



# MINESAFE

ISSUED BY THE MINING OPERATIONS DIVISION OF THE DEPARTMENT OF MINERALS AND ENERGY



This crushing plant was shut down by a Departmental Inspector on a recent site visit. Although this plant had been fitted with water sprays for dust control, they had not been functioning for over a week. Continuous exposure to dust like this may lead to serious health problems later in life, and employees should not work in conditions like this.

## MINESAFE IS PUBLISHED BY:

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## OCCUPATIONAL HEALTH AND SAFETY ADVISORY GROUP

To cater for the needs of the Murchison in the area of health, safety and training an Occupational Health and Safety Advisory Group has been established under the chairmanship of Andrew Grubb (Marymia Gold Mine) and representatives from Gidgee Gold Mine, Golden Crown, Hill 50, Tuckabianna Gold Mine, Dominion and Asarco.

The role of the group will be to continually develop and improve the training, health and safety practices within the mining industry and more

# PORTABLE HALON FIRE EXTINGUISHERS

The Environmental Protection (Ozone Protection) Policy Approval Order 1993 becomes law on 1 December 1993 and contains provisions dealing with the sale, possession and use of portable halon fire extinguishers. A summary of these provisions is listed below.

- Portable halon fire extinguishers shall not be sold unless authorised by the chief executive officer of the Environmental Protection Authority of Western Australia. Each sale must be approved in writing and approval will be given only if the chief executive officer is satisfied that there is no acceptable alternative means of fire protection available.
- Unless otherwise approved by the chief executive officer, portable halon fire extinguishers shall be decommissioned, and any halon reclaimed;
  - when the extinguisher becomes due for hydrostatic testing,
  - when the extinguisher is wholly or partially discharged, or;
  - before 1 January 1996, whichever occurs first.

- Portable halon fire extinguishers shall not be discharged except for the purpose of extinguishing a fire in an emergency.

More information on the policy can be found in the Western Australian Government Gazette No. 126 of 10 September 1993.

Decommissioning of the extinguishers and reclamation of the halon is to be organised by the depot of the DASCEM Halon Bank in the state:

DAS Distribution  
Mooro Drive (off Stubbs Terrace)  
CLAREMONT WA 6010  
Tel: (09) 347 4105  
Fax: (09) 347 4122

or by a member of the Fire Protection Industry Association of Australia.

The cost of depositing Halon 1211 (BCF), found in yellow portable fire extinguishers, is \$10.50 per nominal kilogram, unless the extinguisher is used for domestic purposes or by a small business which may be eligible for a subsidy.

will exchange advice and guidance on health, safety and training.

Topics to be discussed at the next meeting include:

- Accident statistics for fly in / fly out operations. Are present statistics an accurate reflection of site performance?
- EAP (Employment Assistance Program). How do they work and how effective are they?
- Length of period contractors are working on site without extended breaks (R&R) and possible effect on safety.

A similar group has been running successfully in the Eastern Goldfields for some time. Groups like this can only help to improve communications. We wish them well.



**Andrew Grubb**  
(Marymia)  
*Chairman of the Murchison Occupational Health and Safety Group.*

specifically within the Murchison region. This will be achieved by discussion within the group and exchange of knowledge and, where required, specialist outside help will be sought.

The group will work closely with the Chamber of Mines Regional Council and

# EDITORIAL



Lee Ranford



## HOLIDAY BACKLASH

It's unfortunate but true that the weeks leading up to Christmas often result in an increase in accidents. Some of the reasons may be:

- The heat is affecting you more than you realise;
- Others being on leave may mean changes in your routine;
- Your minds are on holiday preparations;
- You're working extra hours for extra \$\$\$\$;
- You're socialising more, and drinking more.

**BE AWARE**  
**-STAY SAFE BY STAYING SMART-**

It is extremely pleasing to note the further reduction in lost time injury frequency for the total industry from 23 per million hours worked in 1991/92 to 20 per million hours worked in 1992/93. It is to be hoped that the increased involvement of health and safety representatives reported by inspectors on mine site inspections during this year will lead to further improvements in safety performance in the future.

The proclamation of the Mines Regulations Amendment Act 1990 on 1 January 1993 was a landmark for mine safety in Western Australia. The effect of this legislation and the accompanying regulations was to formally introduce the consultative mechanisms involving health and safety representatives and committees, and to invoke the duty of care responsibilities on all employers and employees.

Other important changes during 1993 were:

- (i) the establishment of the interim Mines Occupational Health and Safety

Board (MOHSAB), with representatives from the employers, workforce and government to advise the Minister for Mines on matters related to mine safety; and

- (ii) the decision by the Minister that drafting should commence on a new Mine Safety and Inspection Act to replace the existing Mines Regulation Act and Coal Mines Regulation Act.

These developments will ensure that those in industry and government, who are involved in the revision of our mine safety legislation, will be extremely busy into early 1994. It is intended that the new legislation will be less prescriptive and easier to use than its predecessors, which were generally accepted as needing substantial updating and amendment. We believe that this legislation will provide the basis for further reduction in injury rates and improved health and safety in the State's most important industry.

**ACTING DIRECTOR GENERAL**



The Minesafe team wish all mineworker's and their families a happy Christmas and a safe new year.  
L-R: Anna De Filippi (Associate Editor) Murray Jones (Graphic Designer), Catherine Stedman (Editor), Simon Wood (Editorial Assistant), Kimberley Williams (Typesetting)

# GETTING IN ON THE GROUND FLOOR

Despite the value of its products, the mining industry is not a large direct employer and, where possible, taking pre-employment courses can often help to make the difference between working in the industry and wishful thinking.

The drilling industry is one sector that provides an avenue for prospective employees to learn something about the industry, as well as having an opportunity to get some hands-on training.

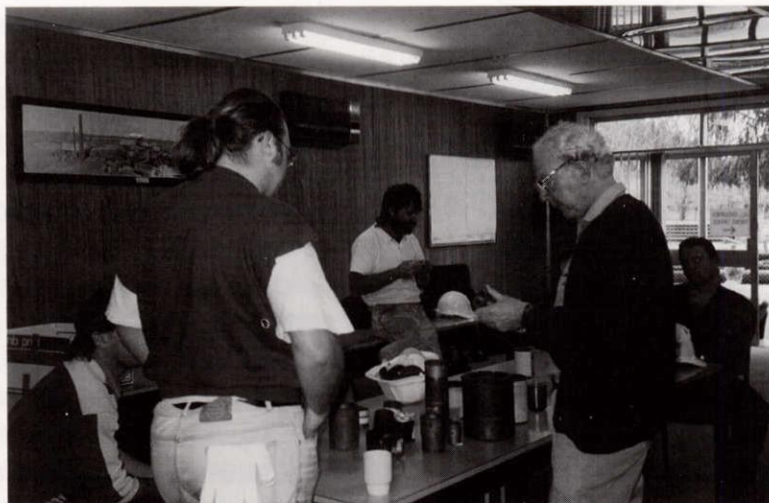
The five day Utility worker and induction training course run by TAFE, is designed to prepare trainees for both the mineral drilling and water boring industries. The course, approved by the Australian Drilling Industry Association, is co-ordinated by Ken Steel, an industry consultant, and the day we caught up with him trainees were going through their practical training at the Department of Minerals and Energy Drilling Branch under the eye of Drilling Supervisor, Ian McPherson.

Participants in the course need to first pass a standard medical to confirm their suitability for work, which calls for physical strength and endurance, and working long hours in often adverse weather conditions.

It's not for everyone, but those who are over 18 and have a B class driver's license, and successfully complete the course and examinations, receive a certificate and an opportunity for consideration when jobs come up in the industry.

Drilling can be a tough industry, and courses like this can only help to make it a safer one.

For further information please contact:  
Mr Ken Steel  
143 Lesmurdie Road,  
LESMURDIE WA 6076  
Telephone: 291 7451/293 3335



**FROM THEORY....**



**....TO PRACTICE.**

# OCCUPATIONAL HEALTH FILE:

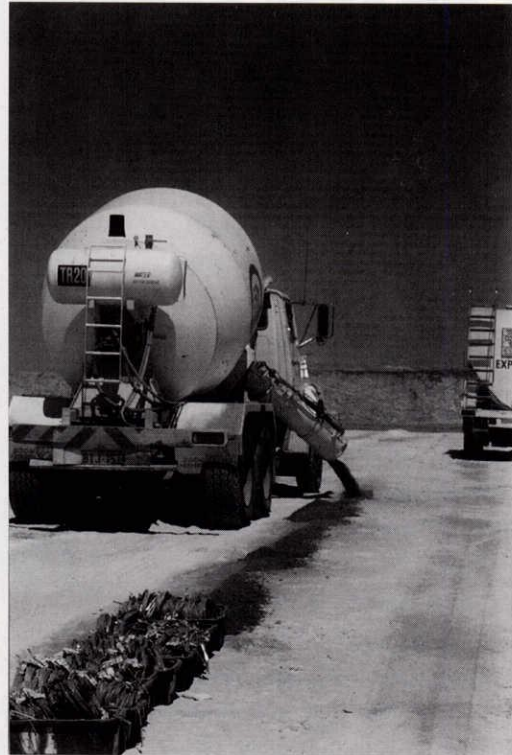
## GOOD IDEAS!

Stemming of blast holes can be a dusty business. Often holes are stemmed manually with one or two persons using shovels, creating dusty conditions.

Newcrest Mining Ltd employees at the Telfer Gold Mine have demonstrated an innovative approach and have managed to reduce the dust exposure levels of blast crew employees to well within the exposure standard and below the industry average.

The improvement was achieved by modifying a cement truck (which is dedicated to stemming blast holes) removing the need for manual handling and potential exposure to high concentrations of dust.

An excellent idea with outstanding results.

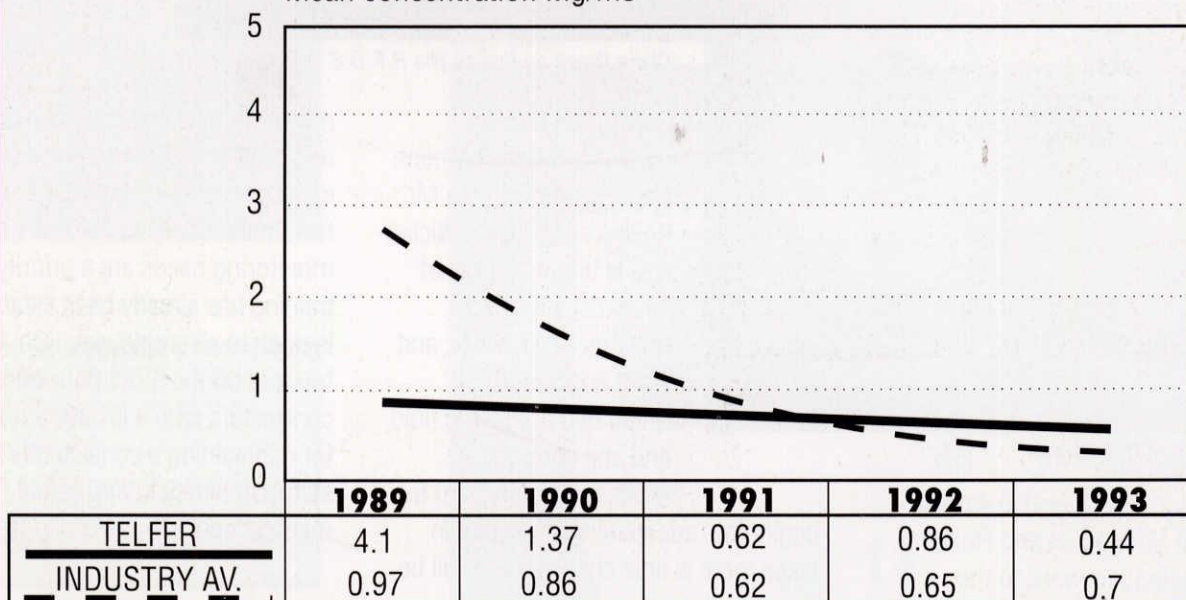


*Modified cement mixing truck used for stemming blast holes. TELFER*

## NEWCREST MINING LTD - TELFER GOLD MINE

### MEAN RESPIRABLE DUST CONCENTRATION FOR BLAST CREW

Mean concentration Mg/m<sup>3</sup>



# A WAKING GIANT

It's new - it's big - it's dynamic - it's Western Mining's Mt Keith Project 90 kms north of Leinster in the Northern Goldfields.

The mine is not due to come into production until January 1995, by which time a workforce of approximately 800 people will have completed the construction of the massive infrastructure needed to service a mine with an expected 20 year lifespan.

The project's immediate priority was establishing the Occupational Health and Safety Team which will operate from a multi functional centre that incorporates every element of the Occupational Health and Safety management plan. The centre will house the nursing centre, emergency nursing services including mine rescue, training and induction, and occupational health and safety administration under the guidance of Colin Taylor who has recently transferred to site from WMC Kwinana.



*Cherie Schell and Colin Taylor*

Colin Taylor, who has also worked with WMC at Mt Magnet and Roxby Downs, is looking forward to the challenge of putting together the policies and procedures for auditing safety

management. In common with the rest of his team, Colin has welcomed the opportunity to be there as the project grows through it's various stages of development to the production phase, which will be driven by a permanent workforce of between 200-250 employees.

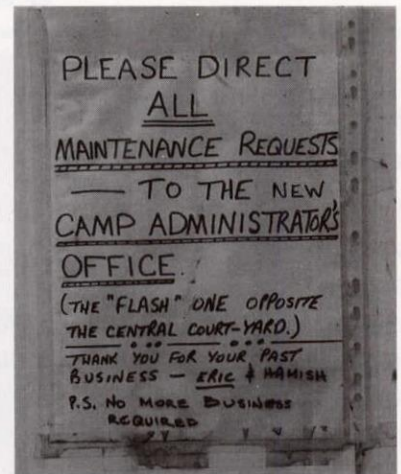
Safety Emergency Officer, Cherie Schell doesn't get much of an opportunity to stand still, and her "two-way" is never far from her hand. At the moment, Cherie sees herself as a jack of all trades and is involved in everything from inductions and training



*Claire Down on line to the R.F.D.S.*

to First Aid and procedures development. Cherie transferred to Mt Keith from Leinster Nickel and is finding plenty of job satisfaction and rewards in her work; and while it is safety orientated her role is fluid, and she correctly assesses that if, from the beginning, adequate systems are in place there is little chance there will be emergencies.

One of the original team members is



Claire Down, who together with Nanette Jones, provides the medical care for employees of not only Mt Keith but also those of the many companies involved in the construction phase, who are all working on an isolated site 90km from the Nursing Post in Leinster and 220km from

the nearest hospital in Meekatharra. The Royal Flying Doctor Service is a vital lifeline.

Claire transferred to Mt Keith six months ago, from Kambalda where she had worked for 2 1/2 years. Her change in lifestyle presently includes a 2 on / 2 off fly in fly out alternate roster with Nanette. Despite the

normal inconveniences of setting up a new facility, both nurses are enjoying the experience of taking part in building the team particularly as medical and monitoring needs are a priority. First Aid training has already been established and is open to all employees. Obviously the focus is on the more permanent contractors who will have a responsibility for maintaining a consistently high standard of health and safety management.



*Tim Moran - Project Manager - Mt Keith*



*Maria Quinn.*

Resident Manager, Peter Llewellyn, was unfortunately off site at the time of this interview. We look forward to updating the project progress with Peter at a later date. Ed.

Dave Birch, the site security officer, also provides back up for the OHS team and like everyone else, enjoys being part of the initial group that will effectively define the safety management direction of the project.

Helping to make it all happen is Administration Officer Maria Quinn, who has responsibilities that cover the full spectrum of the project including the village where she is based, which is

*Dave Birch*



situated 7 kms from the site.

Maria transferred from Roxby Downs in South Australia where she worked on Worker's Compensation and Rehabilitation Management. That too is part of her job at Mt Keith as well as AXTAT, personnel and recruitment planning and community relations. A pleasant chore recently completed was ordering the gym equipment that will become part of the comprehensive sport and recreation facilities being installed in the camp.

The project has already come a long way from the first days when the team operated from a one walled "ATCO" hut and induction also included a warning about a kleptomaniac kangaroo named Mischief, who was particularly fond of stealing laundry.

By March 1994, Mt Keith will be well underway, and the smooth transition from bush camp to the business of mining nickel will be the reward for the dedicated, enthusiastic and cohesive team of people who will be able to take a good deal of credit for making it all happen.

Department of Minerals and Energy  
 Western Australia  
 Mining Operations Division  
 MINERAL HOUSE, 100 PLAIN STREET,  
 EAST PERTH, WA 6004

# RECORD AND UNDERGR YEAR ENDING

NO. FIRE	DATE	SOURCE				CAUSE OF FIRE				IF VEHICLE				
		VEHICLE (DIESEL)	ELECT. DISTRIB.	TIMBER	OTHER (state)	FRICTION eg. brakes	FUEL OR OIL	ELECT-RICAL	HEAT eg.welding	FUEL	EXHAUST	TURBO (ENG.)	ELECTRICS	HYDR. FLUID
1	3/08/92	TORO 500 LHD					H/OIL							YES
2	1/08/92	ELPHINSTONE 2800					H/OIL					YES		YES
3	5/08/92	GENERATOR SET						YES						
4	27/08/92	SIMBA H245 DRILL				BRAKES								
5	18/09/92				POLYPIPE				WELDING					
6	19/09/92	TORO 400 LHD					H/OIL					YES		YES
7	24/09/92	ELPHINSTONE 2800					H/OIL					YES		YES
8	24/10/92	ELPHINSTONE 2800					H/OIL					YES		YES
9	28/10/92	ELPHINSTONE 1500					ENG/OIL				YES			
10	29/10/92	TOYOTA							A/CLEANER	YES				
11	30/10/92	WAGNER TRUCK					FUEL			YES	YES			
12	10/11/92				ELECT.PUMP		OIL	YES						
13	10/11/92	TORO 500 LHD						YES					ARCING	
14	24/11/92	ELPHINSTONE 2800					H/OIL				YES	YES		YES
15	25/11/92	NISSAN PATROL						YES		YES			YES	
16	27/11/92	CAT 980C FEL						YES					YES	
17	10/12/92	TAMROCK JUMBO						YES					YES	
18	8/01/93	VOLVO TRUCK 350					H/OIL				YES			YES
19	8/01/93	VOLVO TOOL(FEL)							EXHAUST		YES		YES	
20	28/01/93	ELPHINSTONE 2800						YES					YES	
21	7/02/93	BOLTEC JUMBO				BRAKES								
22	23/03/93		YES				SPRAY	YES						
23	5/03/93	JUMBO GB417					FUEL	YES		YES			YES	
24	29/03/93	CAT 850D TRUCK					FUEL			YES		YES		
25	25/03/93	TORO 400 LHD					H/OIL				YES	YES		YES
26	17/04/93	TORO 150D LHD					H/OIL				YES			YES
27	15/04/93	WAGNER TRUCK					E/OIL				YES	YES		
28	17/05/93	CAT773 TRUCK					FUEL			YES	YES			
29	12/05/93	CAT 769 TRUCK				BRAKES								
30	24/05/93	TOYOTA						YES					YES	
31	12/06/93	738 TRUCK				BRAKES								
32	25/06/93	CAT 773 TRUCK				BRAKES								
	32	29	1	0	2	5	17	10	3	6	9	8	8	9

### PERCENTAGE SUMMARY

NO. FIRE U/G	%	SOURCE				CAUSE OF FIRE				VEHICLE COMPONENTS INVOLVED				
		VEHICLE (DIESEL)	ELECT. DISTRIB.	TIMBER	OTHER	FRICTION eg. brakes	FUEL OR OIL	ELECT-RICAL	HEAT eg.welding	FUEL	EXHAUST	TURBO (ENG.)	ELECTRICS	HYDR. FLUID
32	%	91%	3%	0%	6%	16%	53%	31%	9%	19%	28%	25%	25%	28%

T.H.FISHER  
 PRINCIPAL MINING ENGINEER  
 Nov-93



# ANALYSIS OF UNDERGROUND FIRES 30 JUNE 1993

**RESEARCH & TECH. SERVICES  
MINING SECTION  
PROJECT 1 1992/93  
U/G FIRES &  
EMERGENCY PREPAREDNESS**

FIRE NO.	METHOD(S) OF EXTINCTION			MINE RESCUE DEPLOYED		PERSONS TO HOSPITAL	INSPECTORATE	COMMENT	REASON FOR AFFF SYSTEM'S FAILURE TO SUPPRESS
	AFFF	RATING	TYPE	YES	NO				
	FAIL*			YES		0	KALGOORLIE	MINE EVACUATED / LEFT TO BURN	GAS ACTIVATOR FAILED
		B (E)	1 OFF		NO	0	KALGOORLIE	HYDRAULIC HOSE PULLED OUT	
		B (E)	2+		NO	0	KALGOORLIE	WINDINGS OVERHEATED	
		B (E)	1 OFF		NO	0	KALGOORLIE	DRILL TOWED BY CAT980C	
		B (E)	1 OFF		NO	1	KALGOORLIE	WELDING IN VENT SHAFT	
	YES	B (E)	1 OFF		NO	1	KARRATHA	BROKEN HYDRAULIC HOSE	
	YES	B (E)	5 Kg		NO	0	KARRATHA	BROKEN STEERING HOSE	
	FAIL*	B (E)	2 OFF		NO	0	KALGOORLIE	BROKEN HYDRAULIC HOSE	FIRE AREA NOT COVERED
	YES	B (E)	1 OFF		NO	0	KARRATHA	BROKEN OIL LINE FROM SUMP	
		B (E)	1 OFF		NO	0	KARRATHA	ENGINE STARTED BACKWARDS	
		B (E)	1 OFF		NO	0	KALGOORLIE	FAULTY FUEL PRIMING PUMP	
					NO	0	KALGOORLIE	OIL FROM COUPLING ONTO PUMP	
	FAIL*	B (E)	3 OFF		NO	0	PERTH	BATTERY CABLE ARCED	FIRE AREA NOT COVERED
	YES				NO	0	KALGOORLIE	SEVERED HYDRAULIC PUMP LINE	
		FAIL	DP	YES		0	KALGOORLIE	EARTH FAULTY(USED FUEL LINE)	
	FAIL*	B (E)	1 OFF		NO	0	KALGOORLIE	ELECTR. SHORT CIRCUIT IN CAB	FIRE AREA NOT COVERED
					NO	0	PERTH	FAULT IN LIGHTING (24V DC)	
	YES				NO	0	KARRATHA	OIL SEAL FAILED ON HY/PUMP	
	YES				NO	0	KALGOORLIE	EXHAUST LEAK IGNITED WIRING	
		B (E)	1 OFF		NO	0	KALGOORLIE	STARTER MOTOR WIRING WORN	
		B (E)	2 DP		NO	0	KARRATHA	JAMMED BRAKE CALIPERS	
		B (E)	1 OFF		NO	0	PERTH	WATER ON ELECTR. BOX	
		B (E)	1 OFF		NO	0	KALGOORLIE	WIRING FAULT & FUEL LEAK	
	YES				NO	0	KALGOORLIE	BROKEN FUEL LINE ONTO TURBO	
	YES	B (E)	1 OFF		NO	0	KARRATHA	BROKEN HYDRAULIC HOSE	
		B (E)	1 OFF		NO	0	KALGOORLIE	BROKEN HYDRAULIC HOSE	
		B (E)	1 OFF		NO	0	KALGOORLIE	NO CAP ON ENGINE OIL TANK	
		B (E)	1 DP		NO	0	KALGOORLIE	FUEL LEAK ONTO EXHAUST	
		B (E)	1 DP		NO	0	KALGOORLIE	FRONT BRAKE CALIPERS ON	
		B (E)	1 OFF		NO	0	PERTH	FLASHING LIGHT MOTOR O/HEATED	
		B (E)	1 OFF		NO	0	KALGOORLIE	OVERHEATING BRAKES	
		B (E)	1 OFF		NO	0	KALGOORLIE	FAULTY FRONT BRAKES	
5	12	25	25	2	30	2	32		4

FIRE NO.	METHOD(S) OF EXTINCTION		MINE RESCUE DEPLOYED		INSPECT.	NUMBER OF FIRES PER INSPECTORATE	PERCENTAGE OF FIRES BY INSPECTORATE	INCIDENCE OF ALL FIRES PER 1000 DIESEL PERMITS ISSUED
	AFFF	EXTINGUISHER	YES	NO				
5%	38%	78%	6%	94%	KALG'LIE	21	66%	28
					KARRATHA	7	22%	76
					PERTH	4	13%	29
					COLLIE	0	0%	0
					<b>TOTAL</b>	<b>32</b>	<b>100%</b>	<b>31</b>

# UNDERGROUND FIRES

## VEHICLE INCIDENCE ANALYSIS

### 1992-1993

DIESEL EQUIPMENT		KALGOORLIE				KARRATHA				PERTH			
NUMBER OF ENGINES		754				92				138			
TOTAL POWER (KW)		92,533				8,971				14,399			
AVERAGE POWER (KW)		123				98				104			
	NO. OF UNITS	PERCENT	NO. OF FIRES	INCIDENCE PER 1000	NO. OF UNITS	PERCENT	NO. OF FIRES	INCIDENCE PER 1000	NO. OF UNITS	PERCENT	NO. OF FIRES	INCIDENCE PER 1000	
LIGHT VEHICLES	289	38	1	3	37	40	1	27	44	32	1	23	
LHD / FEL	152	20	8	53	19	21	4	211	41	30	1	24	
HAULTRUCKS	96	13	7	73	7	8	1	143	15	11		0	
DRILL RIGS	73	10	2	27	8	9	1	125	18	13	1	56	
GRADERS	19	3		0	3	3		0	4	3		0	
TRACTORS	12	2		0	1	1		0	0	0		0	
SKID STEERED	5	1		0	3	3		0	0	0		0	
OTHERS	108	14		0	14	15	1	71	16	12		0	
<b>TOTAL</b>	<b>754</b>	<b>100</b>	<b>18</b>	<b>24</b>	<b>92</b>	<b>100</b>	<b>8</b>	<b>87</b>	<b>138</b>	<b>100</b>	<b>3</b>	<b>22</b>	
<b>DIESEL EQUIPMENT</b>		<b>TOTAL METALLIFEROUS</b>				<b>COLLIE</b>				<b>TOTAL INDUSTRY</b>			
NUMBER OF ENGINES		984				46				1030			
TOTAL POWER (KW)		115,903				1,943				117,846			
AVERAGE POWER (KW)		118				42				114			
	NO. OF UNITS	PERCENT	NO. OF FIRES	INCIDENCE PER 1000	NO. OF UNITS	PERCENT	NO. OF FIRES	INCIDENCE PER 1000	NO. OF UNITS	PERCENT	NO. OF FIRES	INCIDENCE PER 1000	
LIGHT VEHICLES	370	38	3	8	0	0	0	0	370	36	3	8	
LHD / FEL	212	22	13	61	5	11	0	0	217	21	13	60	
HAULTRUCKS	118	12	8	68	0	0	0	0	118	11	8	68	
DRILL RIGS	99	10	4	40	0	0	0	0	99	10	4	40	
GRADERS	26	3	0	0	1	2	0	0	27	3	0	0	
TRACTORS	13	1	0	0	13	28	0	0	26	3	0	0	
SKID STEERED	8	1	0	0	9	20	0	0	17	2	0	0	
OTHERS	138	14	1	7	18	39	0	0	156	15	1	6	
<b>TOTAL</b>	<b>984</b>	<b>100</b>	<b>29</b>	<b>29</b>	<b>46</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>1030</b>	<b>100</b>	<b>29</b>	<b>28</b>	

T. H. FISHER  
PRINCIPAL MINING ENGINEER  
SEPT. 1993



Smoko time - city style - **Joe Hadlow** and **Gary Dhue** (Dominion Mining) at a Surface Ventilation Officers Course.



Is this what they mean by working from the ground up? **Bob Leggerini**, W.I.M. outside Lawlers Gold Project.



**ANTI-SLIP** may save the trip. For information ring (09) 337 9811.



For overnight cleaning, please leave on the branch of your choice **Darlot**

**THE CHAMBER OF MINES AND ENERGY,  
WESTERN AUSTRALIA INC**

**1993 UNDERGROUND  
MINE RESCUE COMPETITION,  
KALGOORLIE**

**SECTION TROPHY WINNERS**

**UNDERGROUND RESCUE SECTION -**

*KAMBALDA NO.1*

{Perpetual}

**SPECIAL RESCUE EXERCISE -**

*KAMBALDA NO.1*

**FIRST AID - KAMBALDA NO.1**

**FIRE FIGHTING - TELFER**

{Perpetual}

**TEAM SKILLS - CADJEBUT**

{Perpetual}

**THEORY - CNGC**

**BREATHING APPARATUS - KCGM NO.1**

{Perpetual}

**BEST TEAM - KAMBALDA NO.1**

{Perpetual}

**BEST CAPTAIN -**

*BEN INGHAM - KAMBALDA NO.1*

**NARA TROPHY - ORA BANDA**

**BEST FIRST YEAR RESCUE TEAM - HILL 50**

**TEAM SAFETY - KAMBALDA NO.1**

**ADJUDICATORS{Perpetual}AWARD - S&R**

**TEAM**

**LED BY STEVE BURSTON.**

SAFETY MAKES SENSE



## REDUCING NOISE AT WORK

### CHECKLIST

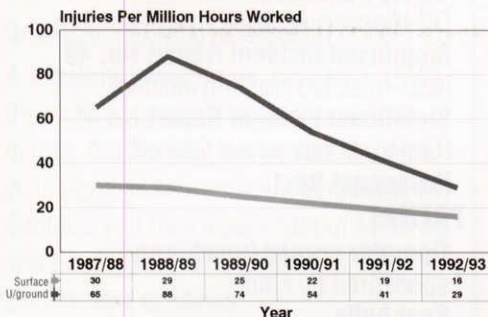
	Yes	No
■ Does the noise level interfere with your normal hearing? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Is the noise level disturbing? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Has a noise survey and report been completed? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Is there a real risk of damage to workers' hearing? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Is there a noise education program in place? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Have those workers at risk been identified? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Do the workers need hearing protection devices? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Are the hearing protection devices individually fitted? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Are the hearing protection devices readily available? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Do the hearing protection devices provide adequate protection? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ What proportion of workers use the hearing protection devices? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Are the hearing protection devices properly maintained? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Have major noise sources been identified? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Have any methods been used to reduce noise? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Is equipment regularly maintained? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Is a "buy quiet" policy included in the company's purchasing agreement? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Are relevant staff informed and trained? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Is a hearing conservation program in place? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Are all workers provided with hearing tests? .....	<input type="checkbox"/>	<input type="checkbox"/>
■ Do you have a noise control plan showing short and long term goals for noise reduction? ..	<input type="checkbox"/>	<input type="checkbox"/>

**WHERE THERE IS DOUBT - FIND OUT!**

# CORRECTIONS

## WESTERN AUSTRALIAN METALLIFEROUS MINES

### INJURY FREQUENCY



In the September issue of Minesafe, the chart showing industry frequency rates for underground and surface contained an error. The captions were reversed. The correct version is printed above.

In the directory published in the September issue of Minesafe some telephone numbers for the Electrical Inspectorate were wrong. New numbers are listed here.

## ELECTRICAL INSPECTORATE

- Graham Higgins (SECWA)  
Kalgoorlie (090) 210-522
- Bob Lawrence/  
Bob Lucas (SECWA)  
Geraldton (099) 210-348
- Terry Halley/  
Ken Adey (SECWA)  
Karratha (091) 822-225
- Mick Hayhow/  
Bob Anderson (SECWA)  
Bunbury (097) 255-349

- Kevin Kennedy (SECWA)  
Albany (098) 410-888
- John Watson (SECWA)  
Perth (09) 422 5269
- Bob Kerr (SECWA)  
Perth (09) 422 5273
- Roy Wallis (SECWA)  
Perth (09) 422 5267
- Mike Bunko (SECWA)  
Perth (09) 422 5275
- Denis Brown (DOMEWA)  
Perth (09) 222-3546

## ACCIDENT PREVENTION PRESENTATIONS

Over 40 minesites have participated in the accident prevention presentations run by Catherine Stedman. The presentations will run during 1994 beginning in February. If you would like to be included in the program, or want to know more about them, please contact;

Catherine Stedman on (09)2223538.

**AUSTEL** is a government body with authority to administer requirements detailed in the Telecommunications Act 1991.

The Act specifically provides for the licensing of persons who carry out 'cabling work' in subsection 268(1), which states:

**A person must not perform 'cabling work' unless:**

- (a) the person is a licensee, or
- (b) the person performs work under the supervision of a licensee.

Penalty: \$12 000

**'Cabling work' means:**

- (a) the installation of customer cabling for connection to a telecommunications network operated by a carrier; or
- (b) the connection of customer cabling to a telecommunications network operated by a carrier; or
- (c) the maintenance of customer cabling connected to a telecommunications network

operated by a carrier.

**'Customer cabling' means a line that;**

- (a) is, or is intended to be, connected to a telecommunications network operated by a carrier; and
- (b) is used, or intended for use, beyond the boundaries of any such telecommunications network.

**Supervision** requires a licenced cabler to provide personal on site supervision of all unlicensed cablers during the complete installation phase of all customer cabling .

Registered Managers and their staff should familiarise themselves with the requirements of the Act which has application in both surface and underground mines. Enquires should be directed to the

**AUSTEL** Manager in Perth.  
(09) 324 1344

# WHAT'S ON

## The 1994 Australian Coal Conference

Gold Coast, Queensland, 8-12 May

For further information contact:

1994 Australian Coal Conference

GPO Box 908

BRISBANE QLD 4001

Tel: (07) 221 2240 Fax: (07) 229 7797

## 1994 Australasian Institute of Mining and Metallurgy Annual Conference

Darwin, August 1994

For further information contact:

J.M. Webber, CEO

AusIMM, PO Box 122

PARKVILLE VIC 3052

Tel: (03) 347 3166 Fax: (03) 347 8525

## RISK MANAGEMENT FOR OPEN PIT MINES

### 4th Large Open Pit Mining Conference

Perth, Western Australia

5-9 September 1994

For further Information contact:

Dr Chris Swindells, GSWA

Department of Minerals and Energy

Western Australia

100 Plain Street, EAST PERTH 6004

Tel: (09) 222 3597 Fax: (09) 222 3633

or

Mr James Lawrence, Mining Operations

Tel: (09) 222 3095 Fax: (09) 222 3633

## STAFF CHANGES

Andrew Extract, formerly a District Inspector for the Kalgoorlie Inspectorate, has been transferred to the Perth Inspectorate.

Telephone: (09)222 3513



*Neil Hansen, System Co-ordinator, Research and Technical Services.*

## NEW FACES

## NEW PUBLICATIONS

### Rehab Blab No. 4

### Safety Bulletin No. 7

Earthing of Anfo Loaders u/g.

### Safety Bulletin No. 8

Recharging of fixed fire suppression systems on mobile equipment.

### Safety Bulletin No. 9

Off-Highway Mobile E/moving equip.

### Significant Incident Report No. 40

Near-miss u/g blasting incident.

### Significant Incident Report No 41

Haul truck rear wheel falls off.

### Rescuenet No.1

## POSTERS

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*Rob Murdoch, District Inspector, Kalgoorlie.*



*Dave Holly, District Inspector, Kalgoorlie.*



*Frank Saville, Rob Sherwood, new Workmen's Inspectors of Mines give themselves a crash course in Collie coal history.*

# 100 YEARS OF EXCELLENCE

When the majority of Western Australians wake up on January 1 1994, they will be aware that a new year has begun, but few will realise that the new year signifies an important landmark, the Centenary of the Department of Minerals and Energy, formerly known as the Department of Mines.

The story began on January 1 1894, when, to quote the Department of Minerals and Energy Annual Report 1992-1993, "The Department was established to ensure the safe and orderly development of mineral resources in Western Australia, and to allow the Government and the community to benefit from these activities. This is still the major role of the Department."

Since its inception, the Department has evolved to meet the changing needs and expectations not only of the general community but also of the mining industry itself.

To commemorate this important occasion, the Department is organising a number of events throughout the year. A feature will be a year long departmental display on the ground floor of Mineral House. This display will consist of contributions from all divisions, each highlighting their various functions, and is open to all members of the public. Minesafe readers we hope will take the opportunity to visit Mineral House. We look forward to seeing you.

# CONGRATULATIONS

To all those who obtained Certificates of competency during 1993 up to September 1993. Successful candidates in the October 1993 examinations will be acknowledged in the March 1994 edition of MINESAFE.

## AUTHORISED MINE SURVEYORS

Rodney Bernard Burns

## FIRST CLASS MINE MANAGER'S

Wayne Russell Taylor  
Richard Laufmann  
John Reginald Michael Walsh  
Stephen Jeffrey Miller  
Rodger Neville Hampson  
Michael Foulds  
Philip John Breamner  
David John Sproull  
Peter John Reynolds  
Paul John Harvey  
Alynn Scott Yaxley  
David Robert Collopy  
Olusegun Olatunde Odeleye  
Stephen John O'Grady  
David James Hume  
Craig John Evans  
Dean Patrick Will

## UNDERGROUND SUPERVISOR'S

Daniel James Perkin  
Grant William Coad  
Olusegun Olatunde Odeleye  
James Westwater Penman  
Herbert Heinrich Borchert  
James Mark Reid  
Michael Gilbert  
William George Star  
Patrick Gerard Grealish  
Brian Stephen Bosenberg  
Robin Paul Beaver  
Ashley Wilson James  
Steve Carlile Hodgman  
David Edward King  
Jochen Schreyvogel  
Michael John Hartzer  
Andrew Kenneth Clapshaw  
Geoffrey Craig Williams  
Michael Rex Swain  
Richardo Segunds Zumaran  
Rory James O'Rourke  
Anthony Stephen Lund

## QUARRY MANAGER'S

Stephen John Thomas  
Kamil Dincer Erer  
Mark David Chesher  
Peter Charles Kane  
James Gerard Corkery  
Stephen George Fisher  
Peter Claringbull  
Michael Gregory Slight

## RESTRICTED QUARRY MANAGER'S

Lex John Edwards  
\* Kerwin Bee  
\* Colin Joseph McCumstie  
Anthony William Giles  
Alan John King  
Terence James Butler  
Nigel Christopher Rogers  
John Geary  
Stephen Wallace  
Anthony Eames  
Robert Quinlivan  
Gregory John Mortlock  
William Gray  
Stewart Anthony Merton Mills  
Llewellyn John Brittain  
Ian Ross Cardilini  
John Martin O'Brien  
Graeme Ernest Booth  
Warren Clark  
Murray Rowland Cooper  
\* Timothy Mathew Shaun Hronsky  
Gregory Bishop  
Gregory Donald Goldsworthy  
Kevin James Broadbent  
Philip Desmond Blake  
Malcolm Lawrence Logan  
Brett William Forrest  
James Joseph Sweet  
Peter John William Ross Sanders  
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