



ANGLCO COAL MOURA

## Moura Mine – Continues to Move Forward in Safety

*Presented by Moura Mine OH&S Committee*

Queensland Mining Council Safety Conference August 2002 1

ANGLCO COAL MOURA

## Presentation Outline


- Moura Mine and current operation
- History and safety record
- Changes in safety and driving forces of change
- Workforce safety survey results
- The challenges that lie ahead

*“Moura Mine Continues to move Forward in safety”*

Queensland Mining Council Safety Conference August 2002 2

ANGLCO COAL MOURA

## Moura Coal Mine




Queensland Mining Council Safety Conference August 2002 3

ANGLCO COAL MOURA

## History

- July 1958 Mining lease granted to Thiess (600 acres) at the Kianga operation of Moura
- 1959 Trial shipment (9500T) of coal goes to Japan
- 1961 Moura Open-cut operations begin
- 1962 Thiess Peabody formed. Joined in '63' by Mitsui
- 1962 Coal production a record 152,000 tons
- 1963 Largest Dragline in Australia commissioned



(Marion 7900)

Queensland Mining Council Safety Conference August 2002 4

ANGLCO COAL MOURA

## Growth

'60's through to the 90's

- Dedicated railway to Gladstone,
- Housing for employees and families
- Largest dragline in the Southern Hemisphere (Marion 8900)
- Underground mines commenced in 1963
- Longest and fastest overland conveyor system commissioned
- High wall mining operation commences 1995
- Seamgas operations commenced in 1996
- Late 80's a workforce of 1200 produces 4.6 million tonnes of coal.
- 2003 a workforce of 396 with projected production is 6.3 million tonnes

*Moura continues to develop.....*



Queensland Mining Council Safety Conference August 2002 5

ANGLCO COAL MOURA

## The Tragedies

*The tragic loss of lives*

- 3 disasters claimed the lives of 36 men
  - 1975, 1986, 1994
- 47 men killed in 44 years of Moura Mine
- Additional 88 for the same period in the QLD Coal Industry

*Today - “Moura Mine Continues to move Forward in safety”*

Queensland Mining Council Safety Conference August 2002 6

ANGLCO COAL MOURA

## Safety in the Old Days

*Culture - independent, anti-establishment, mate-ship focused, humorous, critical and inventive*

- Many safety programs and slogans over the years
- Working safely was less of a consideration
- Injuries were just things that happened
- Incidents lead to safer procedures but not a true safety culture

Queensland Mining Council Safety Conference August 2002 7

ANGLCO COAL MOURA

## Video of Current Operation

Queensland Mining Council Safety Conference August 2002 8

ANGLCO COAL MOURA

## What Needed to Change in Safety

- Communication
- Management's approach to risk management
- Workforce attitude and practices to work place hazards
- Management systems
- Safety support programs

Queensland Mining Council Safety Conference August 2002 9

ANGLCO COAL MOURA

## What has changed in Safety

Today, there are Regulations, Standard Operating Procedures, Managers Rules, etc that have been developed and implemented within the industry.

Four significant drivers of change:

- Communication
- Management
- OH&S Committee
- Site Safety Management Plan

Key support initiatives:

- Support systems
- Risk and hazard awareness

Queensland Mining Council Safety Conference August 2002 10

ANGLCO COAL MOURA

## Communication – Driver of Change

- Open access to information about the Mine's direction, safety, operational performance etc
- Site wide communications meetings
- Regular shift safety briefings, tool box meetings
- Senior management practices an open door policy for discussion on any issue
- Formal and informal communication is improving

Queensland Mining Council Safety Conference August 2002 11

ANGLCO COAL MOURA

## Management – Driver of Change

- Management commitment
- Safety linked to the strategic outlook of the mine
- The outlook translated safety into everyday activities in the work place.
- Consistent approach
- Change through education and participation
- 'if its not safe don't do it'

Queensland Mining Council Safety Conference August 2002 12

ANGELD COAL MOURA

## OH&S Committee – Driver of Change

Site wide representation

Objectives:

- Actively promote, review and implementation of safety systems
- Provide a forum for safety issues and initiatives
- Ensure communication and resolution at all levels, site wide.
- Involved in all aspects of managing risk.

The OH&S committee become:

- A forum for open, honest communication on safety
- A facilitator and agent of change across the mine for a range of initiatives.
- Recognised as valuable to the Mine's operation by involving people in safety

Queensland Mining Council Safety Conference August 2002 13

ANGELD COAL MOURA

## Safety Management Plan – Driver of Change

- Linked to the Mine Strategic Plan
- Structure and means of integrating Mine safety goals to department safety plans and activities.
- Involvement at the department level and changes in process and drives for change.

The plan lead to the initiation and maintenance of:

- Health reviews, safety programs
- Monthly health magazine
- Heightened levels of safety involvement
- Improved safety awareness site wide.

Queensland Mining Council Safety Conference August 2002 14

ANGELD COAL MOURA

## Support Systems

**Electronic health and safety management system**

Accident incident data base included:

- risk assessment, incident and accident reports

Health and safety data base – incorporated access to:

- SOP's, Principal hazards plan and hazards
- Risk assessment forms – analysis, hazard ID's
- Safety meeting minutes, safety communications etc

**Competency Training System**

- Part of the Mine's risk control strategy
- Focus is on management of activities
- To safely, competently and efficiently perform tasks
- Competencies include loss minimisation techniques to minimise operator risk and improve productivity

Queensland Mining Council Safety Conference August 2002 15

ANGELD COAL MOURA

## Risk and Hazard Awareness

- Training of all employees and many contractors
- The aim was to modify behaviour to make risk assessment an integral part of everyday work
- Risk assessments conducted by crews
- This program probably more than any other has significantly improved employees attitude to controlling workplace risks

Queensland Mining Council Safety Conference August 2002 16

ANGELD COAL MOURA

## Safety Survey

Reasons for Moura's Improved Safety Performance

Reason	Relative Importance (Estimated)
Visits to other sites	1
OH&S Committee	2
Better maintained work areas	3
More involvement of the workforce	4
Individual accountability & wearing PPE	5
Better equipment	6
Training	7
Workforce & Mgt Attitudes	8
Inspection & reporting and action	9
Isolation, locking & switching procedures	10
SOP's / Legislation	11
Communication including meetings	12
Hazard Awareness	13
Risk assessment system	14

Queensland Mining Council Safety Conference August 2002 17

ANGELD COAL MOURA

## Survey Results

**Risk Assessment**

- Crews trained to conduct risk assessments
- Informal and formal practical (user friendly) approaches

**Hazard Awareness**

- Training in hazard identification and action for all employees.

**Communication**

- Consultation with all parties "We all get a say"

**People are now starting to take more responsibility for their own actions**

Queensland Mining Council Safety Conference August 2002 18

AMEAR COAL MOURA

## Safety – Management’s Perspective

- The Mine Manager – Steve Hedges

Queensland Mining Council Safety Conference August 2002 19

AMEAR COAL MOURA

## *“Moura Mine Continues to move Forward in safety”*

### Challenges

- To keep the safety and well being of people at the forefront of all of our decision-making.
- Create a culture where hazards are understood rather than stated
- People seeing the hazard and control or minimise the risk as a priority
- Continue to motivate our people to adopt the correct behaviors as second nature
- To have safety habits as an integral part of how they do the jobs.

Queensland Mining Council Safety Conference August 2002 20

AMEAR COAL MOURA

## *“Moura Mine Continues to move Forward in safety”*

The OH&S Committee wishes to thank management and staff for their cooperation and assistance in the preparation of this presentation

Queensland Mining Council Safety Conference August 2002 21