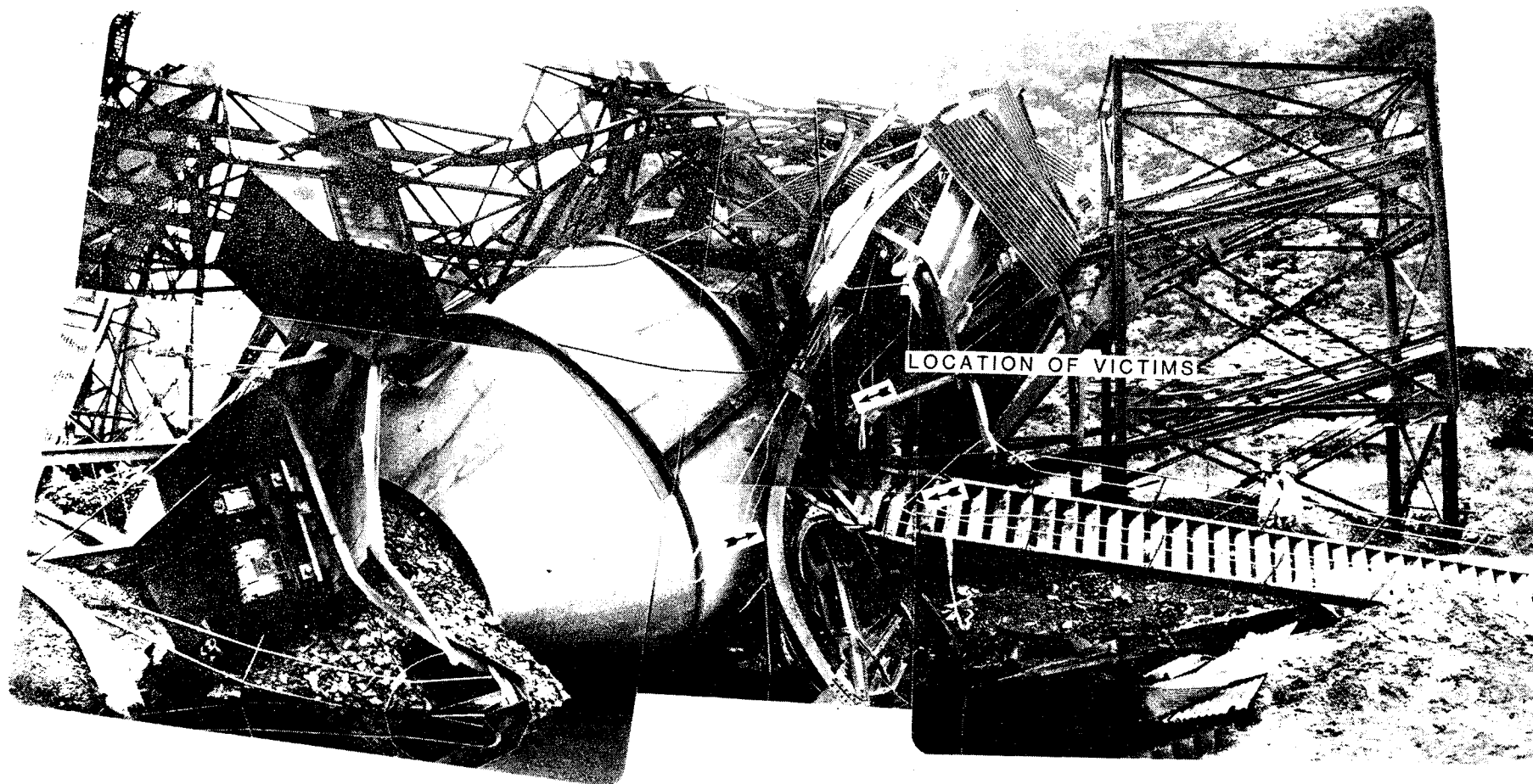


REPORT OF INVESTIGATION  
(SURFACE AREA OF UNDERGROUND COAL MINE)

MULTIPLE FATAL FALL OF MATERIAL ACCIDENT

Virginia Pocahontas No. 1 Mine (ID No. 44-00246)  
Island Creek Coal Company  
Oakwood, Buchanan County, Virginia

August 24, 1982



Photographic Composite of  
Collapsed Structure

Fatal Fall of Material Accident  
Virginia Pocahontas No. 1 Mine (44-00246)  
Island Creek Coal Company  
Oakwood, Buchanan County, Virginia  
8/24/82

# ABSTRACT OF INVESTIGATION

<b>Title of Investigation:</b> Fatal Fall of Material Accident	<b>Mine Information</b>
<b>Report Release Date:</b> MAR 2 1983	<b>Daily Production</b> .....3,500.....
<b>Mine:</b> Virginia Pocahontas No. 1	<b>Surface Employment</b> ....56.....
<b>Mine ID Number:</b> 44-00246	<b>Underground Employment</b> 358.....
<b>Company:</b> Island Creek Coal Company	<b>Name of Coalbed</b> .Pocahontas No. 3.....
<b>Town, County, State:</b> Oakwood, Buchanan, Virginia	<b>Thickness of Coalbed</b> ..42 - .92 inches.....
<b>Author(s):</b> Dale R. Cavanaugh Robert J. Painter Allen K. Watson	<b>Last Quarter Injury Incident Rate (HSAC) for:</b> <b>Industry</b> .....11.49..... <b>This Operation</b> ..2.24..... <b>Training Program Approved</b> 01/10/79..... <b>Mine Profile Rating</b> ...823 (1976).....
<b>Originating Office - Mine Safety and Health, Administration, Coal Mine Safety and Health, Office of the Administrator</b> <b>Address:</b> 4015 Wilson Boulevard Arlington, Virginia 22203	<b>Authority - This report is based on an investigation made pursuant to the Federal Mine Safety and Health Act of 1977 (Public Law 91-173, as amended by Public Law 95-164)</b>

## Abstract

On Tuesday, August 24, 1982, at 1:40 p.m., a fall of material accident occurred on the surface area of Island Creek Coal Company's Virginia Pocahontas No. 1 Mine. The accident resulted in the deaths of Charles T. Crawford and James J. Perkins, tipple mechanics, and James J. Brescoach, car tagger. Crawford, Perkins, and Brescoach had 24 years, 34 years, and 15-1/2 years mining experience, respectively. The accident occurred when the 300-ton refuse bin on which the three miners were working collapsed, crushing them between the support structure and the bin. The accident occurred because repair work performed on the refuse bin by a contractor resulted in the facility being structurally unsound. Two of the six bin upper support columns (stub columns) were not aligned with the main (lower) support columns, significantly reducing the load supporting capability of the structure.

Information for this report was compiled through a MSHA investigation that was started ... August 26, 1982.....

Company Officials:	<u>Name</u>	<u>Address</u>
President .....	James Vilseck.....	Drawer L, Oakwood, Virginia 24631.....
Superintendent .....	Harold Hamilton.....	Drawer L, Oakwood, Virginia 24631.....
Safety Director .....	Emory Wilson.....	Drawer L, Oakwood, Virginia 24631.....
Principle Officer - H&S .....	Harold Stanley.....	Drawer L, Oakwood, Virginia 24631.....
Labor Organization .....	United Mine Workers of America.....	
Chairman - H&S Committee .....	Carl Hale.....	Cedar Bluff, Virginia.....

### Commentary

Because the refuse bin at the Virginia Pocahontas No. 1 Mine preparation plant was in a worn condition, Island Creek Coal Company contracted repair work on the bin. The contract specified that the bin portion of the structure be replaced and that all repair work be completed during miners' vacation, a period from June 26 to July 11, 1982. J. W. & L. Company, Inc., of Tazewell, Virginia, was awarded the contract.

J. W. & L. Company, Inc., performed the repair work on the refuse bin during miners' vacation. The work involved supporting the conveyor belt structure feeding the bin, freeing the upper bin portion of the structure by cutting the upper support (stub columns) from the main (lower) support columns, removing the upper bin portion of the structure with a crane, disconnecting the stub columns from the old bin, assembling the new bin and attaching the old stub columns, lifting and positioning the newly constructed upper bin structure, and reattaching the upper bin structure to the main structure.

During the repair work, a noninjury accident occurred when the upper portion of the old bin was being lifted away from the main structure. The crane operator lost control of the load, dropping the bin to the ground, with the crane boom buckling over the corner of the main structure.

The repair work was completed and production at the mine resumed after miners' vacation on July 12, 1982. Operations at the preparation plant continued routinely until the day of the accident.

On Tuesday, August 24, 1982, the morning shift began work at 8 a.m. Work activities continued without incident until approximately 1 p.m. when the production hoist (skip) stopped. Joe Shortt, preparation plant foreman, called Charles T. Crawford, tipple mechanic and instructed him to go to the skip and stay there until the mechanic was sure it was running. At this time, Shortt observed miners working on the refuse bin. James J. Brescoach, car tagger, and James J. Perkins, tipple mechanic, were on the refuse bin platform. Brescoach was beating on the side of the cone portion of the bin with a sledgehammer in an apparent attempt to free clogged material. After giving instructions to Crawford, Shortt left the area.

At approximately 1:30 p.m., Johnny Delomas, second shift mine foreman, was approaching the mine on his way to work. Lawrence Hagy, another mine employee, was working in the surface supply area. Both miners witnessed the refuse bin collapsing. The upper bin portion dropped vertically and toppled over, twisting slightly. Delomas went to the mine office and reported the accident to mine management. He then made attempts to contact Harold E. Hamilton, Jr., superintendent, who was underground. Hamilton was not reached until approximately 2 p.m.

Mike Cole, assistant maintenance foreman, was walking toward the main mine office when the collapse occurred. Upon hearing a crashing sound behind him, Cole turned to see only the dust cloud resulting from the collapse. He ran to the accident scene and turned off the power to the aerial tramway that transported refuse from the bin. Cole inspected the accident site and found Crawford apparently alive, caught in the bin structure. Cole determined that he would need help so he called for assistance. Medical assistance was given to Crawford, but to no avail. The bodies of Brescoach and Perkins were located nearby,

also entrapped in the structure. Neither miner showed signs of life. Recovery operations were started, and the victims were removed from the wreckage. All three victims were pronounced dead at the scene by Dr. Baxter of the Grundy Hospital, Inc., Grundy, Virginia.

### Discussion and Evaluation

The investigation revealed the following factors relevant to the occurrence of the accident:

1. The refuse bin structure was designed and constructed by Interstate Equipment Corporation of Elizabeth, New Jersey, in 1967.
2. The refuse bin structure was used nearly continuously without a major incident from 1968 to the day of the accident.
3. Early in 1982, a construction repair contract was awarded to J. W. & L. Company, Inc., (ID. A-59) to replace the sides and top portions of the refuse bin.
4. The work order specified that a new bin be fabricated, painted, and installed above the lower compression ring with the repairs to be completed during and by the end of miners' vacation (June 26 to July 11, 1982).
5. To facilitate removal of the worn bin, the bin, along with the six upper support columns (stub columns), was cut just above the lower compression ring around the circumference of the bin.
6. The cut-away portion of the structure was to be lifted to the side of the main structure and lowered to the ground by a 50-ton crawler-mounted crane. However, in an attempt to do so, the crane operator lost control of the load, dropping the bin to the ground with the crane boom buckling over the corner of the remaining structure.
7. The remaining structure was inspected by Joe Necessary of J. W. & L. Company, Inc., but no damage was found.
8. The damaged crane was replaced, possibly delaying the repair work.
9. The new bin was assembled on the ground with the stub columns, which were removed from the worn bin, welded to the sides.
10. One or two 1/4-inch thick steel plates were welded to the pressure ring directly above the main columns. Two plates were welded above columns 1, 2, 4 and 5 and one plate was welded above columns 3 and 6. The plates varied in size from 5-1/2 inches by 13 inches to 6 inches by 24 inches.
11. The new section was lifted into position and welded to the main structure.

12. During fabrication of the new bin, two of the six stub columns were misaligned at least eight inches from the main columns. (See drawing No. 3.)
13. The circumference of the new bin was slightly larger than the circumference of the cone top resulting in a bulge in the side of the bin between columns 3 and 4 which extended out to within one inch of the outer edge of the compression ring. This left a small ledge on the inside of the bin.
14. On the midnight shift on the day of the accident, the preparation plant ran a large amount of filter cake which apparently contributed to the clogging of the bin.
15. The three victims were working on the maintenance platform, apparently attempting to loosen clogged material in the bin.
16. One of the victims was striking the cone with a small sledgehammer in an effort to vibrate the clogged material loose.
17. The cone was equipped with a vibrator and three compressed air nozzles that could be connected to the mine compressed air system. It could not be determined if these anti-clog devices were used prior to the accident.
18. Approximately 250 tons of refuse material was in the bin at the time of collapse.
19. According to eyewitnesses, the bin portion of the structure tipped and then dropped vertically with a slight twisting motion until it neared the ground. At this point, the entire structure toppled over.

#### Findings of Fact

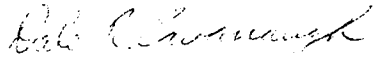
The mine refuse storage bin and supporting structure for the aerial tramway system was not maintained in good repair to prevent accidents and injuries. Repair and maintenance work performed by an independent contractor, J. W. & L. Company, Inc., during miners' vacation (June 26 to July 11, 1982), resulted in the facility being left structurally unsound because two of the six bin upper support columns (stub columns) were not aligned with the main support columns, a violation of 30 CFR 77.200.

#### Conclusion


The accident occurred because repair work performed by the independent contractor on the refuse bin resulted in the facility being structurally unsound. Two of the six bin upper support columns (stub columns) were not aligned with the main support columns, significantly reducing the load supporting capability of the structure.

The fact that neither the independent contractor nor mine management performed an adequate post-construction inspection of the repaired facility contributed to the occurrence of the accident.

Respectfully submitted,



Dale R. Cavanaugh  
Mechanical Engineer

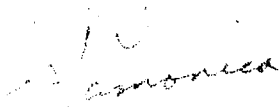


Robert J. Painter  
Mine Safety and Health Specialist



Allen K. Watson  
Civil Engineer

Approved by:



Joseph A. Lamonica  
Administrator  
for Coal Mine Safety and Health

## Appendix

List of persons furnishing information and/or present during the investigation.

### Island Creek Coal Company Officials

J. R. Vilseck	Division President
Harold E. Hamilton, Jr.	Superintendent
L. P. Mokwa	Manager of Mines
Dennis Hardy	Manager of Maintenance
Jim Bloomberg	Director of Preparation
Joseph Shortt	Preparation Plant Foreman
Mike Cole	Assistant Maintenance Foreman
John Delomas	Second Shift Mine Foreman
Harold Stanley	Safety Director
Emory Wilson	Safety Department
Mac Hagy	Safety Department
H. Lee Blackburn	Training Instructor
Lewis E. Kanicle	Longwall Coordinator
Landon Altizer	Maintenance Foreman

### Representatives of Miners

E. M. Long, Jr.	UMWA Safety Inspector
J. C. Lambert	UMWA Safety Inspector
Carl E. Hale	Safety Chairman, Local 1509

### J. W. & L. Company, Inc.

Jim Lafon	President
James D. Lafon	Vice-President
Joe Necessary	Site Foreman

### Interstate Equipment Corporation

James Vogel	President
Charles Price	Vice-President, Field Operations
Rex Youse	Chief Engineer

### Virginia Division of Mines

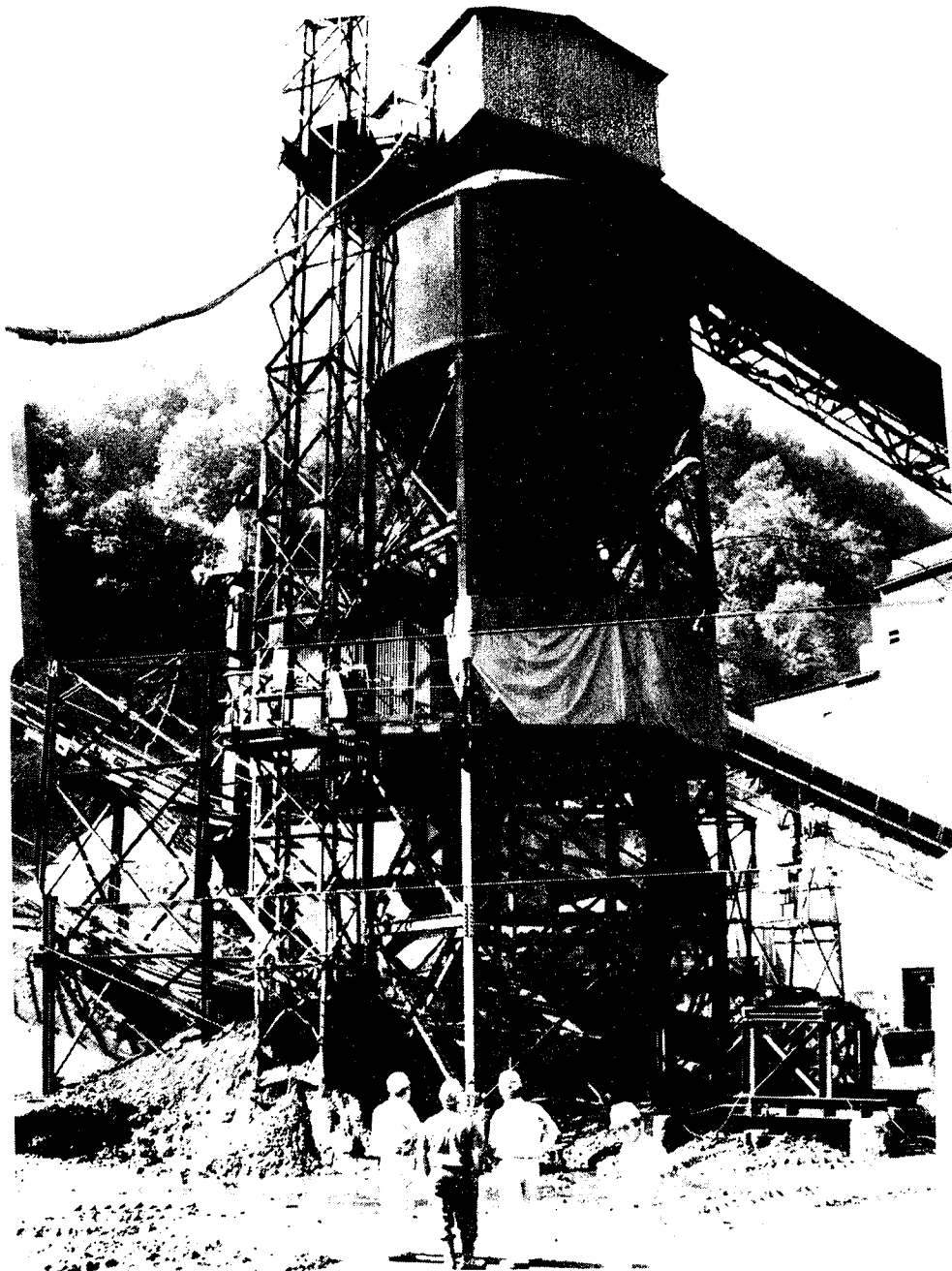
Lewis Wheatley	Technical Assistant
H. D. White	Inspector Supervisor
Benjamin H. Mullins	State Inspector



Mine Safety and Health Administration

Jack F. McManus	Subdistrict Manager
Larry J. Worrell	Coal Mine Inspector
Jerry Wiley	Coal Mine Inspector
Donnie H. Stallard	Special Investigator
Dewey Rife	Special Investigator
Dale R. Cavanaugh	Mechanical Engineer
Robert J. Painter	Mine Safety and Health Specialist
Allen K. Watson	Civil Engineer

## Appendix



Photographic Composite of  
a Similar Refuse Bin Structure

Fatal Fall of Material Accident  
Virginia Pocahontas No. 1 Mine (44-00246)  
Island Creek Coal Company  
Oakwood, Buchanan County, Virginia  
8/24/82

# Appendix

## DRAWING NO. 1

Fatal Fall of Material Accident

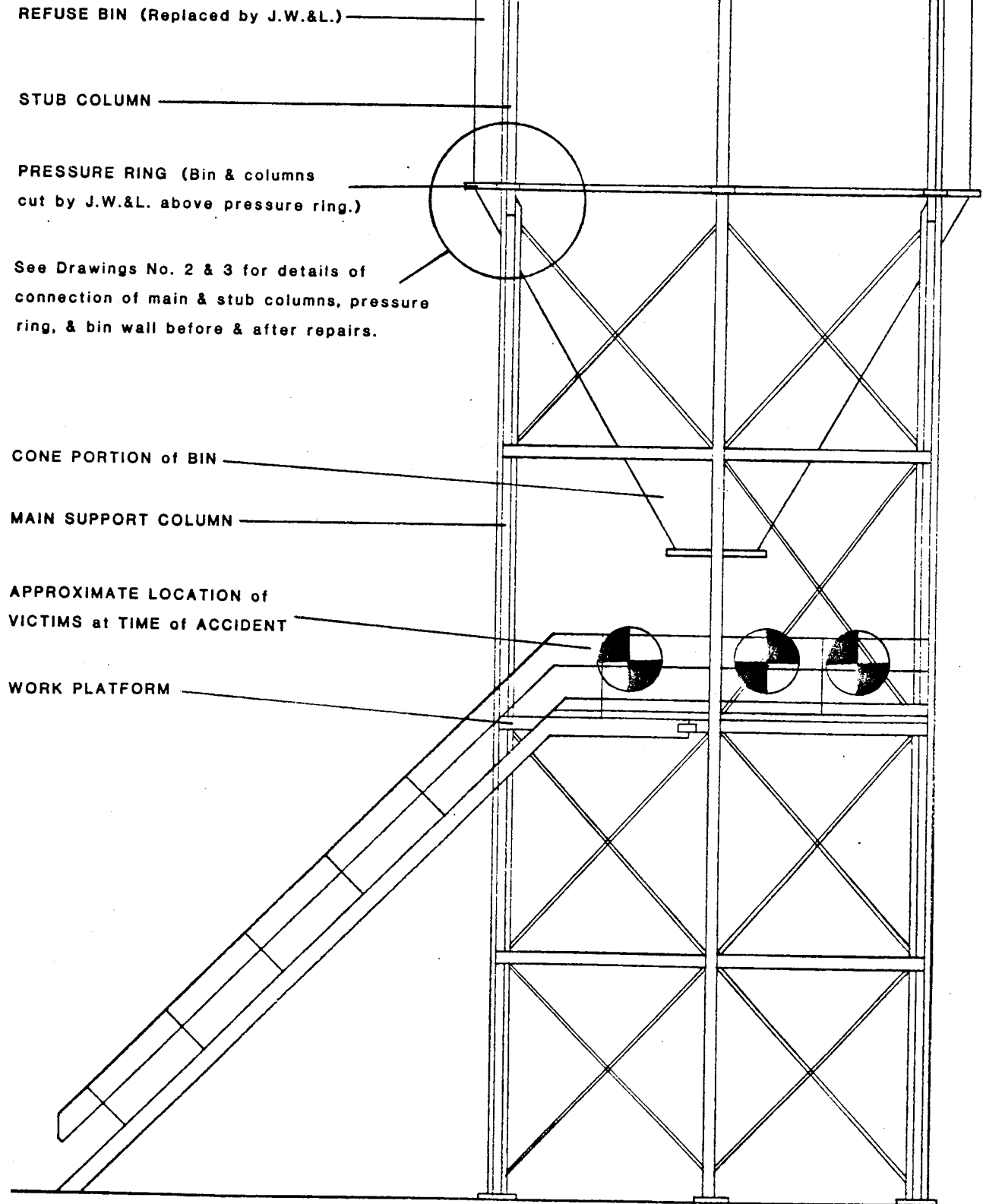
Virginia Pocahontas No. 1 Mine (44-00246)

Island Creek Coal Company

Oakwood, Buchanan County, Virginia

8/24/82

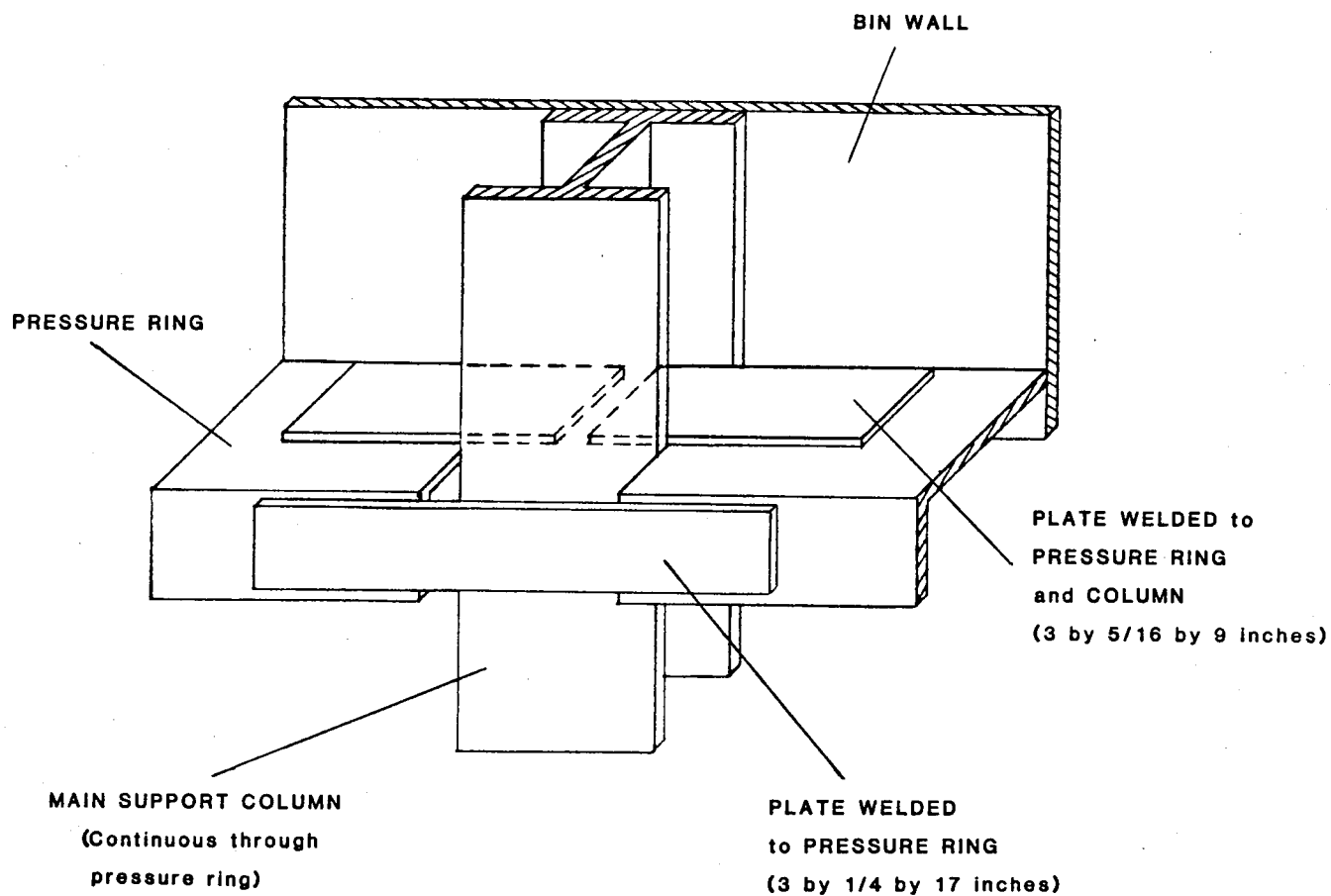
Not drawn to scale.



## Appendix

### DRAWING NO. 2

Connection of Main & Stub Columns, Pressure Ring, & Bin Wall Before Repairs

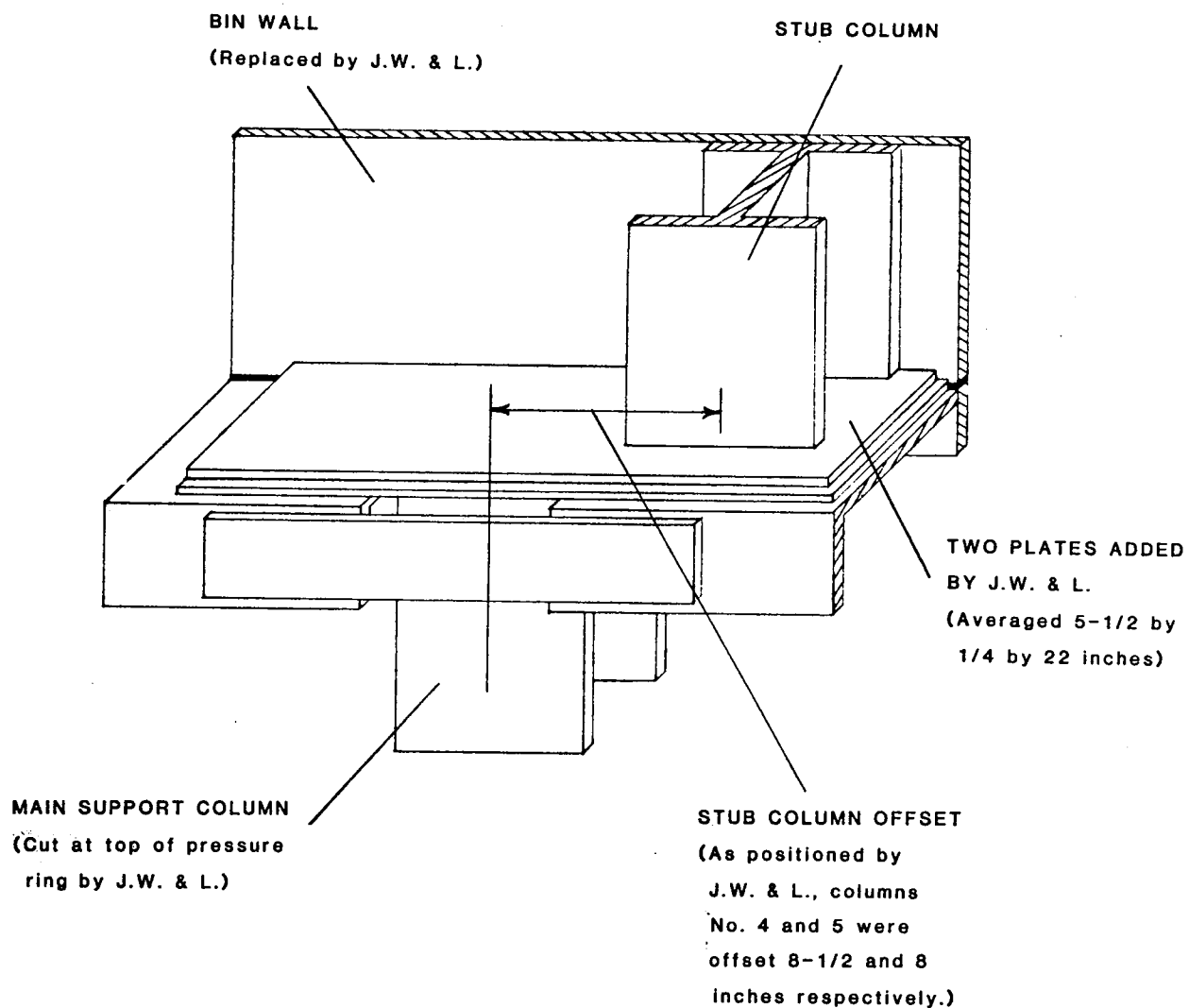


Fatal Fall of Material Accident  
Virginia Pocahontas No. 1 Mine (44-00246)  
Island Creek Coal Company  
Oakwood, Buchanan County, Virginia  
8/24/82  
Not drawn to scale

# Appendix

## DRAWING NO. 3

Connection of Main & Stub Columns, Pressure Ring, & Bin Wall After Repairs

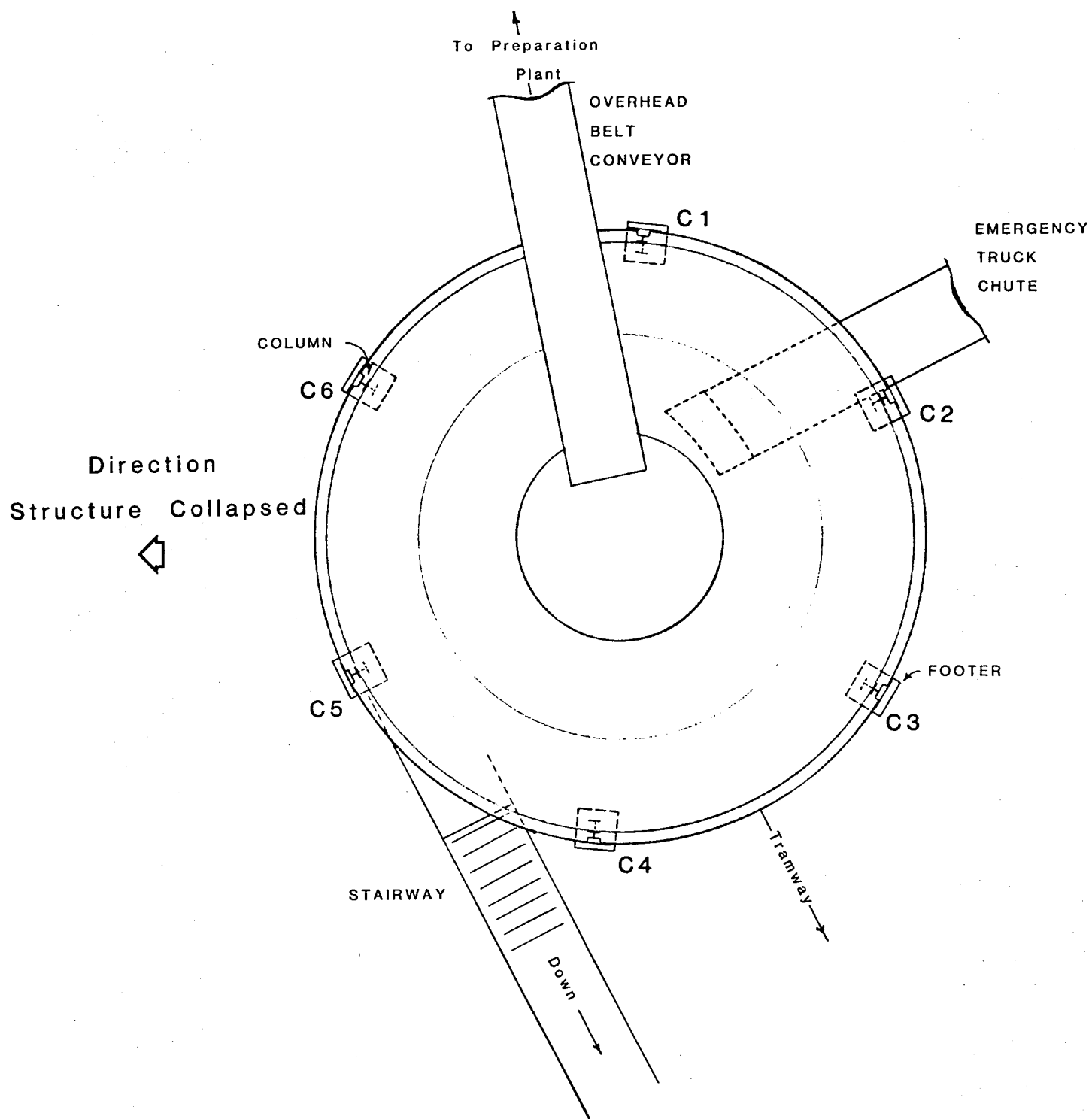


Fatal Fall of Material Accident  
Virginia Pocahontas No. 1 Mine (44-00246)  
Island Creek Coal Company  
Oakwood, Buchanan County, Virginia  
8/24/82  
Not drawn to scale

# Appendix

## DRAWING NO. 4

Overhead Diagram



Fatal Fall of Material Accident

Virginia Pocahontas No. 1 Mine (44-00246)

Island Creek Coal Company

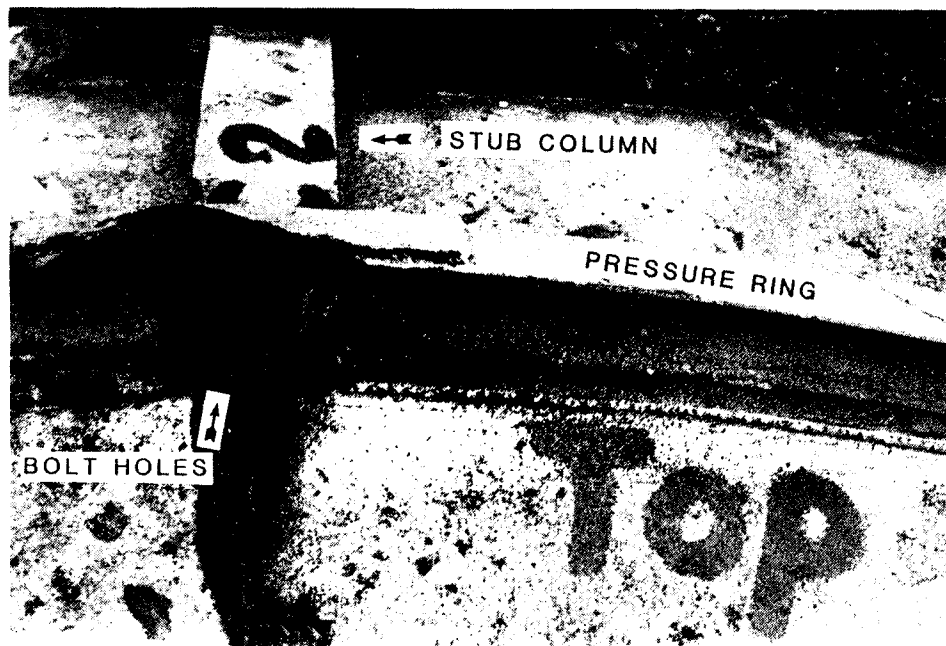
Oakwood, Buchanan County, Virginia

8/24/82

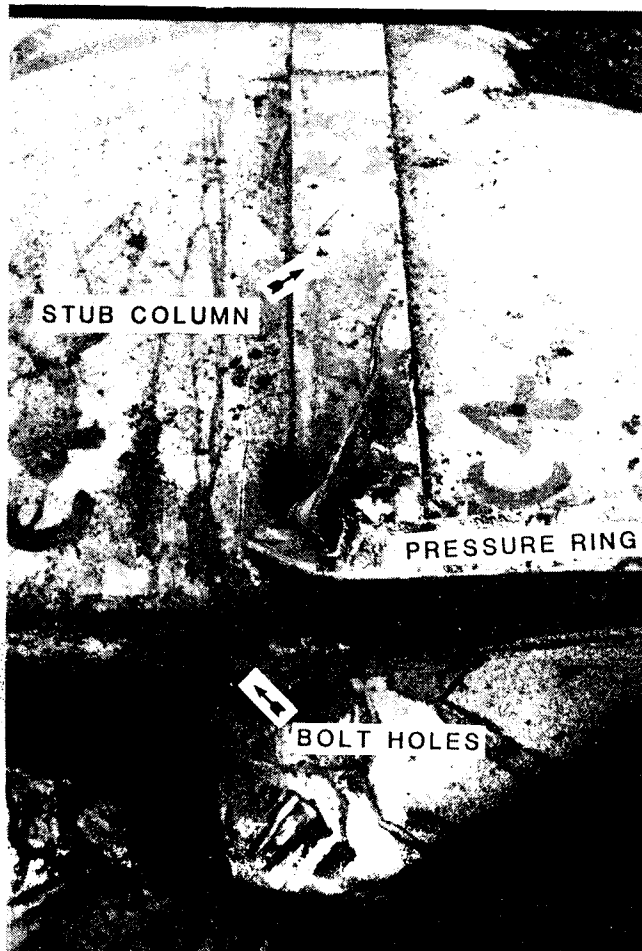
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## Appendix

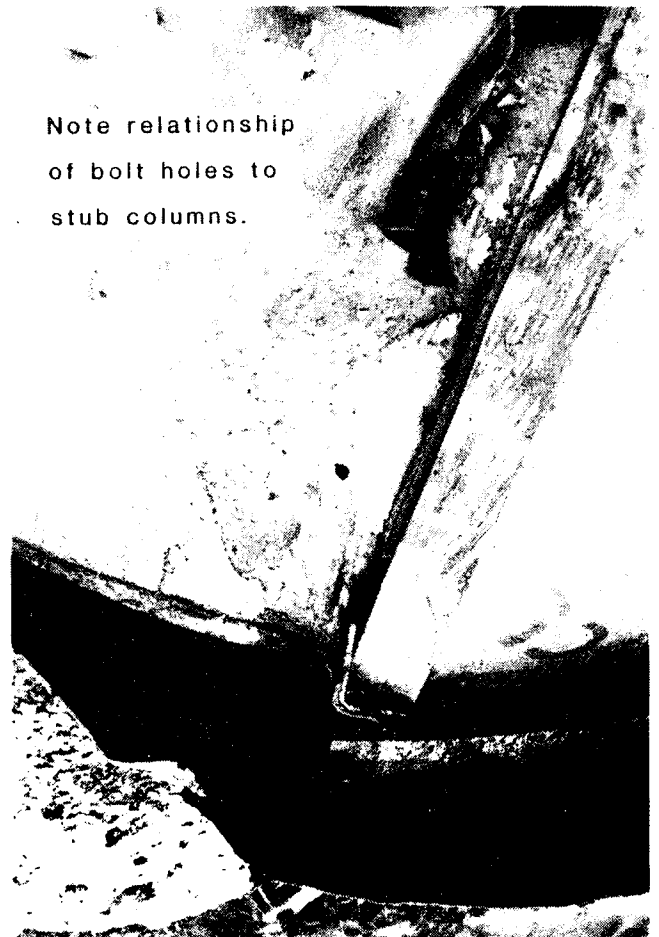
### Typical: Aligned Stub Column



### Two Misaligned Stub Columns



Note relationship  
of bolt holes to  
stub columns.



Form No. 2000-68  
June 1977

## Data Sheet



## SECTION A—VICTIM DATA

1. Name: Charles T. Crawford 2. Sex: ☒ M ☐ F 3. SSN: 8611

4. Age: 45 5. Job classification: Tipple Mechanic

6. Experience at this classification: 2 yrs. 9 mos. 7. Total mining experience: 24 years

8. What activity was being performed at time of accident? Attempting to free blockage in refuse bin.

9. Victim's experience at this activity: 2 yrs. 9 mos.

10. Was victim trained in this task? Yes

11. Health and Safety courses/Training received (related to accident) \_\_\_\_\_ Date received \_\_\_\_\_

Annual Refresher Training - Surface 06/14/82

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## SECTION B—SUPERVISOR DATA (supervisor of victim)

12. Name: Joe Shortt 13. Certified: ☒ Yes ☐ No

14. Experience as supervisor: 8 yrs. 15. Total mining experience: 15 years

16. Health and Safety courses/Training received (related to accident) \_\_\_\_\_ Date received \_\_\_\_\_

Supervisory Retraining - Surface 04/06/82

\_\_\_\_\_

\_\_\_\_\_

17. When was the supervisor last present at accident scene prior to the accident? 1:00 p.m.

18. What did he do when he was there? Gave instructions to Crawford

\_\_\_\_\_

19. When was he last in contact with the victim? 1:00 p.m.

20. Did he issue instructions relative to the accident? No

21. Was he aware of or did he express an awareness of any unsafe practice or condition? No

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Appendix

Form No. 2000-68  
June 1977

## Data Sheet



### SECTION A—VICTIM DATA

1. Name: James Perkins 2. Sex ☒ M ☐ F 3. SSN: 3329  
4. Age: 52 5. Job classification: Tipple Mechanic  
6. Experience at this classification: 1 yr. 7 mos. 7. Total mining experience: 34 years  
8. What activity was being performed at time of accident? Attempting to free blockage in refuse bin  
9. Victim's experience at this activity: 1 yr. 7 mos.  
10. Was victim trained in this task? Yes  
11. Health and Safety courses/Training received (related to accident) \_\_\_\_\_ Date received  
Annual Refresher Training - Surface 04/07/82

### SECTION B—SUPERVISOR DATA (supervisor of victim)

12. Name: Joe Shortt 13. Certified: Yes ☒ No ☐  
14. Experience as supervisor: 8 yrs. 15. Total mining experience: 15 years  
16. Health and Safety courses/Training received (related to accident) \_\_\_\_\_ Date received  
Supervisory Training - Surface 04/06/82  
17. When was the supervisor last present at accident scene prior to the accident? 1:00 p.m.  
18. What did he do when he was there? Gave instructions to Crawford  
19. When was he last in contact with the victim? 12:00 p.m.  
20. Did he issue instructions relative to the accident? No  
21. Was he aware of or did he express an awareness of any unsafe practice or condition? No

Form No. 2000-68  
June 1977

## Data Sheet



## SECTION A—VICTIM DATA

1. Name: James J. Brescoach 2. Sex M ☒ F ☐ 3. SSN: 5321  
4. Age: 50 5. Job classification: Car Tagger  
6. Experience at this classification: 15-1/2 yrs. 7. Total mining experience: 15-1/2 years  
8. What activity was being performed at time of accident? Attempting to free blockage in refuse bin.  
9. Victim's experience at this activity: Unknown  
10. Was victim trained in this task? No  
11. Health and Safety courses/Training received (related to accident) \_\_\_\_\_ Date received  
Annual Refresher Training - Surface 03/05/82

## SECTION B—SUPERVISOR DATA (supervisor of victim)

12. Name: Joe Shortt 13. Certified: Yes ☒ No ☐  
14. Experience as supervisor: 8 yrs. 15. Total mining experience: 15 years  
16. Health and Safety courses/Training received (related to accident) \_\_\_\_\_ Date received  
Supervisory Retraining - Surface 04/06/82  
17. When was the supervisor last present at accident scene prior to the accident? 1:00 p.m.  
18. What did he do when he was there? Gave instructions to Crawford  
19. When was he last in contact with the victim? 8:30 a.m.  
20. Did he issue instructions relative to the accident? No  
21. Was he aware of or did he express an awareness of any unsafe practice or condition? No

# Appendix

Charles T. Crawford

## Section I (Coal Only)

MSHA and/or State Certification and/or Qualification

Mine ID 44-00246

Date Training Plan Approved 03/31/80

Date Training Received \_\_\_\_\_

Date Training Received \_\_\_\_\_

☐ Certified Person (Underground) \_\_\_\_\_

☐ Dust (Sampling) \_\_\_\_\_

☐ Certified Person (Surface) \_\_\_\_\_

☐ Dust (Calibration) \_\_\_\_\_

☒ Methane & Oxygen Deficiency Testing

05/19/80

\* ☐ Impoundments \_\_\_\_\_

☐ Electrical \_\_\_\_\_

\* ☐ Hoisting Engineer \_\_\_\_\_

☐ Energized Surface High Voltage \_\_\_\_\_

Annual Retraining Required

## Section II (Metal-Non-metal and Coal)

MSHA Training Programs Completed

Date of Hire \_\_\_\_\_

Date Training Plan Approved 01/10/79

Required Training (Victim) \_\_\_\_\_

Date Training Received \_\_\_\_\_

☐ Required Training (Victim) \_\_\_\_\_

Date Training Received \_\_\_\_\_

☐ New Miner (U.B.) \_\_\_\_\_

☐ Hazard Training (U.G.) \_\_\_\_\_

☐ New Miner (Sur.) \_\_\_\_\_

☐ Hazard Training (Sur.) \_\_\_\_\_

☐ Newly Employed Experienced (U.G.) \_\_\_\_\_

☐ Newly Employed Experienced (Sur.) \_\_\_\_\_

☐ Annual Refresher (U.G.) \_\_\_\_\_

Task Training

Specify Type:

Electrical Retraining (Surface) 11/14/81

☒ Annual Refresher (Sur.) 06/14/82

## Section III

Company Training Program Completed:

Training

OJT/Formal

Instructor

Date Completed

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DID VICTIM HAVE TRAINING SPECIFICALLY RELATED TO THE TASK BEING PERFORMED  
AT THE TIME OF THE ACCIDENT?

☒ YES ☐ NO WHEN? 06/14/82

BY WHOM? J. E. King, Jr. HOW WAS TRAINING GIVEN? During Annual  
Refresher Training

Section V

RECOMMEND TRAINING PLAN EVALUATION BY EDUCATION & TRAINING OFFICE

☐ YES ☒ NO

# Appendix

James J. Perkins

## Section I (Coal Only)

MSHA and/or State Certification and/or Qualification

Mine ID 44-00246

Date Training Plan Approved 03/31/80

Date Training Received \_\_\_\_\_

Date Training Received \_\_\_\_\_

☐ Certified Person (Underground)

☐ Dust (Sampling)

☐ Certified Person (Surface)

☐ Dust (Calibration)

☒ Methane & Oxygen Deficiency Testing

05/07/80

\* ☐ Impoundments

☐ Electrical

\* ☐ Hoisting Engineer

☐ Energized Surface High Voltage

Annual Retraining Required

## Section II (Metal-Non-metal and Coal)

MSHA Training Programs Completed

Date of Hire \_\_\_\_\_

Date Training Plan Approved 01/10/79

Required Training (Victim)

Date Training Received \_\_\_\_\_

☐ Required Training (Victim)

Date Training Received \_\_\_\_\_

☐ New Miner (U.B.)

☐ Hazard Training (U.G.)

☐ New Miner (Sur.)

☐ Hazard Training (Sur.)

☐ Newly Employed Experienced (U.G.)

☐ Newly Employed Experienced (Sur.)

☐ Annual Refresher (U.G.)

Task Training Specify Type:  
Electrical Retraining (Surface) 09/12/81

☒ Annual Refresher (Sur.) 04/07/82

## Section III

Company Training Program Completed:

Training

OJT/Formal

Instructor

Date Completed

Section IV

DID VICTIM HAVE TRAINING SPECIFICALLY RELATED TO THE TASK BEING PERFORMED  
AT THE TIME OF THE ACCIDENT?

☒ YES ☐ NO WHEN? 04/07/82

BY WHOM? H. Lee Blackburn HOW WAS TRAINING GIVEN? During Annual  
Refresher Training

Section V

RECOMMEND TRAINING PLAN EVALUATION BY EDUCATION & TRAINING OFFICE

☐ YES ☒ NO

# Appendix

James J. Brescoach

## Section I (Coal Only)

MSHA and/or State Certification and/or Qualification

Mine ID 44-00246

Date Training Plan Approved 03/31/80

Date Training Received \_\_\_\_\_

Date Training Received \_\_\_\_\_

☐ Certified Person (Underground)

☐ Dust (Sampling)

☐ Certified Person (Surface)

☐ Dust (Calibration)

☐ Methane & Oxygen Deficiency Testing

☐ Noise

☐ Electrical

\* ☐ Impoundments

☐ Energized Surface High Voltage

\* ☐ Hoisting Engineer

Annual Retraining Required

## Section II (Metal-Non-metal and Coal)

MSHA Training Programs Completed

Date of Hire \_\_\_\_\_

Date Training Plan Approved 01/10/79

Required Training (Victim)

Date Training Received \_\_\_\_\_

☐ Required Training (Victim)

Date Training Received \_\_\_\_\_

☐ New Miner (U.B.)

☐ Hazard Training (U.G.)

☐ New Miner (Sur.)

☐ Hazard Training (Sur.)

☐ Newly Employed Experienced (U.G.)

☐ Newly Employed Experienced (Sur.)

☐ Annual Refresher (U.G.)

Task Training Specify Type:

☒ Annual Refresher (Sur.) 03/05/82

## Section III

Company Training Program Completed:

Training

OJT/Formal

Instructor

Date Completed

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Section IV

DID VICTIM HAVE TRAINING SPECIFICALLY RELATED TO THE TASK BEING PERFORMED  
AT THE TIME OF THE ACCIDENT?

☐ YES ☒ NO WHEN? \_\_\_\_\_

BY WHOM? \_\_\_\_\_ HOW WAS TRAINING GIVEN? \_\_\_\_\_

Victim was performing a task outside his normal routine.

Section V

RECOMMEND TRAINING PLAN EVALUATION BY EDUCATION & TRAINING OFFICE

☐ YES ☒ NO