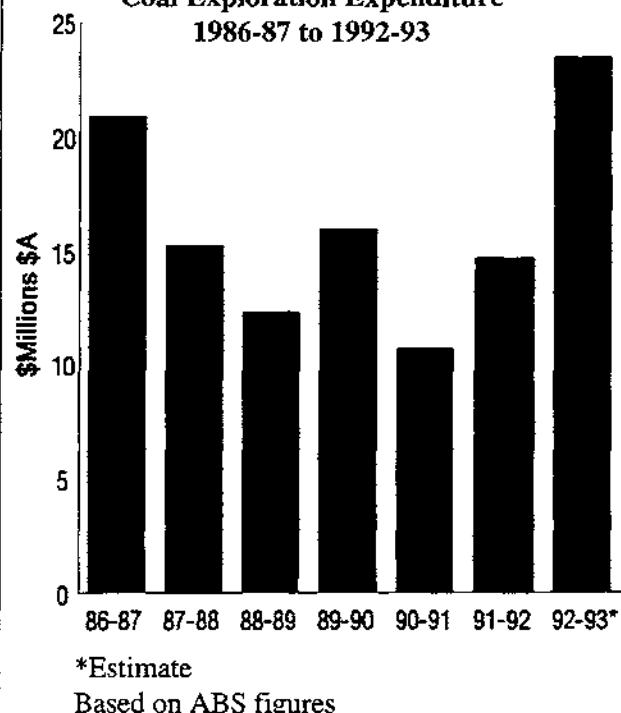


"Authority to Prospect" replaced by Exploration Permits from 1 September 1990.

In the administration of Mining Leases great emphasis was placed on reducing the backlog of lease applications. A review of standard conditions of Mining Leases was completed. Legislative amendments to the Mineral Resources Act will facilitate the granting of outstanding renewals for Mining Leases.

A position paper was prepared reviewing the current Mineral Development Licence rental charges. This was done with a view to setting rental charges at a more realistic level reflecting the large areas characteristic of coal and oil shale deposits compared with metalliferous orebodies.

**Coal Exploration Expenditure  
1986-87 to 1992-93\***



The level of coal industry exploration increased significantly with expenditure increasing by more than 50% from the previous year to approximately \$23M. Fifteen new Exploration Permits were granted during the year, most arising from the first part of the Central Queensland Coal Exploration Land Release initiative.

During the year the Branch developed and implemented changes associated with the revised arrangements for administration of the Central Queensland Coal Area - RA55. A major activity for the Branch centred on the compilation of an Initial Advice Document and Technical Information Packages associated with the release of 12 specific areas of high interest, to be made available for tender in 1993/94.

An exhibition display stand and video presentation (translated into Japanese, Korean and Mandarin) were prepared to support the international production of this release.

The Branch continued its active involvement in developing Australian Standards in the coal industry, participating in specialist working groups.

A study of coal resources of the Moreton Basin of south-east Queensland was completed. The study

included a review of all previous company and Government exploration carried out within the province and identified existing coal mines and the location of major coal resources within the basin. The study is in the final editing stages prior to publication in 1993-94.

The Branch had a continued involvement in providing coal resources advice relating to land use impact assessment throughout Queensland. The Branch also undertook an assessment of the coal resources of the West Moreton area to assist planning policy decisions in relation to future urban development.

The Branch is also involved in a Joint Research Project with Japan's New Energy and Industrial Development Organisation (NEDO) and the Department at Taroborah in Central Queensland. Officers are assisting research into technology for innovative geophysical exploration of coal deposits. The Branch has a commitment for the next three years to assist the research program by providing technical and logistical support.

The Branch facilitated Stage I development of the Stuart Oil Shale Project by finalising the Terms of Reference for the Environmental Impact Assessment study. This study has been completed and the mining lease application will be heard early in 1993-94. If the mining lease is granted the company is expected to make an early commitment to project development involving construction of a mine and associated shale oil production plant.

## **COAL OPERATIONS BRANCH**

### **Role**

**To ensure that acceptable health and safety standards are established and practised by the coal mining industry.**

### **Strategies**

- Contribute to the formulation and introduction of a new Coal Mining Bill with minimum delays.
- Initiate activities to improve industry safety performance by 5% per year.
- Maintenance of safe standards in areas of special risk.
- Provision of support to the industry in case of emergencies.
- Investigation of serious accidents and incidents.
- Provision of advice and information to Government, industry and the public on coal mining health and safety matters.
- Participation in the development of appropriate health and safety standards.
- Development and maintenance of the technical and managerial skill of staff.

### **Review of Activities**

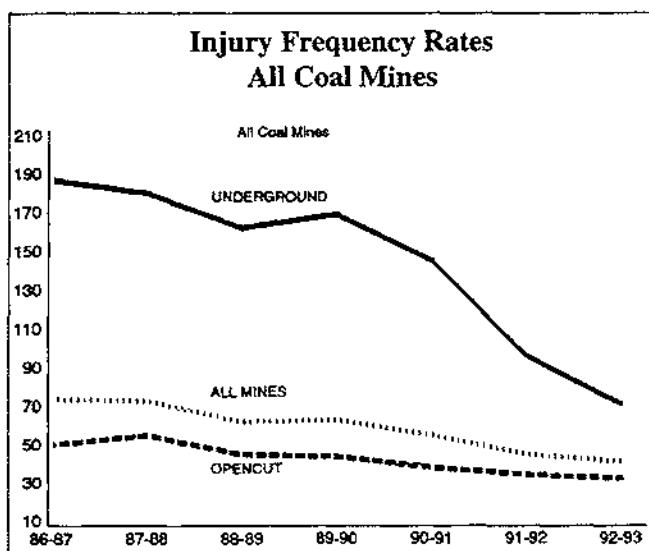
In all, 40 coal mines are currently operating, 25 open-cut and 15 underground. Two new underground mines opened in the year, the North Goonyella No. 1 Mine and the Crinum Mine, both in the Bowen Basin.

Mine audits, safety inspections, underground dust samples for analysis, airborne dust samples and noise monitoring continued during the period with high risk areas being brought to the attention of management.

Written answers to 3634 undermining enquiries were provided to clients of the West Moreton, Burnum and Oaky Areas, with the majority occurring around the Ipswich/Rosewood areas.

Inspectors continued to assist mines to improve their safety performance, with the general trend for lost time injuries showing an improvement of about 9% during 1992/93.

One fatal accident occurred in the coal mining industry during this period at Gregory open-cut coal mine where a contractor fell from a CAT D11 Dozer being assembled in the mine workshop.



A longwall respirable dust study jointly organised by Industry, SIMTARS and the Department increased the awareness of the air-borne dust hazard on longwall faces in Queensland. It resulted in a measurable reduction in the dust exposure levels experienced by workers on longwall faces.

A 24 hours per day 365 days per year emergency support facility was provided to all mines. No operating emergencies occurred during this period.

The Inspectorate was actively involved on committees detailing proposals for new Regulations to replace the current Coal Mining Act Rules.

New legislation was introduced to the General Rules for Open-cut Coal Mines, Coal Mining Act to facilitate the introduction of highwall mining technology.

Trials using the American "Addington" system, which uses remotely controlled continuous miners have commenced. This is the first use of this technology in Australia, which has the potential to extend the life expectancy of open-cut coal mines in Queensland by 10 to 30 years.

Responsibility for the Board of Examiners was transferred to the Energy Division during 1992-93, recognising the fact that the majority of the Board's clients come from the coal industry.

The Board of Examiners, together with the Coal Operations Branch, began production of a quarterly Mining Safety Newsletter.

## ENVIRONMENT BRANCH

### Role

**To ensure that development of the State's energy resources is conducted in an environmentally responsible manner.**

### Strategies

- Secure acceptable Environmental Management Overview Strategy (EMOS), Plans of Operations, Environmental Impact Statement's (EISs) and securities for the coal mining industry.
- Ensure conditions on mining leases and other mineral tenements are responsible and achievable.
- Ensure coal mining operations comply with lease conditions and other environment protection legislation.
- Improve the existing environmental performance of the mining industry in areas of concern to government and community.
- Provide authoritative technical and policy advice to the Minister and senior departmental management.

## Review of Activities

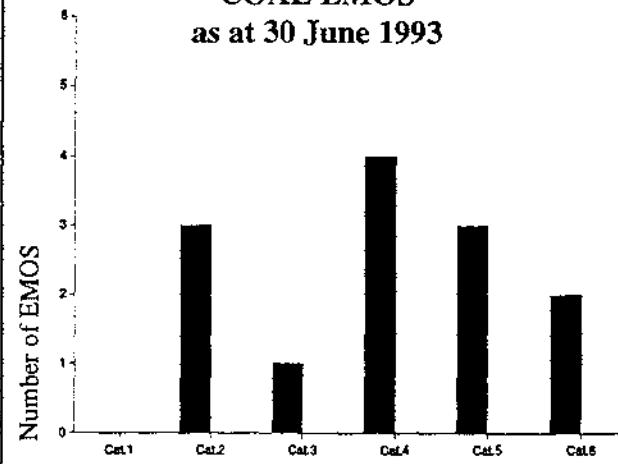
The Branch played a major role in implementing the Government's Environmental Management Policy for Mining, and has negotiated 20 acceptable EMOS's and 13 Plans of Operations under the terms of the Policy. So far, the Branch has commitments from coal mining companies for \$48.7 million security to cover the rehabilitation liability of these 13 operations (increased from \$5.4 million prior to implementation of the policy).

The Branch managed 5 Environmental Impact Assessment Processes: a new Jeebropilly Coal mining lease; the proposed Gordonstone West Coal Project; the Stuart Oil Shale Project; the Blackall Power Station and the South West Queensland Gas Pipeline Project.

Branch members contributed to the development and launch of the Draft Technical Guidelines for environmental management for mining in Queensland. The Technical Guidelines were developed to assist and provide advice to Industry about rehabilitation, water management and environmental planning.

Staff made presentations to the Mining Industry, landowners and other interested groups to advise and assess progress of the implementation of the Environmental Management Policy for the Queensland mining industry.

### PERFORMANCE CATEGORIES COAL EMOS as at 30 June 1993



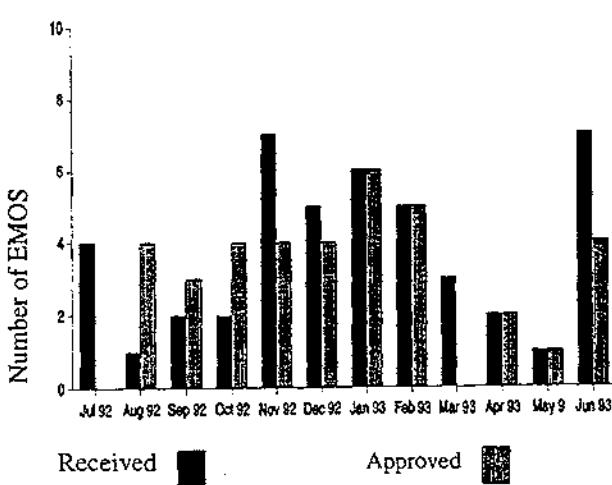
Through careful EMOS and Plan of Operation negotiations and site inspections, Branch staff have been ensuring that mining companies comply with lease conditions and other environmental protection legislation. Where the lease conditions are no longer appropriate, the Branch will seek Governor-In-Council approval to vary the conditions to take account of up-to-date standards, methods and practices. The Branch processed lease renewals and applications, at the same time ensuring that conditions on mining leases and other mineral tenements were responsible and achievable.

Branch members spent 80 days in the field conducting site inspections of coal mines and gas and petroleum developments.

The Branch established a cooperative arrangement with the Coal Operations Branch in which Mines Inspectors will carry out an 'eyes and ears' role involving environmental issues at mine sites. This action is to supplement the Environment Branch's own site inspections.

The Branch initiated an Intragovernmental Liaison Group comprising the Department of Minerals and Energy, Department of Primary Industries, Water Resources Commission and Department of Environment and Heritage to coordinate licensing and exchange information on mine site rehabilitation and environmental protection. The Branch has been actively involved with the Department of Environment and Heritage's process of developing Water Discharge Licences for coal mines.

### EMOS TRANSACTIONS Coal - 1992-93



## PETROLEUM RESOURCES BRANCH

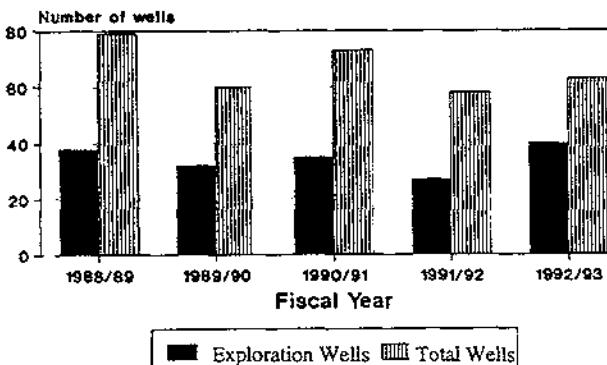
### Role

**To promote the safe and efficient exploration for and production of petroleum in Queensland.**

### Strategies

- Maintenance of appropriate knowledge of the State's petroleum resources.
- Provision of leadership and support in the development of new oil and gas projects.
- Setting conditions for grant and renewal of petroleum titles and tenures.
- Ensuring that legislation is efficient, responsive and appropriate to industry and community needs.
- Providing timely and authoritative advice to Government, industry and the community on petroleum policy, procedures and standards.
- Ensuring acceptable health and safety standards for petroleum exploration and production are established and practised.

### Petroleum Exploration Wells



### Review of Activities

Presentations on the coal seam gas (unconventional petroleum) potential in Queensland were made to several companies/organisations including Enron, MGC and NEDO (from Japan).

As part of the review of the Petroleum Act 1923, current explorers, producers, pipeline operators, contractors and consultants were formally requested to submit proposals on the legislation.

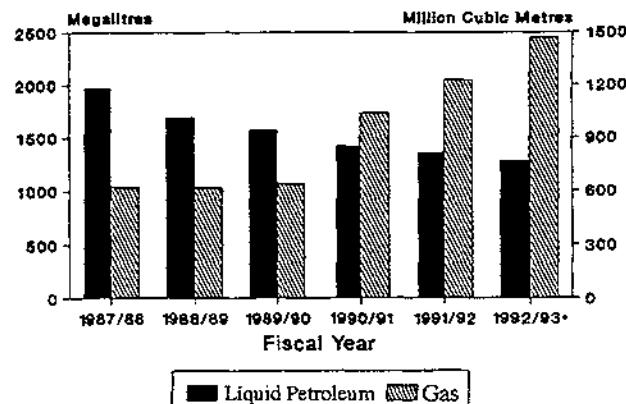
The Branch represented the Department in ANZMEC Offshore and Onshore Legislation Sub-Committees.

Overall levels of petroleum exploration during 1992/93 were constrained by low oil prices and global economic conditions which restricted the availability of exploration funds.

Despite these difficult conditions, the Branch successfully promoted new exploration areas, and levels of activity in the industry increased.

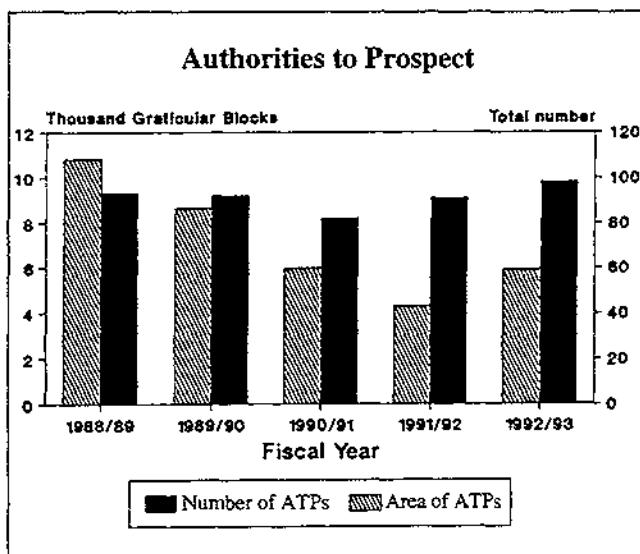
A major release of land covering some 30 million acres in the southwestern Eromanga Basin overlying parts of the Georgina, Adavale, Galilee and Cooper Basins, was promoted by the Branch. Summary data packages were prepared for this release and for another release of six areas in the Surat and underlying Bowen Basins in southeastern Queensland in March 1993. The latter was promoted at the APEA 1993 annual conference on the Gold Coast.

### Petroleum Production



\* Estimates only

Efforts such as these saw an increase in the number of Authorities to Prospect from 91 to 98 during the year. The total area covered increased from 4295 to 5915 graticular blocks (each block is equal to approximately 75 square kilometres). The number of Petroleum Leases increased from 61 to 64 this year. The number of Pipeline Licences increased from 12 to 18.



### PETROLEUM AND GAS OPERATIONS BRANCH

#### Role

**To promote a safe and effective operational environment for the supply, distribution and use of gases in Queensland.**

#### Strategies

- Develop and administer a health and safety program to minimise the risk of accidents.
- Maintain and further develop licensing systems for gas suppliers and licensed persons in the gas industry.
- Develop a program of regular and random audits and inspections of safety practices.
- Provide and enhance a system of 24 hour specialist response to emergency services and the community in gas related incidents.

- Approve the design and operating procedures for gas installations and equipment.
- Investigate all gas incidents involving death, serious injury and/or significant property damage to establish causes and take action to prevent recurrence. Investigate and report on offences and enter into prosecution proceedings. Provide expert evidence as required in civil and criminal court actions.
- Develop and implement educational and training programs in conjunction with industry, educational institutions and emergency services to support safety in the community.
- Administer gas franchise/easement applications and monitor gas quality and measurement standards.
- Develop legislation that is relevant and addresses government, industry and community needs.
- Represent the Department on and make significant contributions to national committees preparing standards and codes of practice.
- Provide expert advice and support to the gas industry and the community in gas related issues.

#### Review of Activities

The number of licence holders grew by 522 during the year and efforts are under way to extend the automation of the licence issue and reminder process.

Licence Holders to end of June 1993:

	92/93	91/92
Gas Installers	3769	3417
Gas Installers (Advanced)	131	110
Gas Motor Fuel Installers	1074	1009
Gas Inspectors	93	87
Gas Servicing	112	80
Gas Road Tanker Operators	392	346

The proposal by the PSMC that Road Tanker Operators should be licensed by Transport Department has been implemented with transfer of licence responsibilities taking place as from 1 August 1993.

The Branch implemented the requirements of the Mutual Recognition Act in its licensing policies and practices.

The audit program of major terminals is progressing and it is planned to bring this program into full operation during 1993/94. A total of 16 LPG Terminal Audits were carried out during the year together with 287 Bulk Tank Inspections, 751 Cylinder inspections and 372 vehicle inspections.

The emergency response system was refined with a 24 hour mobile telephone service being introduced in Brisbane. This service was well used with more than 100 after-hours callouts during the year, covering fires, vehicle accidents involving gas and other accidents and incidents.

All major gas accidents were investigated and reports prepared, copies of which are sought by the Coroner, Police and Civil Courts. Staff members attended a number of Court hearings to provide expert evidence.

The education program provided by the Branch to Emergency Services, TAFE Colleges, industry and other organisations continued to grow. A total of 125 lectures were presented, an increase of 25% over 1991/92.

Gas franchises continued to be developed with extensions being granted to Gas Corporation of Queensland and Allgas Energy. Work continued in the development of the Gladstone and Rockhampton franchises and, at the end of June, gas was being supplied to more than 330 consumers in Rockhampton and more than 135 in Gladstone.

Staff attended counter-disaster meetings in both Brisbane and regional areas and assisted with emergency exercises.

The Branch continued its participation in the preparation of National and International Standards. During 1992/93, the Chief Gas Examiner was invited to chair the Australian Standards Committee ME/2 which deals with the specification of gas

cylinders. He also chaired a committee preparing a new standard on Oxygen and Acetylene Reticulation, produced due to a Queensland initiative.

Review of the Gas Act and Regulations was deferred due to the review of Management of Hazardous Substances being conducted by the PSMC.

During 1992/93, the Branch took responsibility for the Liquid Fuels Supply Act which contains emergency provisions for use in fuel shortages. The Act is currently under review.

### ENERGY TECHNOLOGY AND USE BRANCH

#### Role

**To plan and secure efficient conversion and use of energy resources for optimal benefit of the community.**

#### Strategies

- Provide information and technical advice to foster the responsible and efficient use of energy, including:
  - operation of the Energy Information Centre
  - the Government Energy Management Program
- Participate in the formulation of National Codes and Guidelines relating to energy efficient housing, commercial buildings and energy efficient appliances.
- Support energy research, development and demonstration activities relevant to Queensland.
- Maintain awareness of energy technology developments and their potential for Queensland application.

- Develop strategies for responsibly managing future energy requirements.
- Evaluate and implement measures in relation to efficient energy use and greenhouse gas emissions.

### Review of Activities

An environmental scan undertaken during the year highlighted the community's increased energy awareness and environmental concern.

The Branch is sensitive to these issues, and particularly to the market requirement for industry to operate in an open and competitive environment in which the benchmark is world standard energy efficiency.

The Energy Information Centre dealt with some 4900 enquiries for the year. These enquiries have been on energy-efficient house design, home insulation, choice of hot water systems, lighting, selection of efficient appliances, air-conditioning and heating, renewable energy, remote area power supplies and energy conservation in general.

Centre staff gave presentations on efficient use of energy to community and professional groups. The Centre is working in conjunction with the Housing Industry Association (HIA) to promote more energy efficient housing in Queensland by giving presentations to builders. The Centre has also been invited to give talks to the Owner Builders Courses at the Mt Gravatt TAFE College.

The Government Energy Management Program aims to achieve more efficient and cost-effective energy use by Government Departments. The Department and the Administrative Services Department jointly operate the Program. An information package on the program was provided to each Department. As a result agencies have taken the opportunity to make cost-effective equipment and operational changes.

The Department continued to monitor forecast natural gas supply and demand in consultation with producers and consumers and to address concerns with respect to declining availability of gas from the existing producing areas in the Surat Basin and Denison Trough.

Gas industry participants were asked to establish arrangements which would ensure continuity of gas supply to existing and potential Queensland east coast markets.

The South West Queensland Gas Parties will carry out market surveys and feasibility studies with a view to delivering southwest Queensland gas and Queensland's east coast markets. The results of these investigations are expected to be known by December 1993.

The Branch participated in a State/Commonwealth project aimed at developing an Energy Code for Commercial Buildings, and also represented Queensland in developing a Home Energy Rating Scheme for residential housing. This work is ongoing.

The Branch also co-ordinated the Government's interests in the Queensland Centre for Advanced Technologies at Pinjarra Hills. This joint initiative by the Queensland Government and CSIRO was officially opened in October 1992. The Queensland Government provided \$20 million towards construction of the Centre, relocation of CSIRO staff and equipment from interstate, and provision of an advanced computer facility.

Assistance was provided to a consortium of private sector interests in the development of two large scale battery energy storage demonstration project proposals, to be sited in South East Queensland.

The Alternative Energy Advisory Group was established to advise the Minister on practical applications for renewable energy throughout the State. The initiative will involve expenditure of up to \$5 million, provided by the Queensland Electricity

# GEOLOGICAL SURVEY DIVISION

## Role

**To improve industry and government decision making by identifying mineral and energy resource potential.**

## Strategies

- Expand knowledge of geology and geophysics and the factors controlling the distribution of mineral and energy resources.
- Improve access to geoscience and resource data.
- Promote excellence in customer service.

## Organisation

**July 1992 — March 1993**

- Regional Geology Branch
- Mineral Geology Branch
- Petroleum and Coal Geology Branch
- Cartography Branch

**March 1993** — a project management structure replaced the previous branch structure in March.

- Geoscience and Resource Database Project
- Mineral Commodities Project
- North Queensland Project
- South Queensland Project
- Sedimentary Basins Project

## Staff

89 including geologists, geophysicists and technical, operational and administrative support staff.

## Budget

\$3,899,000 Base  
\$ 832,000 Special Allocation



## Performance Targets

- Increased numbers of geological maps and data products as a result of the introduction of digital mapping techniques and improvements in project management.
- National Geoscience Mapping Accord projects in the Cape York Peninsula and sedimentary basins of Eastern Australia substantially progressed.
- Additional resources applied to airborne geophysics and gravity mapping in order to assist with the more timely collection and interpretation of data.
- A mineral commodities group established in conjunction with the Minerals Division providing source geological data on resource quality and potential.
- Implementation of the Geoscience and Resource Data Base (GRDB) to provide greater corporate and public access to existing data bases subsequently completed.

## Major Achievements

- As recommended by the Public Sector Management Commission (PSMC) Review, a Geological Survey Advisory Committee was established in August and met twice during the year. Its main function is to help ensure that the Division meets current and future needs for geoscience information products.

- Between July and December, the Geological Survey Program was evaluated by Treasury and the Department's Corporate Planning and Evaluation Unit. A team of Divisional staff prepared strategies for the implementation of the evaluation's recommendations, which led to the adoption of new work practices and a work plan for the next 12 years called GeoMap 2005.
- The National Geoscience Mapping Accord North Queensland Project was substantially progressed. Special funding enabled the acquisition of airborne geophysical data over a critical portion of the study area.
- Mapping of the Broken River and Hodgkinson Provinces and the Kangaroo Hills Mineral Field was completed and mineral occurrence mapping as part of the Cape York Peninsula Land Use Study (CYPLUS) and the Hodgkinson-Broken River-Ravenswood Provinces was substantially completed. This work has provided information which will enable government to make better quality decisions about land use alternatives in Cape York and attract exploration as a result of improved knowledge of the mineral potential of the region.
- The National Geoscience Mapping Accord Sedimentary Basins of Eastern Australia Project was substantially progressed by delineating the distribution of potential petroleum source rocks and reservoir units in the subsurface Surat and Bowen Basins. Access to this information is of great significance given the diminishing supply of gas from the Surat Basin.
- The petroleum potential of the Galilee Basin was assessed and results presented at the Australian Petroleum Exploration Association Conference. This work has attracted interest from one major petroleum explorer and has been of substantial assistance to companies exploration for coal-bed methane.
- Geological and mineral occurrence mapping in the Anakie area successfully trialled new techniques, including an aerial geophysical survey, to speed the process of mapping and subsequent map production. The reporting of the results of this work coincides with the release of areas previously restricted for mineral exploration.
- The completion of mapping in the Gympie region has improved knowledge of the mineral potential and assisted in identification of old mine shafts as part of the mine shaft capping project.
- A Mineral Commodities Group was established and commenced production of papers summarising knowledge of Queensland's major mineral commodities.
- Design and implementation of the graphic component of the GRDB was substantially completed. The entire 1:250 000 scale geological map data for Queensland was scanned. Prototype colour geological map production for GRDB was achieved. Efficiencies in quantity and speed of map production have been demonstrated. Integration of the vast corporate data resources to support and promote exploration and development is now becoming a reality.
- The coastal and land use geology unit was phased out during the year after completion of consultancy studies for the Department of Environment and Heritage (Beach Protection Authority) and for the Australian Maritime Safety Authority.
- An inventory of current geoscientific research on topics of interest to Queensland was compiled and distributed. It will form the basis for identifying opportunities for collaboration with other research institutions.
- The Division is marking the 125th Anniversary of the foundation of the Geological Survey by taking part in field conferences in North Queensland and by conducting public seminars. The Geological Society of Australia (Queensland Division)

1993 Field Conference to the Charters Towers area in June featured the Geological Survey's contribution to the geological understanding of this region.

### Directions for the Future

Client needs for geological data will be met by:

- Completing design and implementation of attribute and graphic components of the GRDB phase of MERLIN.
- Capturing existing Regional series geological map data using scanning technology.
- Digitising the remaining Regional Geological Mapping Program geological compilation sheets.
- Producing digital colour geological maps from GRDB data.
- Maintaining GRDB geoscience graphic data.

Client exposure to this data will be maximised by developing a marketing strategy for GRDB data and through promotion of products and achievements through Geological Survey 125th Anniversary events.

The program will finalise its commitment to Stage 1 of CYPLUS by providing a mineral resource assessment of the area and digital data for inclusion into the CYPLUS GIS operated by Department of Lands. Work to be completed includes mineral occurrence mapping and data capture including the final field season.

The National Geoscience Mapping Accord North Queensland Project will be progressed and assessment of the mineral resource potential of the area will commence. Information which will promote the exploration potential of the area will be disseminated to the exploration industry.

Substantial completion of geological and mineral occurrence mapping in the Anakie area will lead to an increase in the level of mineral exploration in the area. Work to be completed includes data collection and analysis and a draft report.

For the Yarrol Province of central Queensland, a detailed client needs survey will support the development of a program of investigations which will have the greatest impact on increasing mineral exploration. The target is to have all pre-field data collected prior to commencing field investigations in July 1994.

Data capture for the National Geoscience Mapping Accord Sedimentary Basins of Eastern Australia Project will be completed and assessment of the petroleum resource potential of the area will commence. Information which will promote the exploration potential of the area will be disseminated to the exploration petroleum industry to assist the discovery of new gas resources.

A series of leaflets and reports will be produced on a wide range of mineral commodities to ensure the Department can manage its mineral resources and encourage investment in the mineral industry. The target is to have 6 major papers completed by July 1994.

The D'Aguilar project, to assess mineral potential between Kilkivan and Kilcoy, will be well advanced during 1993/94 with pre-field data capture completed, prior to commencing field investigations in July 1994.

### GEOSCIENCE AND RESOURCE DATA BASE PROJECT

#### Role

**Provide a corporate geoscientific data base within the Minerals and Energy Resources Location and Information Network (MERLIN) system to attract and support private exploration effort and assist in land use decision making within Queensland.**

#### Strategies

- Improve access to geoscientific and resource data by developing and maintaining an attribute database within the MERLIN system.

- Make graphical geoscientific and resource information available to internal and external clients by developing and maintaining a spatial data base within the MERLIN system.
- Develop applications for geoscientific and resource data from the MERLIN system for internal and external clients.
- Provide a cost effective cartographic service to the Division.

### Review of Activities

Development of GRDB as the second phase of the corporate MERLIN information system commenced in August. Investigations commenced on the development of a marketing strategy for the GRDB. Considerable national and international interest was shown in the MERLIN system and numerous in-house presentations were made to visiting delegations.

Existing geoscience and resource attribute databases have been analysed and modelled. Most are to be redesigned as relational databases in three main groups: borehole, mineral/surface geology, and geophysical. Design of the borehole component has commenced. Historical exploration permits and mining leases are also being captured.

Three of the major databases being included in the GRDB are REGMAP (Regional Mapping Field Data Management System) (geological mapping data), MINOCC (Mineral Occurrence Data Management System) (mineral occurrence data), and QPED (Queensland Petroleum Exploration Data Base) (petroleum exploration well data). Data on 3089 new REGMAP sites, 2593 MINOCC sites and 13 new wells in QPED were added during the year. Data quality and completeness have been upgraded with routine validation and addition of data. Sales of digital data totalled \$6160 to some 50 mainly industry clients.

Planning has commenced for the ongoing maintenance of GRDB when the system is implemented in 1994.

Digitising of 420 Regional Geological Mapping Program compilation sheets (most at 1:25 000 scale) commenced in October. Other data sets

captured include the 1:2 500 000 scale Queensland Geology Map, the 1:500 000 scale Moreton Geology Map and the 1:500 000 scale Bowen Basin Solid Geology Map.

The graphics team have also completed colour raster scanning of the 1:250 000 scale geological map coverage of the State (119 maps). These raster images have been georeferenced and form a continuous digital geological map coverage of the State.

In support of Divisional geological mapping projects ninety-four photoscale compilation sheets were completed, as well as five preliminary 1:100 000 geological maps. Fifteen preliminary mineral occurrence sheets were also prepared. The Camel Creek 1:250 000 scale Special multicolour map was published; it was a highly successful prototype for a new digital map production technique. New editions of the three maps in the Queensland Opal information package were printed and the Queensland Major Mineral Resources map was reprinted.

Graphic services in support of Divisional projects were continued. A total of 690 figures was produced during the year, principally for published reports.

The 17th Conference on Geological Cartography was hosted in October. All geological mapping agencies in Australia and New Zealand except Tasmania, were represented. Useful discussion and information exchange centred on digital mapping and data standards.

The newly formed GRDB applications group continued project support work mainly comprising the application of airborne geophysics and remote sensing techniques.

Interpretations of airborne geophysical data for parts of the Walsh and Red River 1:250 000 Sheet areas were prepared in support of the NGMA North Queensland Project.

Support was provided to the Australian Mineral Industries Research Association (AMIRA) Project 385 - Regional geophysics and the mineral deposits of Queensland. The results of the project will provide a framework to guide the identification of prime exploration target areas particularly in areas of shallow sedimentary cover.

### MINERAL COMMODITIES PROJECT

#### Role

**To provide the commodity information necessary for the best management of Queensland's mineral resources.**

#### Strategies

- Support Departmental decision making with commodity information.
- Encourage private sector investment in the development of Queensland's mineral industry.
- Publish commodity literature of various types.
- Build and maintain a commodity information system that is useable, useful, up-to-date, and comprehensive.

#### Review of Activities

During the year the Mineral Commodities Project group was fully staffed by redeployment within the Division and the Project became operational. Reviews of current knowledge of Queensland's mineral resources focussed on base and precious metals. A database of the more significant copper, lead, zinc, silver, and gold deposits in Queensland was maintained as part of these reviews.

A detailed commodity study on antimony in Queensland and a report on the State's copper resources were published. Papers on gold exploration, as well as lead-zinc and silica resources of Queensland were ready for publication at year's end. These studies have highlighted the important role that government geoscientific investigations have played in the discovery of new resources needed to maintain the minerals industry as a major revenue earner for Queensland.

An invited paper on ceramic resources of southeast Queensland was presented at a national ceramics conference in Melbourne in August and was the basis of a publication outlining structural clay and kaolin workings and resources.

The group contributed to the new edition of the Queensland Opal kit. The booklet and maps will help readers to fossick the known localities for opal, but more importantly the geological base to the maps will facilitate exploration for new resources.

### NORTH QUEENSLAND PROJECT

#### Role

**To promote the prospectivity of north Queensland mineral provinces and to assist resource management and use planning by preparing geological maps and determining the factors which control mineralisation.**

#### Strategies

- Add value to the geoscientific knowledge base by carrying out a program of geological mapping supported by gravity and airborne geophysical data acquisition.
- Enhance the knowledge of mineral deposit types and distribution.
- Assess mineral resource potential.

#### Review of Activities

Major efforts were directed to the completion of Regional Geological Mapping Program (RGMP) investigations within the NGMA North Queensland Project area.

The results of mapping in the Broken River Province were published in the Queensland Geology series accompanied by the Broken River 1:100 000 Special and Camel Creek 1:250 000 Special geological maps.

## GEOLOGICAL SURVEY DIVISION

Mapping of the Ravenswood Batholith of the Lolworth-Ravenswood Province was completed. The importance of integration of geological and geophysical data in this mapping was featured in a paper presented at the 9th Australian Society of Exploration Geophysicists Conference held at the Gold Coast in October. A series of reports as well as the Preliminary editions of the Ravenswood and Charters Towers 1:100 000 geological maps were released.

Hodgkinson Province mapping was completed. A series of reports and the Preliminary edition Butchers Hill 1:100 000 Sheet area geological map were released.

Preparation of reports and maps for the Burdekin Basin continued. Preliminary edition geological maps for Dotswood and Hillgrove 1:100 000 Sheet areas were released.

Reallocation of funding priorities resulted in curtailment of mapping in the Ingham region. Investigation of the Kangaroo Hills mineral field continued.

Mineral occurrence mapping literature surveys commenced for the Georgetown area. Mineral occurrence mapping continued in the Hodgkinson, Broken River and Lolworth-Ravenswood Provinces and four reports were issued.

Substantial progress was made in the NGMA North Queensland Project which is being conducted jointly with the Australian Geological Survey Organisation (AGSO). Investigations in Cape York Peninsula indicated that a major geological discontinuity may separate basement rocks of the Coen Inlier from those of the Georgetown Inlier. The relationship is highly significant for mineral potential, as rocks of the Coen Inlier previously have been regarded as Proterozoic and similar to those of the Georgetown Inlier. Younger sedimentary cover masks the relationship of the Inliers. Special funding enabled the acquisition of airborne geophysical data over the critical Walsh and Red River 1:250 000 Sheet areas. Mapping of basement rocks on the Hann River, Walsh and Red River 1:250 000 Sheet areas commenced. Results of the mapping in the Ebagoola 1:250 000 sheet area were displayed at the 9th Australian Society of Exploration Geophysicists Conference held at the Gold Coast in October. Discussions were held with

AGSO staff to determine the final outputs for the NGMA project which is scheduled for completion in mid 1996.

The North Queensland Project is also contributing directly to CYPLUS by providing an up-to-date database on the mineral resources of the study area for the Natural Resources Analysis Program (NRAP) of CYPLUS. Mineral occurrence mapping in the area continued. All data will be incorporated in the CYPLUS Geographic Information System (GIS) by July 1994. In addition, investigations of the Cape York coastal zone for NRAP were carried out jointly with AGSO. At the completion of field work all data were submitted to AGSO for compilation and reporting. Articles were published on coal and petroleum exploration within the CYPLUS study area, the mineral resources of Cape York Peninsula and on the progress of geological data compilation for CYPLUS.

Coastal accretion and erosion processes were studied between Cape Pallarenda and Cape Grafton in north Queensland. In addition, investigations of the nearshore and coastal geology of the Mackay-to-Whitsunday coast, as well as the Quaternary geology and coastal evolution of the southern Sunshine Coast were carried out. Seven reports were completed for the Department of Environment and Heritage.

Several offshore sites were investigated where replacement of navigational buoys is planned. Six reports were completed for the Australian Maritime Safety Authority.

Digital data and contour maps from the Buchanan and Mount Coolon 1:250 000 Sheet gravity mapping project were jointly released with AGSO in October.

Collection of gravity data in the Mount Isa region in cooperation with industry was completed on schedule and the results were released in March. Presentations on these investigations were made at seminars in Cloncurry in August and in Brisbane in April.

The Lawn Hill circular feature (adjacent to the Century deposit) which had been proposed for listing on the National Estate Register as a meteorite impact site, was inspected. A report casting doubt on this origin was forwarded to the Australian Heritage Commission.

### SOUTH QUEENSLAND PROJECT

#### Role

**To promote the prospectivity of south Queensland mineral provinces and to assist resource management and land use planning by preparing geological maps and determining the factors which control mineralisation.**

#### Strategies

- Add value to the geoscientific knowledge base by carrying out a program of geological mapping supported by gravity and airborne geophysical data acquisition.
- Enhance knowledge of mineral deposit types and distribution.
- Assess mineral resource potential.

#### Review of Activities

RGMP investigations of the Anakie and Gympie Provinces were substantially progressed.

Field work was completed for the mapping of the southern part of the Anakie Inlier in the Clermont and Emerald 1:250 000 Sheet areas. Trialling of new mapping technologies continued. Geological interpretations of satellite imagery and airborne geophysical data were checked, measurements made of ground spectral signatures and extensive use made of Global Positioning Systems (GPS). Significant improvements in the quality of mapping as well as reductions in field traverse time were demonstrated. All mapping has been captured digitally and field data has been added to the REGMAP database. Subdivision of the Retreat Batholith was based on airborne geophysical data captured in 1990. Mineral occurrence mapping was progressed and reports released for the Monteagle 1:100 000 and Emerald 1:250 000 Sheet areas. Release of this information will help to attract exploration interest in land released from Restricted Area 55 (RA55), RA1 and RA102 during the year.

In the Gympie Province, field work in the Gympie and Laguna Bay 1:100 000 Sheet areas was completed, preliminary maps and a report issued. A comprehensive mineral occurrence database for these sheet areas was completed. Availability of these new data sets will assist mineral exploration and land use planning in this part of southeast Queensland.

The Yarrol Province in Central Queensland was identified as a region with high potential for new mineral discoveries during formulation of the GeoMap 2005 Plan. A pre-design study for remapping of the Yarrol Province which included reviewing data, identifying major geological problems and determining client needs, was completed.

Assistance was provided to a Health Department investigation of lead poisoning at Indooroopilly where high natural levels of lead have been detected in soil.

As recommended by the PSMC Review, cataloguing of the Collection of Type and Figured Fossils housed at the Exploration Data Centre, Zillmere, commenced. Cataloguing of Quaternary, Cretaceous, Jurassic and Triassic fossils was completed and a computer database of fossil localities established. This database has been used extensively to provide data for land use planning and environmental impact studies.

### SEDIMENTARY BASINS PROJECT

#### Role

**To promote the prospectivity of Queensland sedimentary basins and to assist resource management and land use planning by providing geoscientific information and assessing energy resource potential.**

#### Strategies

- Add value to the geoscientific knowledge base by carrying out a program of subsurface geophysical and geological mapping.

- Enhance the knowledge of the geological factors controlling hydrocarbon accumulation and distribution.
- Assess hydrocarbon potential of sedimentary basins.

### Review of Activities

Investigations centred on assessment of the hydrocarbon potential of the Bowen and Surat Basins. These basins, where gas production has exceeded discovery in recent years, are being studied as part of the NGMA Sedimentary Basins of Eastern Australia (SBEA) Project. The emphasis of this project, which is being carried out jointly with AGSO, focussed on interpretation.

Lithostratigraphic interpretation is well advanced. Biostratigraphic data for wells on the lithostratigraphic correlation lines were compiled and re-interpreted. Seismic interpretation was enhanced by the acquisition of Petroseis seismic mapping software. A report and seismic horizon maps for the Roma/Wandoan transect were completed. Integration of the results of the seismic and lithostratigraphic interpretations commenced. A report on the petroleum geology and hydrocarbon potential of the southern Taroom Trough, Bowen Basin was published. An assessment of the coal faces along the eastern margin of the Taroom Trough was also completed. A number of coal-rich areas with source rock or methane drainage potential were identified. Evaluation of the petroleum source rock quality of the Back Creek Group, Blackwater Group, Moolayember Formation and Evergreen Formation commenced. Information from these SBEA Project studies will help to identify the potential for further gas discoveries in the Surat and Bowen Basins.

The assessment of the hydrocarbon potential of the northern Galilee Basin was completed. Information from the investigation assisted exploration for coal-bed methane in that basin.

Support was provided to the joint Department/Japanese Government New Energy and Industrial Technology Development Organisation (NEDO) research project. This project aims to develop new technology to delineate shallow coal seams. Tests were carried out in the Taroborah area, west of Emerald.

# POLICY DIVISION

## Role

**To provide and co-ordinate policy and advice to the Director-General and the Minister with the co-operation of all elements of the portfolio on matters which influence the overall effectiveness and strategic direction of the portfolio relating to Queensland's minerals and energy sector.**

## Strategies

- Influence and provide leadership in the development of policy affecting the portfolio.
- Provide economic and commercial analysis and advice.
- Provide efficient and effective administration of the State's royalty system.
- Provide Queensland minerals and energy production and employment statistics.
- Provide analysis and advice in the process of corporatisation of Government Owned Enterprises in the portfolio, and manage the corporatisation process.
- Develop and implement a regulatory framework and review of performance of the Government Owned Enterprises in the portfolio.

## Organisation

- Energy Policy and Corporatisation Branch
- Planning and Coordination Branch
- Resource Economics Branch
- Royalty and Statistics Branch

## Staff

19 including economists, accountants, policy advisers and administrative support staff.

## Budget

\$1,411,000 Base  
\$ 139,000 Special Allocations



## Performance Targets

- Preparation of an Energy Policy paper.
- Coal Royalty Study finalised
- Rail freight review completed
- Stage 1 of the Queensland Electricity Supply Industry corporatisation completed.
- Initial study of the corporatisation of the State Gas Pipeline completed.
- Policy Register substantially completed.
- Portfolio administration review Committee operational.
- Report on the Tully-Millstream Project.

## Major Achievements

- Substantial progress achieved on the export coal rail freight and royalty review.
- A number of major royalty investigations were progressed during the year including Mt Isa Mines base metals, magnesite, oil shale and coal bed methane.
- Analysis of structural issues and the identification of matters requiring legislative changes leading to corporatisation of the Queensland Electricity Supply Industry (QESI).

- Involvement in negotiations on the terms and conditions of the sale of the Gladstone Power Station to Comalco.
- Participation in national electricity industry reform processes through the National Grid Management Council.
- Royalty revenue for the year was \$251 million which represents a 14% increase compared to the 1991/92 financial year.
- Approximately 75% of prior year's royalty revenue was subject to audit as part of the ongoing royalty compliance program.

### Directions for the Future

A new royalty scheme for coal will be introduced in 1993/94. It will allow greater certainty for potential investors and when taken with commercially based rail freights will assist in attracting further significant investment in Queensland coal. This is expected to be reflected in Queensland at least maintaining its share of the world seaborne coal trade over the coming years.

Royalty arrangements will be completed during 1993/94 for coal bed methane, oil shale and magnesite. Each will focus on the potential investment in these very significant Queensland resources and on gaining a fair reward for the community as owners of the resource. Potential royalty collection from projects already proposed, based on these deposits, would be around \$40 to \$50 million per year.

In addition, a review of MIM's base metals royalties (\$50 million per year) will be finalised with the intention of ensuring the \$1.5 billion MIM operation remains internationally competitive and new investment possibilities are not stifled or resources sterilised. Other base metal royalties will also be reviewed as will royalties from extractive materials.

Work on the corporatisation of the QESI will continue with a view to the introduction of new electricity supply legislation and the preparation of QESI for corporatisation by January 1995. This will require all options and issues to be thoroughly examined.

Work will commence on the corporatisation of the other portfolio Government Owned Enterprise, the State Gas Pipeline.

The sale of the Gladstone Power Station is anticipated to be completed by 31 December 1993.

Policy development in 1993/94 is expected to focus on the energy area, pipeline tariffs policy and on the regulation of corporatised electricity supply industry. Energy policy papers will be released, setting the framework for the Government's actions with respect to energy generally and to the specific areas of energy efficiency and renewable energy, a national gas strategy and ESD/Greenhouse issues. A pipeline tariffs policy will be in place by July 1994.

As part of the Government's Systematic Review of Business Legislation and Regulations the Department will ensure that the majority of minerals and energy legislation is reviewed by 30 June 1994, and that all unnecessary impediments to business are removed. This is seen as a major element of micro-economic reform. Although substantial progress is to be made, it is accepted that Mines Regulations, Coal Mining Act and Gas Act will not be completed in the target timeframe. However it is expected that pipeline regulation will be reviewed by July 1994.

Mining is a cornerstone of the Queensland economy. However, access to land for exploration and mining is one of the key issues facing the mining industry in the 1990s. The Department is to develop strategies to optimise access to land for responsible exploration and mining (such as multiple land use). This is intended to assist in attracting further investment to the State.

Open government and accountability in decision-making is an important aspect of public and internal administration today. The Department proposes to have 95% of its internal policies documented by 31 December 1993 and maintain them in the policy register. This Freedom of Information initiative will allow public access to, and scrutiny of, the basis of Departmental decisions. It is also intended to result in higher quality and more consistent administrative decisions.

### ENERGY POLICY AND CORPORATISATION BRANCH

#### Role

**To coordinate and manage the development of energy policy for Queensland.**

**To foster economically, environmentally and socially acceptable production, trade and use of energy.**

**To improve the efficiency and effectiveness of Government Owned Enterprises in the portfolio and of their regulation.**

#### Strategies

- Provide policy analysis and advice in the areas of energy policy and Government Owned Enterprises (GOEs) corporatisation.
- Manage the corporatisation process for portfolio GOEs.
- Participate in working groups dealing with corporatisation issues.
- Participate in national working groups on electricity industry reforms.

#### Review of Activities

The major activities of the Branch in the year related to the electricity supply industry, in particular to the corporatisation of the industry in Queensland and to national developments through the National Grid Management Council.

The Branch provided comments on drafts of the general corporatisation legislation, and the Government Owned Corporations Act, which was enacted in May.

It also took part in the process of analysis and public consultation which led to a Cabinet decision to restructure the electricity supply industry. This restructuring, which involves separating the generation and transmission functions of the existing Queensland Electricity Commission, is intended to provide for competition in the generation part of the industry.

The Branch has been heavily involved in a number of Government/electricity industry working groups investigating issues in corporatisation of the industry.

The Government agreed in principle in August 1992 to the sale of Gladstone Power Station by the Queensland Electricity Commission to Comalco Limited, to facilitate the expansion of the aluminium smelter at Boyne Island near Gladstone. Involvement has occurred in preceding negotiation and in subsequent detailed negotiations on the terms and conditions of the sale. The project will continue into 1993/94, with sale completion nominated for December 1993.

Branch staff have been involved in National Grid Management Council (NGMC) Working Groups on the nature and operating guidelines for an inter-State transmission network and on regulatory arrangements for an inter-State electricity market. The NGMC's report on the first of these was presented to Heads of Government in December and the report on regulatory arrangements has been requested of the NGMC by the Council of Australian Governments. The Branch continues to provide support to the Director-General as Queensland's representative on the NGMC.

Other activities of the Branch included work on options in relation to the Tully-Millstream hydroelectric project and work on an Energy Policy Overview Paper. This paper provides a background to and framework for the development of policies in specific parts of the energy sector.

**PLANNING AND COORDINATION  
BRANCH****Role**

- To anticipate emerging issues of importance to the Minerals and Energy portfolio.**
- To plan and coordinate across government the development of strategic policy responses.**
- To manage policy-related projects and processes across the Department.**

**Strategies**

- Provide and coordinate strategic policy advice on portfolio-wide issues.
- Coordinate and integrate the Departmental legislative review programs.
- Involvement in national and statewide policy forums such as the Australian and New Zealand Minerals and Energy Council (ANZMEC); National Greenhouse and ESD and Steering Committees; the Planning and Infrastructure Coordination Committee (PICC); and SEQ2001.
- Coordinate the process of documenting Departmental policies and maintain the integrity of the Department's Policy Register.

**Review of Activities**

Together with the Office of Cabinet and the Department of Environment and Heritage, the Branch represented Queensland on the National ESD and Greenhouse Steering Committees, and is co-ordinating the implementation of relevant recommendations.

Briefings and advice to the Minister and the Department on a diverse range of strategic policy issues were prepared and co-ordinated in relation to:

- Australian and New Zealand Minerals and Energy Council;
- Planning and Infrastructure Coordination Committee of Cabinet;
- Legislation proposed by other portfolios; and
- Inter-governmental negotiations such as the National Biodiversity Strategy and National Endangered Species Strategy.

The Branch continued to coordinate, integrate and monitor the Department's ongoing legislative review program and the Government's Systematic Review of Business Legislation and Regulations as they affect the portfolio.

The Branch coordinated Departmental input to the development of planning policies for the Government's SEQ 2001 regional planning project.

The Branch provided portfolio input to the mutual recognition process (recognition of external standards for goods and occupations) and continues to coordinate the implementation of mutual recognition in the Department.

Work progressed on the development of a policy to optimise access to land for exploration and mining, and on a Departmental lead agency strategy.

For the purposes of the Freedom of Information Act the Branch established a Departmental Policy Register and managed the documenting and assessment of policies for inclusion in the Register. The Policy Register is available for on-line public access.

## **RESOURCE ECONOMICS BRANCH**

### **Role**

**To develop and coordinate major policy initiatives to foster an investment and regulatory climate which encourages the responsible development of Queensland's minerals and energy sector.**

### **Strategies**

- Analyse and provide advice on economic issues affecting the minerals and energy sector.
- Provide economic, commercial and financial advice throughout the Department.
- Develop royalty policy for the State's minerals and energy sector.
- Monitor and advise on the investment and exploration climate in Queensland.
- Participate in inter-departmental committees and Commonwealth/State Working groups.
- Research and provide advice on commodity market conditions and trends.

### **Review of Activities**

Substantial progress has been achieved on the export coal rail freight and royalty review. A Proposal Paper on alternative coal royalty arrangements including a discussion of commercial rail freight pricing principles, was released to industry as a basis for further consultation. Discussions are continuing and should be concluded in the near future.

The de-facto royalty component has now been removed from all new coal rail freight offers. Under this revised approach, four new projects have been committed (Ensham, North Goonyella, Gordonstone, Crinum) and a major expansion undertaken at Blair Athol. These projects when fully developed will increase Queensland's exports by around 17 million tonnes a year and result in additional royalty, rail freights and port revenue of over \$270 million per annum.

The Branch participated in a number of inter-departmental committees and working groups involving royalties, major projects, export development and investment attraction.

Research on commodity market conditions and trends continued. Weekly reports for Ministers, Government and Statutory Authorities were prepared as well as a yearly analysis for inclusion in the State Budget papers.

Economic and commercial advice was provided to the Energy Division on the release of areas restricted for coal exploration in Central Queensland. This included analysis and assessment of appropriate release mechanisms and allocation systems as well as economic advice on foreign investment guidelines, taxation and the provision and pricing of infrastructure.

Evaluation of a variety of assistance packages and royalty matters for proposed resource developments was undertaken and advice provided to various working parties and inter-departmental committees. Specialist financial assessment and advice was also provided on company guarantee conditions under the Department's Environmental Management Overview Strategy (EMOS).

Briefings on particular issues for meetings of the Australia New Zealand Mineral and Energy Council (ANZMEC) were provided by the Branch.

**ROYALTIES AND STATISTICS  
BRANCH****Role**

**To enhance the collection of mining royalties owing to the Government by means of an efficient and effective royalty system and to provide production and employment statistics on the mining and energy industry in Queensland.**

**Strategies**

- Control the lodgement of royalty returns.
- Assess royalty returns.
- Conduct selected audits of royalty contributors.
- Record details of mining activity throughout the State by means of quarterly and annual censuses.

**Review of Activities**

Royalties collected during the year amounted to \$250.9 million, an increase of \$33.8 million or 15.6 per cent on the 1991-92 collection. The increase can be attributed in the main to increased production assisted by a lower average exchange rate for the year.

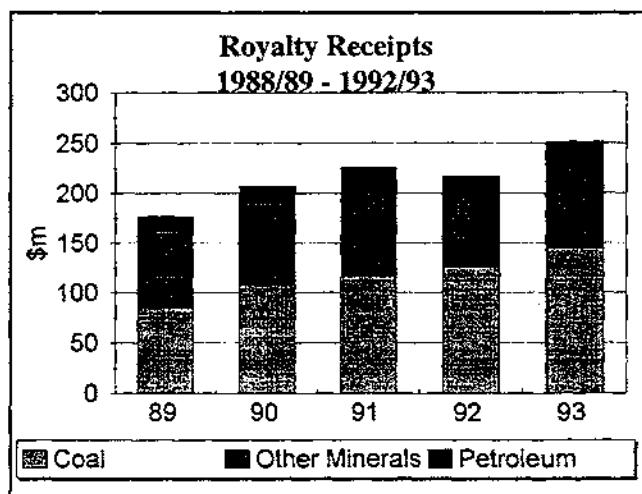
During the year a total of 2,549 returns were received and assessed with the average turnaround time between receipt and assessment being less than 2 days. Office assessments resulted in additional royalty payable of approximately \$216,000.

Companies contributing approximately 63 per cent of the previous year's royalty were subject to audit during the year. While some of these audits await finalisation and adjusting payments, the net result of these audits was an additional assessment of royalty of approximately \$1.2 million.

With effect from January the Department implemented a system of assessing interest on late payment of royalties in order to encourage compliance with the lodgement provisions of the Minerals Resources Act. A royalty manual detailing royalty procedures was also compiled for internal use.

During 1992-93 approximately 2,500 annual and quarterly returns covering Queensland's minerals and energy production were received and processed.

Preliminary work commenced in the integration of annual mineral production statistics with a number of other Departmental databases. This integrated data system will include such information as regional mapping and geophysical data as well as production statistics and will greatly enhance the Department's ability to service both public and industry inquiries.



# SAFETY IN MINES TESTING & RESEARCH STATION (SIMTARS)

## Role

**To provide research, development, testing, and associated scientific services, including the introduction of new technologies, which will reduce the risk of mine disaster events, and minimise fatalities, lost-time injuries and disease primarily in the mineral and energy industries.**

## Strategies

- Develop an ongoing funded research and development program with specific focus on mine fires and explosions, electrical equipment, mine gas analysis and interpretation, and occupational hygiene.
- Nurture strategic linkages and close working ties with all industry sectors, stakeholders, kindred organisations and other relevant bodies.
- Improve breadth and depth of services, according to stakeholders requirements.
- Extend technical accreditations, quality management systems and employee qualifications, with focus on relevancy to application of high technology and provision of professional services.
- Consolidate Queensland market and then further extend market to selected opportunities in Australia and overseas.
- Expand commercial services to limit of infrastructure capability, consistent with continued achievement of scientific and technical excellence, and quality of service.
- Consolidate human resource management practices; implement organisational developments which facilitate individual goal achievements; maximise and recognise individual contributions.

## Organisation

- Research and Technical Services Branch
- Electrical Testing and General Services Branch
- Occupational Hygiene and Laboratory Services Branch
- Finance and Administration Unit

## Staff

71 including scientists, environmental scientists, applied chemists, occupational hygienists, mining, electrical, civil, mechanical and electronic engineers, computer scientists, information officer and other professional and technical officers.

## Budget

\$2,205,000	Base
\$2,115,000	Special Allocations



## Performance Targets

- Provide research and development services which will minimise fatalities, disabling and lost time injuries and diseases.
- Develop capability to provide research and testing services appropriate to Government priorities, Departmental mission and stakeholder needs.
- Maximise clients/stakeholders awareness of services which are available.
- Encourage/persuade/promote the use of services by clients/stakeholders.
- Provide services efficiently and effectively.

- Achieve a favourable financial result for commercial services.
- Perform in such a manner that clients/stakeholders are satisfied with services.
- Define standards particularly by issuing advice and guidance, and cooperating with other national and international standard-setting bodies.

## Major Achievements

- Research into the three priority projects identified by the Mining Safety Testing and Technology Advisory Committee (MSTTAC) was commenced and significant progress achieved.

BRANCH	1991-92	1992-93
Research and Technical Services	202 638	96 325
Occupational Hygiene and Laboratory Services	760 159	897 845
Electrical Testing and General Services	289 694	471 032
Finance and Administration Services	720	166
<b>TOTAL</b>	<b>1 253 211</b>	<b>1 465 368</b>

- Major progress was made in the implementation of quality assurance. Accreditation by the National Association of Testing Authorities, Australia (NATA) based on the requirements of AS3902/IS09002 was achieved in March by Electrical Testing and General Services. Implementation of a QA system based on AS3901/IS09001 was well advanced in the other Branches with accreditation targeted for September 1993.
- Two research grants (Arc Fault Containment-Stage II and Frequency Characteristics of Roof Talk and Derivation of Suitable Hearing Protection Parameters) were completed.
- Research grants were achieved from two new sources - the Australian Coal Association Research Program (ACARP) and BHP Australia Coal Pty Ltd. Grants totalling \$355,000 covering four projects were awarded during the latter half of the year.

- The new Standards Australia ExMark Scheme for Certification of Electrical Equipment for Explosive Atmospheres came into operation at the end of the year, with SIMTARS as one of only two Approved Testing Laboratories in Australia.
- A Swiss manufactured 20L explosion research chamber was purchased and commissioned to enable research into the MSTTAC mining research priority projects. This is the only such chamber in Australia, and already a commercial demand for its capabilities has been identified for development during 1993-94.
- Budgeted fee-for-service earnings of \$1,380,000 were significantly exceeded with cash receipts totalling \$1,465,368, an increase of 17% over the previous year.
- Externally funded grant receipts totalled \$330,229.
- A margin of \$144,038 or 11% on cost was achieved on the commercial fee for service component.

## Directions for the Future

All new underground coal mines planned over the next few years are large longwall operations. Each one has the potential for high methane emission rate and high respirable and total dust production. These operations use electrically driven equipment operating at high voltage. Electrical testing and research activities will continue to assist in the reduction of the potential risk of mine explosions. Major research projects to be completed are:

- Arc fault containment in flameproof enclosures;
- Use of earthing reactors to limit earth fault current to safe levels; and
- Mining power systems - study of transient over-voltage.

Mine gas analysis using the SIMTARS developed CAMGAS, SEGAS+ and SAFEGAS systems will continue to provide early warning of spontaneous combustion and the presence of any active heating or fire. All major Central Queensland underground coal mines are to have CAMGAS in place by July 1994. Research projects in this area to be substantially advanced will include (with July 1994 achievement targets):

- Measurement and Suppression of Frictional Ignition (data acquisition and measurement of the ignition energy arising from generated incendive incidents). By July 1994 a frictional ignition test rig will be constructed and equipped with a range of sensors. Data acquisition and process control systems will also be in place by July 1994;
- Hybrid Explosion Conditions on a Longwall Face (potential for such conditions to exist to be assessed). By July 1994, measurement of mine site methane and coal dust will be made and similar atmospheres created in the laboratory. These will then be tested for hybrid explosibility.

Research continued into 'rooftalk' involving digital electrical recording of the noises in the roof strata of underground mines which might act as a warning of an imminent roof fall.

Research into reduction of airborne dust depositions in the return roadways of a longwall face will be completed. Measurement of actual dust concentrations in mines and reports on the extent of the problem and proposals for future control will also be in place by July 1994.

Budget category 'C' fee for service commercial revenue generation will be increased by 10% on 1992/93 levels.

The second stage of the longwall respirable dust project will be completed.

National accreditation for Australia wide certification of underground equipment will be achieved. Third Party Quality Assurance accreditation to AS3901 (by NATA) will be achieved by 30 September 1993.

New research grants/projects on health projects will be achieved.

Research and Technical Services will continue research into aspects of the explosibility of methane and coal dust in order to reduce the risk of coal mine explosions.

Current ACARP projects will be completed:

- Stress Management by Overcoring in Exploration Boreholes by mid September 1993.
- Optimisation of Longhole Drilling by end November 1993.

## **OCCUPATIONAL HYGIENE AND LABORATORY SERVICES**

### **Role**

**To enhance health and hygiene in the mining and other hazardous industries through monitoring of environmental and workplace conditions, technology development and application, and provision of laboratory services.**

### **Strategies**

- Provide occupational hygiene services including dust, noise, hazardous chemical air quality and environmental monitoring, hygiene audits, asbestos fibre monitoring/identification, asbestos audits, risk assessments, health and safety training.
- Provide analytical services including gas, cyanide, solvents, roadway dust, free silica, respirable dust, explosives, and specialised chemical analysis.

- Provide research services including laser gas analysis, software development, computer hardware installation, chemical data base searches, spontaneous combustion investigations, data analysis, presentation and process control.
- Provide environmental services including emission testing, ground level concentration testing, noise monitoring and environmental impact studies.

## Review of Activities

Occupational hygiene surveys in coal and metalliferous mines increased slightly in terms of revenue. There was a major increase in the number of respirable dust analyses carried out, reflecting increased marketing activity and an increase in the number of respirable dust samples collected by the individual mines.

The CAMGAS automated mine gas analysis system operated successfully at a number of mines, and North Goonyella is due to join the system in late 1993. Increased mine gas analysis numbers were due to methane drainage programs and a major general industry gas analysis contract. No major coal mine fires were reported in the State during 1992-93.

An updated version of the SEGAS software was produced and a training course was conducted in Rockhampton, to enable users to benefit fully from the software.

Occupational hygiene surveys were carried out on behalf of all major coal groups within the State, including a major metalliferous occupational hygiene survey which highlighted problem dust areas. This led to a major review of occupational health monitoring strategies.

The environmental monitoring area experienced a major increase in revenue, and a second stack gas testing unit was commissioned during 1992-93. A further increase in general environmental work is anticipated during the year.

There was a slight reduction in the demand for training services during the year with approximately 600 personnel trained at a number of

minesites. Training services will be expanded in 1993-94.

Asbestos-related work continued to increase, with a second major powerhouse demolition at Bulimba which began in late 1992. SIMTARS has now developed considerable expertise in the conduct of asbestos building audits, with more than 50 buildings being assessed during 1992-93.

The Worksafe-funded Frequency Characterisation of Rooftalk and Derivation of Suitable Hearing Protection Parameters Research project was completed, with the final outcomes paper due to be presented in Sydney in early July. Four further research applications were made to Worksafe with decisions due early in the new financial year.

Numerous papers were published on topics ranging from longwall generated respirable dust to an evaluation of the relative merits of various hydrogen detectors. Two papers (on rooftalk and mine fire gas interpretation) have been accepted for presentation at the 25th International Conference on Safety in Mines Research Institutes to be held in Pretoria, South Africa.

SIMTARS was awarded a major contract to develop software to automate heavy vehicle wear oil analysis.

A major longwall respirable dust research program was commenced at three Central Queensland collieries on behalf of the Chief Inspector of Coal Mines Longwall Dust Committee. Further work will be carried out in 1993-94. The work is jointly funded by the Department and the coal mines involved and is designed to reduce respirable dust levels produced by high production longwalls.

Invoiced revenue increased from \$650,000 to \$990,000 (+52%) and notional revenue (for services provided on behalf of the Mines Inspectorate) increased from \$107,000 to \$183,000 (+71%). Revenue received increased from \$760,159 to \$897,845, an increase of 18%. These increases were obtained despite a reduction in available staff numbers, due to key personnel being involved in the development of a quality assurance program scheduled for implementation in September 1993, and other commitments.

## **ELECTRICAL TESTING AND GENERAL SERVICES BRANCH**

### **Role**

**To develop compliance testing for electrical and mechanical equipment, equipment calibration and general services.**

### **Strategies**

- Testing and certification to regulatory authority approvals and Standards Australia certification for intrinsically safe electrical mining equipment.
- Calibration of an extensive range of electrical test apparatus and the operation of a mobile calibration laboratory.
- Testing of antistatic and flame-resistant materials.
- Consulting services and testing for investigations into electrical failures and incidents.
- Inspection of overhauls/repairs for compliance with relevant safety standards.
- Research services associated with electrical equipment used in hazardous areas such as underground coal mines.

### **Review of Activities**

During the year, Electrical Testing and General Services further upgraded its hazardous locations testing capability through on-going training and the development of quality assurance to the AS 3902 standard. As part of an ongoing management program for facilities and equipment to satisfy the requirements of Australian standards, replacement high voltage test equipment was installed and commissioned.

A major technical achievement was the contribution made to a new certification scheme for mining and above ground hazardous location electrical equipment.

Training programs and resultant efficiency improvements significantly increased testing throughput, as demonstrated by increased revenue.

A number of investigations were carried out during the year into incidents in the mining industry involving equipment and electrical protective devices that could have resulted in personnel injury or explosion hazard.

SIMTARS contributed to the preparation of Australian and International Electrotechnical Commission standards associated with electrical equipment for hazardous locations such as underground coal mines.

The National Energy Research Development and Demonstration Program (NERDDP) research project - Arc Fault Containment in Flameproof Enclosures Stage II - was completed in line with budget and program, and the final report was released in December. The results were disseminated by technical papers and video presentation. The importance of the work was generally acknowledged by industry and resulted in funding being received from industry for Stage III.

Workshop services continued to provide efficient and effective support in the manufacture, modification and maintenance of specialised apparatus for testing and research as well as providing day-to-day general maintenance support of building and associated equipment.

Other key objectives achieved included the continued development of hazardous location testing facilities to international standards, and the ongoing development of electrical and other calibration services.

The Branch also continued development of technical investigatory capabilities, and achieved a high standard in the provision of electrical and mechanical workshop services to internal and external clients. Delivery of building and property management services to SIMTARS was further enhanced.

Electrical Testing and General Services was particularly successful in targeting and achieving the award of new grant-funded research projects during the latter half of the year following the transition period while the new grant funding body (the Australian Coal Association Research Program (ACARP)) took over from its predecessor, NERDDP. Competition for grants funds was intense, however Electrical Testing and General Services was successful in achieving grants totalling \$285,000. One ACARP funded project was awarded, together with two research grants by BHP Australia Coal Pty Ltd under this organisation's new industry research funding program.

## **RESEARCH AND TECHNICAL SERVICES BRANCH**

### **Role**

**To provide mining engineering research, technical, scientific information management and support services which assist the Queensland mining and energy sectors to improve safety and health and to develop and apply new techniques.**

### **Strategies**

- Provide mining research and technical investigations on safety in the mining industry.
- Provide scientific, technical and other assistance relating to safety to the Inspectorate, industry clients and other State Government departments.
- Provide analytical services including particle size analysis, explosibility testing of dusts and gases, vibration monitoring, temperature measurement and analysis by infra-red techniques.

- Provide training services, including prevention of gas and dust explosions.
- Provide research and mining engineering consultancy services in a number of areas including methane drainage and coal seam outbursting.
- Provide information and computing services to all operations at SIMTARS, stakeholders and clients.

### **Review of Activities**

Priority was given to progressing work on MSTTAC priority projects and to advancing existing and new ACARP projects.

The No 1 priority MSTTAC project is the "Measurement and Suppression of Frictional Ignition". The first stage of the project involved a literature review of frictional ignition research in Australia and overseas, investigating the most appropriate technology for inclusion in the design of a frictional ignition test rig and the design of a rig to simulate operating characteristics known to influence frictional ignition. Basic parameters were selected for design of the frictional ignition test rig, and engineering calculations were completed for design of the drive train with appropriate torque and speed requirements. A variable speed DC motor and controller were tested to ensure suitability over the required speed range.

The second MSTTAC priority project is the "Reduction of Airborne Dust Deposition in the Return Roadways of a Longwall Face". Stage 1 of this project required an initial sampling program at two underground longwall mines, the acquisition of a suitable dust injection system and the design of an appropriate sampler for collecting airborne dust during longwall mining operations. Samples of deposited dust were collected from two longwall mines and analysed for particle size. A prototype dust injection apparatus was designed and manufactured to produce a dispersed dust cloud, and subsequently developed to allow the variation of the dust concentration.

The third MSTTAC priority project is the "Potential for Hybrid Explosion Conditions to Exist on Longwall Faces". In the first stage of this project an investigation was made of the most appropriate apparatus for measuring hybrid explosions. As a result SIMTARS designed, made and installed a 10m propagation tube and bought and installed a 20L explosion chamber to provide a means of measuring dust explosibility properties to ISO and other international standards.

Contact research completed during the year included a comprehensive review of Australian and overseas research in the area of frictional ignition, and sampling and audit on-site and laboratory testing to determine the potential explosibility of coal dust at a boiler house.

An ACARP project - "Stress Measurement by Overcoring in Exploration Boreholes" was completed within budget and time, with a system of measurement and recording successfully tested in a series of 600m depth exploration drill holes.

A study to outline the scope of future research in the area of exploration drilling was completed as a sub-contract for ACARP.

Research proposals were prepared in consultation with the Centre for Mining Technology and Equipment (CMTE) involving high pressure water jet drilling in the area of methane drainage drilling from surface to coal seam. A research proposal was also prepared in conjunction with a number of Departments at the University of Queensland to secure funding for the establishment of a Centre for the Study of Coalbed Methane.

A number of computer applications were developed for use across SIMTARS Branches using capabilities of VAX cluster in conjunction with electronic networking.

Quality assurance requirements were in the process of development to cover testing and research activities within the Branch.

# STATE GAS PIPELINE UNIT

## Role

**To establish and operate a natural gas pipeline system to fulfil the strategic needs of the Government and to meet the needs of the market while being financially viable.**

## Strategies

- Operate the Unit on a commercial basis to meet the needs of customers and maximise the return to the State.
- Promote the State Gas Pipeline and develop new sales.
- Operate safely and with consideration for the needs of local residents and for environmental matters.
- Continually improve the performance of the Unit by a number of strategies including introducing a Quality Assurance System and developing a Risk Management Program.

## Organisation

The Unit is divided into three streams - Marketing, Engineering/Operations and Finance/Administration - each reporting to the Unit Manager.

The field operations and maintenance work on the pipeline is contracted to Bridge Gas Queensland Pty Limited which carries out this work under the direction and supervision of the Unit.

## Staff

11 including a manager, pipeline engineer, pipeline superintendent, pipeline controllers, commercial manager, administration and finance manager, accountant and administrative support staff.

Bridge Gas Queensland Pty Limited employs 13 staff.

## Budget

The State Gas Pipeline operates under a Trust and Special Fund from the Treasury Department.

Turnover for the year was forecast to be \$21.4 million and a total of \$22.18 million was achieved.

## Performance Targets

- Meet the needs of our customers.
- Establish new facilities and operations and maintain the pipeline to good industry standards.
- Achieve acceptable financial targets in the short and long term.
- Operate safely and with consideration for environmental matters and for the needs of local residents.
- Develop the organisation to meet future needs.

## Major Achievements

- The pipeline operated without any significant incident for the year with gas being supplied to all customers within the requirements of the gas transportation agreements. There were no interruptions to supply.
- Total gas transported through the pipeline for the year ending 30 June 1993 was 397 million cubic metres which was 2.1% above budget.
- Gas Corporation of Queensland Limited was provided with another gas supply connection on the south side of Rockhampton.
- The construction program was completed and outstanding claims by the contractor were resolved. Some work remains to finalise outstanding right of way matters.
- Equipment has been maintained in accordance with the scheduled program and function tested at regular intervals.

Metering accuracy has been generally maintained at below the 1% error requirement.

- Bi-annual cathodic protection surveys have been carried out and all results have been analysed by an independent consultant. All recommendations for maintaining and improving the cathodic protection system have been adopted and the recent survey indicates that the pipeline is adequately protected against corrosion.
- More than four hundred standard operating procedures were documented and implemented by the field operation and maintenance contractor.
- Budget targets were achieved, revenues were greater than budget and expenditure was lower.
- There were no lost time accidents for the year and landholder complaints were limited to noxious weed growth and lack of grass growth.
- A new contract for the field operation and maintenance of the pipeline for the period ending 30 June 1995 was finalised with Bridge Gas Queensland Pty Limited which provided for significant operating economies for the new contract period.
- Contact is being maintained with several potential customers in the Gladstone and Rockhampton areas and a growth in throughput of up to 10% is anticipated over the next three years as these customers come on-line.

### Directions for the Future

A Quality Assurance program is being introduced and staff from the SGPU and from the contractor have received preliminary training.

A Risk Management Survey will be carried out to determine areas of risk within the Unit and to develop strategies to minimise their effects.

The PSMC has recommended that a review of the State Gas Pipeline Unit be made to assess its suitability for corporatisation and it is expected that this review will commence in early 1994. A tentative date for corporatisation has been established as 1 January 1995.

# CORPORATE SERVICES DIVISION

## Role

**To provide high quality support services to the Department and its clients.**

## Strategies

- Set delivery standards and establish performance contracts with clients.
- Provide a reliable, secure, responsive and technically sound information technology environment.
- Develop or modify information systems to facilitate improved decision making consistent with the Department's goals and strategic direction.
- Establish human resource management policies and practices which help achieve the Department's goals.
- Provide a challenging work environment for all staff which encourages commitment, fosters skill and professional growth and promotes equality of opportunity, quality of service and recognition of excellence.
- Maximise the opportunity for risk management, structural change and devolution of financial responsibility to line Divisions.
- Improve the efficiency of Departmental accounting and administrative systems.

## Organisation

- Information Technology Branch
- Human Resource Management Branch
- Finance and Administration Branch
- Information Services Branch

## Staff

**96** including administrative staff, information technology specialists, journalists, librarians and accountants.

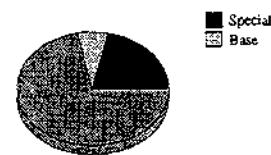
## Budget

\$ 4,909,000

\$15,964,000

Base

Special Allocations (including Capital Works)



## Performance Targets

- Reduced corporate services costs as a proportion of total Departmental budget.
- Cost savings identified in delivery of information services activities.
- Improved client service as evidenced by client surveys.
- A high degree of compliance with Public Finance and Public Sector Management Standards.
- Departmental budget allocation met and revenues increased.
- Performance appraisal and development systems implemented.

## Major Achievements

- Performance Contracts were established with client Divisions.
- 60% of the recommendations of the PSMC Review of the Department were implemented.
- The 1992/93 Departmental budget was developed on a "zero-based" methodology and linked to the operational planning process.

- The Departmental Financial Management Practices Manual was completed and financial management systems enhanced with revised delegations.
- Executive Performance Management and Development and Performance Planning and Review systems were implemented.
- The Human Resource Management System was upgraded to provide a fully integrated payroll and entitlements processing system.
- Structural Efficiency Principle implementation was largely completed with job redesign being conducted in all units.
- A comprehensive staff training and development program was developed for implementation in 1993/94.
- Training for staff in anti-discrimination legislation was undertaken and a Sexual Harassment Referral Officers Network was established.
- A comprehensive review of the Department's information technology environment and strategic direction was completed. Strategies were developed to guide development and use of information technology in a way that adds value to corporate goals and objectives.
- Educational materials, fossicking kits, reports, videos, displays etc. were produced in support of Mining Week, the RA55 release and a variety of industry conferences.
- Systems analysis work for the development of the Geoscience and Resource Data Base (GRDB) system, which is a component of the Department's Minerals and Energy Resource location and Information Network (MERLIN), was completed.
- The Office System was extended to include standard office software and to facilitate the growth in the number of users.

- A decision was taken to establish multifunctional regional offices providing tenures and environmental management and health and safety inspection services, at Mt Isa, Mareeba, Charters Towers, Emerald, Rockhampton and Brisbane.

### Directions for the Future

Each Branch of Corporate Services will enter into revised performance agreements with client Divisions by 31 December 1993.

Corporate Services costs as a proportion of the total departmental budget will be reduced and the Divisional operation plan will be implemented within budget.

The Department's regionalisation strategy will be substantially implemented as will PSMC Review recommendations.

Information technology systems upgrades will be in place by early 1994.

Information Technology policies, standards and procedures will be developed by June 1994.

An information technology quality management system will be in place by June 1994.

Mining education resource materials will be completed by October 1993, for distribution to schools in 1994.

A Human Resource Strategic Plan will be developed and implemented by the end of 1993.

Timely and quality financial information will be provided to Divisions through the issue of monthly financial reports within seven working days after the end of each month.

A revenue retention scheme covering Departmental products and services will be established.

Risk management strategies will be in place by end March 1994.

### FINANCE AND ADMINISTRATION BRANCH

#### Role

**To provide financial and administrative services to the Department that maximise the use of resources and minimise costs.**

#### Strategies

- Provide an internal control system to ensure statutory requirements under the Financial Administration and Audit Act and the Public Finance Standards are understood and met.
- Maintain accounting systems for general ledger, accounts payable, accounts receivable, fixed assets, suspense accounts and payroll.
- Coordinate the Department's budget process.
- Provide objective and independent financial and budgetary advice.
- Provide useful and timely information to client divisions to assist in decision making.
- Provide administrative services to clients.
- Liaise with external agencies concerning the Department's financial and budgetary situation.

#### Review of Activities

A new team-based structure, focusing on client groups, was implemented successfully during the year as a result of the Structural Efficiency Review.

Much of the Branch's effort, especially in the latter half of the year, was directed at closely monitoring expenditure.

A comprehensive salaries management package was implemented to ensure the full cost of all staffing decisions was clearly defined. This

information was integrated into Operational Plans for each Program along with all other Departmental costs.

A Risk Management Committee was set up to put in place procedures for the conduct of a Departmental risk survey to commence early in 1993/94.

System enhancements were made to facilitate prompt receipting of departmental revenue through the Minerals and Energy Resource Locational Information Network (MERLIN).

### HUMAN RESOURCE MANAGEMENT BRANCH

#### Role

**To develop and maintain HRM policies, systems and services that support the recruitment, selection, development and retention of excellent staff.**

#### Strategies

- Provide accurate and cost-effective salary administration services to Head Office and Regional Centres.
- Manage personnel records to meet client needs, in accordance with legislation and Public Sector Management Standards.
- Develop policies on human resource management issues for the Department, in accordance with Public Sector Management Standards and legislative requirements.
- Develop and deliver a Training and Development Plan for the Department, to assist staff in achieving corporate and Divisional objectives, and to enhance their career development opportunities.
- Implement performance management systems for all Departmental staff, to encourage and develop excellent performance.

- Implement Equal Employment Opportunity and Anti-Discrimination legislation, to establish and maintain a workplace that is free from discrimination and harassment.
- Implement the Structural Efficiency Principle, to improve Departmental productivity and service delivery.
- Implement Workplace Health and Safety legislation, to ensure a safe and healthy work environment for Departmental staff and clients.
- Provide specific consultancy services and advice to Departmental management and staff.

### Review of Activities

The Human Resource Management System was upgraded to provide a fully integrated payroll and entitlements processing system improving client service.

The Equal Employment Opportunity Management Plan for 1992/93 was substantially implemented, with particular achievements being the establishment of a Sexual Harassment Referral Officer Network and the provision of training for managers and employees in Anti-Discrimination legislation and Equal Employment Opportunities issues.

Departmental policies on significant public sector reform issues, including recruitment and selection; equal employment opportunity and grievance procedures, were developed and implemented.

Performance Management systems were implemented for staff of the Department, including senior management.

Implementation of the Structural Efficiency Principle was substantially completed, with related job redesign activities conducted in all work units. These activities assisted in identifying opportunities for improvements in efficiency and productivity.

A comprehensive staff Training and Development Plan has been developed, for implementation during 1993/94. The Plan includes opportunities for

all levels of staff, including a career development program for base-grade administrative officers; information technology training; and management development.

The Workplace Health and Safety Committee provided special assistance to field officers, in the preparation for the 1993 geological survey field season. Assistance included the preparation of manuals covering basic health and safety issues such as four wheel driving techniques and first aid, and information sessions on duty of care issues for field officers.

Branch staff visited seven of the ten District Offices to provide high quality training in a variety of issues, including performance management systems, workplace health and safety and equal employment opportunity legislation. The remaining three District Offices were also provided this information via teleconference.

## INFORMATION TECHNOLOGY BRANCH

### Role

To provide computing resources and information processing services to gain productivity improvements for the Department and its clients.

### Strategies

- Develop and implement the information strategic plan.
- Develop, maintain and support information systems.
- Enhance computer-related skills throughout the Department.
- Plan and implement the Departmental data communications network.

- Manage the operations of the Department's mini-computers and local area networks.
- Provide support to users of personal computers and desk-top products.
- Develop and implement Departmental data standards.
- Develop awareness of leading edge information technology.
- Advise on quality management in information technology.

### Review of Activities

During the year, a review of the Department's information technology environment and directions took place. Strategies were developed to guide the development and use of information technology in a way that adds value to corporate goals and objectives.

Further enhancements to the Mining Tenures Data Base (MTDB) were undertaken. Of particular interest was the implementation of a facility to improve the effectiveness of the Department's environmental management program.

The MTDB is Stage I of the Minerals and Energy Resource Location and Information Network (MERLIN). Stage II of the project to develop the Geoscience and Resource Data Base (GRDB), commenced. The system analysis phase of this Data Base was completed.

The Lost-Time Accidents Data Base was enhanced, resulting in a better service to the mining industry in terms of quality statistics on mining safety.

The data base of information relating to old mine shafts in the Gympie area was further developed to improve the effectiveness of the Departmental operation in regard to the removal and management of these shafts.

The Office Network System was extended to cater for the increase in users from 100 to 250. Several new business applications were installed on the Network.

The Branch continued to provide assistance to Departmental staff in the area of computer training by working closely with Human Resource Management Branch to identify training needs and organise or conduct relevant courses and workshops.

A Help Desk service was established to provide fast assistance to users of the Department's computing facilities.

### INFORMATION SERVICES BRANCH

#### Role

**To provide communication and information services which facilitate productivity improvements for the Department and its clients, which meet legislative requirements and which enhance the perception and understanding of the Department and industry in the community.**

#### Strategies

- Market and sell Departmental products including geoscientific, technical safety and educational publications as well as maps, information posters, brochures, booklets and videos.
- Provide access to industry data through the Department's company reports collection, the Queensland Exploration Reports Index (QERI) and the drill core cuttings, rocks and fossils held at the Exploration Data Centre.
- Develop education resource materials that promote the economic and social benefits of the minerals and energy sector.
- Provide Library services, media liaison and records management.

- Produce the Queensland Government Mining Journal.
- Co-ordinate responses to requests made under the Freedom of Information Act 1992 and the Judicial Review Act 1992.
- Provide editorial and assistance with the layout and printing of publications and promotional material for client Divisions.
- Assist with speech writing and other promotional support to the Minister's Office.

### Review of Activities

Much of the Branch's efforts during the year went in supporting client Divisions in the production of promotional material, kits, reports videos etc for major conferences and the release of RA55.

An Opal Kit was produced in association with the Department of Business, Industry and Regional Development and the Winton Shire Council, promoting existing and proposed fossicking areas. A 10 minute promotional video on Mt Isa Inlier aimed at potential investors was also produced.

Work continued on the development of educational resource materials on the importance of the minerals and energy sector to the State's social and economic development. The material is due for release in October 1993.

Responsibility for the Exploration Data Centre was transferred to the Branch in July 1992. The Centre provides storage and retrieval services for the exploration drill core cuttings, rocks and fossils deposited by companies. The Centre holds around 144,000 boxes of core and cuttings in permanent rack storage and a further 15,000 in temporary storage awaiting processing. The geoscientific data available at the Centre assists industry to make informed decisions on future exploration.

The Department's Administrative Law Coordinator conducted training courses in head office and at all district offices. Implementation of FOI and Judicial Review processes within the Department has been successful with no applicants seeking a review of decisions regarding access. The

Department has taken a practical approach to implementation by balancing the desire for open government with the need to protect the business and personal interests of individuals about whom information is held.

The inaugural "Mining Week" (an initiative supported by Government, unions and the mining industry) was held to raise public awareness of the value of mining to the quality of life of Queenslanders. A documentary "Diggers" was produced to promote the week and a Teachers' Guide and Workbook was developed to promote use of the video in schools.

Initial work commenced on the "Minerals and Energy Review Queensland" in association with a private firm. This publication will bring together a large amount of statistical data which will assist government and industry. It is due for release early in the 93/94 financial year.

The 91/92 Annual Report produced in the Branch won a Merit award at the Institute of Internal Auditors judging.

The staff magazine "The Source" continues to recognise, inform and educate staff of the Department and link the various offices together.

# CORPORATE PLANNING AND EVALUATION UNIT

## Role

**To assist in the implementation of program management in the Department**

## Strategies

- Provide a corporate focus on a wide range of planning, evaluation and resource management issues.
- Facilitate the adoption of program management and undertake internal audits which meet Public Finance Standards requirements.

## Organisation

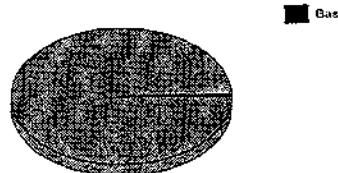
Corporate Planning and Evaluation Unit reports directly to the Deputy Director-General.

## Staff

5 staff including 4 staff involved in program management related activities and 1 internal auditor.

## Budget

\$266,830 Base



## Performance Targets

- Outcomes for the Department in:
  - a results-oriented focus;
  - improved level of accountability;
  - efficient and effective use of resources;
  - more informed executive decision making;

and

- the integration of strategic and operational planning with the budget cycle.

## Major Achievements

- Internal Audits were conducted for:
  - State Gas Pipeline Unit
  - Safety In Mines Testing And Research Station
  - Queensland Government Agency Pilot Project.
- The annual Client Survey was completed in October. It was designed to monitor client needs and perceptions following the major AGB survey in 1991. The survey provided input for the Strategic Plan and important information about the Department's performance.
- Performance monitoring was further integrated into the Department, with Assistant Directors' and Branch Managers' involvement in the monthly review of performance measurement information at Divisional Management Meetings.
- A joint Queensland Treasury and Departmental Program Evaluation of the Geological Survey Division was completed. The report was presented to the Minister in December. An Implementation Steering Committee was created which undertook an extensive planning process to produce a detailed strategy document to implement the recommendations.

An evaluation of the Energy Division began in January. The final report has been accepted by the Implementation Steering Committee.

## Review of Activities

The Strategic Plan for 1993-1998 was produced and was approved by Cabinet in January.

Operational Plans were prepared by each Division and presented to Queensland Treasury as the resource management report for the Department.

An evaluation of the Queensland Coal Board began in June.

An audit of the Queensland Centre for Advanced Technologies Agreement commenced in June.

The degree of Departmental compliance with the Financial Administration and Audit Act was enhanced by:

- implementation of financial controls over royalties and tenures administration; and
- coordination and review of each Division's system appraisals.

Staff from the Corporate Planning and Evaluation Unit also participated in the following activities during the year:

- Minerals and Energy Resources for Queensland Schools Project (MERQS);
- Information Technology Strategic Direction Project; and
- Facilitation and participation on PSMC working parties.

The completion of the Minerals Division evaluation will be the last program evaluation undertaken as part of the initial Public Finance Standards 3 year cycle. The Corporate Planning and Evaluation Unit will then have 5 years to complete evaluations of the Department's Programs. The first scheduled evaluation will be of the Corporate Services Program in 1994-95.

## Directions for the Future

During 1993-94, the Unit will:

- Facilitate the strategic planning process.
- Undertake the annual client survey.
- Review the current operational planning process and ensure linkage with the Strategic Plan and performance monitoring system.
- Coordinate corporate performance information for Executive Management.
- Evaluate program performance in accordance with the Public Finance Standards.
- Conduct internal audit activities in accordance with the Financial Administration and Audit Act.
- Address machinery of government issues as required.
- Implement an internal costing system for the Unit.

# CO-ORDINATION AND EXECUTIVE SUPPORT UNIT

## Role

To provide timely, quality liaison between the Department, Office of the Minister and Executive Government.

## Strategies

- Supervise all material prepared for consideration by Cabinet, Parliament and Executive Council;
- Co-ordinate the flow of information between the Department, other Government agencies, the Minister and Executive Government.
- Monitor the preparation of briefing papers, speeches and Ministerial correspondence involving Departmental policy, Parliamentary and Cabinet matters.

## Organisation

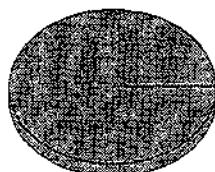
The Co-ordination and Executive Support Unit reports directly to the Deputy Director-General.

## Staff

3 staff, including the Cabinet, Legislation and Liaison Officer and two staff providing a range of executive support services.

## Budget

\$208,873 Base



■ Base

## Performance Targets

- Outcomes for the Department in:
  - improved standards of documentation seeking Executive Government approvals;
  - improved liaison between the Department, the Minister and Government agencies;
  - increased awareness of Government processes by Departmental officers.

## Major Achievements

- Regular consultation with senior officers of the Department has resulted in an improved understanding of Government processes, and the requirements of the central agencies and the Office of the Parliamentary Counsel, regarding standards and timing of documents submitted to Executive Government.
- Training and development in Executive Council processes has been provided to an officer from each of the Energy, Minerals and Corporate Services Divisions, the State Gas Pipeline and the Directorate.
- Implementation of efficient and effective information management systems has ensured that legislation, Cabinet and Executive Council documentation relevant to the portfolio is comprehensive and readily accessible.
- Implementation of efficient liaison procedures that ensure the turnaround of Ministerial correspondence within 14 days.

## Review of Activities

The Co-ordination and Executive Support Unit was newly created in 1992. Activities for the year have focussed on establishing systems and procedures that will ensure the effective and efficient operation of the Unit in meeting the goals of the Department.

23 internally-generated Cabinet Submissions have been processed and preparation of 220 Departmental Minutes for Executive Council purposes have been prepared.

Assistance has been provided to the Office of the Parliamentary Counsel in relation to the maintenance of the currency of the Queensland Statutes through the Statute Law (Miscellaneous Provisions) Acts.

The Executive Council Minute register 1986-1993 was implemented.

Registers of Portfolio Issues, Cabinet Decisions, Ministerial correspondence and briefing papers were maintained.

The consolidated legislation collection from 1989 to the present was updated.

### **Directions for the Future**

During 1993-94, the Unit will:

- Facilitate the preparation of Cabinet Submissions.
- Co-ordinate the review of subordinate legislation as part of the regulatory reform process.
- Act as principal liaison to the Office of the Parliamentary Counsel in the development of subordinate legislation.
- Act as principal liaison to the Office of the Minister in the co-ordination of information, policy advice and support.
- Participate in legislative review projects.
- Address Ministerial and Executive Management issues as required.

## OVERSEAS TRAVEL

### August

Mr Barrie Biggam (Senior Inspector of Coal Mines, Mackay) and Mr David Mackie (Mechanical Inspector of Coal Mines, Rockhampton) visited the USA to inspect the operation of highwall mining equipment which has subsequently been introduced to Queensland.

\$3,132.00

Mr John Fleming (Chief Gas Examiner) attended an ANZRA executive meeting in Auckland, New Zealand and met with New Zealand gas authorities in Wellington.

\$1,676.00

### September

Mr Mel Bell (Principal Mechanical Inspector of Coal Mines), and Mr Stuart Bell (Manager, Occupational Hygiene and Laboratory Services, SIMTARS), visited Poland, Czechoslovakia and Germany as part of a delegation of government, industry and union representatives investigating inertisation technology which is used to stabilise and recover underground mines after disasters.

\$17,219.00

### December

Mr Bob Brock (Manager, State Gas Pipeline Unit), attended a conference in Kuala Lumpur on natural gas transmission and distribution and to inspect major operations in the south-east Asia region.

\$2,917.00

### February

Ken Byers (Manager, Electrical Testing and General Services attended an International Electrotechnical Commission Standard Working Meeting on gas instruments in Orlando, USA and visited laboratories in the United States, Canada and the United Kingdom. The visit was funded partly by SIMTARS budget and partly commercially.

\$14,480.00

### March

The Honourable the Minister for Minerals and Energy, Mr Tony McGrady, travelled to London for the 2nd World Coal Conference and Exhibition from 23 - 26 March 1993. Mr Paul Balfe (Assistant Director, Energy Division) travelled with the Minister and presented a conference exhibit promoting the major release of coal exploration land in Central Queensland.

\$12,747.00

### May

The Honourable the Minister for Minerals and Energy, Mr Paul Breslin, (the Director-General of the Department), and Mr Balfe (Assistant Director, Energy Division) formed part of a delegation to Japan, Korea, Hong Kong, China and Taiwan again to promote the major release of coal exploration land.

\$7,268.00

# APPENDIX

## ENERGY DIVISION

### Publications

#### Coal Resources

D'ARCY, R.K., DIXON O., & MATHESON S.G. 1993: Joint NEDO-DME Research Project, Taroborah Area. Year One Progress Report. *Queensland Geological Record 1993/8*.

MATHESON S.G., 1993: Coal geology of the Rugby area. *Queensland Geological Record 1993/7*.

#### Central Queensland Coal Exploration Land Release Documents

- Brochure "Opportunities in Queensland Coal"
- Initial Advice Document
- Common Reference Document
- Technical Information Packages:
  - Cullin-la-ringo (Cullin-la-ringo RA279; Gindie/Minerva RA286)
  - Kingower (Kingower RA289)
  - Lake Vermont (Lake Vermont RA280)
  - Minyango (Minyango RA281)
  - Moranbah (Moranbah RA284; Moranbah South RA278; Peak Downs East RA285)
  - Red Hill (Red Hill RA287)
  - Rugby (Rugby RA288)
  - Togara (Togara North RA282; Togara South RA283)

#### Coal Mining Health & Safety

- 1991/1992 Analysis of Lost Time Accidents
- Numerous Safety Alert Bulletins

#### Environmental Management

WELSH, D.R., 1992: Overview of Environmental Practices in the Queensland Coal Mining Industry - The Regulatory Framework. *Australian Mining Industry Council, Seventeenth Annual Environmental Workshop, Yeppoon 1992*.

WELSH, D.R., 1992: Key Elements of an Environmental Management Overview Strategy. *Queensland Coal Owners/Department of Resource Industries (now Department of Minerals and Energy) Conference, July 1992*.

WELSH, D.R., 1992: Environmental Management for Mining in Queensland. *Fitzroy River Catchment Symposium, University of Central Queensland, November 1992*.

## APPENDIX

### Petroleum Resources

PETROLEUM RESOURCES BRANCH, 1993: Petroleum Operations, Production and Reserves - *Annual Report 1991-92*. Queensland Minerals & Energy Record 1993/5.

PETROLEUM RESOURCES BRANCH, 1992: Review of Coalbed Methane Drainage in Queensland. *Queensland Government Mining Journal, 1992* October, 12-19.

SCOTT, S.G., 1993: Coal Seam Methane Potential of the Maryborough Basin. *Queensland Government Mining Journal, 1993* March, 6-9.

SCOTT, S.G., 1993: Review of Coal Seam Methane Exploration in Queensland. *Queensland Government Mining Journal, 1993* March, 10-13.

### Guidebooks (Rocks and landscapes)

BEESTON, J.W. & GRAY, A.R.G., 1993: The Ancient Rocks of Carnarvon Gorge. *Department of Minerals and Energy, Queensland, Brisbane*.

### External and Other Publications

PASSMORE, V.L., WILLIAMSON, P.E., MAUNG, T.U. & GRAY, A.R.G., 1993: The Gulf of Carpentaria - a New Basin and New Exploration Targets. *APEA Journal, 33* (Part 1), 297-314.

PASSMORE, V.L., WILLIAMSON, P.E., GRAY, A.R.G., and WELLMAN, P., 1993: The Bamaga Basin - a New Exploration Target. Carmen, G.J. & Z, (Editors), 233-240 *Proceedings of the Second PNG Petroleum Convention, Port Moresby, May-June 1993*.

SCOTT, S.G., 1992: Coalbed Methane in Queensland. *Joint DRI/QCO Coal Industry Conference, Capricorn International Resort, August 1992*.

SCOTT, S.G. & HAWKINS, P.J., 1992: Coal Geology of the northern Galilee Basin and its implications for coal seam methane investigations. *Symposium on Coalbed Methane Research and Development in Australia, Townsville, November 1992*, 5, 85-102.

Issues Affecting the Wider Use of Coal Seam Methane. *Report to the Australian Coal Industry Council by the Working Group on Coal Seam Methane* (co-authored by S.G. Scott), **February 1993**.

Summary data package for petroleum land release in the Georgina, Adavale, Galilee, Cooper, and Eromanga Basins, **July 1992** by *Petroleum Resources Branch, Energy Division*.

Summary data package for petroleum land release in the Surat and Bowen Basins, **March 1993** by *Petroleum Resources Branch, Energy Division*.

### GEOLOGICAL SURVEY DIVISION

#### Publications

##### Minerals and Energy Review Series

WALLIS, D.S., 1993: Antimony in Queensland. A commodity review and metallogenic study, **April 1991**. *Queensland Minerals and Energy Review Series*. Department of Minerals and Energy, Queensland.

##### Queensland Geology

HAWKINS, P.J., JACKSON, K.S., & HORVATH, Z., 1992: Regional geology, petroleum geology, and hydrocarbon potential of the southern Taroom Trough, Bowen Basin, Queensland. *Queensland Geology*, 3.

WITHNALL, I.W., & LANG, S.C. (Editors), 1993: Geology of the Broken River Province, North Queensland. *Queensland Geology*, 4.

##### Queensland Resource Industries Records

BLAKE, P., 1992: The sedimentary provinces of the Cape York Peninsula/Gulf of Carpentaria area - a summary of their geological history, and mineral and energy resources. *Queensland Resource Industries Record 1991/16*.

BRUVEL, F.J., & MORWOOD, D.A., 1992: Mineral occurrences - Cape Weymouth 1:100 000 Sheet area, Cape York Peninsula, Queensland. *Queensland Resource Industries Record 1992/4*.

BULTITUDE, R.J., 1992: Granites of the eastern Hodgkinson Province - their field and petrographic characteristics. *Queensland Resource Industries Record 1992/6*.

CRANFIELD, L.C.: Geology of the Lyndbrook 1:100 000 Sheet area. *Queensland Resource Industries Record 1992/19*.

CULPEPER, L.G., & BURROWS, P.E., 1992: Mineral occurrences - Hann River 1:250 000 Sheet area, Cape York Peninsula, Queensland. *Queensland Resource Industries Record 1992/18*.

CULPEPER, L.G., GARRAD, P.D., & BURROWS, P.E., 1992: Mineral occurrences - Ebagoola 1:250 000 Sheet area, Cape York Peninsula, Queensland. *Queensland Resource Industries Record 1992/14*.

DENARO, T.J., 1992: A compilation of mine production data for the Stanthorpe Mining District from Annual Reports of the Department of Mines. *Queensland Resource Industries Record 1992/12*.

DENARO, T.J., & MORWOOD, D.A., 1992: Mineral occurrences - Temple Bay 1:100 000 Sheet area, Cape York Peninsula, Queensland. *Queensland Resource Industries Record 1992/13*.

DENARO, T.J., & MORWOOD, D.A., 1992: Mineral occurrences - Lockhart River and Cape Sidmouth 1:100 000 Sheet areas, Cape York Peninsula, Queensland. *Queensland Resource Industries Record 1992/20*.

DENARO, T.J., & MORWOOD, D.A., 1992: Mineral occurrences - Wenlock 1:100 000 Sheet area, Cape York Peninsula, Queensland. *Queensland Resource Industries Record 1992/21*.

## APPENDIX

DONCHAK, P.J.T., BULTITUDE, R.J., ROBERTSON A.D., HEGARTY R.A. & HALFPENNY, R.W., 1992: Geology of the Helenvale and Mossman 1:100 000 Sheet areas, northern Queensland. *Queensland Resource Industries Record 1992/15*.

GUNTHER, M.C. & WITHNALL, I.W., 1992: Late Palaeozoic igneous rocks of the Rollingstone & Ewan 1:100 000 Sheet areas. *Queensland Resource Industries Record 1992/17*.

MORWOOD, D.A., 1992: A compilation of mine production data for the Kangaroo Hills Mineral Field, north Queensland, from Annual Reports of the Department of Mines (1887-1990). *Queensland Resource Industries Record 1992/9*.

QUARANTOTTO, P., & BRAIN, T.J., 1992: Hydrocarbon indications in water bores, southern Eromanga Basin. *Queensland Resource Industries Record 1992/16*.

### Queensland Geological Records

BULTITUDE, R.J., 1993: Granites of the Cape Melville 1:250 000 Sheet area. *Queensland Geological Record 1993/10*.

BULTITUDE, R.J. & CHAMPION, D.C., 1993: New and revised granite units in the eastern part of the Cooktown and northeastern part of the Mossman 1:250 000 Sheet areas, North Queensland. *Queensland Geological Record 1993/16*.

CULPEPER, L.G., 1993: Mineral occurrences - Carpentaria and Karumba Basins, Cape York Peninsula, Queensland. *Queensland Geological Record 1993/19*.

CRANFIELD, L.C. & SCOTT, M., 1993: Geology of the Gympie Special area (9445, 9545). *Queensland Geological Record, 1993/20*.

D'ARCY, R.K., DIXON, O., & MATHESON, S.G., 1993: Joint NEDO-DME research project, Taroborah area. Year one progress report. *Queensland Geological Record 1993/8*.

DASH, P.H., & HARTLEY, J., 1993: Mineral Occurrences - Charters Towers 1:100 000 Sheet area. *Queensland Geological Record 1993/6*.

DENARO, T.J., 1993: Mineral occurrences - Torres Strait 1:250 000 Sheet area, Cape York Peninsula, Queensland. *Queensland Geological Record 1993/18*.

DENARO, T.J., & SHIELD, C.J., 1993: Coal and petroleum exploration, Cape York Peninsula. *Queensland Geological Record 1993/15*.

DENARO, T.J., CULPEPER, L.G., MORWOOD, D.A., & BURROWS, P.E., 1993: Mineral occurrences - Coen, Rokeby and Silver Plains 1:100 000 Sheet areas, Cape York Peninsula, Queensland. *Queensland Geological Record 1993/9*.

GARRAD, P.D., & LAM, J.S., 1993: Mineral Occurrences Emerald 1:250 000 Sheet area. *Queensland Geological Record 1993/2*.

GARRAD, P.D., 1993: Mineral Occurrences - Mount Mulligan 1:100 000 Sheet area, north Queensland. *Queensland Geological Record 1993/11*.

## APPENDIX

HAYWARD, M.A., 1993: Analysis of magnetic susceptibility data from the Ravenswood Batholith. *Queensland Geological Record 1993/21*.

HUTTON, L.J., & CROUCH, S.B.S., 1993: Geochemistry and petrology of the Western Ravenswood Batholith. *Queensland Geological Record 1993/22*.

LAM, J.S. & GARRAD, P.D., 1993: Mineral Occurrences - Monteagle (8352) & Albro (8252) 1:100 000 Sheet areas, Central Queensland. *Queensland Geological Record 1993/1*.

LITTLE, T.A., 1993: Geology of the Manumbar area, North D'Aguilar Block, southeast Queensland. *Queensland Geological Record 1993/3*.

ROBERTSON, A.D., 1993: Geophysical exploration and drilling of the Tararan vent. *Queensland Geological Record 1993/4*.

ROBERTSON, A.D., 1993: Cainozoic Volcanism in the Butchers Hill 1:100 000 Sheet area (7866) North Queensland. *Queensland Geological Record 1993/12*.

### Queensland Government Mining Journal

COOPER, W., & CARMICHAEL, D.C., 1992: Ceramic resources of Queensland. *Queensland Government Mining Journal*, 93 (November), 29-34.

DAY, R.W., 1993: 125 years down the Survey Track. *Queensland Government Mining Journal*, 94 (May), 110.

DENARO, T.J., 1993: Progress report on geological data collection for the Cape York Peninsula Land Use Strategy (CYPLUS). *Queensland Government Mining Journal*, 94 (April), 27-31.

DENARO, T.J., & CULPEPER, L.G., 1992: The diverse mineral resources of Cape York. *Queensland Government Mining Journal*, 93 (September), 28-36.

HUTTON, L.J. & CROUCH, S.B.S., 1993: New and revised Igneous units in the Charters Towers and Dotswood 1:250 000 Sheet areas. *Queensland Government Mining Journal*, 94 (May), 32-46.

PARFREY, S.M., 1993: Hats off to the fossil pioneers who helped pave the way to mineral wealth. *Queensland Government Mining Journal*, 94 (May), 11-16.

ROBERTSON, A.D., & SUTHERLAND, F.L., 1993: A note on the petrology and age of the basalt in the vicinity of Childers. *Queensland Government Mining Journal*, 94 (March), 15-17.

SCOTT, M. & CRANFIELD, L.C., 1993: Geological mapping in the Gympie 1:100 000 Sheet area - an update for 1991-1992. *Queensland Government Mining Journal*, 94 (February), 22-30.

WALLIS, D.S., 1993: Queensland Mineral Commodity Report - Copper. *Queensland Government Mining Journal*, 94 (June), 11-26.

### Rocks and Landscapes Series

BEESTON, J.W., & GRAY, A.R.G., 1993: The ancient rocks of Carnarvon Gorge. *Department of Minerals and Energy, Queensland. Brisbane*.

## APPENDIX

### External and Other Publications

BEESTON, J.W., 1992: Resino-inertinites of Indian Permian Coals - their origin, genesis and classification - Comment. *International Journal of Coal Geology*, **21**, 283-285.

BLACK, L.P., BULTITUDE, R.J., SUN, S-S., KNUTSON, J., & BLEWETT, R.S., 1992: Emplacement ages of granitic rocks in the Coen Inlier (Cape York): implications for local geological evolution and regional correlation. *BMR Journal of Australian Geology & Geophysics*, **13**, 191-200.

BLACK, L.P., BULTITUDE, R.J., SUN, S-S., KNUTSON, J., & BLEWETT, R.S., 1992: U-Pb analytical results for granitic rocks from the Coen Inlier, north Queensland. *Bureau of Mineral Resources, Australia, Record 1992/64*.

BLEWETT, R.S., TRAIL, D.S., & von GNIELINSKI, F.E., 1992: The stratigraphy of metamorphic rocks of the Ebagoola 1:250 000 Sheet area in Cape York Peninsula, North Queensland. *Mineral Provinces 21. Bureau of Mineral Resources, Australia, Record 1992/74*.

COOPER, W., & CARMICHAEL, D.C., 1992: Ceramic resources in Queensland: *In* Bannister, M.J., (Editor), *Ceramics, adding the value*. Proceedings of the International Ceramic Conference, Australia, 1992, **(1)**, 77-82.

COOPER, W., & KROSCH, N.J., 1993: *Queensland Opal*. Department of Minerals and Energy, Queensland.

DAY, R.W., 1993: Daintree's Legacy. 125 years of Geological Surveying in the Townsville-Charters Towers area *In* Henderson, R.A. (Editor): *Guide to the economic geology of the Charters Towers region, Northeastern Queensland*. Geological Society of Australia, Queensland Division, Brisbane, 29-31.

DRAPER, J.J., 1992: Geology and Mineral Resources of the Fitzroy River Catchment area: *In* Proceedings of Fitzroy Catchment Symposium. 17 p.

DURIE, R.A., HAWKINS, P.J., & KUKLA, G.T., 1992: The Galilee Basin coal measures: A potential methane source? - A case for well planned, integrated exploration and R & D programme *In* Beamish, B.B. & Gamson, P.D. (Editors): *Symposium on coalbed methane research and development in Australia - Volume 1*. James Cook University of North Queensland, Townsville, 81-92.

EDGAR, N.T., CECIL, C.B., GRIM, M.S., JONES, M.R., & SEARLE, D.E. 1992: Gulf of Carpentaria, a modern analogue for tropical epicontinental sea sedimentation. *Abstract - Geological Society of America, Annual Meeting, U.S.A.*

EWERS, G.R., & BAIN, J.H.C. (Editors), 1992: Preliminary Map Commentary - Australia 1:250 000 Basement Geology and Regolith Landforms: Ebagoola (SD54-12), Queensland. *Bureau of Mineral Resources, Australia, Record 1992/71*.

EVANS, K.G, STEPHENS, A.W., & SHORTEN, G.G., 1992: Quaternary sequence stratigraphy of the Brisbane River delta, Moreton Bay, Australia. *Marine Geology*, **107**, 61-79.

FIELDING, C.R., KASSAN, J. & DRAPER, J.J., 1993: Geology of the Bowen and Surat Basins, eastern Australia. 5th International Conference on Fluvial Sedimentology - Field Excursion No 2 Guidebook.

## APPENDIX

FORDHAM, B.G., 1992: Chronometric calibration of mid-Ordovician to Tournaisian conodont zones: a compilation from recent graphic-correlation and isotope studies. *Geological Magazine*, **129**, 709-721.

HAWKINS, P.J., & GREEN, P.M., 1993: Exploration results, hydrocarbon potential and future strategies for the northern Galilee Basin. *The APEA Journal*, **33**(1), 280-296.

HILL, P.G., & CRANFIELD, L.C., 1992: Offshore Maryborough Basin, extent, structure, and petroleum potential from new geophysical survey: *In Cenozoic and Mesozoic basins of offshore Australia. Abstracts from the AAPG International Conference, Sydney 1992. American Association of Petroleum Geologists Bulletin*, **76**, 7, 1107-1108.

HOLMES, K.H., 1992: Townsville-Rollingstone coastal sector. *Department of Minerals and Energy, Marine & Coastal Investigations Project Report MA50/2*.

HOLMES, K.H., 1992: Johnstone River coastal sector. *Department of Minerals and Energy, Marine & Coastal Geology Unit Project Report MA50/6*.

HOLMES, K.H., 1992: Russell - Mulgrave coastal sector. *Department of Minerals and Energy, Marine & Coastal Geology Unit Project Report MA50/7*.

HOLMES, K.H., 1993: Geological controls on coastal stability of the coast between Cape Pallarenda and Cape Grafton. *Department of Minerals and Energy, Marine & Coastal Geology Unit Project Report MA50/1*.

HOLMES, K.H., 1993: Herbert River coastal sector. *Department of Minerals and Energy, Marine & Coastal Geology Unit Project Report MA50/3*.

HOLMES, K.H., 1993: Tully River coastal sector. *Department of Minerals and Energy, Marine & Coastal Geology Unit Project Report MA50/4*.

HOLMES, K.H., & JONES, M.R., 1993: Kurrimine - Cowley Beach coastal sector. *Department of Minerals and Energy, Marine & Coastal Geology Unit Project Report MA50/5*.

HOLMES, K.H., JONES, M.R., & SEARLE, D.E., 1992: Varzin Passage: Geology & Morphology. *Department of Resource Industries, Marine & Coastal Investigations Project Report MA64/5*.

HOLMES, K.H., JONES, M.R., & SEARLE, D.E., 1992: South Hocking Shoals: Geology & Morphology. *Department of Resource Industries, Marine & Coastal Investigations Project Report MA64/6*.

HUTTON, L.J., HARTLEY, J.S., & RIENKS, I.P., 1993: Geology of the Charters Towers region *In HENDERSON, R.A. (Editor): Guide to the economic geology of the Charters Towers region, Northeastern Queensland. Geological Society of Australia, Queensland Division, Brisbane*, 1-12.

HUTTON, L.J., RIENKS, I.P., & WYBORN, D. 1992: Granites of the Ravenswood Batholith, Northern Australia. (Abstract). *Transactions of the Royal Society of Edinburgh, Earth Sciences*, **83** (1&2), 492.

JOHN, B.J., 1992: Sedimentology and stratigraphy of the Catherine Sandstone, Denison Trough, east-central Queensland. Msc thesis, The University of Queensland.

JOHN, B.J., & FIELDING, C.R., 1993: Reservoir potential of the Catherine Sandstone, Denison Trough, east-central Queensland. *The APEA Journal*, **33**(1), 176-187.

## APPENDIX

JONES, M.R., 1992: Quaternary evolution of the Woorim-Point Cartwright coastline. *Department of Minerals and Energy, Marine & Coastal Investigations Project Report MA49/2* (2 vols).

JONES, M.R., 1993: Nearshore sediments - Cape Hillsborough to Gloucester Island. *Department of Minerals and Energy Marine & Coastal Geology Unit Project Report MA66/1*.

JONES, M.R., HOLMES, K.H., & SEARLE, D.E., 1992: Prince of Wales Channel: Geology & Morphology. *Department of Resource Industries, Marine & Coastal Investigations Project Report MA64/4*.

CASTANIS, L.E., & CRANFIELD, L.C., 1992: Use of remotely sensed data to identify and map rubber vine (*Cryptostegia grandiflora*) in northern Australia: *In 6th Australasian Remote Sensing Conference*. 2-6th November 1992 Wellington New Zealand. 1, 410-412.

PASSMORE, V.L., MAUNG, T.U., GRAY, A.R.G., WILLIAMSON, P.E., LAVERING, I.H., BLAKE, P., VUCKOVIC, V., & MIYAZAKI, S., 1992: Gulf of Carpentaria petroleum prospectivity study. *Bureau of Mineral Resources, Australia, Record 1992/20*.

REES, I.P., 1992: Geology, petrogenesis and copper mineralisation of the Anakie Metamorphics, Rosevale area, Clermont, Central Queensland. B.Sc. (Honours) Thesis, University of Queensland.

ROBERTSON, A.D.C., & SUTHERLAND, F.L., 1992: Possible origins and ages for sapphire and diamond from the central Queensland gem fields: *In Sutherland, F.L., (editor): R.O. Chalmers, Commemorative Papers (Mineralogy, Meteoritics, Geology). Records of the Australian Museum, Supplement 15*, 45-54.

SCOTT, S.G., & HAWKINS, P.J., 1993: Coal geology of the northern Galilee Basin and its implications for coalseam methane investigations: *In Beamish, B.B. & Gamson, P.D. (Editors): Symposium on coalbed methane research and development in Australia - Volume 5*. James Cook University of North Queensland, Townsville, 85-102.

SEARLE, D.E., JONES, M.R., & HOLMES, K.H., 1992: Gneering Shoal: Geology & Morphology. *Department of Resource Industries, Marine & Coastal Investigations Project Report MA64/1*.

SEARLE, D.E., JONES, M.R., & HOLMES, K.H., 1992: Meaburn Rock: Geology & Morphology. *Department of Resource Industries, Marine & Coastal Investigations Project Report MA64/2*.

SEARLE, D.E., JONES, M.R., & HOLMES, K.H., 1992: Iris Shoal: Geology & Morphology. *Department of Resource Industries, Marine & Coastal Investigations Project Report MA64/3*.

STEPHENS, A.W., 1992: Geological evolution and earth resources of Moreton Bay. *In Crimp, O.N. (Editor): Moreton Bay in the Balance*. Australian Littoral Society Inc., Moorooka, 3-23.

STEPHENS, A.W., 1993: Evolution of the Proserpine Coastal Plains. *Geological Survey of Queensland, Department of Minerals & Energy. Marine & Coastal Geology Project Report 66/2*.

TENISON WOODS, K. & RIENKS, I.P., 1992: New insights into the structure and subdivision of the Ravenswood Batholith - a geophysical perspective. (Presented at 9th ASEG Conference, Gold Coast, 8 October). *Exploration Geophysics*, 23, 353-360.

WITHNALL, I.W., GRIMES, K.G., LANG, S.C., & THORNTON, M.P., 1992: Computerised geological field data management in Queensland - the REGMAP system: *In Geographic information systems, cartographic and geoscience data standards*. Bureau of Mineral Resources, Geology and Geophysics. 18-20 March 1992 - Workshop Proceedings. *Bureau of Mineral Resources, Australia, Record 1992/27*, 181-197.

## APPENDIX

Maps Released	Mineral Occurrence Maps 1:250 000
<b><u>Multi-colour Geological Maps</u></b> 1:250 000 Camel Creek Special	Emerald Hann River Torres Strait
<b><u>Preliminary Geological Maps</u></b> (Dyeline) 1:100 000	1:100 000
Butchers Hill Charters Towers Dotswood Hillgrove Kangaroo Hills Mining Field Ravenswood	Charters Towers (includes 1:10 000 sheet) Coen-Silver Plains Gympie ( includes 2 x 1:10 000 sheets) Kangaroo Hills Special Lockhart River-Cape Sidmouth Mossman Mount Mulligan Rumula (includes 1:25 000 sheet)
<b><u>Photo Scale Geological Maps</u></b> (Dyeline - Compilation Sheets) 1:100 000 Sheet areas	Special Western Cape York Peninsula
Butchers Hill (12 sheets) Dotswood (12 sheets) Gympie (8 sheets) Hillgrove (3 sheets) Ravenswood (12 sheets)	<b><u>Resource Maps</u></b> Queensland Opal (3 maps)
<b><u>Data Captured Digitally</u></b> (1:100 000 Sheet Area)	<b><u>Other Digital Maps</u></b> Complete coverage of raster images of 1:250 000 Geological Maps over the State. 1:2 500 000 State Geological Map
Anakie Atherton Bellevue Bullock Creek Burges Byerwen Cashmere Charters Towers Chudleigh Park Clarke River Clermont Conjuboy Cooktown Franfield Gayndah Harrybrandt Helenvale Hillalong Kilcummin	<b>Data Sets Released</b> MINOCC Datasets 1:100 000 Sheet area Cape Sidmouth Cape Weymouth Coen Charters Towers Gympie/Laguna Bay Lockhart River Mossman Mount Mulligan Monteagle/Albro Rokeby Silver Plains Wenlock

## APPENDIX

1:250 000 Sheet area

Aurukun  
Emerald  
Galbraith  
Hann River  
Holroyd  
Jardine River  
Orford Bay  
Rutland Plains  
Torres Strait  
Walsh  
Weipa

Historic Mine Production Datasets

Stanthorpe Mining District

## SIMTARS

## Papers

ASMADI, T.M.T., JUST, G.D. & ASPINALL, T.O., 1992: Improved planning and scheduling by integration of mining applications software. In: *Third Large Open Pit Mining Conference, Mackay, 30 August - 3 September 1992 - Parkville, Vic., Australian Institute of Mining and Metallurgy.* 447-454.

BELL, S.L., TIERNAN, G., GLASSCOCK, A., ARNOLD, K., O'REGAN, D., MILBURN, R. & GLOVER, D., 1993: Longwall dust control. In: *Minesafe International 1993: conference poster papers - Perth, W.A. Chamber of Mines and Energy of Western Australia.* 41-46.

BIRTWHISTLE, D., BYERS, K.J., CRISP, J. & DAS GUPTA, S., 1992: Arcing in flameproof enclosures. In: Volume 1, W.T. Williams (Editor): *Proceedings of the Tenth International Conference on Gas Discharges and their Applications: Swansea 13-18 September 1992.* Swansea, Wales. Department of Physics, University College of Swansea. 164-167.

BOFINGER, C.M., BROMWICH, D., MCTAINSH & G., 1992: Use of a Coulter multisizer to characterise lead particulates. In: *Proceedings: the eleventh Conference and Annual General Meeting of the Australian Institute of Occupational Hygienists. "Occupational hygiene in industry": the Albert Hall Convention Centre, Launceston, Tasmania, Monday 7 December to Wednesday 9 December 1992.* Australian Institute of Occupational Hygienists. 73-76.

CRISP, J., DAS GUPTA, S., BYERS, K.J. & BIRTWHISTLE, D., 1992: Measurement and modelling: Arc faults in flameproof enclosures. In: K.Hoffman (Editor): *AUPCEC 92: Australasia Universities Power and Control Engineering Conference, Queensland University of Technology, 1-2 October 1992 proceedings.* Brisbane: Queensland University of Technology. 389-398.

DENT, P.J., 1992: Safety in Mines Testing and Research Station (SIMTARS). *Australian Coal Journal.* 38, 37-39.

GRAY, I., 1992: Development of in-seam drilling for the production of methane. In: B.B. Beamish & P.D. Gramson (Editors): *Symposium on Coalbed Methane Research and Development in Australia: 19-21 November 1992, Townsville, Australia.* 3. James Cook University of North Queensland. 49-59.

JUST, G.D., KENNERLEY, P. & PHILLIPS, R., 1992: Horizontal drilling in coal for exploration and seam gas drainage. In: *Proceedings of the International Drill '92 Conference, Perth, W.A., October 1992.*

ROWLANDS, J.C. & JUST, G.D., 1992: Performance characteristics of dragline buckets. In: *Third Large Open Pit Mining Conference, Mackay, 30 August - 3 September 1992 - Parkville, Vic., Australian Institute of Mining and Metallurgy.* 89-92.

## APPENDIX

### Reports

BIRTWHISTLE, D., BYERS, K.J., CRISP, J. & DAS GUPTA, S., 1992: Arc fault containment in flameproof enclosures (Stage 2). *SIMTARS*, Redbank, Qld.

CLIFF, D.I., BELL, S.L., REINHART, D.D. & RINTOUL, L., 1992: Research into the continuous detection of low levels of hydrogen gas in coal mines. End of grant report (National Energy Research, Development and Demonstration Program Australia), 1049, *NERDDP EG/92/1049*, The Program, Canberra, A.C.T.

### Articles in the Queensland Government Mining Journal

CLIFF, D.I., BELL, S.L., REINHART, D.D., BARNETT, K., RINTOUL, L. & STEWART, S., 1992: Early detection and monitoring of fires and heatings in underground coal mines. *Queensland Government Mining Journal* 93, no.1089. 5-7.

CLIFF, D.I., 1992: Future directions for the detection and monitoring of heatings and fires in underground coal mines. *Queensland Government Mining Journal* 93, no.1093. 13-15.

GREEN, A.R. & GOLLEDGE, P., 1992: Explosion research for longwall mining. *Queensland Government Mining Journal* 93, no.1090. 11-13.

URBANIK, W (WIESLAW), ROWLANDS, D, 1992: Subsidence angle of draw, straight line or curved? *Queensland Government Mining Journal* 93, no.1088. 30-34.

**PROGRAM STATEMENT FOR 1992-93**

	Program (Program Area Code)					
	Geological Survey (091)		Corporate Services (091)		Energy (091)	
	1992-93	1991-92	1992-93	1991-92	1992-93	1991-92
<b>Program Outlays</b>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Current Outlays						
Salaries, Wages and Related Payments .....	3,640	4,348	7,891	7,896	4,532	4,593
Contributions for Employee Entitlements (a) .....	450	464	878	744	461	447
Administrative .....	1,032	791	3,376	8,593	4,548	4,254
Interest .....	..	..	..	..	7,788	10,861
Current Grants and Subsidies (b) .....	..	..	500	493	..	..
Contributions to the Queensland Coal Board .....	..	..	500	493	..	..
Coal Mining Industry Long Service Leave Trust Fund .....	..	..	6,687	4,717	..	..
Other Grants and Subsidies .....	..	1	..	70	21	4
Total Current Outlays .....	5,123	5,604	19,332	22,513	17,350	20,159
Capital Outlays						
Fixed Capital Expenditure .....	30	..	4,505	2,656	531	571
Plant and Equipment .....	93	242	841	754	283	454
Capital Grants and Subsidies (b) .....	..	..	..	..	..	3
Other Capital Outlays .....	-181	-341	9,013	9,208	-66	132
Total Capital Outlays .....	-58	-99	14,359	12,618	749	1,160
Capital Recoveries/Financing Transactions						
Repayment of Loans and Advances .....	..	..	..	..	8,207	4,393
Other Financing Transactions .....	19	26	162	44	166	111
Total Capital Recoveries/Financing Transactions .....	19	26	162	44	8,372	4,504
<b>Gross Outlays Before Allocation of Corporate Services .....</b>	<b>5,083</b>	<b>5,531</b>	<b>33,854</b>	<b>35,176</b>	<b>26,471</b>	<b>25,823</b>
Allocation of Corporate Services .....	5,510	7,251	-27,968	-30,195	6,852	8,026
<b>Gross Outlays .....</b>	<b>10,593</b>	<b>12,781</b>	<b>5,886</b>	<b>4,980</b>	<b>33,323</b>	<b>33,849</b>
Revenue Retained (Section 34B) .....	..	..	-79	..	..	..
<b>Net Outlays .....</b>	<b>10,593</b>	<b>12,781</b>	<b>5,808</b>	<b>4,980</b>	<b>33,323</b>	<b>33,849</b>
<b>Collections Administered on Behalf of the Government (c) .....</b>						
Commonwealth Payments .....	..	..	6,617	5,398	..	..
Taxes, Fees and Fines .....	..	..	..	..	1,923	1,650
Territorial .....	..	..	250,397	217,245	467	..
Property Income .....	2	5	-228	-355	158	80
Receipts for Goods and Services .....	70	3	1,758	1,266	19,302	18,766
Miscellaneous Receipts .....	-1	..	367	1,545	1,248	1,464
Capital Recoveries/Financing Transactions .....	..	961	1	10	..	..
Intra Public Accounts - Unrequited Transfers .....	..	..	2	..	..	..
<b>Total Collections Administered .....</b>	<b>71</b>	<b>969</b>	<b>258,914</b>	<b>225,109</b>	<b>23,097</b>	<b>21,960</b>

(a) The figures reported for Contributions to Employee Entitlements do not agree with those reported in the previous year as they have been recast to provide a valid comparison with 1992-93 expenditure.

(b) Details are provided in Note 2.

(c) Details are provided in Note 3.

# PROGRAM STATEMENT FOR 1992-93 - (continued)

	Program (Program Area Code)			
	Minerals (091)		Total of all Programs	
	1992-93	1991-92	1992-93	1991-92
<b>Program Outlays</b>	\$'000	\$'000	\$'000	\$'000
Current Outlays				
Salaries, Wages and Related Payments .....	6,589	6,673	22,652	23,510
Contributions for Employee Entitlements (a) .....	808	783	2,598	2,438
Administrative .....	3,634	3,361	12,590	16,999
Interest .....	102	149	7,890	11,009
Current Grants and Subsidies (b) .....	..	..		
Contributions to the Queensland Coal Board .....	..	..	500	493
Coal Mining Industry Long Service Leave Trust Fund .....	..	..	6,687	4,717
Other Grants and Subsidies .....	..	..	21	75
Total Current Outlays .....	11,132	10,965	52,938	59,242
Capital Outlays				
Fixed Capital Expenditure .....	116	31	5,183	3,258
Plant and Equipment .....	208	319	1,425	1,769
Capital Grants and Subsidies (b) .....	..	..	..	3
Other Capital Outlays .....	-227	-251	8,539	8,748
Total Capital Outlays .....	98	99	15,147	13,778
Capital Recoveries/Financing Transactions				
Repayment of Loans and Advances .....	480	144	8,687	4,537
Other Financing Transactions .....	266	170	613	351
Total Capital Recoveries/Financing Transactions ..	746	314	9,300	4,888
<b>Gross Outlays Before Allocation of Corporate Services</b> .....	<b>11,976</b>	<b>11,379</b>	<b>77,385</b>	<b>77,908</b>
Allocation of Corporate Services .....	15,606	14,918	..	..
<b>Gross Outlays</b> .....	<b>27,582</b>	<b>26,297</b>	<b>77,385</b>	<b>77,908</b>
Revenue Retained (Section 34B) .....	..	..	-79	..
<b>Net Outlays</b> .....	<b>27,582</b>	<b>26,297</b>	<b>77,306</b>	<b>77,908</b>
<b>Collections Administered on Behalf of the Government (c)</b>				
Commonwealth Payments .....	..	..	6,617	5,398
Taxes, Fees and Fines .....	275	143	2,198	1,794
Territorial .....	10,765	10,545	261,628	227,790
Property Income .....	..	..	-68	-270
Receipts for Goods and Services .....	431	538	21,561	20,573
Miscellaneous Receipts .....	..	101	1,614	3,110
Capital Recoveries/Financing Transactions .....	..	..	1	971
Intra Public Accounts - Unrequited Transfers .....	..	..	2	..
<b>Total Collections Administered</b>	<b>11,471</b>	<b>11,328</b>	<b>293,553</b>	<b>259,365</b>

(a) The figures reported for Contributions to Employee Entitlements do not agree with those reported in the previous year as they have been recast to provide a valid comparison with 1992-93 expenditure.

(b) Details are provided in Note 2.

(c) Details are provided in Note 3.

**STATEMENT OF ASSETS AND LIABILITIES AS AT 30 JUNE 1993**

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	Note	1992-93 \$'000	1991-92 \$'000
<b>CURRENT ASSETS</b>			
Cash	5	8,171	9,356
Receivables	6	3,724	2,499
Loans and Advances	8	..	128
Inventories	9	637	402
Other	10	5	...
 <b>NON-CURRENT ASSETS</b>			
Investments	7	1,120	426
Loans and Advances	8	60	62
Inventories	9	10	...
Property, Plant and Equipment	11	15,790	15,458
<b>TOTAL ASSETS REPORTED</b>		<b>29,517</b>	<b>28,331</b>
 <b>CURRENT LIABILITIES</b>			
Creditors	12	685	...
Borrowings and Repayable Advances	13	350	374
Employee Entitlements	14	1,276	...
Other	15	1,506	171
 <b>NON-CURRENT LIABILITIES</b>			
Borrowings and Repayable Advances	13	495	981
Employee Entitlements	14	4,777	...
Other	15	8,656	8,604
<b>TOTAL LIABILITIES REPORTED</b>		<b>17,745</b>	<b>10,130</b>

*Note: 1991-92 entries marked "..." in the Statement of Assets and Liabilities or Notes to the Statement of Assets and Liabilities indicate where figures for those items are either unreliable or unavailable.*

## OTHER FINANCIAL INFORMATION FOR 1992-93

LOSSES -	Cases	Losses	Recoveries \$'000	COST OF CONSULTANCIES -	Expenditure \$'000
Public moneys or other moneys due to -				Category	
Debts written off (Note 1)	30	362	4	1. Management	154
	30	362	4	2. Human Resource Management	2
				3. Information Technology	51
				4. Communications	83
				5. Finance/Accounting	35
				6. Professional Technical	430
Public property or other property due to -				TOTAL -	755
Inventory - Stocktake shortfall	1	*	..		
	1	*	..		
<b>TOTAL</b>	<b>31</b>	<b>363</b>	<b>4</b>		

\* Amount less than \$500.

### NOTES

1. On 30 June 1992, the Honourable the Minister approved that an amount of \$39,445.21 being unpaid pro-rata rental for 1992 on numerous listed leases be written off.

On 26 October 1992, the Honourable the Minister approved that an amount of \$7,520.09 being unpaid rents for 1992 on four mining leases be written off.

On 11 February 1993 Executive Council approved the write-off of an amount of \$236,784 being 1993 rent due on five mining leases in the Shoalwater Bay area.

The majority of the remaining amounts written off relate to smaller amounts of unpaid rentals for mining leases.

### GOODS AND SERVICES RECEIVED BY DEPARTMENT AT

#### BELOW FAIR VALUE -

Audit fee - Queensland Audit Office

### STATUTORY AUTHORITIES AND INSTRUMENTALITIES -

Name of statutory authority or instrumentality	Constituting Legislation	Transactions Accounted for in Departmental Statements
The Committee for the Mines Rescue Brigade	Coal Mining Act 1925	Expenditure of \$1.829 million. Revenue of \$1.119 million.
Board of Examiners	Mines Regulation Act 1964	No material financial transactions or balances for year.
Minister for Minerals and Energy constituted as a corporation sole under the name and style "The Secretary for Mines" ie the State Gas Pipeline Unit	Petroleum Act 1923	Transactions accounted for in the State Gas Pipeline Construction Fund.

### STATUTORY BODIES WITHIN THE MINISTER'S PORTFOLIO -

#### Name of body or group of like bodies

The Queensland Coal Board

### ADDITIONAL INFORMATION

By Order in Council dated 24 September 1992, the Department of Resource Industries was renamed the Department of Minerals and Energy.

## NOTES TO THE DEPARTMENTAL STATEMENTS

### Notes to the Program Statement

Note  
Ref.

#### 1. Material Variation from Previous Year's Program Outlays

Program (Program Area Code)	Actual 1992-93	Actual 1991-92	Variation	Explanation
	\$'000	\$'000	\$'000	
<b>Geological Survey (091)</b>				
Salaries, Wages and Related Payments	3640	4348	-708	Variation mainly due to the transfer of the Exploration Data Centre to the Corporate Services Program and the suspension of field operations associated with the departmental involvement in the joint Commonwealth/State National Geoscience Mapping Accord during 1992-93.
Administrative	1032	791	+241	Variation mainly relates to a large unforeseen workers' compensation payment.
Plant and Equipment	93	242	-149	Variation is attributable to a reduction in the purchase of computer equipment.
Other Capital Outlays	-181	-341	+160	Proceeds from the sale of motor vehicles were less in 1992-93.
<b>Corporate Service (091)</b>				
Contributions for Employee Entitlements	878	744	+135	Variation mainly relates to the transfer of the Exploration Data Centre from the Geological Survey Program and recording of superannuation contributions made in respect of wages employees at the Safety in Mines Testing and Research Station during 1991-92 to Salaries, Wages and Related Payments.
Administrative	3376	8593	-5216	Expenditure in 1991-92 was higher due to compensation payments made to two firms for the relinquishment of mining leases on Moreton Island.
Current Grants and Subsidies	7187	5280	+1907	There was an increased number of retrenchments made within the Queensland Coal Mining Industry leading to an increase in long service leave claims.
Fixed Capital Expenditure	4505	2656	+1849	Additional payments made with respect to the Torres Strait Electrification Program.
<b>Energy (091)</b>				
Interest	7788	10861	-3073	Variation mainly relates to reduced interest rates that applied to State Gas Pipeline loan repayments.
Other Capital Outlays	-66	132	-197	Expenditure on easements in 1991-92 associated with the construction of the State Gas Pipeline mainly attributed to this variation.
Repayment of Loans and Advances	8207	4393	+3814	Additional repayments made on State Gas Pipeline loans.

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Program Statement - (continued)

Note

Ref.

#### 1. Material Variation from Previous Year's Program Outlays - (continued)

##### Minerals (091)

Administrative	3634	3361	+273	Additional expenditure in 1992-93 associated with the lease of computer equipment for the Mining Tenures Database.
Repayment of Loans and Advances	480	144	+336	Additional loan repayments made for computer equipment purchased through recoverable funding arrangements.
Other Financing Transactions	266	170	+96	Additional equity payments were made for Q-Fleet motor vehicles.

#### 2. Details of Grants and Subsidies Paid

	Grants and Subsidies Paid		1992-93 \$'000	1991-92 \$'000
Program: Geological Survey				
Current Grants and Subsidies -				
Australian Geoscience Council			..	1
Total			..	1
Program: Corporate Services				
Current Grants and Subsidies -				
Coal Mining Industry Long Service Leave			6,687	4,717
Queensland Coal Board			500	493
Department of Housing, Local Government and Planning - Regional Planning Advisory Group			..	60
Australian Society of Exploration Geophysicists			..	10
Total			7,187	5,280
Program: Energy				
Current Grants and Subsidies -				
Queensland Coal Board			..	4
ANZMEC (Energy Management Commission)			21	..
Total			21	4
Capital Grants and Subsidies -				
Department of Environment and Heritage - Green Fridge Quest			..	3
Total			..	3

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Program Statement - (continued)

Note  
Ref.

#### 3. Collections Administered on Behalf of the Government

	1992-93 \$'000	1991-92 \$'000
<b>Program: Geological Survey</b>		
Property Income		
Interest and Investment Income	2	5
Receipts for Goods and Services		
Fee for Service	41	3
Sale of Products	29	..
<b>Total Receipts for Goods and Services</b>	<b>70</b>	<b>3</b>
Miscellaneous Receipts		
Miscellaneous	-1	..
Capital Recoveries/Financing Transactions		
Sale of Government property	..	961
<b>Program: Corporate Services</b>		
Commonwealth Payments		
Receipts from the National Energy Research Development and Demonstration Project	182	686
Receipts from the Commonwealth Department of Industrial Relations - Coal Mining Industry Long Service Leave payments	6,436	4,712
<b>Total Commonwealth Payments</b>	<b>6,617</b>	<b>5,398</b>
Territorial		
Mining Royalties	250,397	217,107
Other Fees	..	138
<b>Total Territorial</b>	<b>250,397</b>	<b>217,245</b>

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Program Statement - (continued)

Note  
Ref.

#### 3. Collections Administered on Behalf of the Government - (continued)

	1992-93 \$'000	1991-92 \$'000
Property Income		
Interest and Investment Income	-231	-359
Mining Royalties Interest	4	..
Other	*	4
<b>Total Property Income</b>	<b>-228</b>	<b>-355</b>
* less than \$500		
Receipts for Goods and Services		
Fee for Service	1,618	1,266
Sale of Products	139	..
<b>Total Receipts for Goods and Services</b>	<b>1,758</b>	<b>1,266</b>
Miscellaneous Receipts		
Expenditure Recovered	365	1,545
Miscellaneous	3	..
<b>Total Miscellaneous Receipts</b>	<b>367</b>	<b>1,545</b>
Capital Recoveries/Financing Transactions		
Sale of Government property	1	10
Intra Public Accounts - Unrequited Transfers		
Transfer balance of Trust Fund	2	..
Program: Energy		
Taxes, Fees and Fines		
Licences and Permits	1,923	1,650

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Program Statement - (continued)

Note  
Ref.

#### 3. Collections Administered on Behalf of the Government - (continued)

	1992-93 \$'000	1991-92 \$'000
Territorial		
Lease rents	461	..
Application Fees	1	..
Renewal Fees	1	..
Other Mining Fees	4	..
<b>Total Territorial</b>	<b>467</b>	..
Property Income		
Interest and Investment Income	..	80
Interest Recovered	158	..
<b>Total Property Income</b>	<b>158</b>	<b>80</b>
Receipts for Goods and Services		
Fee for Service	19,268	18,766
Sale of Products	34	..
<b>Total Receipts for Goods and Services</b>	<b>19,302</b>	<b>18,766</b>
Miscellaneous Receipts		
Expenditure Recovered	1,248	1,389
Miscellaneous	..	75
<b>Total Miscellaneous Receipts</b>	<b>1,248</b>	<b>1,464</b>
Program: Minerals		
Taxes, Fees and Fines		
Licences and Permits	275	143

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Program Statement - (continued)

Note  
Ref.

#### 3. Collections Administered on Behalf of the Government - (continued)

	1992-93 \$'000	1991-92 \$'000
Territorial		
Mining Royalties	-4	..
Lease Rents	10,588	10,364
Application Fees	92	85
Renewal Fees	13	15
Search Fees	80	67
Other Fees	-4	14
<b>Total Territorial</b>	<b>10,765</b>	<b>10,545</b>
Receipts for Goods and Services		
Fees for Service	417	538
Sale of Products	14	..
<b>Total Receipts for Goods and Services</b>	<b>431</b>	<b>538</b>
Miscellaneous Receipts		
Expenditure Recovered	..	3
Miscellaneous	..	98
<b>Total Miscellaneous Receipts</b>	<b>..</b>	<b>101</b>
<b>Total Collections</b>	<b>293,553</b>	<b>259,365</b>

Note  
Ref

#### 3.(cont) Material Variation from Previous Year's Collections

Program (Program Area Code)	Actual 1992-93	Actual 1991-92	Variation	Explanation
	\$'000	\$'000	\$'000	
<b>Geological Survey (091)</b>				
Capital Recoveries/Financing Transactions ..	961	-961		Receipts in 1991-92 were associated with the sale of surplus plant and equipment from the former Drilling Sub-Program.

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Program Statement - (continued)

Note  
Ref.

#### 3. Material Variation from Previous Year's Collections - (continued)

	Actual 1992-93 \$'000	Actual 1991-92 \$'000	Variation	Explanation
<b>Corporate Services (091)</b>				
Commonwealth Payments	6617	5398	+1219	Variation due mainly to additional funding of \$1.724 million for increased retrenchments within the Queensland coal mining industry and reduced funding provided under the National Energy, Research Development and Demonstration Program.
Territorial	250,397	217,245	+33,152	Mining royalties were higher due to increased production and favourable exchange rates.
Property Income	-228	-355	+127	Reduced interest paid in respect of the refund of guarantee deposits for mining permits and leases.
Receipts for Goods and Services	1,758	1,266	+492	Increased revenue generated from the Safety in Mines Testing and Research Station (SIMTARS) fee for service charges.
Miscellaneous Receipts	367	1,545	-1,177	Receipts in 1991-92 included funding received in conjunction with the Torres Strait Electrification Project.
<b>Energy</b>				
Taxes, Fees and Fines	1,923	1,650	+273	Increased Gas testing and inspection fees.
Territorial	467	..	+467	Exploration permits for coal and petroleum were received in the Minerals Program in 1991-92.
Miscellaneous Receipts	1,248	1,464	-216	Delays in the payment of contributions from mining companies towards the operation of the Queensland Mines Rescue Brigade in 1992-93 and additional State Gas Pipeline Unit receipts in 1991-92 associated with a breach of contract, attributed mainly to this variation.
<b>Minerals</b>				
Taxes, Fees and Fines	275	143	+131	Variation mainly associated with receipts from the usage of explosives magazines being incorrectly recorded as Taxes, Fees and Fines in 1992-93.
Territorial	10,765	10,545	+220	Increased revenue from mining leases contributed mainly to this variation.
Receipts for Goods and Services	431	538	-107	Receipts associated with the usage of explosives magazines in 1992-93 was incorrectly recorded as explosive permit fees and shown under Taxes, Fees and Fines.
Miscellaneous Receipts	..	101	-101	Receipts in 1991-92 included the sale of equipment at the Horn Island mine site.

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Statement of Assets and Liabilities

#### 4. Statement of Significant Accounting Policies

The significant policies which have been adopted in the preparation of the Statement of Assets and Liabilities are:

##### (a) Basis of Preparation

The Statement of Assets and Liabilities of the Department has been drawn up in accordance with the Treasurer's Guidelines on the Preparation of Departmental Statements for 1992-93. They have been prepared using modified cash accounting on the basis of historical costs and do not take into account changing money values or, except where stated, current valuations of non-current assets. The State Gas Pipeline Unit has prepared general purpose financial statements in accordance with section 40 of the *Financial Administration and Audit Act 1977* for the State Gas Pipeline Construction Fund and these audited statements are printed in the Department's annual report. In accordance with the Treasurer's Guidelines, assets and liabilities relating to this Fund have been excluded from this statement.

##### (b) Reliability of Information

The items listed below have not been disclosed due to the unavailability of information.

<u>Item</u>	<u>Note</u>
Land and Buildings	11

##### (c) Receivables

Receivables comprise public moneys owed to the Department at 30 June 1993, where an invoice or notice of assessment has been issued but for which payment has not been received.

Receivables are reported net of any estimated doubtful debts. The collectibility of debts is assessed at year end and a specific estimate is made for any doubtful accounts.

##### (d) Investments

Investments are reported at cost.

##### (e) Loans and Advances

Loans and advances are reported at cost.

##### (f) Inventories

Inventories on hand are valued at the lower of cost and net realisable value. Cost is determined as the average cost which includes expenditure incurred in acquiring the inventories in order to bring them to their existing condition and location. Inventories have been treated as current assets even though minor amounts are held for longer than twelve months.

##### (g) Property, Plant and Equipment

Land, buildings, infrastructure and heritage assets are not included in the Statement of Assets and Liabilities as valuations of these properties have not been conducted.

The Department's threshold for the capitalisation of plant and equipment is \$500. Plant and equipment is valued at cost of acquisition. Where the cost of acquisition of an asset is not available or is considered inappropriate information for management decision making, assets are valued having regard to the estimated replacement value of assets with similar service potential. Such valuations have not been conducted independently.

Plant and equipment have not been depreciated.

##### (h) Leases

Leases of plant and equipment under which the Department assumes substantially all the risks and benefits of ownership are classified as finance leases. Other leases are classified as operating leases.

Finance leases are capitalised; a lease asset and a lease liability equal to the present value of the minimum lease payments are recorded at the commencement of the lease. Finance leases are not amortised.

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Departmental Statements - (continued)

#### (i) Employee Entitlements

Employee entitlements relate to amounts expected to be paid to employees for recreation leave and long service leave.

The recreation leave liability is based on an employee's statutory entitlement based on current salary and wages rates, whereas a liability for long service leave is recognised for all employees with more than five years service at 30 June 1993.

Accumulated sick leave is not bought to account.

#### (j) Rounding

In the preparation of the Program Statement, Statement of Assets and Liabilities and Other Financial Information amounts have been provided to the nearest one thousand dollars. Consequently rounded amounts may not add exactly to rounded totals.

5.	Cash	1992-93		1991-92	
		\$'000	\$'000		
	Cash on Hand		27		28
	Bank Accounts		8,112		8,772
	Trust Fund Balances				
	Coal Mining Industry Long Service Leave Trust Fund			..	521
	Irvinebank State Treatment Works Fund			32	33
	State Coke Works Fund			..	2
	<b>TOTAL</b>		<b>8,171</b>		<b>9,356</b>

The Coal Mining Industry Long Service Leave Trust Fund and the State Coke Works Fund were closed from 30 June 1993.

6.	Receivables	1992-93	1992-93	1992-93	1992-93	1991-92
		Territorial	Receipts for Goods and Services	Miscellaneous Receipts	Total	Total
			\$'000	\$'000	\$'000	\$'000
	<u>Current</u>					
	<u>Debts Receivable</u>					
	Current 0 to 30 days	795	319	1,013	2,127	760
	Due for more than 30 days, but not more than 60 days	361	102	..	462	563
	Due for more than 60 days	2,055	210	1	2,266	1,726
	<b>Gross</b>	<b>3,211</b>	<b>630</b>	<b>1,014</b>	<b>4,855</b>	<b>3,049</b>
	<i>less Estimate of Doubtful Debts</i>	1,110	21	..	1,132	550
	<b>Net Debts Receivable</b>	<b>2,100</b>	<b>609</b>	<b>1,014</b>	<b>3,724</b>	<b>2,499</b>

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Departmental Statements - (continued)

		1992-93	1992-93	1992-93	1991-92
		Current	Non-Current	Total	Total
		\$'000	\$'000	\$'000	\$'000
Investments					
	Investments were held in the entities indicated:				
	Equity in Q-Fleet	..	1,120	1,120	326
	Australian Coal Industry Research Laboratories Ltd *	..	..	..	100
	<b>Total</b>	..	<b>1,120</b>	<b>1,120</b>	<b>426</b>
* The 1991-92 accounts reported that these shares were considered to be of no value as they could not be traded and there was no likelihood of dividend income. Accordingly these shares are not now considered to be an investment.					
Loans and Advances					
	1992-93				1991-92
	Total				Total
		\$'000			\$'000
Loans and Advances to Persons-					
	Consolidated Fund				36
	Gold Mining Encouragement Fund				6
	Metalliferous Mining Fund				19
					60
					62
Unexpended Advances to Agency Departments-					
	Administrative Services Department-				
	Collection Suspense account - refurbishing				..
	Department of Transport-				
	Sundry debtor account - microfilming				5
					..
					128
	<b>Total</b>				
					60
					189
Inventories					
	1992-93				1991-92
	Current				Total
		\$'000			\$'000
	Publications and Other Saleable Stock	77	10	87	85
	Maps	560	..	560	317
	<b>Total</b>	<b>637</b>	<b>10</b>	<b>647</b>	<b>402</b>
Other Current Assets					
	1992-93				1991-92
	\$'000				\$'000
	Prepayments				..
					5
	<b>Total</b>				
					5
					..

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Statement of Assets and Liabilities - (continued)

Note  
Ref.

		1992-93		1991-92	
		\$'000	\$'000	\$'000	\$'000
11.	Property, Plant and Equipment				
	Plant and Equipment (refer note 4(g))			15,790	15,458
	<b>Total</b>			<b>15,790</b>	<b>15,458</b>
12.	Creditors	1992-93 Trade	1992-93 Other	1992-93 Total	1991-92 Total
		\$'000	\$'000	\$'000	\$'000
	<u>Current</u>				
	Current 0 to 30 days	549	25	574	...
	Due for more than 30 days but not more than 60 days	61	1	62	...
	Due for more than 60 days	45	5	50	...
	<b>Total</b>	<b>655</b>	<b>30</b>	<b>685</b>	<b>...</b>
13.	Borrowings and Repayable Advances			1992-93 \$'000	1991-92 \$'000
	Interfund Consolidated Fund Guaranteed - Consolidated Fund			810	1,320
	Interfund Consolidated Fund Non-Guaranteed - Irvinebank State Treatment Works Fund			35	35
	<b>Total</b>			<b>845</b>	<b>1,355</b>
	<u>Represented by:</u>				
	Current			350	374
	Non-Current			495	981
	<b>Total</b>			<b>845</b>	<b>1,355</b>
14.	Employee Entitlements	1992-93 Current	1992-93 Non-Current	1992-93 Total	1991-92 Total
		\$'000	\$'000	\$'000	\$'000
	Annual Leave	565	1,192	1,756	...
	Long Service Leave	711	3,585	4,296	...
	<b>Total</b>	<b>1,276</b>	<b>4,777</b>	<b>6,052</b>	<b>...</b>

Information regarding entitlements was not available from the Human Resource Management System for 1991-92.

## NOTES TO THE DEPARTMENTAL STATEMENTS - (continued)

### Notes to the Statement of Assets and Liabilities - (continued)

Note  
Ref.

15. Other Liabilities	1992-93	1992-93	1992-93	1991-92
	Current	Non-Current	Total	Total
Finance Leases				
Not later than one year	361		361	..
Later than one year, but not later than two years		342	342	..
Later than two years, but not later than five years		323	323	..
<b>Total Finance Leases</b>	<b>361</b>	<b>665</b>	<b>1026</b>	<b>..</b>
Security Deposits	..	7,991	7,991	8,604
Other Suspense Accounts	111	..	111	171
Accrued Interest	6	..	6	..
Pre-Paid Royalties/Lease Rents	1,028		1,028	..
<b>Total</b>	<b>1,506</b>	<b>8,656</b>	<b>10,162</b>	<b>8,775</b>

Finance Leases are associated with computer equipment for the Mining Tenures Database.

Security deposits consist of money paid to the Department by companies and individuals as security for mining leases. This money is held by the Department in its Collection bank account until it is either refunded or used for restoration of the mining lease. Due to the nature of these deposits, they have all been classified as non-current liabilities.

Other suspense accounts consists of money held by the Department until the money is either refunded to another party or it is determined to be a revenue item. These balances have been classified as current liabilities.

Accrued interest relates to the purchase of computer equipment for the Mining Tenures Database.

16. Commitments	1992-93	1991-92
	\$'000	\$'000
The department has entered into the following capital commitments at 30 June 1993		
Horn Island Rehabilitation	1,720	..
Centre for Advanced Technology, Pinjarra Hills	..	3,878
Torres Strait Electrification	..	8,438
	<b>1,720</b>	<b>12,316</b>

## CERTIFICATE OF THE DEPARTMENT OF MINERALS AND ENERGY

The departmental statements have been prepared under section 39A of the *Financial Administration and Audit Act 1977* and other prescribed requirements and I certify that -

- (a) the foregoing financial statements with other information and notes to and forming part thereof are in the form required by the Treasurer and are in agreement with the accounts of the department; and
- (b) in my opinion -
  - (i) the prescribed requirements in respect of the establishment and keeping of accounts have been complied with in all material respects; and
  - (ii) the statements have been drawn up so as to present a true and fair view of the transactions of the Department for the period 1 July 1992 to 30 June 1993, and the financial position as at 30 June 1993.

24 September 1993



**A WARREN**  
Manager, Finance and Administration

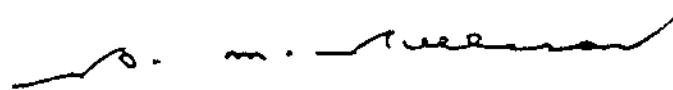


**P BRESLIN**  
Director-General

## CERTIFICATE OF THE AUDITOR-GENERAL

I have examined the Departmental Statements of the Department of Minerals and Energy as required by the *Financial Administration and Audit Act 1977* and certify as follows -

- (a) I have received all the information and explanations which I have required;
- (b) the foregoing Departmental Statements are in the form required by the Treasurer and are in agreement with the departmental accounts; and
- (c) in my opinion -
  - (i) the prescribed requirements in respect of the establishment and keeping of accounts have been complied with in all material respects; and
  - (ii) the foregoing Statements have been drawn up so as to present a true and fair view of the transactions of the Department for the period 1 July 1992 to 30 June 1993, and the financial position as at 30 June 1993.



**B M ROLLASON**  
Auditor-General

**DRAFT**

DEPARTMENT OF MINERALS AND ENERGY

STATE GAS PIPELINE UNIT

FINANCIAL ACCOUNTS

for the year ended

30 June 1993



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**State Gas Pipeline**

**DRAFT**

**STATE GAS PIPELINE UNIT**

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## STATE GAS PIPELINE UNIT

PROFIT AND LOSS ACCOUNT  
FOR THE YEAR ENDED 30 JUNE 1993

	Note	1993 \$'000	1992 \$'000
<b>OPERATING INCOME</b>			
Sales Revenue		19,013	18,467
Other Revenue		188	427
		<u>19,201</u>	<u>18,894</u>
<b>OPERATING EXPENDITURE</b>			
Depreciation		4,988	4,963
Interest		7,503	11,845
Pipeline Repairs and Maintenance		2,060	2,125
Other Expenses		1,340	1,078
		<u>15,891</u>	<u>20,011</u>
<b>OPERATING PROFIT (LOSS) before abnormal item</b>		<b>3,310</b>	<b>(1,117)</b>
Abnormal item re year ended 30 June 1992	11	<u>348</u>	<u>-</u>
<b>OPERATING PROFIT (LOSS)</b>		<b>2,962</b>	<b>(1,117)</b>
Accumulated Losses at the beginning of the Financial Year		<u>8,962</u>	<u>7,845</u>
<b>TOTAL AVAILABLE FOR APPROPRIATION</b>		<b>(6,000)</b>	<b>(8,962)</b>
<b>ACCUMULATED LOSSES AT THE END OF THE FINANCIAL YEAR</b>		<b><u>6,000</u></b>	<b><u>8,962</u></b>

The accompanying notes form part of these financial statements.

## STATE GAS PIPELINE UNIT

**BALANCE SHEET  
AS AT 30 JUNE 1993**

	Note	1993 \$'000	1992 \$'000
<b>CURRENT ASSETS</b>			
Cash	3	2,227	2,663
Receivables	4	1,517	1,772
Other	5	105	76
<b>TOTAL CURRENT ASSETS</b>		<u>3,849</u>	<u>4,511</u>
<b>NON-CURRENT ASSETS</b>			
Investments	6	79	25
Property, Plant & Equipment	7	<u>127,274</u>	<u>131,480</u>
<b>TOTAL NON-CURRENT ASSETS</b>		<u>127,353</u>	<u>131,505</u>
<b>TOTAL ASSETS</b>		<u><u>131,202</u></u>	<u><u>136,016</u></u>
<b>CURRENT LIABILITIES</b>			
Creditors and Borrowings	8	3,854	1,675
Provisions	9	<u>39</u>	<u>37</u>
<b>TOTAL CURRENT LIABILITIES</b>		<u>3,893</u>	<u>1,712</u>
<b>NON-CURRENT LIABILITIES</b>			
Creditors and Borrowings	8	125,961	137,142
Provisions	9	<u>384</u>	<u>31</u>
<b>TOTAL NON-CURRENT LIABILITIES</b>		<u>126,345</u>	<u>137,173</u>
<b>TOTAL LIABILITIES</b>		<u><u>130,238</u></u>	<u><u>138,885</u></u>
<b>NET ASSETS/(LIABILITIES)</b>		<u><u>964</u></u>	<u><u>(2,869)</u></u>
<b>EQUITY</b>			
Reserves	10	6,964	6,093
Accumulated Losses	11	<u>6,000</u>	<u>8,962</u>
<b>TOTAL EQUITY</b>		<u><u>964</u></u>	<u><u>(2,869)</u></u>

The accompanying notes form part of these financial statements.

## STATE GAS PIPELINE UNIT

STATEMENT OF CASH FLOWS  
FOR THE YEAR ENDED 30 JUNE 1993

	Note	1993 \$'000	1992 \$'000
		Inflows (Outflows)	Inflows (Outflows)
<b>Cash flows from operating activities</b>			
Receipts from customers		19,268	18,764
Payments to suppliers and employees		(3,374)	(3,165)
Dividends received		2	-
Interest received		158	287
Interest paid		(7,788)	(11,146)
Breach of contract recovery		-	75
Other revenue		43	
Net cash inflow from operating activities		8,309	4,815
<b>Cash flows from investing activities</b>			
Payment for property, plant and equipment		(531)	(1,257)
Payment for investment in commonly controlled entity		(54)	(25)
Proceeds from sale of property, plant and equipment		47	158
Net cash outflow from investing activities		(538)	(1,124)
<b>Cash flows from financing activities</b>			
Repayment of borrowings		(8,207)	(4,393)
Net cash outflow from financing activities		(8,207)	(4,393)
<b>Net increase (decrease) in cash held</b>		<b>(436)</b>	<b>(702)</b>
Cash at the beginning of the financial year		2,663	3,365
Cash at the end of the financial year	3	2,227	2,663

The accompanying notes form part of these financial statements.

**STATE GAS PIPELINE UNIT**  
**STATEMENT OF CASH FLOWS**  
**FOR THE YEAR ENDED 30 JUNE 1993**

	Note	1993 \$'000	1992 \$'000
		Inflows (Outflows)	Inflows (Outflows)
<b>Reconciliation of Net Cash provided by Operating Activities to Operating Profit/(Loss)</b>			
Operating Profit/(Loss)		2,962	(1,117)
Depreciation of property, plant and equipment		4,989	4,963
Movement in doubtful debts		28	-
Movement in provisions		355	35
Movement in interest payable		(258)	797
Profit on sale of plant and equipment		(9)	(32)
Capitalised assets expensed		33	-
Movement in trade debtors		227	205
Movement in prepaid expenses		(28)	(70)
Movement in trade creditors and accrued expenses		10	34
<b>Net cash inflow from operating activities</b>		<b><u>8,309</u></b>	<b><u>4,815</u></b>

The accompanying notes form part of these financial statements

**STATE GAS PIPELINE UNIT****NOTES TO AND FORMING PART OF THE ACCOUNTS  
FOR THE YEAR ENDED 30 JUNE 1993****1 OWNERSHIP OF PIPELINES**

Under the terms of the Petroleum Act 1923, the Minister for Minerals and Energy, acting in the capacity of a corporation sole under the name and style of "The Secretary for Mines", has constructed and now owns and maintains pipelines for the conveyance of natural gas from the Surat Basin and Denison Trough to Gladstone and Rockhampton. The State Gas Pipeline Unit, a business unit of the Department of Minerals and Energy, is responsible for the operation of the pipelines on the Minister's behalf.

**2 STATEMENT OF ACCOUNTING POLICIES**

The accounts of the State Gas Pipeline Unit have been prepared in accordance with the Public Finance Standards, Statements of Accounting Concepts and applicable Accounting Standards. The accounts have been prepared on the basis of historical cost and do not take into account changing money values or, except where stated, current valuations of non-current assets.

The following is a summary of the significant accounting policies adopted and consistently applied by the Unit in the preparation of the accounts.

**Income Tax**

The Unit is a business unit of the Department of Minerals and Energy, a Queensland state government department, and as such is not liable for income tax. Accordingly, no provision has been made.

**Investments**

Investments are valued at cost.

**Property, Plant and Equipment**

Property, plant and equipment have been included at cost or at other revalued amounts substituted for historical cost as indicated.

**Depreciation**

The depreciable amount of all non-current assets, excluding freehold land but including buildings, have been depreciated over their useful lives commencing from the time the asset was held ready for use. The useful lives of the Wallumbilla to Gladstone pipeline and the Gladstone to Rockhampton pipeline have been determined to be 30 and 29 years respectively and to have a nil value at the end of that time. The pipelines have been depreciated using the diminishing value method with a variable depreciation factor to reflect the remaining years of useful life. All other non-current assets have been depreciated using the traditional diminishing value method.

**Leases**

Lease payments under operating leases have been charged as expenses in the periods in which they were incurred.

**STATE GAS PIPELINE UNIT****NOTES TO AND FORMING PART OF THE ACCOUNTS  
FOR THE YEAR ENDED 30 JUNE 1993****Employee Benefits**

Provision has been made in respect of the Unit's liability for annual leave and long service leave at balance date. Long service leave is accrued in respect of all employees with more than 5 years' service.

Contributions are made by the Unit to an employee superannuation fund and are charged as expenses when incurred. There is no other legal obligation to provide superannuation benefits to employees on retirement.

**Revaluation of Non-Current Assets**

Non-current assets of Property, Plant and Equipment, as indicated are revalued by management at the conclusion of each year. The net values of non-current assets after deducting accumulated depreciation (the carrying amounts) have been increased by a weighted average increase in the Price Index of Materials Used in Building Other Than House Building and the Award Rates of Pay Index, Construction, Queensland except for Linepack Gas, Motor Vehicles and Office Furniture and Equipment. This differs from the previous year when the net values of non-current assets after deducting accumulated depreciation (the carrying amounts) were increased by the Consumer Price Index (Brisbane All Groups) except for Linepack Gas, Motor Vehicles and Office Furniture and Equipment. Linepack Gas is valued at current replacement cost and Motor Vehicles and Office Furniture and Equipment are at historical cost. The carrying amount of any revalued non-current asset does not exceed the recoverable amount of that asset. To establish the recoverable amount of such assets, estimated future revenue inflows for fifteen years, based on current customers, less operating expenses but excluding interest and tax have been discounted by a factor which includes the ten year bond rate plus a risk rate. The policy of the Unit is to revalue non-current assets on a yearly basis at the lower of either the carrying amount plus the average weighted increase in the indexes or the net present value of future cash flows. Revaluation increments are credited directly to the asset revaluation reserve.

**Interest Payable**

Interest payable on loans during construction of the pipelines was charged to the cost of the pipelines.

**Connection Fees**

Connection fees have been brought to account at the commencement of the respective contracts.

**Contingencies**

There were no known contingent assets or liabilities of a significant nature at 30 June 1993.

**Audit**

The State Gas Pipeline Unit is audited by the Auditor-General as a business unit of the Department of Minerals and Energy under the provisions of the Financial Administration and Audit Act 1977.

## STATE GAS PIPELINE UNIT

NOTES TO AND FORMING PART OF THE ACCOUNTS  
FOR THE YEAR ENDED 30 JUNE 1993

## Segment Reporting

The State Gas Pipeline Unit operates in the State of Queensland and is engaged in the transportation of natural gas from the Surat Basin and the Denison Trough to customers in the vicinity of Gladstone and Rockhampton.

	1993 \$'000	1992 \$'000
<b>3 CASH</b>		
Cash at Bank	<u>2,227</u>	<u>2,663</u>
The Unit operates through the State Gas Pipeline Construction Fund maintained at the Queensland Treasury		
<b>4 RECEIVABLES</b>		
<b>CURRENT</b>		
Trade Debtors	1,517	1,742
Sundry Debtors	28	30
Less: Provision for Doubtful Debts	<u>28</u>	<u>-</u>
	<u>0</u>	<u>30</u>
	<u>1,517</u>	<u>1,772</u>
<b>5 OTHER ASSETS</b>		
<b>CURRENT</b>		
Prepayments	<u>105</u>	<u>76</u>
<b>6 INVESTMENTS</b>		
<b>NON-CURRENT</b>		
Investment - Q Fleet at Cost	<u>79</u>	<u>25</u>

## STATE GAS PIPELINE UNIT

NOTES TO AND FORMING PART OF THE ACCOUNTS  
FOR THE YEAR ENDED 30 JUNE 1993

	1993 \$'000	1992 \$'000
<b>7 PROPERTY, PLANT AND EQUIPMENT</b>		
Freehold Land at Cost	36	-
Pipeline at carrying amount	125,847	128,695
Plus Revaluation	867	2,191
	<u>126,714</u>	<u>130,886</u>
Motor Vehicles at Cost	64	119
Less Accumulated Depreciation	27	36
	<u>37</u>	<u>83</u>
Office Furniture & Equipment at Cost	134	131
Less Accumulated Depreciation	61	46
	<u>73</u>	<u>85</u>
Linepack Gas at carrying amount	396	411
Plus Revaluation Increment Linepack	18	15
	<u>414</u>	<u>426</u>
<b>TOTAL PROPERTY, PLANT AND EQUIPMENT</b>	<u>127,274</u>	<u>131,480</u>
<b>8 CREDITORS AND BORROWINGS</b>		
<b>CURRENT</b>		
Queensland Treasury	3,481	-
Sundry Creditors	341	877
Interest Accrued	32	798
	<u>3,854</u>	<u>1,675</u>

## STATE GAS PIPELINE UNIT

NOTES TO AND FORMING PART OF THE ACCOUNTS  
FOR THE YEAR ENDED 30 JUNE 1993

	1993 \$'000	1992 \$'000
<b>NON-CURRENT</b>		
Queensland Treasury	123,961	132,635
Queensland Treasury Corporation	2,000	4,507
	<u>125,961</u>	<u>137,142</u>
<b>9 PROVISIONS</b>		
<b>CURRENT</b>		
Provision for Holiday Pay	<u>39</u>	<u>37</u>
<b>NON-CURRENT</b>		
Provision for Long Service Leave	36	31
Provision for Contractual Rebate	348	-
	<u>384</u>	<u>31</u>
<b>10 RESERVES</b>		
Asset Revaluation Reserve	<u>6,964</u>	<u>6,093</u>
<b>11 ABNORMAL ITEM</b>		
Provision for contractual rebate re the year ended 30 June 1992	<u>348</u>	<u>-</u>
At 30 June 1992 the applicability of a contractual rebate did not seem likely. However, a change in circumstances has resulted in a provision for this contractual rebate which may be applicable in the financial year ending 30 June 1995.		
<b>12 AUDITOR'S REMUNERATION</b>		
Amounts received, or due and receivable by the auditor of the Unit for auditing the accounts of the Unit	<u>7</u>	<u>-</u>

DRAFT

**STATE GAS PIPELINE UNIT**

**NOTES TO AND FORMING PART OF THE ACCOUNTS  
FOR THE YEAR ENDED 30 JUNE 1993**

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	1993 \$'000	1992 \$'000
<b>13 COMMITMENTS FOR EXPENDITURE</b>		
a) Capital Commitments		
Gladstone to Rockhampton pipeline no later than one year	-	<u>746</u>
b) Lease Commitments		
Total lease expenditure contracted for at balance date but not provided for in the accounts payable:		
Not later than one year	116	64
Later than one year but not later than 2 years	104	61
Later than 2 years but not later than 5 years	54	82
Later than 5 years	<u>334</u>	<u>350</u>
	<u>608</u>	<u>557</u>
Representing:		
Cancellable operating leases	124	21
Non-cancellable operating leases	<u>484</u>	<u>536</u>
	<u>608</u>	<u>557</u>
Commitments in relation to non-cancellable operating leases are payable as follows:		
Not later than one year	52	52
Later than one year but not later than 2 years	52	52
Later than 2 years but not later than 5 years	46	82
Later than 5 years	<u>334</u>	<u>350</u>
	<u>484</u>	<u>536</u>

DRAFT

**CERTIFICATE OF THE  
STATE GAS PIPELINE UNIT**

We have prepared the foregoing annual financial statements pursuant to the provisions of the Financial Administration and Audit Act 1977 and other prescribed requirements and certify that:

- a) the foregoing financial statements and notes to and forming part thereof are in agreement with the accounts and records of the State Gas Pipeline Unit;
- b) in our opinion:
  - (i) the prescribed requirements in respect of the establishment and keeping of accounts have been complied with in all material respects; and
  - (ii) the foregoing annual financial statements have been drawn up so as to present a true and fair view, in accordance with the prescribed accounting standards, of the transactions of the State Gas Pipeline Unit for the period 1 July 1992 to 30 June 1993 and of the financial position as at the close of that year.

.....  
T McGrady  
Minister for Minerals and Energy  
as The Secretary for Mines

.....  
P Breslin  
Director-General  
Department of Minerals and Energy

.....  
R Brock  
Manager  
State Gas Pipeline Unit

September, 1993

**AUDIT CERTIFICATE**

I have examined the accounts of the State Gas Pipeline Unit as required by the Financial Administration and Audit Act 1977 and certify as follows:

- a) I have received all the information and explanations which I have required;
- b) the foregoing Profit and Loss Account, the Statement of Cash Flows and the Balance Sheet are in agreement with those accounts; and
- c) in my opinion:
  - (i) the prescribed requirements in respect of the establishment and keeping of accounts have been complied with in all material aspects; and
  - (ii) the foregoing statements have been drawn up so as to present a true and fair view in accordance with prescribed accounting standards of the transactions of the State Gas Pipeline Unit for the period 1 July 1992 to 30 June 1993 and of the financial position as at 30 June 1993.

.....  
B M Rollason  
Auditor-General

# DEPARTMENT OF MINERALS & ENERGY

## SERVICES FROM REGIONAL & DISTRICT OFFICES

In June 1993 a decision was taken to upgrade a number of the Department's District Offices to multifunctional Regional Offices. During 1993/94 Regional Offices will be established at Brisbane, Charters Towers, Mareeba, Mt Isa, Emerald and Rockhampton under the control of Regional Managers. These offices along with District Offices at Georgetown, Quilpie and Winton administer and monitor mining and exploration activities having due regard to the effect on the environment and landholder/miner relationships.

Regional and District Offices have substantial local computer capacity with on-line connection to Brisbane. Through this system, searches may be made of all mining tenures in that Region. Other information relevant to the mining industry, such as geological maps and reports, is also available at Regional and District Offices.

Staff of the Safety and Health Branch of the Department are stationed at Brisbane, Charters Towers, Mareeba, Mt Isa and Rockhampton. Environmental Officers are stationed at Mareeba

and Rockhampton, with the Rockhampton office also having on staff an Inspector of Explosives.

These staff monitor health, safety and environmental matters relating to mining activities as well as providing information and advice on these matters.

The Inspector of Explosives at Rockhampton provides auditing, educational and advisory activities under the Explosives Act.

The Safety & Health Branch has established an office at Gympie for the duration of the Shaft Repair Project.

The Explosives Branch has also Magazine Keepers who provide independent explosives warehousing services. These facilities provide centralised secure storage depots, ideal inspection and testing facilities and encourage growth of the explosives industry in localised regions. The Magazine Keepers undertake regulatory inspections of explosives/packaging/vehicles under the Explosives Act.

## CONTACTS AT REGIONAL & DISTRICT OFFICES & EXPLOSIVES MAGAZINES

### REGIONAL OFFICES

#### Brisbane

##### *Mining Registrar*

J. Gundy (Jim)

Ph 07 237 1972

Office Fax 07 221 1452

##### *Senior Inspector of Mines*

B.W. Kochout (Bogdan)

Ph 07 237 1614

Office Fax 07 237 9989

#### Charters Towers

##### *Mining Registrar*

L.W. Griffin (Len)

Ph 077 87 1514

##### *Inspector of Mines*

R.J. Thomas (Ross)

Ph 077 87 4640

Office Fax 077 87 3785

#### Mareeba

##### *Mining Registrar*

G. Smith (Gary)

##### *Inspector of Mines*

J. Grieves (John)

Ph 070 92 4211

##### *Environmental Officer*

M.J. Francombe (Michael)

Ph 070 92 4211

Office Fax 070 92 4224

### Mt Isa

#### *Mining Registrar*

P. Little (Peter)

Ph 077 44 6903

#### *Senior Inspector of Mines*

R.A.A. Seymour (Ray)

Ph 077 44 6838

Office Fax 077 43 7165

#### Rockhampton

##### *Mining Registrar*

I.R. Gould (Ian)

Ph 079 27 7741

#### *Senior Inspector of Mines*

R.G. White (Dick)

Ph 079 27 2322

#### *Sen. Gas Examiner*

J.P. Jones (Jeff)

Ph 079 31 9682

#### *Environmental Officer*

C.J. Jones (Clifford)

Ph 079 227 2322

#### *Inspector of Explosives*

B.R. Bauer (Brad)

Ph 079 31 9683

Office Fax 079 22 5929

#### Emerald

##### *Mining Registrar*

K.M. Hudspith (Ken)

Ph 079 82 4011

Office Fax 079 82 4230

### DISTRICT OFFICES

#### Georgetown

##### *Mining Registrar*

B. Campbell (Brian)

Ph 070 62 1204

Office fax 070 621 260

#### Quilpie

##### *Mining Registrar*

G. Grealy (Geoff)

Ph 076 56 1266

Office Fax 076 56 1442

#### Winton

##### *Mining Registrar*

M. Page (Mark)

Ph 076 57 1727

Office Fax 076 57 1760

#### Other Offices

#### Gympie

##### *Shaft Repair Project*

##### *Foreman*

R. Staff (Bob)

Ph 074 82 7366

Office Fax 074 82 7727

#### Mackay

##### *Senior Inspector of Coal*

##### *Mines*

B. Biggam (Barrie)

Ph 079 53 3000

Office Fax 079 53 3013

### Townsville

#### *Sen. Gas Examiner*

A.K. Nelson (Alan)

Ph 077 22 1487

### Cairns

#### *Sen. Gas Examiner*

B.A. Peace (Barry)

Ph/Fax 070 55 1730

### MAGAZINE KEEPERS

#### Bajool

D.J. Brown (Darren)

Ph/Fax 079 34 6171

#### Brookhill

I.L. Tutt (Ian)

Ph 077 78 1213

Fax 077 78 1156

#### Helidon

B.J. Brown (Bevan)

Ph 076 97 6253

Fax 076 97 6161

#### Querah

R.J. McSwan (Ron)

Ph/Fax 070 55 4250

DEPARTMENT  
OF MINERALS  
AND ENERGY



Queensland  
Minerals &  
Energy Centre

61 Mary Street  
Brisbane  
Queensland.  
G.P.O. Box 194  
Brisbane 4001, QLD.  
Telephone:  
(07) 237 1435  
Facsimile:  
(07) 221 9517