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Historical Summary of Coal Mine Explosions in the United States, 1981-1994



UNITED STATES DEPARTMENT OF THE INTERIOR



UNITED STATES BUREAU OF MINES

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Cover: Coal dust explosion egressing the portal at the USBM experimental mine. Photo by Ronald S. Conti, USBM, Pittsburgh Research Center.



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**By Harry Dobroski, Jr., Clete R. Stephan,
and Ronald S. Conti**

**UNITED STATES DEPARTMENT OF THE INTERIOR
Bruce Babbitt, Secretary**

**BUREAU OF MINES
Rhea Lydia Graham, Director**

PREFACE

This report is a sequel to U.S. Bureau of Mines Bulletin 586 [also published as Information Circular (IC) 7900] and IC 8909, which summarized coal mine explosions from 1810-1958 and 1959-1980, respectively. It covers the period January 1, 1981, to December 31, 1994, and includes tables and figures that show various statistics associated with these explosions. Both surface and underground coal mines are included. In this time period, there were seven major underground coal mine explosions defined as disasters (i.e., resulting in five or more fatalities). These are discussed in some detail.

Underground mining is, and by its very nature has always been and will likely continue to be, a hazardous endeavor. Over the years these hazards have been greatly reduced by the application of new technologies and the enforcement of mine safety regulations, but yet they still occur. Because of this, the Federal Mine Health and Safety Acts of 1969 and 1977 encourage research into ways to prevent coal mine ignitions and explosions, and to minimize their effects if they do occur. Such research is especially important as more easily accessible coal reserves are depleted and thinner and deeper coal seams are mined. A brief review of this research is given.

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UNIT OF MEASURE ABBREVIATIONS USED IN THIS REPORT

Metric Units

cm	centimeter	m	meter
kg	kilogram	mm	millimeter
L	liter		

U.S. Customary Units

ft	foot	ms	millisecond
h	hour	pct	percent
in	inch	psig	pound per square inch gauge
lb	pound		

HISTORICAL SUMMARY OF COAL MINE EXPLOSIONS IN THE UNITED STATES, 1981-1994

By Harry Dobroski, Jr.,¹ Clete R. Stephan,² and Ronald S. Conti³

ABSTRACT

This U.S. Bureau of Mines (USBM) publication provides an overview of coal mine ignitions and explosions that occurred between January 1, 1981, and December 31, 1994. Major disasters that produced multiple fatalities and resulted in substantial damage to the mine and minor events that resulted in no injuries or fatalities and did little damage to the mine, are included. Data are extracted from various Mine Safety and Health Administration reports and databases, and are presented in tabular and graphical form for ease in understanding causes, trends, and problems.

Within this time period, there were seven major underground explosions that resulted in five or more fatalities. These disasters are discussed in some detail and a mine map of each disaster area is included. Appendixes list all reported ignitions and explosions chronologically.

Relevant USBM research intended to help eliminate or minimize the effects of coal mine ignitions and explosions is summarized; a bibliography of selected documents on this research is also included.

Data show that the total number of underground and surface ignitions and explosions remain high. Although only a small percentage resulted in damage, injuries, or death, each event had the potential of being far more serious, given only slightly different circumstances.

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INTRODUCTION

This publication is a sequel to U.S. Bureau of Mines (USBM) Bulletin 586 (also published as Information Circular (IC) 7900)⁴ and IC 8909,⁵ and represents a joint effort between USBM and the Mine Safety and Health Administration (MSHA) to include, in one document, information on coal mine ignitions and explosions and relevant research intended to reduce the frequency and severity of those events. Most of the information is presented in tables and charts that span a 14-year time interval. This makes it easier to see problems and trends from a broader perspective.

In this publication, an ignition is defined as the flaming of an airborne mixture of gases, vapors, and/or dust as the

result of an ignition source. There is little pressure front or flame propagation. An explosion is defined as an ignition that results in a large, violent, and rapid pressure and/or flame front that usually propagates for great distances. A disaster is defined as any event that results in five or more fatalities.

In this time period, there were seven underground explosion disasters. A summary of the MSHA Accident Report for each disaster is presented. Copies of the complete reports are available from MSHA, 4015 Wilson Blvd., Arlington, VA 22203; identify the disaster of interest when requesting.

UNDERGROUND EXPLOSION DISASTERS

MID-CONTINENT RESOURCES, INC., DUTCH CREEK NO. 1 MINE (Figure 1)

At approximately 4:08 p.m., April 15, 1981, a methane and coal dust explosion occurred in the 102 longwall development section of Dutch Creek No. 1 Mine located near Redstone, Colorado. Fifteen miners died as a result. Nine of the victims were working in the 102 section and six were working in the Slope section. Six miners working in other areas of the mine at the time of the explosion survived. Three were injured and were rescued; the other three were not injured and escaped unassisted to the surface.

MSHA investigators concluded that an outburst occurred at the face of the No. 1 entry on the 102 section that released large amounts of methane and coal dust. This was caused by extensive stresses exerted on the coal-bed and face by the massive overburden and other geological conditions in the mine. The outburst created an explosive atmosphere.

The explosion occurred when this atmosphere accumulated around a continuous mining machine and migrated into an explosion-proof compartment that housed a light switch and light switch control. This was possible because the compartment was not maintained in a permissible condition. The cover was not properly installed because it had been closed upon a piece of wire left in a flange joint, resulting in a gap exceeding 0.038 cm (0.015 in). This gap

permitted the explosive atmosphere to migrate into the compartment where it was ignited by the operation of the switch. Flame and burning material within the compartment escaped via the gap and ignited the explosive atmosphere in the face area of the 102 section of the No. 1 entry.

Flame and major forces of the explosion propagated from the face area of the 102 section, and split in the main slope entries at the mouth of the 102 section. Flame and forces traveled inby in Nos. 7, 6, and 5 entries of the slopes to the Slope section, and then moved outby in the slope entries. The flame extended as far as the No. 56 crosscut, and the major forces traveled further outby to the No. 48 crosscut. (Authors' note: The 102 and Slope sections of the mine are widely separated; the Nos. 5, 6, and 7 entries and Nos. 48 and 56 crosscuts are off the maps shown in figure 1.)

Conditions and practices that contributed to the explosion include:

1. Improper installation of the lighting system on the mining machine that did not deenergize when the methane monitor exceeded 2.0 pct.
2. Wiring of the light switch and installation of the cover of the explosion-proof compartment by an unqualified person.
3. Failure to test the flame path under the cover of the explosion-proof compartment to ascertain that it was in permissible condition after the cover was installed.

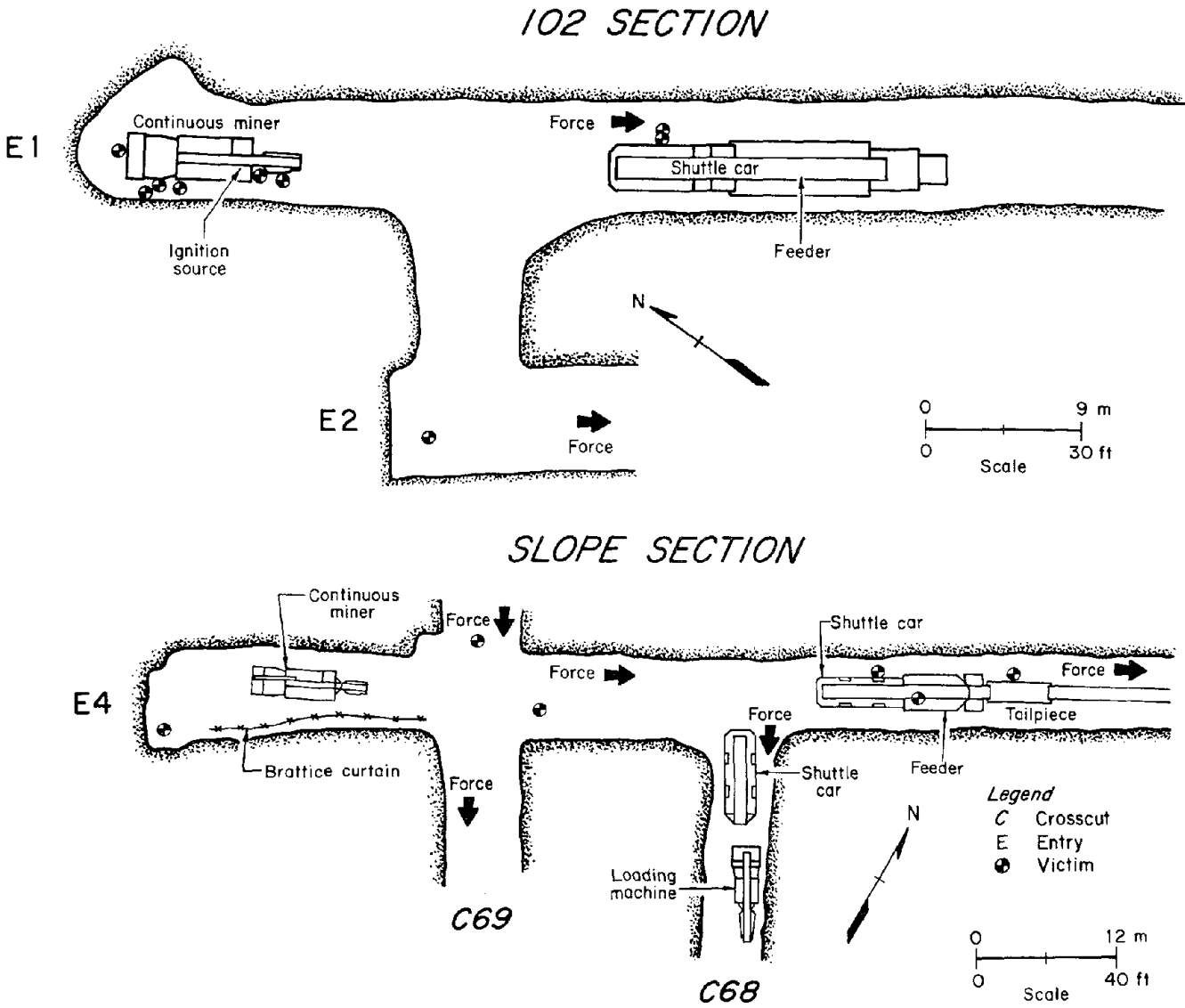
ADKINS COAL CO., NO. 11 MINE (Figure 2)

On December 7, 1981, at approximately 2:50 p.m., a coal dust explosion occurred on the south main working

⁴Humphrey, H. B. Historical Summary of Coal Mine Explosions in the United States, 1910-1958. BuMines B 586, 1960, 280 pp. Originally issued as BuMines IC 7900, 1959, 275 pp.

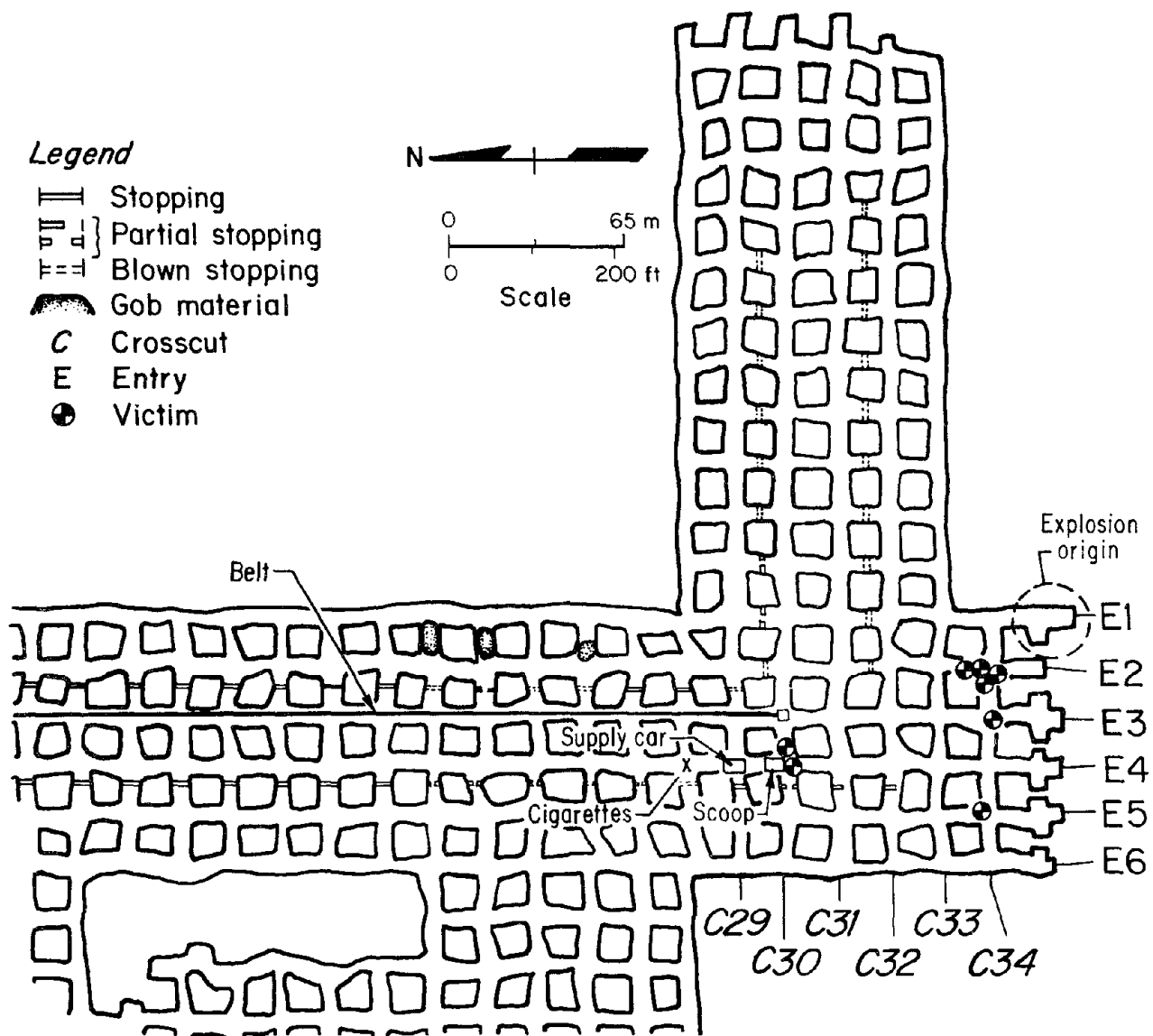
⁵Richmond, J. K., G. C. Price, M. J. Sapko, and E. M. Kawenski. Historical Summary of Coal Mine Explosions in the United States, 1959-1981. BuMines IC 8909, 1983, 53 pp.

Figure 1



Explosion area, Mid-Continent Resources, Inc., Dutch Creek No. 1 Mine, April 15, 1981.

Figure 2



Explosion area, Adkins Coal Co., No. 11 Mine, December 7, 1981.

section at the No. 11 Mine, Adkins Coal Co., located at Kite, Knott County, Kentucky. The accident resulted in the death of all eight miners who were underground at the time. The accident occurred while the face and right crosscut were being blasted simultaneously from the solid in the No. 1 entry of the active working section.

MSHA investigators concluded that a coal dust explosion occurred when a blown-out shot from the right corner blast hole of the No. 1 entry face on the south main section ignited coal dust that had been put into suspension by the blasts of this face and the face of the right crosscut. Coal dust deposited on the floor, roof, and ribs from previous mining operations was also placed into suspension by the blasts, igniting and contributing to the propagation of the explosion. The blown-out shot occurred in the last hole in the sequence of shots that were initiated by delayed electric blasting caps having a nominal delay time of 25 to 700 ms. The blown-out shot was caused when the second hole from the corner failed to completely detonate, leaving the corner hole overburdened. The remainder of the partially failed hole, 1.88 m (74 in) in depth, contained a continuous train of undetonated explosives without a blasting cap or stemming.

Conditions and practices that contributed to the explosion and its propagation include:

1. Charging each blast hole with about 2.72 kg (6 lb) of explosives and using a 22.7-kg (50-lb) case to blast each face.
2. Slitting the paper wrappings around the explosive cartridges before inserting them into the blast holes, tamping the deformed cartridges into the holes, and blasting without stemming.
3. Not applying water, with or without a wetting agent, or other effective methods, to coal dust on the ribs, roof, and floor, particularly at distances less than 12.2 m (40 ft) from the face, to reduce dust dispersibility and to minimize the explosion hazard.
4. Not applying sufficient quantities of rock dust to the mine surfaces to render the coal dust inert to prevent the explosion from propagating.
5. Permitting coal dust (including float coal dust) and loose coal to accumulate along the entries in the working section in areas immediately outby and in entries developed to the left of the section loading point.
6. Failure to install and maintain line brattices or other approved devices in the working places to remove the coal dust that was dispersed into suspension when coal was blasted from the solid in the faces of the entries and connecting crosscuts.

GRUNDY MINING CO., NO. 21 MINE (Figure 3)

At approximately 12 m. on December 8, 1981, an explosion occurred in 003 section of the No. 21 Mine of

Grundy Mining Co., Inc., located at Whitewell, Tennessee. There were 56 men in the mine when the explosion occurred; 13 died, 43 survived. Six remained underground to participate in the recovery operations, and the remainder escaped to the surface.

MSHA investigators concluded that methane accumulations in the Nos. 2 and 3 Left gob off 5 Right flowed through a 1.22- by 2.13-m (4- by 7-ft) hole and test boreholes in No. 2 and No. 3 entries of 003 section. Because intake air to the section was short-circuited from the faces at a crosscut between No. 2 and No. 3 entries (3 crosscuts outby the faces), methane migrated into the 003 section from the faces of No. 2 and No. 3 entries. It was concluded that a miner using a cigarette lighter ignited the methane-air mixture, causing the explosion. Apparently the miners saw the burning flame front just after ignition. This observation is supported by the fact that 12 of the 13 victims were headed outby when they were overcome by the explosion. In further support of this conclusion, personal effects (miners' hats, a hammer, two flame safety lamps, and a jacket) were located inby the bodies of the victims. These observations indicated to the investigators that the miners were traveling away from the ignition source.

Conditions and practices that contributed to the explosion include:

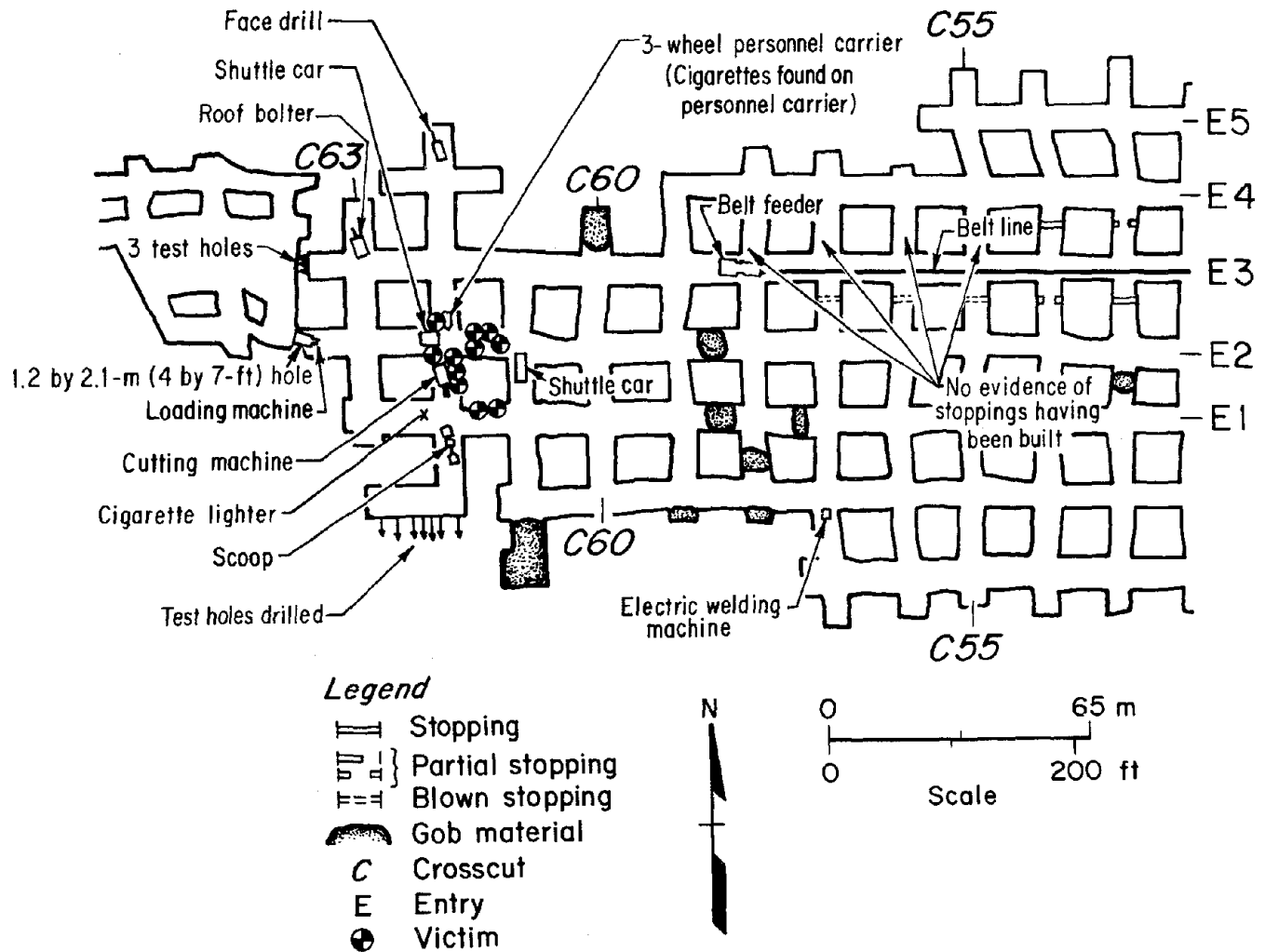
1. The failure of miners and management to abide by smoking prohibitions.
2. The failure of management to provide ventilation controls necessary to maintain adequate ventilation in the 003 section and to maintain an effective bleeder system for the 5 Right abandoned area.
3. The failure of management to remove miners from the area affected by methane migrating from the intersected 5 Right abandoned area.

RFH COAL CO., NO. 1 MINE (Figure 4)

On January 20, 1982, at approximately 9:40 a.m., a coal dust explosion occurred in the 001 section of RFH Coal Co.'s No. 1 Mine located at Mink Branch near Craynor, Floyd County, Kentucky. All seven miners working underground at the time of the explosion were killed.

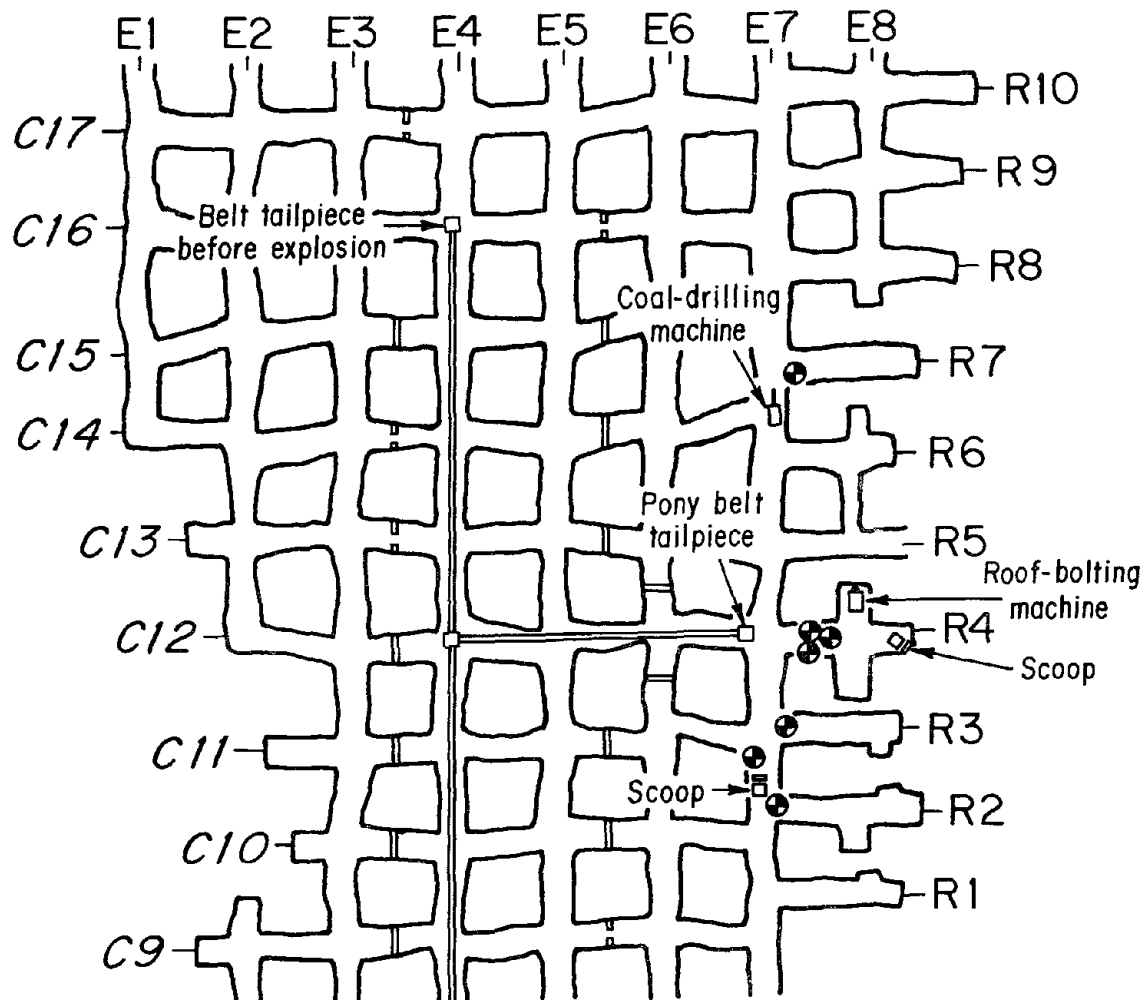
MSHA investigators concluded that coal dust ignited in the No. 5 room when explosives were detonated in the developing crosscut between the Nos. 5 and 6 rooms. The crosscut was being mined from the No. 6 room toward the No. 5 room. Prior to blasting, the coal remaining in the crosscut between the two rooms was approximately 1.52 m (5 ft) thick. When the crosscut was blasted, it shot through into the No. 5 room. The flames from the explosion were not contained within the boreholes due to either a blown-out or blown-through shot, excessive explosives used per hole, or an overburdened or underburdened shot. The

Figure 3



Explosion area, Grundy Mining Co., No. 21 Mine, December 8, 1981.

Figure 4



Legend

- Stopping
- Partial stopping
- C Crosscut
- E Entry
- R Room
- Victim

0 65 m
0 200 ft
Scale

Explosion area, RFH Coal Co., No. 1 Mine, January 20, 1982.

flames that resulted ignited a cloud of coal dust in the No. 5 room. The flames then propagated into the No. 6 room as well as out of the No. 5 room into other areas of the mine.

Conditions and practices that contributed to the explosion and its propagation include:

1. Failure to apply water or other effective methods to coal dust on the ribs, roof, and floor, particularly at distances less than 12.2 m (40 ft) from the face, to reduce dispersibility and to minimize the explosion hazard.
2. Failure to use line brattices or other approved devices in the No. 5 room to provide adequate ventilation in the face area to remove suspended coal dust.
3. Failure to apply sufficient quantities of rock dust to the mine surfaces to render the coal dust inert, and retard the propagation of explosions.
4. Permitting coal dust (including float coal dust) and loose coal to accumulate along entries, rooms, and areas outby the working section.

CLINCHFIELD COAL CO., McCLURE NO. 1 MINE (Figure 5)

At approximately 10:15 p.m., June 21, 1983, an explosion occurred in the 2 Left entries of McClure No. 1 Mine of Clinchfield Coal Co., located at McClure, Virginia. Ten miners were present in the 2 Left entries at the time of the explosion, eight in the face area and two in the track entry. Seven died as a result of the explosion. Three miners at the faces survived the explosion and were rescued.

MSHA investigators concluded that the primary cause of the explosion was the failure of mine management to maintain sufficient volume and velocity of air in the No. 2 and No. 3 entries of 2 Left to dilute, render harmless, and carry away the methane gas being liberated in those entries.

About nine hours before the explosion, the No. 40 crosscut of 2 Left was cut through into the longwall setup entries. A failure to install ventilation controls to separate the airsplit ventilating the setup entries from the airsplit ventilating the 2 Left entries materially affected the movement of air in No. 2 and No. 3 entries of 2 Left. The volume and velocity of air became inadequate to dilute and to carry away flammable and explosive gases that were liberated in the area. The failure to maintain the airflow in its proper volume and direction in the setup entries, the 2 Left face area, and outby in the No. 2 and No. 3 entries of 2 Left, allowed an accumulation of an explosive methane-air mixture in the No. 2 and No. 3 entries of 2 Left. These changes in ventilation remained uncorrected

for about 9 h. The explosive atmosphere was ignited by electrical arcing created by one of six possible sources:

1. Interruption of the belt control circuit.
2. A ground fault in the trailing cable for the conveyor belt feeder.
3. Interruption of the dinner hole light circuit.
4. Normal operation of the nonpermissible personnel carrier.
5. Automatic operation of one of the circuit breakers in the section power center.
6. A fault in the cable plug for the continuous mining machine trailing cable.

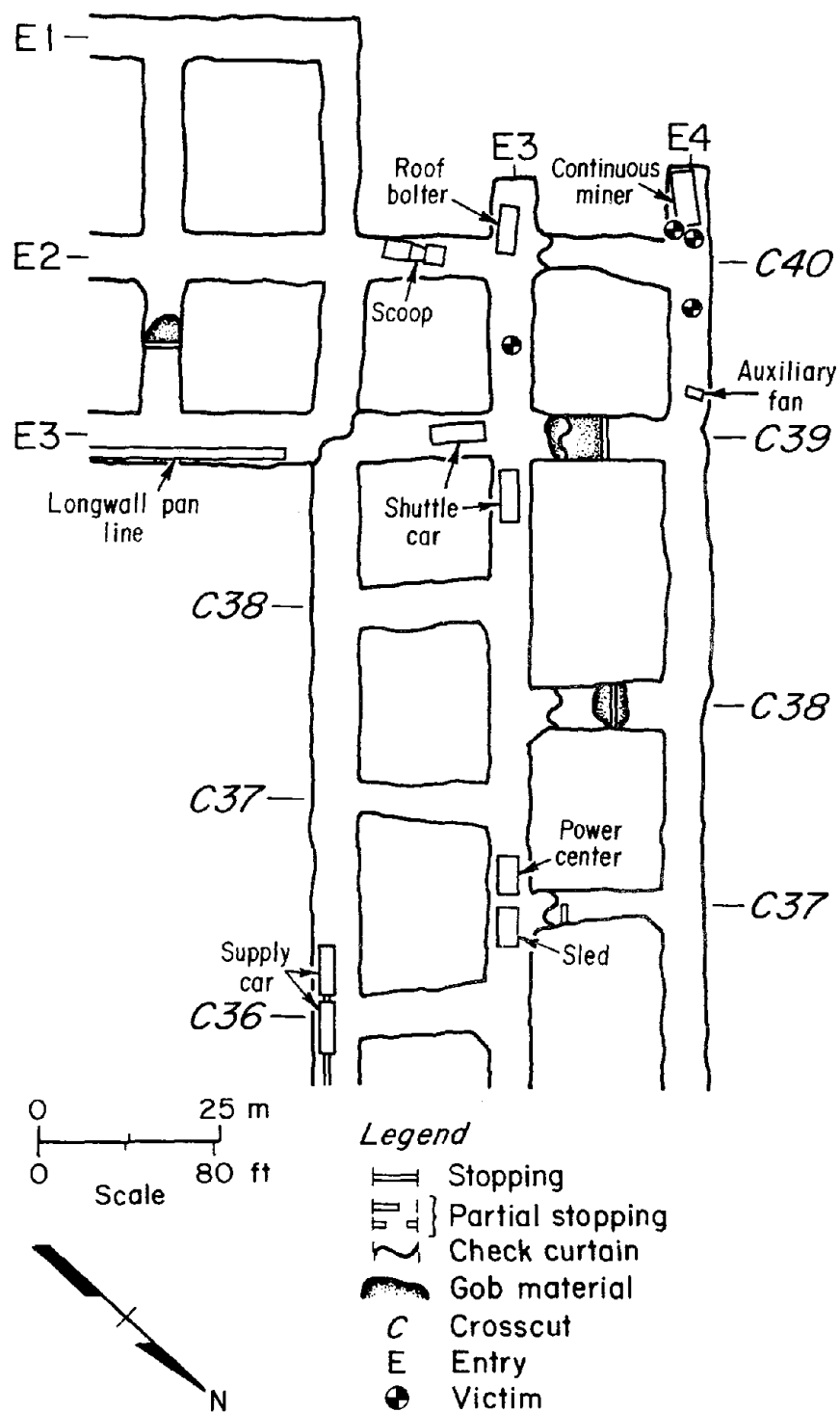
Conditions and practices that contributed to the explosion include:

1. Failure to follow the approved ventilation plan and maintain the separation between the air current ventilating the setup entries and the air current ventilating the 2 Left entries after the two sets of entries were connected at the No. 40 crosscut of 2 Left.
2. Failure to fully recognize potential consequences of neglecting to maintain separation between the air current ventilating the setup entries and the air current ventilating the 2 Left entries.
3. Failure to properly evaluate the effects of the open connection at No. 40 crosscut on ventilation of 2 Left entries.
4. Failure to ensure that procedures for maintaining separation between air currents ventilating two sets of entries were established, fully understood, and followed by persons responsible for carrying them out when the sets of entries were connected.
5. Failure to ensure that adequate preshift and onshift examinations were made in the 2 Left entries during the day shift and evening shift on June 21, 1983.
6. Failure to train certified persons in the proper procedures for conducting preshift examinations of conveyor belt and conveyor belt entries when making belt examinations.

PYRO MINING CO., WILLIAM STATION MINE (Figure 6)

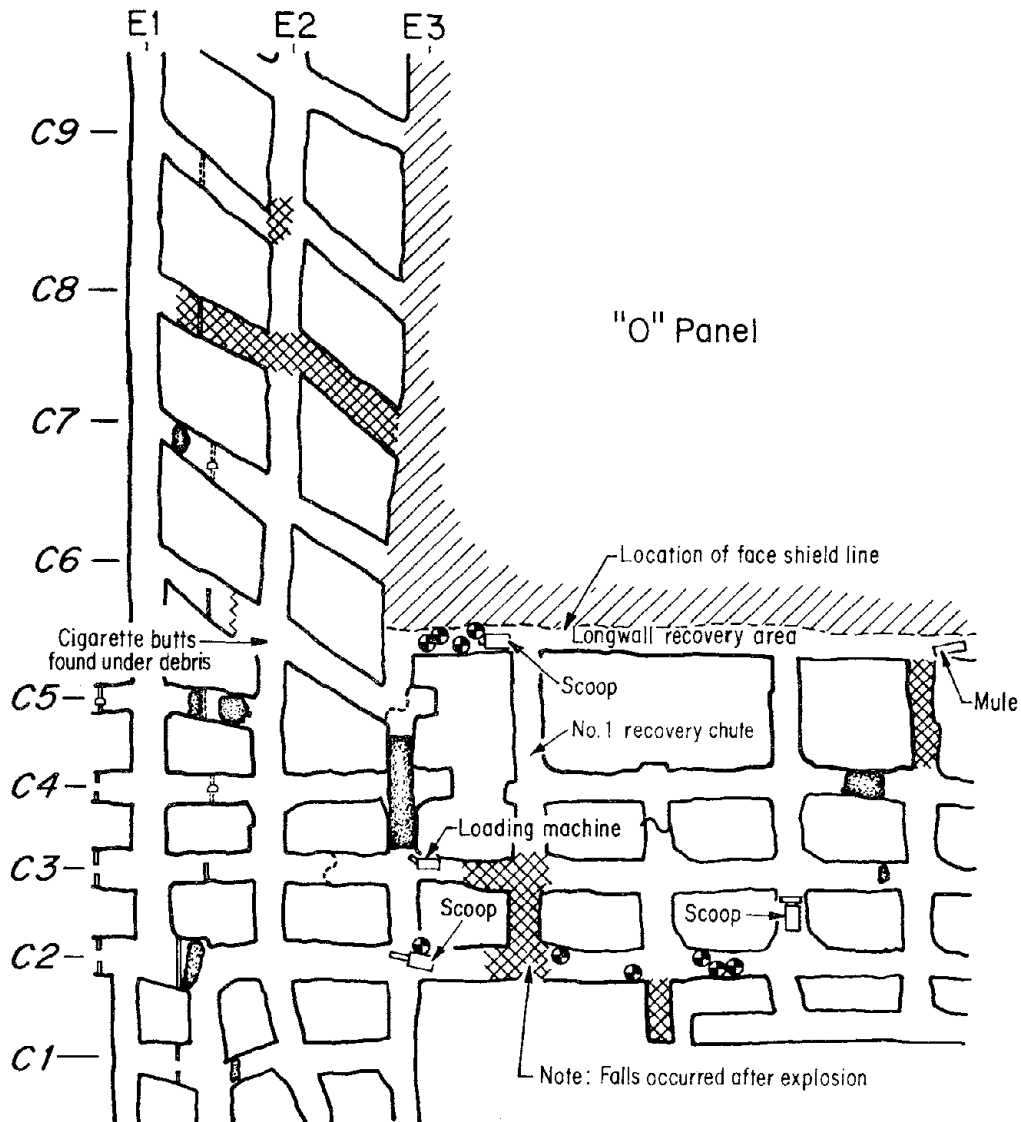
At about 9:13 a.m., September 13, 1989, an explosion occurred on Longwall Panel "O", between the 4th and 5th West entries off the first Main North entry, of Pyro Mining Company's Pyro No. 9 Slope, William Station Mine, located at Sullivan, Kentucky. Fourteen miners were present in the longwall recovery area at the time of the explosion. Ten died as a result of the explosion; four escaped despite being exposed to high concentrations of carbon monoxide and smoke.

Figure 5



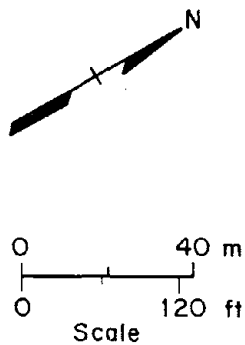
Explosion area, Clinchfield Coal Co., McClure No. 1 Mine, June 21, 1983.

Figure 6



Legend

- Stopping
- Partial stopping
- Blown stopping
- Partial blown stopping
- Check curtain
- Blown check curtain
- Stopping with door
- Blown stopping with door
- Gob material
- Roof fall
- C Crosscut
- E Entry
- Victim



Explosion area, Pyro Mining Co., William Station Mine, September 13, 1989.

MSHA investigators concluded that the primary cause of the explosion was the failure of management to maintain a sufficient volume and velocity of air in the proper direction in the 4th West entries and longwall face to dilute, render harmless, and carry away methane accumulations in that area.

Changes had occurred during the mining of Longwall Panel "O" in the 4th and 5th West entries and in the longwall bleeder ventilation system. The removal of the stopping in the No. 1 cut-through entry between the 4th and 5th West entries disrupted the separation between the 2nd Main North entry's ventilation system and the longwall bleeder system. These changes decreased the airflow across the longwall face and permitted methane to migrate from the gob and accumulate in the No. 2 entry of the 4th West entries in by the No. 6 crosscut and near the longwall headgate. This caused an explosive methane-air mixture to flow toward and into the longwall recovery area where it was ignited by one of five probable sources:

1. Operation or attempted lighting of a cutting torch.
2. Operation of a scoop tractor.
3. Detonation of a blasting cap.
4. Roof fall.
5. Tensile failure of the messenger wire.

Conditions and practices that contributed to the explosion include:

1. Failure to maintain adequate airflow in proper volume and direction in the No. 2 entry of the 4th West entries in by the No. 6 crosscut, and failure to maintain the proper pressure differential across the Longwall Panel "O" gob in accordance with the approved mine ventilation plan.
2. Failure to recognize the sensitivity of the bleeder system and the effects of the numerous ventilation changes.
3. Failure to determine whether the bleeder system was functioning to continuously move methane-air mixtures from the gob, away from the active workings, and deliver such mixtures to the return aircourses.
4. Failure to maintain curtains in the recovery rooms and in the 4th West entries where permanent stoppings were removed.
5. Failure to ensure that a preshift examination was conducted in the Longwall Panel "O" recovery area prior to the day shift of September 13, 1989.
6. Failure to initiate corrective action to determine the source and cause of methane accumulations when

explosive concentrations were detected on the longwall face on Saturday, September 9, 1989.

7. Failure to take adequate precautions prior to removing the stopping in the No. 1 cut-through entry between the 4th and 5th West entries. The stopping was removed during an active shift with miners in the mine.

SOUTHMOUNTAIN COAL COMPANY, NO. 3 MINE (Figure 7)

At approximately 6:15 a.m., December 7, 1992, an explosion occurred on the 1 Left section of Southmountain Coal Co. Inc.'s No. 3 Mine at Norton, Virginia. Eight miners were killed, and another miner working in an outby area was injured.

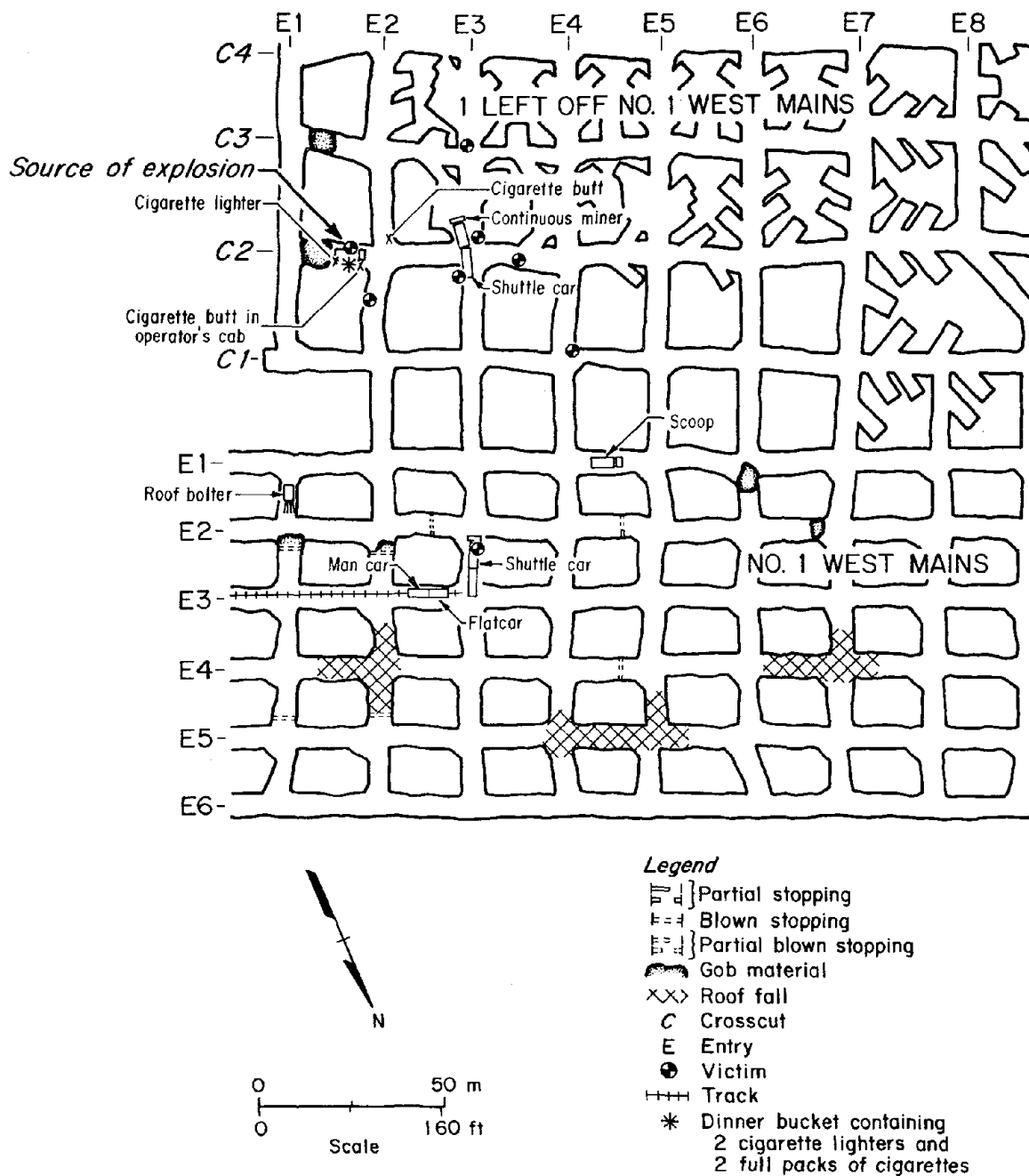
MSHA investigators concluded that an open flame from a cigarette lighter found on the mine floor was the ignition source. Persons were smoking in the mine, and the operator's smoking search program was not effective. One cigarette pack containing nine unsmoked cigarettes was found on a victim located at the point of origin, and ten smoked cigarettes were found in his pockets.

The bleeder system of the pillared 1 Right off 1 Left, 2 Right off 1 Left, and 1 Left section was not examined or maintained to continuously move methane-air mixtures away from the active faces. The condition of the mine roof in the bleeder entry had deteriorated to the point that the bleeder entry had not been examined for several weeks. Methane, liberated mostly from the closely overlying Kelly Rider seam, accumulated in the pillared areas of the bleeder entry. Ventilation controls, both permanent and temporary, on the active working section had been removed, or had not been maintained. This action allowed the methane to migrate from the pillared area and bleeder entry to the No. 1 entry and in the No. 2 crosscut between No. 1 and No. 2 entries. Other factors included the dip of the coalbed, the drop of the barometric pressure before the explosion, the possibility of water accumulations, and roof falls occurring within the pillared areas and bleeder entry.

The methane was ignited on the 1 Left section in the No. 2 crosscut between the No. 1 and No. 2 entries by an open flame from a butane cigarette lighter. The methane explosion resulted in sufficient forces and flames to suspend and ignite coal dust in 1 Left. The coal dust explosion continued to propagate the entire distance of the No. 1 West Main entries to the surface area of the mine.

Conditions and practices that contributed to the explosion include:

Figure 7



Explosion area, Southmountain Coal Company, No. 3 Mine, December 7, 1992.

1. Improperly conducted weekly examinations for the No. 3 Mine and the 001 section on November 21-30, 1992. The certified examiner failed to examine the bleeder system in its entirety due to adverse roof conditions.

2. An inadequately conducted smoking search program. Smoking material was found with three of the victims, and a lunch container was found to contain two full packs of cigarettes and two cigarette lighters.

3. Failure to conduct a thorough preshift examination on the 001 section between 9:30 p.m. and 10:30 p.m. on December 6, 1992, for the oncoming midnight shift on the 1 Left 001 section.

4. Improperly placed and maintained ventilation control devices.

5. Failure to maintain the required incombustible content of the mine dust.

6. Failure to follow the approved ventilation plan in the bleeder system in by No. 1 Left 001 section.

7. Failure to provide the necessary volume and velocity of air in the 1 Left 001 section.

8. Failure to conduct weekly examinations of the ventilation system at least every seven days.

OVERVIEW OF UNDERGROUND AND SURFACE IGNITION AND EXPLOSION DATA

Figures 8 to 12 and tables 1 to 3 are generated from various MSHA databases. Figures 8 and 9 show the total number of ignitions and explosions for underground and surface coal mines. Figure 10 and table 1 further refine these data by showing causes. Figure 10 shows the continuous mining machine to be the main source of ignition and explosion events in underground coal mines.

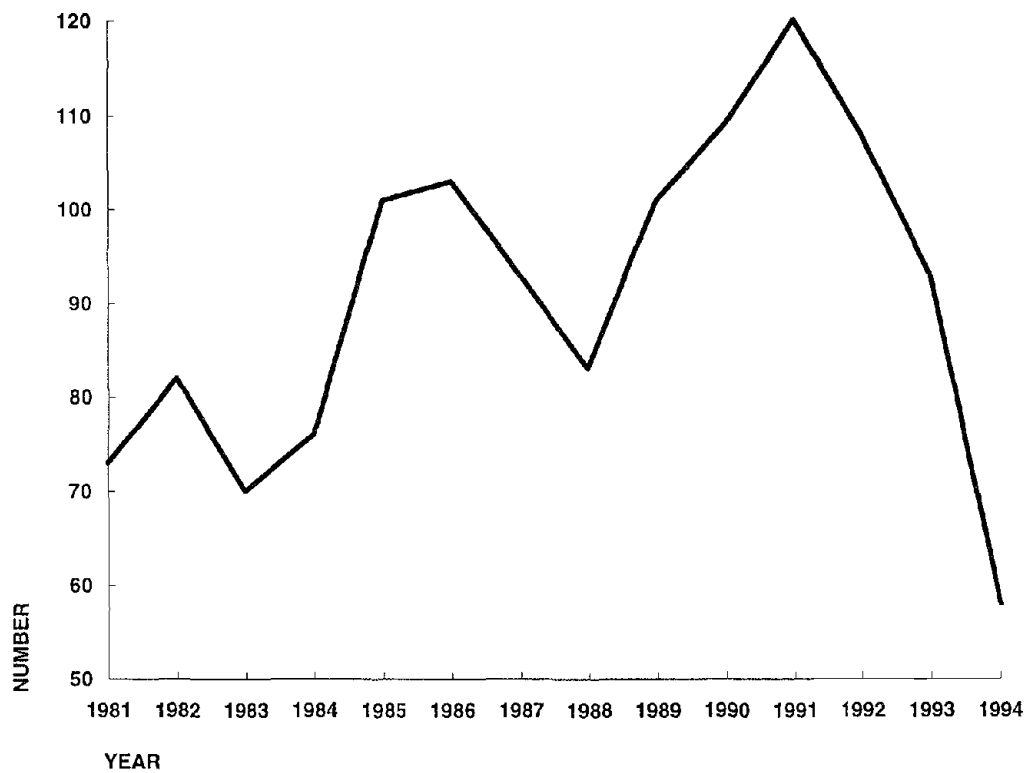
Figures 8 and 9 also show the trends concerning the total number of ignitions and explosions. Although most were minor, any could have been the initiator of a disaster given only slightly different circumstances and, hence, cannot simply be considered nuisances.

Figure 11 shows the total number of underground and surface fatalities as a result of ignitions and explosions.

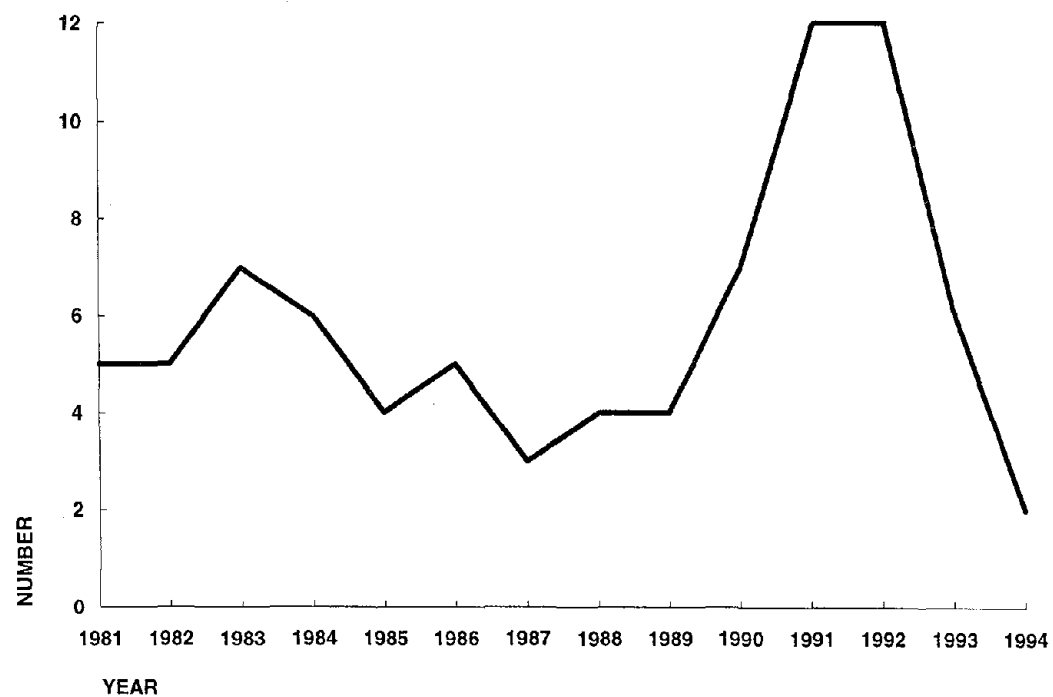
Table 2 further refines these data as to cause. Figure 12 and table 3 present similar statistics for injuries.

Table 4 summarizes the disasters that are within the timeframe of this report, and table 5 provides a comparison with the previous 12 years.

One serious problem in underground coal mines is that of smoking. Under the Code of Federal Regulation (CFR 30 75.1702), the mere possession of smoking materials underground is strictly prohibited. In addition under this regulation, operators must institute a program that "insures" that anyone entering the mine does not carry smoking material. Yet during the MSHA investigations of the seven disasters, there was evidence of smoking by miners in five cases, and in two of the five cases, smoking was considered to be the actual cause of the explosion.

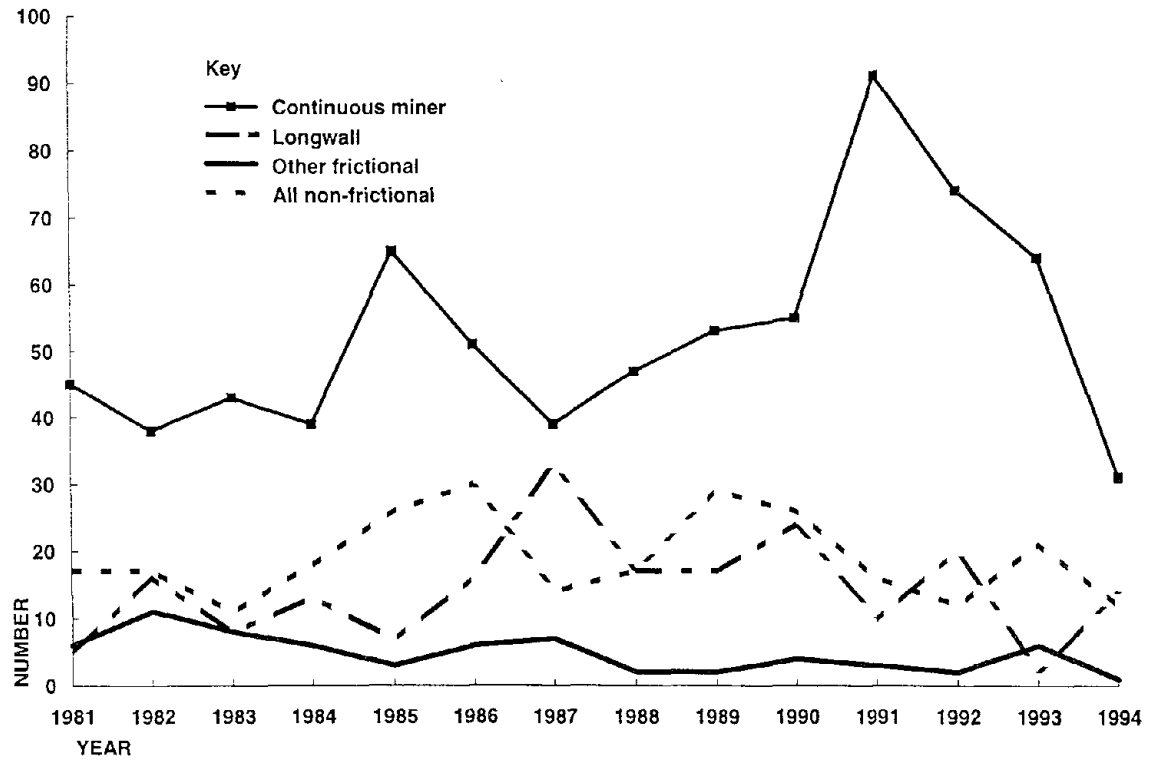
Figure 8

Total number of underground ignitions and explosions.

Figure 9

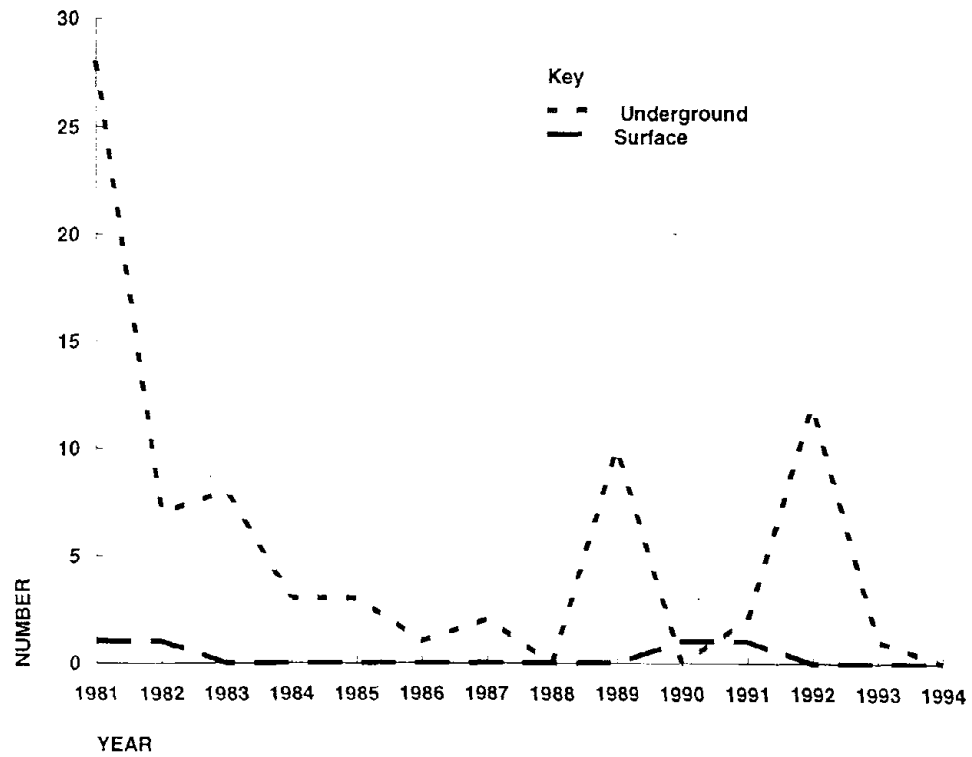
Total number of surface ignitions and explosions.

Figure 10

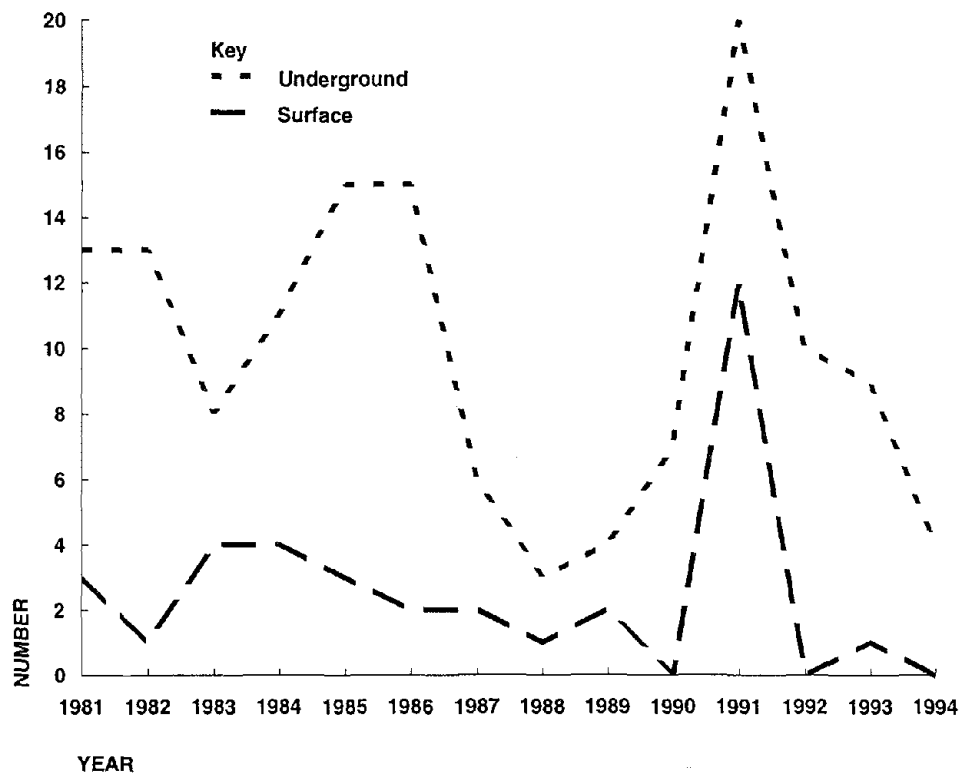


Underground ignitions and explosions by cause.

Figure 11



Underground and surface fatalities resulting from ignitions and explosions.

Figure 12

Underground and surface injuries resulting from ignitions and explosions.

Table 1.—Underground and surface coal mine ignitions and explosions listed by cause

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
UNDERGROUND														
Frictional:														
Continuous miner	45	38	43	39	65	51	39	47	53	55	91	74	64	31
Cutting machine	0	0	5	1	1	2	6	0	0	3	0	0	0	0
Longwall	5	16	8	13	7	16	33	17	17	24	10	20	2	14
Auger	45	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof bolter	6	11	3	5	2	2	0	2	1	1	3	1	4	1
Roof fall	0	0	0	0	0	1	1	0	0	0	0	1	0	0
Other	0	0	0	0	0	1	0	0	1	0	0	0	2	0
Total	56	65	59	58	75	73	79	66	72	83	104	96	72	46
Nonfrictional:														
Electrical	4	3	3	4	2	2	1	2	3	2	5	0	1	0
Explosives	3	5	1	0	3	3	2	1	2	4	0	0	0	0
Torch and/or welding	7	8	7	12	20	23	11	8	22	19	9	9	18	8
Cigarette lighter	1	0	0	0	0	0	0	0	1	0	1	1	0	0
Dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trolley	2	1	0	1	0	1	0	2	1	0	0	0	0	0
Other	0	0	0	1	1	1	0	4	0	1	1	2	2	4
Total	17	17	11	18	26	30	14	17	29	26	16	12	21	12
Grand total	73	82	70	76	101	103	93	83	101	109	120	108	93	58
SURFACE														
Frictional:														
Continuous miner	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cutting machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Longwall	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auger	0	0	0	0	1	0	0	0	0	0	4	3	0	0
Roof bolter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof fall	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	0	0	0	0	5	3	0	0
Nonfrictional:														
Electrical	0	3	2	0	0	0	0	0	0	1	0	0	1	0
Explosives	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Torch and/or welding	3	2	0	2	1	2	1	0	0	0	1	3	1	1
Cigarette lighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dryer	0	0	4	3	2	2	1	3	2	5	3	2	1	1
Trolley	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	1	0	0	1	0	0	1	1	2	1	3	4	3	0
Total	5	5	7	6	3	4	3	4	4	7	7	9	6	2
Grand total	5	5	7	6	4	5	3	4	4	7	12	12	6	2

Table 2.—Underground and surface coal mine fatalities due to ignitions and explosions listed by cause

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
UNDERGROUND														
Frictional:														
Continuous miner	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Cutting machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Longwall	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auger	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof bolter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof fall	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Total	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Nonfrictional:														
Electrical	15	0	8	3	0	0	1	0	0	0	0	0	0	0
Explosives	8	7	0	0	3	1	0	0	0	0	0	0	0	0
Torch and/or welding ...	0	0	0	0	0	0	0	0	10	0	0	4	0	0
Cigarette lighter	13	0	0	0	0	0	0	0	0	0	2	8	0	0
Dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trolley	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	36	7	8	3	3	1	1	0	10	0	2	12	0	0
Grand total	36	7	8	3	3	1	2	0	10	0	2	12	1	0
SURFACE														
Frictional:														
Continuous miner	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cutting machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Longwall	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auger	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof bolter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof fall	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Nonfrictional:														
Electrical	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Explosives	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Torch and/or welding ...	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Cigarette lighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trolley	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Total	1	1	0	0	0	0	0	0	0	1	0	0	0	0
Grand total	1	1	0	0	0	0	0	0	0	1	1	0	0	0

Table 3.—Underground and surface coal mine injuries due to ignitions and explosions listed by cause

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
UNDERGROUND														
Frictional:														
Continuous miner	1	9	0	6	1	8	3	0	1	2	3	0	7	2
Cutting machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Longwall	0	0	0	0	7	0	0	0	0	0	0	0	0	0
Auger	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof bolter	0	0	1	0	0	0	0	0	0	5	2	0	2	0
Roof fall	0	0	0	0	0	0	0	0	0	0	0	5	0	0
Other	0	0	0	0	0	4	0	0	1	0	0	0	0	2
Total	1	9	1	6	9	12	3	0	2	7	5	5	9	4
Nonfrictional:														
Electrical	6	0	3	4	2	0	0	0	0	0	12	0	0	0
Explosives	3	3	3	0	3	1	0	2	0	0	0	0	0	0
Torch and/or welding ...	3	0	1	0	0	2	3	0	0	0	2	4	0	0
Cigarette lighter	0	0	0	0	0	0	0	0	2	0	0	1	0	0
Dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trolley	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	1	1	0	0	1	0	0	1	0	0	0
Total	12	4	7	5	6	3	3	3	2	0	15	5	0	0
Grand total	13	13	8	11	15	15	6	3	4	7	20	10	9	4
SURFACE														
Frictional:														
Continuous miner	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Cutting machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Longwall	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auger	0	0	0	0	2	0	0	0	0	0	8	0	0	0
Roof bolter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof fall	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	2	2	0	0	0	0	10	0	0	0
Nonfrictional:														
Electrical	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Explosives	2	0	4	0	0	0	0	0	0	0	0	0	0	0
Torch and/or welding ...	1	0	0	0	1	0	2	0	0	0	0	0	0	0
Cigarette lighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dryer	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Trolley	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	4	0	0	0	1	2	0	1	0	1	0
Total	3	1	4	4	1	0	2	1	2	0	2	0	1	0
Grand total	3	1	4	4	3	2	2	1	2	0	12	0	1	0

Table 4.—Explosion disasters from January 1, 1981 to December 31, 1994

Date	Explosive atmosphere	Fatalities	Cause and/or contributing factor
4/15/81	Coal dust and methane	15	Electrical.
12/7/81	Coal dust	8	Explosives.
12/8/81	Methane	13	Cigarette lighter.
1/20/82	Coal dust	7	Explosives.
6/21/83	Methane	7	Electrical.
9/13/89	Methane	10	Cutting torch.
12/7/92	Methane	8	Cigarette lighter.

Table 5.—Comparison of explosion data between the periods 1969-1980 and 1981-1994

	January 1, 1969 to December 31, 1980	January 1, 1981 to December 31, 1994
Underground:		
Number of underground explosions	716	1270
Fatalities due to underground explosions . . .	79	77
Injuries due to underground explosions	139	138
Underground explosion disasters	4	7
Underground fatalities due to disasters	69	68
Underground injuries due to disasters	3	7
Surface:		
Number of surface explosions	34	82
Fatalities due to surface explosions	4	4
Injuries due to surface explosions	27	35
Surface explosion disasters	0	0

RESEARCH TO REDUCE FREQUENCY AND SEVERITY OF MINE EXPLOSIONS

Since its inception in 1910, the USBM has conducted research to address problems associated with mine safety and mining technology. This research, guided by the Federal Coal Mine Health and Safety Act of 1969 (Public Law 91-173) and the Federal Mine Safety and Health Amendments Act of 1977 (Public Law 95-164), is conducted using both in-house and contract efforts. The following is a short overview of research that was conducted in the time period from 1981 to 1994 in the areas of methane control, explosions, explosives, life support, and mine rescue. A bibliography of selected publications for the various research areas can be found at the end of this report.

METHANE CONTROL, METHANE DRAINAGE, VENTILATION

Methane ignitions and explosions in underground coal mines have been responsible for numerous multiple fatalities, especially in the early days of mining. This problem was particularly acute in the early 1900's when an appalling number of fatalities occurred. This high fatality rate was gradually reduced by the development of intrinsically safe and permissible equipment, improved ventilation practices, introduction of permissible explosives, better methods to control methane emissions and dust, the enforcement of comprehensive mining laws, and a host of other advancements. However, the methane problem has not been eliminated.

Modern mining is now highly mechanized; the extraction process is based on powerful machines that require large amounts of energy. These machines apply tremendous forces to the coal bed in the mining process, and expose coal rapidly. This encourages methane liberation

and produces large quantities of coal dust. In addition, these machines often operate in deep, gassy seams that are hard to ventilate.

The methane control, methane drainage, and ventilation research efforts of the USBM have addressed these problems. The results of this research provide the mining industry with the needed tools to assess potential methane problems prior to and during mining. This also makes it possible to develop better ventilation plans, increase the efficiency of mine ventilation, and control face emissions of methane and generation of dust.

EXPLOSIONS

One of the first research objectives of the USBM was to find methods to reduce the number of mine explosions; ever since, USBM expertise and research in this area has earned international recognition. Several techniques to supplement the dust explosion protection afforded by rock dusting have been identified. This research focused on methods to inhibit ignitions at the face using water sprays or triggered quenching, better cutting bit designs to reduce frictional ignitions, suppression of explosion fronts via triggered or passive barriers, determining the explosive properties of coal dusts and dust/gas mixtures, special ventilation devices such as seals and flow restrictors, and developing instruments to measure and assess explosive conditions.

EXPLOSIVES

Although both the surface and underground coal mining industries are highly mechanized, both use considerable

amounts of explosives. The surface industry uses them mostly for removing overburden. The underground industry uses them generally in conventional mining where coal is blasted, rather than cut, from a face. Explosives are also used underground in special situations (such as cleaning up roof falls) to break up large pieces of strata for removal. Explosives have been responsible for numerous fatalities and injuries due to their nature and characteristics, and also to their improper use.

To address these problems, the USBM has conducted research into areas such as determining the sensitivity of explosives to external stimuli, determining the proper delay times and borehole spacings for reliable detonation, classifying new types of explosives, understanding the propagation characteristics of blast fronts, designing sheathed charges, determining the byproducts of detonation, and improving blasting practices.

LIFE SUPPORT

After a mine explosion, the atmosphere inside the mine may become oxygen-deficient or filled with smoke and toxic gases. Such atmospheres often cause more fatalities than the explosive event itself. In order to escape from the mine, respiratory protection is often necessary. Filter self-rescuers have long been required to be worn by each miner in the underground environment, but they only

provide protection against low levels of carbon monoxide. They provide no protection from other toxic gases or low oxygen levels. If escape is impossible, then rescue is necessary, and rescue teams are subjected to the same dangerous atmospheres.

To address this problem, the USBM has conducted considerable research in the areas of physiological factors associated with escape and rescue, self-contained self-rescuers, closed-circuit breathing apparatus, and improved oxygen sources.

MINE RESCUE

In a mine disaster, miners may be trapped underground, unable to escape because of blocked escape routes or injuries. In such situations, survival depends on timely rescue, especially if toxic gases are present. Timely rescue, in turn, relies on the information available to the rescue teams for determining where the trapped miners are located, their condition, and the most efficient means of reaching them.

The USBM has conducted considerable research in this area. Seismic and electromagnetic through-the-earth systems were developed that made it possible to locate and communicate with trapped miners from the surface. Borehole probes, hoist phones, and medium frequency systems were developed to assist in postdisaster communications.

SUMMARY

In the period from January 1, 1981, to December 31, 1994, there were 1,352 reported ignitions and explosions in U.S. coal mines. On average, this exceeds the number reported in the corresponding preceding years. Some of this increase may be due to better reporting, but much may be due to changes that occurred in the U.S. coal mining industry over the last few decades. During this time, coal production increased considerably, while the number of mines and the size of the workforce decreased. The resulting increase in productivity was achieved by the rigorous use of larger and more powerful mining machines operating at high capacity, for long periods of time. Such mining generates large amounts of coal dust, methane, and frictional ignition opportunities. In addition, much of the mining occurred in deep, gassy coalbeds that were hard to ventilate. The data show high trends in ignitions and explosions caused by these machines.

Every ignition, explosion, and disaster is the result of some failure to maintain the working environment in a

safe condition. Usually these failures fall into categories of omission such as the failure to maintain equipment, make proper methane checks, properly apply rockdust, etc. However, a different and disturbing element also exists; that of underground smoking. Apparently it is widespread, even though it is strictly prohibited. During the MSHA investigations of the last six explosion disasters, smoking materials were found in five cases, and smoking was thought to have caused the disaster in two. As a result of these findings, MSHA has intensified efforts to educate and warn miners and mine operators of this danger.

The USBM continues to address the issue of coal mine ignitions and explosions through research on methane control, explosions, explosives, life support, and mine rescue. Significant achievements have been attained that have resulted in increased mine safety over the last 80 years. However, because of the nature of mining, the hazards still persist. Continued research remains a high priority.

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APPENDIX A.—UNDERGROUND COAL MINE IGNITIONS OR EXPLOSIONS OF GAS OR DUST

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
01/06/81	05-02342	MID-CONTINENT RESOURCES INC	COAL BASIN MINE	9	CO	0	0	CONT. MINER
01/06/81	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
01/07/81	36-04852	KEYSTONE COAL MINING CORPORATION	URLING NO. 1 MINE	2	PA	0	0	ROOF BOLTER
01/08/81	36-04852	KEYSTONE COAL MINING CORPORATION	URLING NO. 1 MINE	2	PA	0	0	TORCH
01/08/81	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
01/09/81	36-04852	KEYSTONE COAL MINING CORPORATION	URLING NO. 1 MINE	2	PA	0	0	TORCH
01/09/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/14/81	46-01431	CONSOLIDATION COAL COMPANY	CONSOL NO. 20 MINE	3	WV	0	0	CONT. MINER
01/16/81	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
01/20/81	46-00581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
01/20/81	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	1	CONT. MINER
01/22/81	11-00877	AMAX COAL COMPANY	WABASH MINE	8	IL	0	0	ROOF BOLTER
01/27/81	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	LONGWALL
02/05/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/16/81	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
02/18/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/20/81	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
02/24/81	46-01816	UNITED STATES STEEL CORPORATION	NO. 50 MINE	4	WV	0	0	TORCH
02/25/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/04/81	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
03/06/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/07/81	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
03/13/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/17/81	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
03/18/81	01-00515	ALABAMA BY-PRODUCTS CORPORATION	MARY LEE NO. 1 MINE	7	AL	0	0	EXPLOSIVES
03/20/81	36-05658	KEYSTONE COAL MINING CORPORATION	URLING NO. 3 MINE	2	PA	0	0	CONT. MINER
03/24/81	44-01642	CLINCHFIELD COAL COMPANY	MOSS NO. 3 MINE	5	VA	0	0	CONT. MINER
03/25/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
03/25/81	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	ROOF BOLTER
03/26/81	46-01432	CONSOLIDATION COAL COMPANY	NO. 93 MINE	3	WV	0	3	TORCH
04/10/81	05-00469	MID-CONTINENT RESOURCES INC	DUTCH CREEK NO. 2 MINE	9	CO	0	0	ELECTRICAL
04/15/81	05-00301	MID-CONTINENT RESOURCES INC	DUTCH CREEK NO. 1 MINE	9	CO	15	3	ELECTRICAL
06/01/81	48-00948	ENERGY DEVELOPMENT COMPANY	VANGUARD NO. 2 MINE	9	WY	0	0	WELDING
06/01/81	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
06/03/81	36-05827	HONEY COAL COMPANY	HONEY SLOPE	1	PA	0	3	ELECTRICAL
07/15/81	36-00856	RUSHTON MINING COMPANY	RUSHTON MINE	2	PA	0	0	CONT. MINER
07/17/81	44-00241	CLINCHFIELD COAL COMPANY	LAMBERT FORK MINE	5	VA	0	0	CONT. MINER
07/31/81	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
07/31/81	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
08/04/81	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
08/17/81	42-00165	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 3 MINE	9	UT	0	0	CONT. MINER
08/19/81	42-00165	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 3 MINE	9	UT	0	0	CONT. MINER
08/20/81	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
08/28/81	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/28/81	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
08/28/81	46-02166	RANGER FUEL CORPORATION	BECKLEY NO. 1 MINE	4	WV	0	0	CONT. MINER
08/31/81	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	CONT. MINER
09/02/81	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
09/04/81	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
09/12/81	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	TROLLEY
09/22/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
10/01/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
10/02/81	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
10/02/81	29-00095	KAISER STEEL CORPORATION	YORK CANYON NO. 1 MINE	9	NM	0	0	TORCH
10/05/81	46-02166	RANGER FUEL CORPORATION	BECKLEY NO. 1 MINE	4	WV	0	0	CONT. MINER
10/08/81	44-02134	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 4 MINE	5	VA	0	0	CONT. MINER
10/16/81	46-02154	BISHOP COAL COMPANY	NO. 36 MINE	4	WV	0	0	CONT. MINER
10/20/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
10/21/81	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/28/81	44-00241	CLINCHFIELD COAL COMPANY	LAMBERT FORK MINE	5	VA	0	0	CONT. MINER
10/30/81	46-04388	BECKLEY LICK RUN COMPANY	BONNY MINE	4	WV	0	0	ROOF BOLTER
11/04/81	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	ELECTRICAL
11/05/81	44-04251	CLINCHFIELD COAL COMPANY	MCCURE NO. 1 MINE	5	VA	0	0	CONT. MINER
11/06/81	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
11/10/81	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
11/17/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/25/81	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
11/30/81	15-12597	ENSOL COAL COMPANY INC	NO. 2 MINE	6	KY	0	3	EXPLOSIVES
12/07/81	15-02290	ADKINS COAL COMPANY	NO. 11 MINE	7	KY	8	0	EXPLOSIVES
12/08/81	40-00524	GRUNDY MINING COMPANY INC	NO. 21 MINE	5	TN	13	0	CIG. LIGHTER
12/14/81	46-04388	BECKLEY LICK RUN COMPANY	BONNY MINE	4	WV	0	0	CONT. MINER
12/21/81	33-01157	QUARTO MINING COMPANY	POWHATAN NO. 4 MINE	8	OH	0	0	TROLLEY
12/30/81	18-00652	METTIKI COAL CORPORATION	GOBBLERS KNOB MINE	3	MD	0	0	CONT. MINER
01/04/82	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	EXPLOSIVES
01/04/82	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
01/14/82	42-00092	KAISER STEEL CORPORATION	SUNNYSIDE NO. 3 MINE	9	UT	0	0	LONGWALL
01/20/82	15-12624	RFH COAL COMPANY	NO. 1 MINE	6	KY	7	0	EXPLOSIVES
02/08/82	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	EXPLOSIVES
02/10/82	36-01836	T C COAL COMPANY	TRACY SLOPE	1	PA	0	3	EXPLOSIVES
02/11/82	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
02/12/82	36-00906	GATEWAY COAL COMPANY	GATEWAY MINE	2	PA	0	0	CONT. MINER
02/17/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
02/17/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
02/24/82	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	CONT. MINER
03/03/82	46-01397	JONES AND LAUGHLIN STEEL CORPORATION	DEHUE MINE	4	WV	0	0	CONT. MINER
03/05/82	46-02154	BISHOP COAL COMPANY	NO. 36 MINE	4	WV	0	0	CONT. MINER
03/05/82	29-00095	KAISER STEEL CORPORATION	YORK CANYON NO. 1 MINE	9	NM	0	0	TORCH
03/08/82	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	CONT. MINER
03/08/82	46-02166	RANGER FUEL CORPORATION	BECKLEY NO. 1 MINE	4	WV	0	0	CONT. MINER
03/08/82	29-00095	KAISER STEEL CORPORATION	YORK CANYON NO. 1 MINE	9	NM	0	0	TORCH
03/11/82	44-05547	MABO COAL COMPANY INC	NO. 3 MINE	5	VA	0	0	CONT. MINER
03/17/82	36-00970	UNITED STATES STEEL MINING COMPANY INC	MAPLE CREEK NO. 1 MINE	2	PA	0	0	CONT. MINER
03/17/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
03/18/82	46-01673	TRI J COAL COMPANY INC	NO. 2 MINE	4	WV	0	6	CONT. MINER
03/24/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
04/05/82	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
04/09/82	46-04388	BECKLEY LICK RUN COMPANY	BONNY MINE	4	WV	0	0	CONT. MINER
04/10/82	29-00095	KAISER STEEL CORPORATION	YORK CANYON NO. 1 MINE	9	NM	0	0	WELDING
04/15/82	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
04/19/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
04/21/82	01-00515	ALABAMA BY-PRODUCTS CORPORATION	MARY LEE NO. 1 MINE	7	AL	0	0	EXPLOSIVES
04/24/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/27/82	36-05658	KEYSTONE COAL MINING CORPORATION	URLING NO. 3 MINE	2	PA	0	0	ROOF BOLTER
05/03/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
05/04/82	36-00917	HELVETIA COAL COMPANY	LUCERNE NO. 6 MINE	2	PA	0	0	CONT. MINER
05/04/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
05/04/82	44-05167	FOUNTAIN BAY MINING COMPANY LTD.	NO. 1 MINE	5	VA	0	0	CONT. MINER
05/07/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
05/07/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
05/10/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
05/11/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
05/11/82	42-00121	EMERY MINING CORPORATION	DEER CREEK MINE	9	UT	0	0	CONT. MINER
05/20/82	44-03264	DOMINION COAL CORPORATION	YOUNGS BRANCH NO. 15 MINE	5	VA	0	0	CONT. MINER
05/24/82	42-01211	NATOMAS TRAIL MOUNTAIN COAL COMPANY	NATOMAS TRAIL MOUNTAIN COAL COMPANY	9	UT	0	0	CONT. MINER
05/26/82	44-03264	DOMINION COAL CORPORATION	YOUNGS BRANCH NO. 15 MINE	5	VA	0	0	CONT. MINER
05/28/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	1	CONT. MINER
06/05/82	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	1	TROLLEY
06/10/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
06/11/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
06/14/82	46-02166	RANGER FUEL CORPORATION	BECKLEY NO. 1 MINE	4	WV	0	0	CONT. MINER
06/15/82	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	ROOF BOLTER
06/16/82	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
06/17/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
06/23/82	46-04388	BECKLEY LICK RUN COMPANY	BONNY MINE	4	WV	0	0	CONT. MINER
06/25/82	05-02658	SNOWMASS COAL COMPANY	THOMPSON CREEK NO. 1 MINE	9	CO	0	0	TORCH
07/12/82	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
07/22/82	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
07/27/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/03/82	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	ELECTRICAL
08/03/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	WELDING
08/04/82	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
08/10/82	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/10/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/12/82	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
08/13/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/13/82	42-00092	KAISER STEEL CORPORATION	SUNNYSIDE NO. 3 MINE	9	UT	0	0	WELDING
08/16/82	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	CONT. MINER
08/18/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/25/82	44-03264	DOMINION COAL CORPORATION	YOUNGS BRANCH NO. 15 MINE	5	VA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
08/27/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/30/82	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
09/02/82	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ELECTRICAL
09/15/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
09/22/82	46-03002	CENTRAL APPALACHIAN COAL COMPANY	COALBURG NO. 2 MINE	4	WV	0	2	CONT. MINER
09/23/82	44-01689	WESTMORELAND COAL COMPANY	PRESCOTT NO. 2 MINE	5	VA	0	0	CONT. MINER
10/05/82	01-00759	NORTH RIVER ENERGY COMPANY	NORTH RIVER NO. 1 MINE	7	AL	0	0	CONT. MINER
10/06/82	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
10/20/82	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	ROOF BOLTER
10/25/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
11/04/82	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
11/05/82	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	ELECTRICAL
12/02/82	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
12/06/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
12/16/82	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
12/17/82	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
01/03/83	42-01389	UNITED STATES FUEL COMPANY	KING NO. 5 MINE	9	UT	0	0	CONT. MINER
01/20/83	44-01644	CLINCHFIELD COAL COMPANY	MOSS NO. 4 MINE	5	VA	0	0	CONT. MINER
01/20/83	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
02/04/83	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	ROOF BOLTER
02/08/83	36-03425	UNITED STATES STEEL MINING COMPANY INC	MAPLE CREEK NO. 2 MINE	2	PA	0	0	CONT. MINER
02/13/83	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
02/14/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
03/07/83	44-00269	CLINCHFIELD COAL COMPANY	SPLASHDAM DEEP MINE	5	VA	0	0	WELDING
03/08/83	44-04251	CLINCHFIELD COAL COMPANY	McCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
03/17/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
03/24/83	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
03/28/83	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
04/12/83	42-00121	EMERY MINING CORPORATION	DEER CREEK MINE	9	UT	0	0	LONGWALL
04/14/83	42-00080	EMERY MINING CORPORATION	WILBERG MINE	9	UT	0	0	LONGWALL
04/15/83	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
04/16/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
05/09/83	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/10/83	46-01452	CONSOLIDATION COAL COMPANY	ARKWRIGHT NO. 1 MINE	3	WV	0	3	EXPLOSIVES
05/16/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
05/17/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
06/03/83	01-00759	NORTH RIVER ENERGY COMPANY	NORTH RIVER NO. 1 MINE	7	AL	0	0	WELDING
06/06/83	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
06/08/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
06/13/83	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
06/14/83	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
06/17/83	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
06/20/83	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
06/21/83	44-04251	CLINCHFIELD COAL COMPANY	McCLURE NO. 1 MINE	5	VA	7	3	ELECTRICAL
06/23/83	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
06/29/83	36-00907	SHANNOPIN MINING COMPANY	SHANNOPIN MINE	2	PA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
07/03/83	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	1	0	ELECTRICAL
07/11/83	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
07/21/83	44-01644	CLINCHFIELD COAL COMPANY	MOSS NO. 4 MINE	5	VA	0	0	CONT. MINER
07/26/83	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
07/26/83	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
08/02/83	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
08/03/83	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
08/05/83	36-02404	GREENWICH COLLIERIES	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
08/08/83	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
08/08/83	36-02404	GREENWICH COLLIERIES	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
08/09/83	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
08/17/83	44-01644	CLINCHFIELD COAL COMPANY	MOSS NO. 4 MINE	5	VA	0	0	CONT. MINER
08/26/83	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/31/83	36-02404	GREENWICH COLLIERIES	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
09/06/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
09/09/83	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
09/15/83	15-02156	ISLAND CREEK COAL COMPANY	PROVIDENCE NO. 1 MINE	10	KY	0	1	ROOF BOLTER
09/22/83	44-00302	WESTMORELAND COAL COMPANY	WENTZ NO. 1 MINE	5	VA	0	0	CONT. MINER
09/26/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
10/07/83	36-00906	GATEWAY COAL COMPANY	GATEWAY MINE	2	PA	0	0	CONT. MINER
10/10/83	36-03425	UNITED STATES STEEL MINING COMPANY INC	MAPLE CREEK NO. 2 MINE	2	PA	0	0	CONT. MINER
10/14/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	1	TORCH
10/18/83	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
10/26/83	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
11/05/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ELECTRICAL
11/07/83	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
11/17/83	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/30/83	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
12/01/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
12/02/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
12/02/83	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
12/06/83	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/06/83	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
12/08/83	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
12/12/83	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/14/83	46-01576	ITMANN COAL COMPANY	ITMANN NO. 3 MINE	4	WV	0	0	LONGWALL
12/16/83	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
12/16/83	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
12/29/83	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/04/84	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
01/12/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ELECTRICAL
01/12/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	ROOF BOLTER
01/27/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/01/84	46-01514	WESTMORELAND COAL COMPANY	ECCLES NO. 6 MINE	4	WV	0	0	ELECTRICAL
02/02/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/06/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/08/84	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TROLLEY

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
02/16/84	36-02405	GREENWICH COLLIERIES	NO. 1 MINE	2	PA	3	4	ELECTRICAL
02/22/84	46-01329	UNITED STATES STEEL MINING COMPANY INC	MORTON MINE	4	WV	0	0	LONGWALL
02/24/84	40-00520	CONSOLIDATION COAL COMPANY	MATTHEWS MINE	7	KY	0	0	CONT. MINER
03/07/84	15-09636	BLUE DIAMOND MINING INC	ROYAL DIAMOND MINE	7	KY	0	0	CONT. MINER
03/07/84	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
03/08/84	15-09636	BLUE DIAMOND MINING INC	ROYAL DIAMOND MINE	7	KY	0	0	CONT. MINER
03/15/84	05-00294	UNITED STATES STEEL MINING COMPANY INC	SOMERSET COAL MINE	9	CO	0	0	ROOF BOLTER
03/15/84	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	TORCH
03/17/84	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	TORCH
03/19/84	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
03/23/84	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	LONGWALL
04/03/84	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
04/09/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
04/11/84	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
04/11/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
04/20/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
04/24/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/24/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	WELDING
04/25/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/07/84	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	LONGWALL
05/10/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/17/84	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
05/17/84	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	LONGWALL
06/01/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/11/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/13/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
06/15/84	40-00520	CONSOLIDATION COAL COMPANY	MATTHEWS MINE	7	KY	0	0	CONT. MINER
06/19/84	36-00958	BETHLEHEM MINES CORPORATION	MINE NO. 60 LIVINGSTON PORTAL	2	PA	0	0	ROOF BOLTER
07/06/84	05-00301	MID-CONTINENT RESOURCES INC	DUTCH CREEK NO. 1 MINE	9	CO	0	0	TORCH
07/13/84	15-02132	WEBSTER COUNTY COAL CORPORATION	DOTIKI MINE	10	KY	0	1	OTHER (NF)
07/17/84	05-00300	MID-CONTINENT RESOURCES INC	L. S. WOOD MINE	9	CO	0	4	CONT. MINER
07/17/84	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
07/17/84	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
07/26/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
07/27/84	15-13920	PYRO MINING COMPANY	PYRO NO. 9 WHEATCROFT	10	KY	0	2	CONT. MINER
07/27/84	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	LONGWALL
07/28/84	36-04281	CONSOLIDATION COAL COMPANY	DILWORTH MINE	2	PA	0	0	CONT. MINER
07/30/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/10/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/14/84	36-04853	KEYSTONE COAL MINING CORPORATION	URLING NO. 2 MINE	2	PA	0	0	CONT. MINER
08/16/84	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/17/84	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
08/21/84	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/24/84	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
08/28/84	36-00967	BCNR MINING CORPORATION	CLYDE MINE	2	PA	0	0	CONT. MINER
08/31/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/04/84	42-01202	PRICE RIVER COAL COMPANY INC	PRICE RIVER NO. 5 MINE	9	UT	0	0	LONGWALL
09/08/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/14/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/17/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	ELECTRICAL
09/19/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/19/84	44-00269	CLINCHFIELD COAL COMPANY	SPLASHDAM DEEP MINE	5	VA	0	0	TORCH
09/20/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
09/20/84	36-00840	BETHLEHEM MINES CORPORATION	CAMBRIA SLOPE MINE 33	2	PA	0	0	LONGWALL
09/21/84	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
09/27/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
09/29/84	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
10/03/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/03/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/09/84	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
10/19/84	36-07416	CONSOL PENNSYLVANIA COAL COMPANY	BAILEY NO. 2 MINE	2	PA	0	0	WELDING
10/19/84	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
10/30/84	36-00840	BETHLEHEM MINES CORPORATION	CAMBRIA SLOPE MINE 33	2	PA	0	0	TORCH
11/20/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
12/03/84	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
12/04/84	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
12/13/84	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/21/84	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/03/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
01/23/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/24/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/24/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/25/85	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	CONT. MINER
01/26/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
02/02/85	36-02405	GREENWICH COLLIERIES	GREENWICH COLLIERIES NO. 1 MINE	2	PA	0	0	TORCH
02/20/85	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	LONGWALL
02/28/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
03/03/85	44-00238	BEATRICE POCAHONTAS COMPANY	BEATRICE MINE	5	VA	0	0	TORCH
03/04/85	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	0	CONT. MINER
03/07/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
03/08/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/11/85	15-13920	PYRO MINING COMPANY	NO. 9 WHEATCROFT	10	KY	0	2	EXPLOSIVES
03/13/85	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER NO. 9 MINE	10	KY	0	0	CUT. MACHINE
03/15/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
03/19/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
03/23/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
03/26/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	ELECTRICAL
04/06/85	33-01157	QUARTO MINING COMPANY	POWHATAN NO. 4 MINE	8	OH	0	7	LONGWALL
04/11/85	36-00958	BETHENERGY MINES INC	LIVINGSTON PORTAL 84 COMPLEX	2	PA	0	0	CONT. MINER
04/12/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/12/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
04/17/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
04/19/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/22/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/24/85	36-02404	GREENWICH COLLIERIES	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
04/24/85	36-06967	BARNES AND TUCKER COMPANY	TANOMA MINE	2	PA	0	0	CONT. MINER
04/25/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/29/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/01/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/01/85	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
05/01/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/02/85	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	1	CONT. MINER
05/03/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/03/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
05/04/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	WELDING
05/08/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/10/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/11/85	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
05/13/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/14/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/14/85	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
05/18/85	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
05/19/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
05/31/85	36-02404	GREENWICH COLLIERIES	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
06/14/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
06/21/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
06/23/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
06/27/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
07/09/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
07/16/85	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	TORCH
07/18/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
08/05/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
08/07/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/09/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
08/09/85	01-01322	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/13/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/13/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
08/14/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/16/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/16/85	36-05466	EMERALD MINES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
08/22/85	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	1	OTHER (NF)
08/27/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ROOF BOLTER
08/28/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
08/30/85	44-00238	BEATRICE POCAHONTAS COMPANY	BEATRICE MINE	5	VA	0	0	CONT. MINER
09/19/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
09/21/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
09/23/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/24/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/26/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
09/26/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	WELDING
09/28/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
10/01/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
10/03/85	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
10/03/85	36-07230	CONSOL PENNSYLVANIA COAL COMPANY	BAILEY MINE	2	PA	0	0	CONT. MINER
10/08/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/08/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
10/10/85	15-02705	PEABODY COAL COMPANY	CAMP NO. 2	10	KY	0	2	ELECTRICAL
10/11/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/14/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/14/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	LONGWALL
10/14/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/15/85	33-00968	THE YOUGHIOGHENY & OHIO COAL MINING CO	NELMS NO. 2 MINE	8	OH	0	0	TORCH
10/19/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
10/24/85	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
10/29/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/29/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
11/05/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
11/07/85	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
11/12/85	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
11/12/85	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
11/14/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	EXPLOSIVES
12/04/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	LONGWALL
12/06/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
12/07/85	36-00840	BETHENERGY MINES INC	CAMBRIA SLOPE MINE 33	2	PA	0	0	CONT. MINER
12/11/85	36-06279	MSW COAL COMPANY	NO. 2 SLOPE MINE	1	PA	3	1	EXPLOSIVES
12/12/85	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	LONGWALL
12/12/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/18/85	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	1	CONT. MINER
12/19/85	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/08/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
01/08/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/13/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
01/13/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
01/14/86	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
01/15/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/20/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/20/86	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	LONGWALL
01/21/86	46-01535	EASTERN ASSOCIATED COAL CORPORATION	KEYSTONE NO. 2 MINE	4	WV	0	0	LONGWALL
01/24/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
02/05/86	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	LONGWALL
02/12/86	42-01393	EMERY MINING CORPORATION	LITTLE DOVE MINE	9	UT	0	0	CONT. MINER
02/12/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
02/14/86	42-01393	EMERY MINING CORPORATION	LITTLE DOVE MINE	9	UT	0	0	CONT. MINER
02/14/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
02/14/86	36-04852	KEYSTONE COAL MINING CORPORATION	URLING NO. 1 MINE	2	PA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
02/18/86	46-04388	BECKLEY LICK RUN COMPANY	BONNY MINE	4	WV	0	0	ROOF BOLTER
02/20/86	36-07230	CONSOL PENNSYLVANIA COAL COMPANY	BAILEY MINE	2	PA	0	0	CONT. MINER
02/24/86	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	EXPLOSIVES
02/24/86	44-06227	BEAR RIDGE MINING INC	NO. 1 MINE	5	VA	0	1	CONT. MINER
02/26/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
03/01/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
03/05/86	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	ELECTRICAL
03/07/86	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
03/08/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
03/11/86	36-07416	CONSOL PENNSYLVANIA COAL COMPANY	BAILEY NO. 2 MINE	2	PA	0	0	TORCH
03/11/86	15-11612	BIG HILL COAL COMPANY	NO. 4 MINE	6	KY	0	4	CONT. MINER
03/11/86	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	EXPLOSIVES
03/13/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ELECTRICAL
03/17/86	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
03/17/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
03/24/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/25/86	36-07416	CONSOL PENNSYLVANIA COAL COMPANY	BAILEY NO. 2 MINE	2	PA	0	0	TORCH
03/25/86	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
03/27/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/07/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
04/08/86	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
04/11/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
04/17/86	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	ROOF BOLTER
04/18/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	1	CONT. MINER
04/18/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
04/21/86	46-04168	KITT ENERGY CORPORATION	KITT NO. 1 MINE	3	WV	0	0	TORCH
04/22/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	1	CONT. MINER
04/29/86	36-04281	CONSOLIDATION COAL COMPANY	DILWORTH MINE	2	PA	0	0	CONT. MINER
05/01/86	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
05/05/86	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
05/05/86	44-00238	BEATRICE POCAHONTAS COMPANY	BEATRICE MINE	5	VA	0	0	CONT. MINER
05/09/86	36-04281	CONSOLIDATION COAL COMPANY	DILWORTH MINE	2	PA	0	0	CONT. MINER
05/09/86	36-04281	CONSOLIDATION COAL COMPANY	DILWORTH MINE	2	PA	0	0	CONT. MINER
05/10/86	05-00301	MID-CONTINENT RESOURCES INC	DUTCH CREEK NO. 1 MINE	9	CO	0	0	CONT. MINER
05/15/86	36-04281	CONSOLIDATION COAL COMPANY	DILWORTH MINE	2	PA	0	0	CONT. MINER
05/22/86	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
05/29/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/05/86	46-01433	CONSOLIDATION COAL COMPANY	LOVERIDGE NO. 22 MINE	3	WV	0	0	TORCH
06/06/86	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
06/09/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/09/86	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
06/13/86	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
06/26/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
06/27/86	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	LONGWALL
06/27/86	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
07/01/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	WELDING
07/14/86	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
07/25/86	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
07/27/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
07/30/86	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
08/02/86	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
08/09/86	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	1	1	EXPLOSIVES
08/22/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
08/23/86	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	TORCH
08/25/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/26/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
09/02/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
09/03/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
09/05/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	OTHER (NF)
09/08/86	46-01433	CONSOLIDATION COAL COMPANY	LOVERIDGE NO. 22 MINE	3	WV	0	0	TROLLEY
09/12/86	33-02308	SOUTHERN OHIO COAL COMPANY	RACCOON NO. 3 MINE	3	OH	0	0	CONT. MINER
09/12/86	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER
09/19/86	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
09/24/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
09/26/86	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
09/26/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	LONGWALL
10/02/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
10/03/86	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6	5	VA	0	0	WELDING
10/04/86	46-01867	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 1 MINE	3	WV	0	0	CONT. MINER
10/07/86	15-10753	SIDNEY COAL COMPANY INC	ROADFORK NO. 1 MINE	6	KY	0	0	ROOF FALL
10/10/86	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	TORCH
10/15/86	46-05907	UNITED STATES STEEL MINING COMPANY INC	SHAWNEE MINE	4	WV	0	1	CONT. MINER
10/23/86	42-01202	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 5	9	UT	0	0	LONGWALL
10/23/86	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
10/25/86	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
10/30/86	46-01455	CONSOLIDATION COAL COMPANY	OSAGE NO. 3 MINE	3	WV	0	2	TORCH
10/31/86	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
11/03/86	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
11/04/86	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
11/12/86	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	CONT. MINER
12/02/86	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
12/02/86	36-00970	UNITED STATES STEEL MINING COMPANY INC	MAPLE CREEK MINE	2	PA	0	0	CONT. MINER
12/10/86	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
12/12/86	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	4	OTHER (F)
12/18/86	36-00958	BETHENERGY MINES INC	LIVINGSTON PORTAL 84 COMPLEX	2	PA	0	0	TORCH
12/29/86	42-01202	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 5 MINE	9	UT	0	0	LONGWALL
12/29/86	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
01/02/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
01/07/87	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
01/08/87	05-00469	MID-CONTINENT RESOURCES INC	DUTCH CREEK NO. 2 MINE	9	CO	1	0	CONT. MINER
01/12/87	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	1	CONT. MINER
01/14/87	46-04581	RANGER FUEL CORPORATION	BECKLEY NO. 2 MINE	4	WV	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
01/14/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
01/19/87	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
01/23/87	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
01/23/87	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
01/24/87	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
01/29/87	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
01/31/87	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
02/12/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
02/13/87	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	LONGWALL
02/26/87	44-05717	MISTY BEC COAL CORPORATION	MISTY BEC NO. 1 MINE	5	VA	0	2	CONT. MINER
03/03/87	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
03/04/87	44-01644	CLINCHFIELD COAL COMPANY	MOSS NO. 4 MINE	5	VA	0	0	LONGWALL
03/05/87	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	EXPLOSIVES
03/06/87	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
03/06/87	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	EXPLOSIVES
03/07/87	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
03/13/87	42-01202	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 5 MINE	9	UT	0	0	LONGWALL
03/16/87	36-00906	GATEWAY COAL COMPANY	GATEWAY MINE	2	PA	0	0	CONT. MINER
03/19/87	42-01202	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 5 MINE	9	UT	0	0	LONGWALL
03/20/87	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
03/25/87	36-00906	GATEWAY COAL COMPANY	GATEWAY MINE	2	PA	0	0	CONT. MINER
03/27/87	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
03/27/87	44-04856	GUNTHER-NASH MINING CONSTRUCTION CO	PRESLEY BRANCH VENTILATION SHAFT	5	VA	0	0	TORCH
04/07/87	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
04/08/87	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
04/14/87	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	TORCH
04/24/87	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
05/04/87	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
05/12/87	15-02363	BLUE DIAMOND MINING INC	JUSTUS MINE	7	KY	0	0	CONT. MINER
05/14/87	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	WELDING
05/18/87	42-00093	KAISER COAL CORPORATION OF SUNNYSIDE	SUNNYSIDE MINE NO. 1	9	UT	0	0	LONGWALL
05/21/87	42-00093	KAISER COAL CORPORATION OF SUNNYSIDE	SUNNYSIDE MINE NO. 1	9	UT	0	0	LONGWALL
05/26/87	42-00093	KAISER COAL CORPORATION OF SUNNYSIDE	SUNNYSIDE MINE NO. 1	9	UT	0	0	LONGWALL
05/28/87	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	LONGWALL
05/30/87	42-01202	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 5 MINE	9	UT	0	0	LONGWALL
06/16/87	46-03374	MAPLE MEADOW MINING COMPANY	MAPLE MEADOW MINE	4	WV	0	0	CONT. MINER
06/17/87	46-01867	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 1 MINE	3	WV	0	0	CONT. MINER
06/18/87	46-01867	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 1 MINE	3	WV	0	0	CONT. MINER
07/08/87	05-00469	MID-CONTINENT RESOURCES INC	DUTCH CREEK NO. 2 MINE	9	CO	0	0	CONT. MINER
07/27/87	15-07082	SIDNEY COAL COMPANY INC	NO. 1 MINE	6	KY	0	0	ROOF FALL
08/07/87	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
08/13/87	46-01867	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 1 MINE	3	WV	0	0	CONT. MINER
08/18/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
08/19/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
08/31/87	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	CONT. MINER
09/01/87	36-00970	UNITED STATES STEEL MINING	MAPLE CREEK MINE	2	PA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
		COMPANY INC						
09/09/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
09/10/87	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	CONT. MINER
09/16/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
09/16/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
09/18/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
09/21/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
09/21/87	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	CONT. MINER
09/21/87	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	3	WELDING
09/24/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
10/06/87	46-01867	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 1 MINE	3	WV	0	0	CONT. MINER
10/12/87	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
10/13/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
10/14/87	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
10/16/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	CONT. MINER
10/19/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
10/19/87	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/22/87	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	LONGWALL
10/23/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
10/23/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
10/23/87	01-00328	JIM WALTER RESOURCES INC	BESSIE MINE	7	AL	0	0	CUT. MACHINE
10/27/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE PORTAL NO. 3	9	UT	0	0	LONGWALL
10/27/87	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/29/87	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	TORCH
10/29/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
10/29/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
11/02/87	42-01211	BEAVER CREEK COAL COMPANY	TRAIL MOUNTAIN NO. 9 MINE	9	UT	0	0	CONT. MINER
11/04/87	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
11/05/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
11/09/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
11/12/87	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
11/12/87	36-05466	EMERALD MINES COMPANY	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
11/18/87	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
11/24/87	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
11/25/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
12/01/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
12/03/87	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
12/04/87	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
12/14/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
12/22/87	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
12/26/87	44-05186	DOUBLE R COAL COMPANY INC	NO. 1 MINE	5	VA	1	0	ELECTRICAL
12/29/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
12/30/87	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
01/02/88	46-04388	HANSFORD SMOKELESS COLLIERIES INC	NO. 4 MINE	4	WV	0	0	CONT. MINER
01/02/88	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
01/05/88	46-04388	HANSFORD SMOKELESS COLLIERIES INC	NO. 4 MINE	4	WV	0	0	CONT. MINER
01/09/88	46-04388	HANSFORD SMOKELESS COLLIERIES	NO. 4 MINE	4	WV	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
		INC						
01/12/88	46-05907	UNITED STATES STEEL MINING COMPANY INC	SHAWNEE MINE	4	WV	0	0	CONT. MINER
01/26/88	36-02404	THE ROCHESTER AND PITTSBURGH COAL CO	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
01/30/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
01/30/88	05-02820	WYOMING FUEL COMPANY	GOLDEN EAGLE MINE	9	CO	0	0	ROOF BOLTER
02/02/88	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
02/12/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
02/17/88	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	WELDING
02/18/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
02/19/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
02/20/88	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	WELDING
03/20/88	42-00171	CYPRUS - PLATEAU MINING CORPORATION	STAR POINT NO. 2 MINE	9	UT	0	0	LONGWALL
03/23/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
03/26/88	42-00171	CYPRUS - PLATEAU MINING CORPORATION	STAR POINT NO. 2 MINE	9	UT	0	0	LONGWALL
03/29/88	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	ROOF BOLTER
04/11/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/19/88	36-02404	THE ROCHESTER AND PITTSBURGH COAL CO	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
04/22/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
04/25/88	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	CONT. MINER
04/25/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/27/88	15-07139	GOLDEN OAK MINING COMPANY INC	BLACK OAK NO. 2 DEEP MINE	7	KY	0	0	OTHER (NF)
04/29/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/05/88	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	LONGWALL
05/07/88	42-00171	CYPRUS - PLATEAU MINING CORPORATION	STAR POINT NO. 2 MINE	9	UT	0	0	CONT. MINER
05/13/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
05/17/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/18/88	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	LONGWALL
05/24/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/24/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/31/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/31/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/02/88	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/03/88	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/08/88	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TROLLEY
06/08/88	36-00906	GATEWAY COAL COMPANY	GATEWAY MINE	2	PA	0	0	LONGWALL
06/10/88	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TROLLEY
06/16/88	36-00906	GATEWAY COAL COMPANY	GATEWAY MINE	2	PA	0	0	LONGWALL
06/23/88	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	1	OTHER (NF)
06/25/88	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
07/14/88	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
07/15/88	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
07/16/88	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	WELDING
07/18/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQT
07/19/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	OTHER (NF)
07/26/88	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
07/27/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
08/02/88	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
08/08/88	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	LONGWALL
08/08/88	44-01520	ISLAND CREEK COAL COMPANY	VP-3 MINE	5	VA	0	0	LONGWALL
08/12/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
08/22/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
08/23/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
08/26/88	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	LONGWALL
08/30/88	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
09/01/88	46-05907	UNITED STATES STEEL MINING COMPANY INC	SHAWNEE MINE	4	WV	0	0	CONT. MINER
09/10/88	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
09/10/88	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ELECTRICAL
09/14/88	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
09/19/88	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
09/22/88	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	2	EXPLOSIVES
10/02/88	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	TORCH
10/04/88	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
10/11/88	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
10/14/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
10/24/88	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	ELECTRICAL
10/26/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/26/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/27/88	44-02239	DOMINION COAL CORPORATION	DOMINION NO. 2 MINE	5	VA	0	0	CONT. MINER
11/01/88	36-02404	THE ROCHESTER AND PITTSBURGH COAL CO	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
11/16/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
11/16/88	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
12/01/88	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
12/05/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
12/06/88	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
12/10/88	05-00301	MID-CONTINENT RESOURCES INC	DUTCH CREEK MINE	9	CO	0	0	LONGWALL
12/14/88	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	OTHER (NF)
12/14/88	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
12/16/88	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
12/18/88	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	WELDING
12/29/88	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
01/09/89	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	TORCH
01/09/89	42-00171	CYPRUS-PLATEAU MINING CORPORATION	STAR POINT NO. 2 MINE	9	UT	0	0	CONT. MINER
01/13/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
01/14/89	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
01/18/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
01/19/89	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
01/23/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
01/27/89	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
01/28/89	46-04388	HANSFORD SMOKELESS COLLIERIES INC	NO. 4 MINE	4	WV	0	0	CONT. MINER
01/30/89	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	EXPLOSIVES
02/02/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
02/03/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	LONGWALL
02/08/89	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
02/09/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
02/10/89	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
02/17/89	42-00171	CYPRUS-PLATEAU MINING CORPORATION	STAR POINT NO. 2 MINE	9	UT	0	0	CONT. MINER
02/18/89	46-01968	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 2 MINE	3	WV	0	0	TORCH
02/21/89	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
02/21/89	42-00171	CYPRUS - PLATEAU MINING CORPORATION	STAR POINT NO. 2 MINE	9	UT	0	0	CONT. MINER
02/24/89	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
02/24/89	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
02/25/89	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
02/28/89	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
03/01/89	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
03/06/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/07/89	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
03/09/89	42-00165	CASTLE GATE COAL COMPANY	CASTLE GATE MINE	9	UT	0	0	CONT. MINER
03/14/89	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
03/16/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/17/89	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	ELECTRICAL
03/20/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/22/89	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
03/22/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/22/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/23/89	46-04388	HANSFORD SMOKELESS COLLIERIES INC	NO. 4 MINE	4	WV	0	1	CONT. MINER
03/30/89	36-05466	CYPRUS EMERALD RESOURCES CORP	EMERALD MINE NO. 1	2	PA	0	0	LONGWALL
04/12/89	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
04/13/89	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
04/19/89	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	EXPLOSIVES
04/19/89	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	LONGWALL
04/19/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/20/89	15-02055	BLUE DIAMOND COAL COMPANY	SCOTIA MINE	6	KY	0	0	LONGWALL
04/22/89	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	LONGWALL
04/25/89	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
04/25/89	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	LONGWALL

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
05/04/89	15-02363	BLUE DIAMOND MINING INC	JUSTUS MINE	7	KY	0	2	CIG. LIGHTER
05/18/89	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ELECTRICAL
05/19/89	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
05/20/89	36-00840	BETHENERGY MINES INC	CAMBRIA SLOPE MINE NO. 33	2	PA	0	0	WELDING
05/22/89	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
05/22/89	36-02404	THE ROCHESTER & PITTSBURGH COAL CO	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
05/26/89	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
06/04/89	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	ELECTRICAL
06/06/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/07/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/15/89	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/17/89	15-02055	BLUE DIAMOND COAL COMPANY	SCOTIA MINE	6	KY	0	0	CONT. MINER
06/17/89	15-02115	FEDERAL MINING COMPANY INC	NO. 1 MINE	6	KY	0	0	CONT. MINER
07/28/89	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
08/05/89	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
08/11/89	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
08/11/89	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
08/22/89	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	TORCH
08/25/89	01-00759	THE PITTSBURGH & MIDWAY COAL MINING CO	NORTH RIVER NO. 1 MINE UNDERGROUND	7	AL	0	0	WELDING
09/03/89	44-00246	ISLAND CREEK COAL COMPANY	VP-1 MINE	5	VA	0	0	TORCH
09/06/89	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	TORCH
09/13/89	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	10	0	TORCH
09/20/89	01-00851	UNITED STATES STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	CONT. MINER
09/28/89	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
09/30/89	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
10/02/89	36-00856	RUSHTON MINING COMPANY	RUSHTON MINE	2	PA	0	0	CONT. MINER
10/03/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/03/89	44-04856	DELTA SHAFT CONSTRUCTION COMPANY	WHETSTONE BRANCH VENTILATION SHAFT	5	VA	0	0	WELDING
10/16/89	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
10/18/89	05-00301	MID-CONTINENT RESOURCES INC	DUTCH CREEK MINE	9	CO	0	0	WELDING
10/19/89	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
10/20/89	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	TROLLEY
10/25/89	36-00917	HELVETIA COAL COMPANY	LUCERNE NO. 6 MINE	2	PA	0	0	CONT. MINER
10/25/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
10/26/89	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	LONGWALL
10/26/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
10/30/89	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
10/31/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
11/10/89	44-00246	ISLAND CREEK COAL COMPANY	VP-1 MINE	5	VA	0	0	CONT. MINER
11/11/89	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	TORCH
11/29/89	36-00840	BETHENERGY MINES INC	CAMBRIA SLOPE MINE NO. 33	2	PA	0	0	TORCH
11/29/89	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	CONT. MINER
11/30/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	ROOF BOLTER
11/30/89	36-02404	THE ROCHESTER AND PITTSBURGH	GREENWICH COLLIERIES NO. 2	2	PA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
		COAL CO	MINE					
11/30/89	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
12/01/89	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	CONT. MINER
12/01/89	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	LONGWALL
12/08/89	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
12/08/89	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/10/89	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	TORCH
12/16/89	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	LONGWALL
12/18/89	46-07273	BIRCHFIELD MINING INC	MINE NO. 1	4	WV	0	1	OTHER (F)
12/18/89	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	LONGWALL
12/19/89	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
12/21/89	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
12/21/89	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	LONGWALL
01/05/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
01/06/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	TORCH
01/06/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
01/10/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/10/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
01/11/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
01/11/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/15/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
01/15/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/19/90	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
01/19/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/22/90	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	WELDING
01/23/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	1	CONT. MINER
01/23/90	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	LONGWALL
01/23/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/23/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/27/90	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
01/29/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/30/90	15-03178	ISLAND CREEK COAL COMPANY	OHIO NO. 11 MINE	10	KY	0	0	TORCH
01/30/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/02/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
02/02/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/05/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
02/06/90	44-01717	KOCH RAVEN DIVISION OF KOCH CARBON INC	RAVEN NO. 1 MINE	5	VA	0	1	CONT. MINER
02/06/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/06/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/07/90	36-02404	THE ROCHESTER AND PITTSBURGH COAL CO	GREENWICH COLLIERIES NO. 2 MINE	2	PA	0	0	CONT. MINER
02/13/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/17/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
02/20/90	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
02/22/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/22/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/23/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
02/23/90	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	CONT. MINER
02/24/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/27/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
03/01/90	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
03/09/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
03/13/90	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
03/19/90	46-05907	UNITED STATES STEEL MINING COMPANY INC	SHAWNEE MINE	4	WV	0	0	CONT. MINER
03/20/90	46-01438	CONSOLIDATION COAL COMPANY	IRELAND MINE	3	WV	0	0	CONT. MINER
03/20/90	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	CONT. MINER
03/22/90	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
03/30/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/03/90	15-13920	PYRO MINING COMPANY	NO. 9 WHEATCROFT MINE	10	KY	0	0	EXPLOSIVES
04/07/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
04/11/90	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	ELECTRICAL
04/19/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/24/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/25/90	44-00269	CLINCHFIELD COAL COMPANY	SPLASHDAM MINE	5	VA	0	0	WELDING
04/27/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
04/30/90	15-02055	BLUE DIAMOND COAL COMPANY	SCOTIA MINE	6	KY	0	0	LONGWALL
05/01/90	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
05/01/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	ELECTRICAL
05/08/90	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	CONT. MINER
05/15/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
05/18/90	36-02404	THE ROCHESTER AND PITTSBURGH COAL CO	GREENWICH COLLIERIES NO. 2	2	PA	0	0	CONT. MINER
05/25/90	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
05/25/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
05/29/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
05/31/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
05/31/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/01/90	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
06/03/90	01-00759	THE PITTSBURGH & MIDWAY COAL MINING CO	NORTH RIVER NO. 1 MINE UG	7	AL	0	0	TORCH
06/06/90	15-02055	BLUE DIAMOND COAL COMPANY	SCOTIA MINE	6	KY	0	0	LONGWALL
06/07/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/15/90	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
06/19/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/20/90	44-06499	DOMINION COAL CORPORATION	DOMINION NO. 7 MINE	5	VA	0	0	CONT. MINER
06/22/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
06/22/90	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
06/25/90	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
06/27/90	33-03349	HARRISON MINING CORPORATION	MELMS MINE	3	OH	0	0	TORCH
06/28/90	36-05466	CYPRUS EMERALD RESOURCES	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
		CORPORATION						
06/29/90	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
06/29/90	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	TORCH
07/09/90	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
07/10/90	44-00269	CLINCHFIELD COAL COMPANY	SPLASHDAM MINE	5	VA	0	0	OTHER (NF)
07/11/90	44-03795	FRONTIER KEMPER CONSTRUCTORS INC	D SHAFT VP-5 MINE	5	VA	0	0	TORCH
07/17/90	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
07/18/90	42-00077	SOLDIER CREEK COAL COMPANY	SOLDIER CANYON MINE	9	UT	0	0	CONT. MINER
07/20/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
07/20/90	36-00958	BETHENERGY MINES INC	MINE NO. 84	2	PA	0	0	LONGWALL
07/23/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	5	ROOF BOLTER
07/24/90	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
07/25/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
08/14/90	44-00269	CLINCHFIELD COAL COMPANY	SPLASHDAM MINE	5	VA	0	0	CONT. MINER
08/20/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
08/21/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/26/90	44-03795	FRONTIER KEMPER CONSTRUCTORS INC	D SHAFT VP-5 MINE	5	VA	0	0	EXPLOSIVES
09/10/90	44-03795	FRONTIER-KEMPER CONSTRUCTORS INC	D SHAFT VP-5 MINE	5	VA	0	0	EXPLOSIVES
09/12/90	15-13469	GREEN RIVER COAL COMPANY INC	GREEN RIVER COAL NO. 9 MINE	10	KY	0	0	CUT. MACHINE
09/13/90	44-03795	FRONTIER KEMPER CONSTRUCTORS INC	D SHAFT VP-5 MINE	5	VA	0	0	EXPLOSIVES
09/13/90	01-00759	THE PITTSBURG & MIDWAY COAL MINING CO	NORTH RIVER NO. 1 MINE UNDERGROUND	7	AL	0	0	LONGWALL
09/17/90	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
09/22/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
09/27/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/20/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
10/26/90	36-00840	BETHENERGY MINES INC	CAMBRIA SLOPE MINE NO. 33	2	PA	0	0	TORCH
11/12/90	05-03505	WESTERN FUELS - UTAH INC	DESERADO MINE	9	CO	0	0	WELDING
11/12/90	05-02820	WYOMING FUEL COMPANY	GOLDEN EAGLE MINE	9	CO	0	0	TORCH
11/13/90	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	WELDING
11/14/90	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
11/20/90	36-04852	KEYSTONE MINING CORPORATION	URLING NO. 1 MINE	2	PA	0	0	CONT. MINER
11/21/90	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
12/05/90	15-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	LONGWALL
12/05/90	44-03795	FRONTIER-KEMPER CONSTRUCTORS INC	D SHAFT VP-5 MINE	5	VA	0	0	TORCH
12/11/90	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
12/11/90	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
01/07/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/09/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/10/91	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH
01/15/91	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	1	OTHER (NF)
01/16/91	46-07512	FIRE CREEK INC	NO. 1 MINE	4	WV	2	0	CIG. LIGHTER
01/16/91	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	ELECTRICAL

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
01/18/91	33-01173	SOUTHERN OHIO COAL COMPANY	MEIGS NO. 2 MINE	3	OH	0	0	CONT. MINER
01/20/91	05-03672	AMERICAN MINE SERVICES INC	MT. GUNNISON NO. 1 MINE	9	CO	0	0	TORCH
01/22/91	33-01173	SOUTHERN OHIO COAL COMPANY	MEIGS NO. 2 MINE	3	OH	0	0	CONT. MINER
01/24/91	44-04197	WESTMORELAND COAL COMPANY	HOLTOM MINE	5	VA	0	0	CONT. MINER
01/26/91	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
01/30/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
02/01/91	46-01318	CONSOLIDATION COAL COMPANY	ROBINSON RUN NO. 95 MINE	3	WV	0	0	CONT. MINER
02/03/91	05-13881	PYRO MINING COMPANY	NO. 9 SLOPE WILLIAM STATION MINE	10	KY	0	0	TORCH
02/05/91	01-00515	DRUMMUND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	2	TORCH
02/09/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/12/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/14/91	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
02/15/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/15/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
02/18/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
02/19/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
02/19/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
02/25/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/25/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/27/91	05-02820	WYOMING FUEL COMPANY	GOLDEN EAGLE MINE	9	CO	0	11	ELECTRICAL
03/13/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/15/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/22/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
03/26/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/26/91	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	ELECTRICAL
04/09/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/09/91	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	2	CONT. MINER
04/10/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
04/11/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
04/12/91	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	CONT. MINER
04/15/91	42-00098	UNITED STATES FUEL COMPANY	KING 4 MINE	9	UT	0	0	CONT. MINER
04/16/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/17/91	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
04/18/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
04/23/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/25/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/26/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/28/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	LONGWALL
05/02/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	1	ELECTRICAL
05/07/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/08/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/13/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
05/14/91	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
05/17/91	42-01944	ENERGY WEST MINING COMPANY	COTTONWOOD MINE	9	UT	0	0	CONT. MINER
05/18/91	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
05/21/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
06/06/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/07/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/10/91	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
06/12/91	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
06/18/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
06/19/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/19/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/21/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/28/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
07/02/91	46-06642	INDUSTRIAL ENERGY INC	NO. 1 MINE	4	WV	0	0	ELECTRICAL
07/10/91	44-06537	MCMURPHY MINING INC	MINE NO. 2	5	VA	0	0	CONT. MINER
07/11/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
07/12/91	46-01453	CONSOLIDATION COAL COMPANY	HUMPHREY NO. 7 MINE	3	WV	0	0	WELDING
07/13/91	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
07/22/91	05-03672	MOUNTAIN COAL COMPANY	WEST ELK MINE	9	CO	0	0	ROOF BOLTER
07/22/91	44-06537	MCMURPHY MINING INC	MINE NO. 2	5	VA	0	0	CONT. MINER
07/23/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
07/24/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
07/24/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
07/25/91	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	WELDING
08/03/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/07/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
08/14/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/23/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
08/26/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/05/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/05/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/06/91	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
09/06/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/06/91	44-06227	BEAR RIDGE MINING INC	NO. 1 MINE	5	VA	0	1	CONT. MINER
09/09/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/18/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/19/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/20/91	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
09/23/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	LONGWALL
09/26/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/26/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
09/30/91	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	CONT. MINER
10/01/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/01/91	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
10/08/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
10/09/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/09/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/14/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/15/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/16/91	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
10/16/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/17/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/21/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/25/91	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	TORCH
10/25/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/29/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/06/91	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
11/06/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/06/91	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
11/07/91	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
11/07/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/07/91	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	LONGWALL
11/12/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/12/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/18/91	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/19/91	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
11/22/91	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
11/23/91	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
11/27/91	46-01453	CONSOLIDATION COAL COMPANY	HUMPHREY NO. 7 MINE	3	WV	0	0	TORCH
12/09/91	15-11612	JB&R COAL COMPANY INC	NO. 1 MINE	6	KY	0	2	ROOF BOLTER
12/13/91	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
12/19/91	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/03/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	LONGWALL
01/09/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/10/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/10/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/10/92	05-03672	MOUNTAIN COAL COMPANY	WEST ELK MINE	9	CO	0	0	TORCH
01/13/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	LONGWALL
01/14/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/15/92	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
01/20/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/21/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
01/28/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/28/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
01/29/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/31/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/05/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/06/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/08/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/10/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	LONGWALL
02/11/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/13/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
02/14/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/18/92	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
02/21/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/02/92	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
03/06/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/09/92	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
03/10/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	LONGWALL
03/11/92	42-00121	ENERGY WEST MINING COMPANY	DEER CREEK MINE	9	UT	0	0	TORCH
03/12/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/13/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
03/19/92	46-01867	CONSOLIDATION COAL COMPANY	BLACKSVILLE NO. 1 MINE	3	WV	4	3	WELDING
03/26/92	36-07230	CONSOL PENNSYLVANIA COAL COMPANY	BAILEY MINE	2	PA	0	0	CONT. MINER
03/26/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/27/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/06/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/07/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/08/92	05-03505	WESTERN FUELS-UTAH INC	DESERADO MINE	9	CO	0	0	WELDING
04/08/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
04/10/92	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	CONT. MINER
04/13/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/14/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	TORCH
04/14/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
04/16/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
04/20/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
04/22/92	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS NO. 6 MINE	5	VA	0	0	CONT. MINER
04/23/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	TORCH
04/24/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/25/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	TORCH
05/01/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/12/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
05/17/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
05/22/92	44-06583	PARAMONT COAL CORPORATION	DEEP MINE NO. 18	5	VA	0	0	CONT. MINER
05/29/92	46-01816	UNITED STATES STEEL MINING COMPANY INC	GARY NO. 50 MINE	4	WV	0	0	CONT. MINER
06/03/92	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
06/09/92	01-01401	JIM WALTERS RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
06/09/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
06/12/92	01-01401	JIM WALTERS RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/23/92	36-07416	ENLOW FORK MINING COMPANY	ENLOW FORK	2	PA	0	0	CONT. MINER
07/17/92	44-04946	CLINCHFIELD COAL COMPANY	MCCLURE NO. 2	5	VA	0	0	CONT. MINER
07/18/92	46-01433	CONSOLIDATION COAL COMPANY	LOVERIDGE NO. 22 MINE	3	WV	0	1	TORCH
07/30/92	01-01401	JIM WALTERS RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/13/92	01-01401	JIM WALTERS RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/17/92	44-00246	ISLAND CREEK COAL COMPANY	V-P NO. 1 MINE	5	VA	0	0	LONGWALL
08/19/92	44-00246	ISLAND CREEK COAL COMPANY	VP NO. 1 MINE	5	VA	0	0	LONGWALL
08/27/92	01-01401	JIM WALTERS RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
08/28/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	LONGWALL
08/28/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
09/03/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
09/03/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/04/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/14/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/15/92	44-03795	VP-5 MINING COMPANY	VP-5 MINE	5	VA	0	0	LONGWALL
09/15/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/17/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/17/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/22/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
09/22/92	42-00171	CYPRUS PLATEAU MINING CORPORATION	STAR POINT NO. 2	9	UT	0	0	LONGWALL
09/25/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/29/92	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
10/07/92	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/08/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
10/08/92	15-02132	WEBSTER COUNTY COAL CORPORATION	DOTIKI MINE	10	KY	0	0	CONT. MINER
10/15/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	LONGWALL
10/18/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	GAS
10/22/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
10/25/92	44-02253	SEA "B" MINING COMPANY	BIG CREEK SEABOARD NO. 1 MINE	5	VA	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
10/27/92	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	CONT. MINER
11/05/92	15-17044	THE PITTSBURG AND MIDWAY COAL CO INC	SEBREE NO. 1 MINE	10	KY	0	0	CONT. MINER
11/08/92	46-02057	MEADOW RIVER COAL COMPANY	NEW RIVER MINE	4	WV	0	0	CONT. MINER
11/10/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/12/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/17/92	44-00246	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 1 MINE	5	VA	0	0	LONGWALL
11/24/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
11/30/92	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
12/01/92	15-02132	WEBSTER COUNTY COAL CORPORATION	DOTIKI MINE	10	KY	0	0	CONT. MINER
12/03/92	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	CONT. MINER
12/03/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/06/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
12/07/92	44-06594	SOUTH MOUNTAIN COAL COMPANY INC	MINE NO. 3	5	VA	8	1	CIG. LIGHTER
12/10/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
12/10/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
12/11/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
12/17/92	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	TORCH
12/17/92	42-00121	ENERGY WEST MINING COMPANY	DEER CREEK MINE	9	UT	0	0	CONT. MINER
12/23/92	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
12/28/92	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
12/29/92	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	5	ROOF FALL
12/30/92	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
01/12/93	29-00224	THE PITTSBURG AND MIDWAY COAL CO INC	CIMARRON MINE	9	NM	0	0	WELDING
01/12/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/15/93	46-03374	MAPLE MEADOW MINING COMPANY	MAPLE MEADOW MINE	4	WV	0	0	OTHER
01/22/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
01/22/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
01/27/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/03/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
02/04/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	1	CONT. MINER
02/07/93	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
02/16/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/23/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/01/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
03/08/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ELECTRICAL
03/08/93	05-02820	BASIN RESOURCES INC	GOLDEN EAGLE	9	CO	0	0	CONT. MINER
03/12/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	WELDING
03/18/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	TORCH
04/05/93	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
04/07/93	36-05466	CYPRUS EMERALD RESOURCES CORPORATION	EMERALD MINE NO. 1	2	PA	0	0	CONT. MINER
04/15/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	ROOF BOLTER
04/15/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
04/19/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	WELDING
04/21/93	05-03672	MOUNTAIN COAL COMPANY	WEST ELK MINE	9	CO	0	0	ROOF BOLTER
04/21/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
04/22/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/27/93	33-01172	SOUTHERN OHIO COAL COMPANY	MEIGS NO. 31 MINE	3	OH	0	0	TORCH
04/30/93	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	0	TORCH

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
05/04/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	OTHER
05/07/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/08/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/11/93	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
05/11/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/12/93	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	TORCH
05/14/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/17/93	01-00759	THE PITTSBURG AND MIDWAY COAL CO INC	NORTH RIVER NO. 1 MINE UNDERGROUND	7	AL	0	0	TORCH
05/19/93	44-03795	ISLAND CREEK COAL COMPANY	VP-5 MINE	5	VA	0	0	CONT. MINER
05/20/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
05/21/93	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
05/26/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
06/04/93	42-00093	SUNNYSIDE COAL COMPANY	SUNNYSIDE MINE NO. 1	9	UT	0	0	WELDING
06/11/93	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS NO. 3 MINE	5	VA	0	0	CONT. MINER
06/17/93	46-03374	MAPLE MEADOW MINING COMPANY	MAPLE MEADOW MINE	4	WV	0	0	CONT. MINER
07/21/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	2	ROOF BOLTER
07/24/93	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
07/24/93	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
07/28/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
08/20/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/22/93	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	OTHER
08/24/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/31/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/13/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	SHEARER
09/15/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/20/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/21/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
09/22/93	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1 MINE	5	VA	0	0	CONT. MINER
09/25/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/27/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
09/29/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/01/93	01-00759	THE PITTSBURG & MIDWAY COAL MINING CO	NORTH RIVER NO. 1 MINE UNDERGROUND	7	AL	0	0	TORCH
10/02/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
10/05/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/05/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/13/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
10/13/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/14/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	SHEARER
10/14/93	46-01433	CONSOLIDATION COAL COMPANY	LOVERTIDGE NO. 22 MINE	3	WV	0	0	TORCH
10/18/93	42-01211	ENERGY WEST MINING COMPANY	TRAIL MOUNTAIN MINE	9	UT	0	0	CONT. MINER
10/21/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/25/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/28/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	ROOF BOLTER
10/28/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/28/93	42-01944	ENERGY WEST MINING COMPANY	COTTONWOOD MINE	9	UT	0	0	CONT. MINER
11/01/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/08/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/10/93	46-04168	PHILIPPI DEVELOPMENT INC	SENTINEL MINE	3	WV	0	2	CONT. MINER
11/15/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/18/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
11/18/93	01-01247	JIM WALTER RESOURCES INC	NO. 4 MINE	7	AL	0	0	CONT. MINER
11/19/93	01-02901	COWIN AND COMPANY INC (CONTRACTORS)	SHOAL CREEK MINE	7	AL	0	0	TORCH
11/22/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/22/93	01-02901	COWIN AND COMPANY INC (CONTRACTORS)	SHOAL CREEK MINE	7	AL	0	0	TORCH
11/30/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
11/30/93	15-16856	AA&W COALS INC	ELMO NO. 5 MINE	6	KY	1	0	
12/03/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/04/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	TORCH
12/07/93	44-06499	DOMINION COAL CORPORATION	DOMINION NO. 7 MINE	5	VA	0	0	CONT. MINER
12/08/93	15-02132	WEBSTER COUNTY COAL CORPORATION	DOTIKI MINE	10	KY	0	0	CONT. MINER
12/08/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/10/93	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
12/13/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/13/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	WELDING
12/16/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
12/20/93	01-01322	JIM WALTER RESOURCES INC	NO. 5 MINE	7	AL	0	4	CONT. MINER
12/20/93	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
01/01/94	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	WELDING
01/06/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	ROOF BOLTER
01/26/94	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	CONT. MINER
02/02/94	01-01401	JIM WALTER RESOURCES, INC.	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/09/94	15-16627	JERICOL MINING INCORPORATED	NO. 2 DARBY MINE	7	KY	0	0	CONT. MINER
02/14/94	42-02028	ANALEX RESOURCES INC	ABERDEEN	9	UT	0	0	CONT. MINER
02/16/94	01-01401	JIM WALTER RESOURCES, INC.	NO. 7 MINE	7	AL	0	0	CONT. MINER
02/17/94	42-00089	SOUTHERN UTAH FUEL COMPANY	SUFECO MINE	9	UT	0	0	STORAGE TANK
02/25/94	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
03/01/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
03/09/94	15-16627	JERICOL MINING INC	NO. 2 DARBY	7	KY	0	0	CONT. MINER
03/16/94	33-01173	SOUTHERN OHIO COAL COMPANY	MEIGS #2 MINE	3	OH	0	0	CONT. MINER
03/17/94	44-03795	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS 5	5	VA	0	0	CONT. MINER
03/28/94	44-00238	BEATRICE POCAHONTAS COMPANY	BEATRICE	5	VA	0	0	SHAFT
03/28/94	42-02028	ANALEX RESOURCES INC	ABERDEEN	9	UT	0	0	CONT. MINER
04/05/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
04/08/94	44-04517	GARDEN CREEK POCAHONTAS COMPANY	VIRGINIA POCAHONTAS 6 MINE	5	VA	0	0	CONT. MINER
04/25/94	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN MINE NO. 1	5	VA	0	0	CONT. MINER
04/27/94	44-03795	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS 5	5	VA	0	0	CONT. MINER
04/29/94	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS 3	5	VA	0	0	WELDING
05/03/94	01-00851	U.S. STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	LONGWALL
05/10/94	01-00851	U.S. STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	LONGWALL
05/17/94	44-03795	ISLAND CREEK COAL COMPANY	VIRGINIA PCAHONTAS 5	5	VA	0	0	TORCH
05/19/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
05/21/94	01-00851	U.S. STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	LONGWALL
05/23/94	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL
05/24/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	LONGWALL
05/25/94	42-01944	ENERGY WEST MINING COMPANY	COTTONWOOD MINE	9	UT	0	0	CONT. MINER
05/25/94	42-01944	ENERGY WEST MINING COMPANY	COTTONWOOD MINE	9	UT	0	0	CONT. MINER
05/27/94	44-01520	ISLAND CREEK COAL COMPANY	VIRGINIA POCAHONTAS 3	5	VA	0	0	CONT. MINER
06/03/94	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	LONGWALL

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
06/09/94	46-01318	CONSOLIDATION COAL COMPANY	ROBINSON RUN NO. 95 MINE	3	WV	0	0	LONGWALL
06/13/94	01-00851	U.S. STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	LONGWALL
06/16/94	01-00851	U.S. STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	LONGWALL
06/20/94	01-00515	DRUMMOND COMPANY INC	MARY LEE NO. 1 MINE	7	AL	0	0	CONT. MINER
06/21/94	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN MINE NO. 1	5	VA	0	0	CONT. MINER
06/21/94	01-01401	JIM WALTER RESOURCES INC	NO. 7 MINE	7	AL	0	0	CONT. MINER
06/25/94	44-04946	CLINCHFIELD COAL COMPANY	MCCLURE NO. 2 MINE	5	VA	0	0	CONVEYOR
07/01/94	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN MINE NO. 1	5	VA	0	0	CONT. MINER
07/14/94	01-00851	U.S. STEEL MINING COMPANY INC	OAK GROVE MINE	7	AL	0	0	LONGWALL
07/18/94	15-16627	JERICOL MINING INC	NO. 2 DARBY MINE	7	KY	0	2	CONT. MINER
07/19/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
07/30/94	01-01247	JIM WALTER RESOURCES, INC	NO. 4 MINE	7	AL	0	0	WELDING
08/01/94	44-01520	ISLAND CREEK COAL CO.	VIRGINIA POCAHONTAS 3 MINE	5	VA	0	0	CONT. MINER
08/06/94	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	CONT. MINER
08/10/94	46-07900	TERRY EAGLE COAL COMPANY	BELLS CREEK MINE	4	WV	0	0	CONT. MINER
08/14/94	15-04670	ARCH OF KENTUCKY, INC	NO. 37 MINE	7	KY	0	0	TORCH
08/23/94	44-04856	CONSOLIDATION COAL CO.	BUCHANAN MINE #1	5	VA	0	0	CONT. MINER
08/25/94	44-03795	ISLAND CREEK COAL CO.	VP 8 MINE	5	VA	0	0	LONGWALL
09/10/94	15-04670	ARCH OF KENTUCKY, INC	NO. 37 MINE	7	KY	0	0	TORCH
09/27/94	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN MINE #1	5	VA	0	0	CONT. MINER
09/27/94	29-00224	THE PITTSBURG & MIDWAY COAL MINING CO.	CIMARRON MINE	9	NM	0	2	SHAFT
10/01/94	01-00758	JIM WALTER RESOURCES, INC.	NO. 3 MINE	7	AL	0	0	CONT. MINER
10/03/94	44-04251	CLINCHFIELD COAL COMPANY	MCCLURE NO. 1	5	VA	0	0	LONGWALL
10/25/94	01-02901	DRUMMOND COMPANY, INC.	SHOAL CREEK	7	AL	0	0	CONT. MINER
10/31/94	44-04856	CONSOLIDATION COAL CORPORATION	BUCHANAN MINE #1	5	VA	0	0	CONT. MINER
11/23/94	01-00851	U.S. STEEL MINING COMPANY, INC.	OAK GROVE MINE	7	AL	0	0	WELDING
11/29/94	05-03672	WEST ELK MINE	MOUNTAIN COAL COMPANY	9	CO	0	0	WELDING
						85	138	

APPENDIX B.—SURFACE COAL MINE IGNITIONS OR EXPLOSIONS OF GAS OR DUST

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
01/23/81	02-00533	PEABODY COAL COMPANY	BLACK MESA MINE	9	AZ	0	2	EXPLOSIVES
01/29/81	01-00758	JIM WALTER RESOURCES INC	NO. 3 MINE	7	AL	0	0	OTHER (NF)
02/19/81	46-04174	CEDAR COAL COMPANY	NO. 5 MINE	4	WV	0	0	WELDING
06/02/81	40-01138	ROCK CREEK MINING COMPANY INC	NO. 1 TIPPLE	7	TN	1	0	TORCH
11/06/81	42-00098	UNITED STATES FUEL COMPANY	KING NO. 4 MINE	9	UT	0	1	TORCH
01/20/82	46-03251	SEWELL COAL COMPANY	SEWELL NO. 4 PREPARATION PLANT	4	WV	0	1	ELECTRICAL
04/03/82	46-01409	CONSOLIDATION COAL COMPANY	MAITLAND MINE	4	WV	0	0	ELECTRICAL
07/27/82	44-05270	VIRGINIA IRON COAL AND COKE COMPANY	TOMS CREEK COMPLEX	5	VA	0	0	ELECTRICAL
09/29/82	15-01969	MOUNTAIN DRIVE COAL COMPANY	NO. 1 STRIP MINE	7	KY	1	0	TORCH
12/13/82	33-02624	QUARTO MINING COMPANY	POWHATAN NO. 7 MINE	8	OH	0	0	TORCH
01/20/83	33-00958	CONSOLIDATION COAL COMPANY	GEORGETOWN PREPARATION PLANT NO. 19	8	OH	0	0	DRYER
02/25/83	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
05/06/83	46-02232	CEDAR COAL COMPANY INC	CUT NO. 25 MINE	4	WV	0	0	ELECTRICAL
05/24/83	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
08/18/83	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
11/10/83	48-00977	THUNDER BASIN COAL COMPANY	BLACK THUNDER MINE	9	WY	0	0	ELECTRICAL
12/27/83	33-00989	CENTRAL OHIO COAL COMPANY	MUSKINGUM MINE	8	OH	0	4	EXPLOSIVES
03/06/84	01-00329	UNITED STATES STEEL MINING COMPANY INC	CONCORD PREPARATION PLANT	7	AL	0	4	OTHER (NF)
04/25/84	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
06/27/84	36-00909	CONSOLIDATION COAL COMPANY	ROBENA MINE	2	PA	0	0	TORCH
08/09/84	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
09/14/84	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
11/01/84	36-00926	THE HELEN MINING COMPANY	HOMER CITY MINE	2	PA	0	0	TORCH
07/16/85	33-03937	TRI-STATE AUGER MINING	J-R AUGER MINE	8	OH	0	2	AUGER
08/02/85	42-00080	EMERY MINING CORPORATION	WILBERG MINE	9	UT	0	1	TORCH
09/12/85	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
12/31/85	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
01/07/86	33-00958	CONSOLIDATION COAL COMPANY	GEORGETOWN PREPARATION PLANT	3	OH	0	0	DRYER
03/10/86	46-03157	EASTERN ASSOCIATED COAL CORPORATION	KOPPERSTON PREPARATION PLANT	4	WV	0	0	DRYER
05/30/86	36-00840	BETHENERGY MINES INC	CAMBRIA SLOPE MINE 33	2	PA	0	2	ROOF FALL
10/14/86	36-00840	BETHENERGY MINES INC	CAMBRIA SLOPE MINE 33	2	PA	0	0	TORCH
12/08/86	44-05311	CLINCHFIELD COAL COMPANY	MCCLURE RIVER PREPARATION PLANT	5	VA	0	0	TORCH
01/05/87	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
04/23/87	46-05868	UNITED STATES STEEL MINING COMPANY IN	PINNACLE PREPARATION PLANT	4	WV	0	0	OTHER (NF)
05/11/87	44-04856	CONSOLIDATION COAL CORPORATION	BUCHANAN NO. 1 MINE	5	VA	0	2	WELDING
01/14/88	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
01/21/88	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
05/12/88	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
06/21/88	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	1	OTHER (NF)
01/27/89	46-04421	CONSOLIDATION COAL COMPANY	AMONATE NO. 31 MINE	4	WV	0	0	OTHER (NF)
06/19/89	24-01747	WESTERN ENERGY COMPANY	ROSEBUD NO. 6 MINE	9	MT	0	2	OTHER (NF)
12/08/89	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
12/14/89	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
01/24/90	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
02/05/90	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
02/07/90	46-03157	EASTERN ASSOCIATED COAL CORPORATION	KOPPERSTON PREPARATION PLANT	4	WV	0	0	DRYER
06/14/90	46-03140	WESTMORELAND COAL COMPANY	HAMPTON NO. 3 PREPARATION PLANT	4	WV	0	0	ELECTRICAL
08/07/90	15-10306	PEN COAL CORPORATION	BIG SANDY RIVER DOCK	6	KY	1	0	OTHER (NF)
08/07/90	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
08/09/90	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
01/23/91	46-03805	SOUTHERN OHIO COAL COMPANY	MARKINKA NO. 1 MINE	3	WV	0	1	OTHER (NF)
04/16/91	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
04/23/91	15-11620	PYRAMID MINING INC	HALL NO. 2 MINE	10	KY	0	2	AUGER
06/03/91	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
07/18/91	15-04670	ARCH OF KENTUCKY INC	NO. 37 MINE	7	KY	0	0	TORCH
07/23/91	15-11620	PYRAMID MINING INC	HALL NO. 2 MINE	10	KY	0	1	AUGER
07/29/91	46-06594	SLIDER AUGERING AND WELDING	COONTZ NO. 1 MINE	3	WV	0	2	AUGER
08/02/91	48-00732	AMAX COAL COMPANY	BELLE AYS MINE	9	WY	0	1	DRYER
08/11/91	48-00993	THE CARTER MINING COMPANY	RAWHIDE MINE	9	WY	0	0	OTHER (NF)
08/17/91	48-00977	THUNDER BASIN COAL COMPANY	BLACK THUNDER MINE	9	WY	0	0	OTHER (NF)
09/10/91	46-06595	92 COAL CORPORATION	COONTZ NO. 1 MINE	3	WV	0	3	AUGER
11/12/91	15-16851	ADDWEST MINING INC	WATSON BRIDGE MINE	10	KY	1	2	CONT. MINER
01/20/92	11-01999	PEABODY COAL COMPANY	RANDOLPH PREPARATION PLANT	8	IL	0	0	OTHER (NF)
04/29/92	36-05018	UNITED STATES STEEL MINING COMPANY INC	CUMBERLAND MINE	2	PA	0	0	DRYER
05/01/92	46-01437	MCELROY COAL COMPANY	MCELROY MINE	3	WV	0	0	TORCH
05/06/92	15-11704	COSTAIN COAL INC	PREP PLANT NO. 2	10	KY	0	0	TORCH
05/26/92	15-16848	CANYON COALS INC	JACOBS CREEK MINE	10	KY	0	0	AUGER
05/29/92	24-01747	WESTERN ENERGY COMPANY	ROSEBUD NO. 6	9	MT	0	0	OTHER (NF)
07/18/92	44-00304	WESTMORELAND COAL COMPANY	BULLITT MINE	5	VA	0	0	WELDING
08/12/92	15-02013	ANDALEX RESOURCES INC	VOLUNTEER	10	KY	0	0	AUGER
09/16/92	48-01503	ENCOAL CORPORATION	ENCOAL MILD GASIFICATION DEMO PLANT	9	WY	0	0	OTHER (NF)
09/26/92	48-01503	ENCOAL CORPORATION	ENCOAL MILD GASIFICATION DEMO PLANT	9	WY	0	0	OTHER (NF)
10/13/92	15-16966	MUHLBERG COUNTY COALS INC	WILD GAME MINE	10	KY	0	0	AUGER

DATE	MINEID	COMPANY	MINE	DIST	ST	FAT	INJ	EQ1
12/02/92	44-02277	CLINCHFIELD COAL COMPANY	MOSS NO. 3 PREPARATION PLANT	5	VA	0	0	DRYER
01/06/93	46-03157	EASTERN ASSOCIATED COAL CORPORATION	KOPPERSTON PREPARATION PLANT	4	WV	0	0	DRYER
04/14/93	15-17369	CANYON INC	JACOBS CREEK AUGER MINE NO. 1	10	KY	0	0	ELECTRICAL
04/21/93	05-03672	KEYSTONE CONSTRUCTION COMPANY	WEST ELK MINE	9	CO	0	0	TORCH
07/14/93	05-04184	INDUSTRIAL SYSTEMS INC	CYPRUS ORCHARD VALLEY MINE	9	CO	0	1	BIN
07/15/93	48-01200	TRITON COAL COMPANY	BUCKSKIN MINE	9	WY	0	0	SILO
08/13/93	48-00993	THE CARTER MINING COMPANY	RAWHIDE MINE	9	WY	0	0	OTHER
01/07/94	44-04856	CONSOLIDATION COAL COMPANY	BUCHANAN NO. 1 MINE	5	VA	0	0	DRYER
01/24/94	01-00515	NELSON CONTRACTING ENGR'G (CONTRACTOR)	MARY LEE NO. 1 MINE	7	AL	0	0	TORCH

4 35