March 31, 2005

Fatal Roof Fall Investigation Report
Coal River Mining, LLC
Tiny Creek No. 2 Mine
Permit No. U-5037-98B

Region Three – Danville Office
137 Peach Court, Suite 2
Danville, West Virginia 25053
Harry Linville, Inspector-at-Large
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Fatal Roof Fall Investigation Report  
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Tiny Creek No. 2  
Permit No. U-5037-98B

GENERAL INFORMATION

A fatal roof fall accident occurred on March 31, 2005 at the Coal River Mining, LLC, Tiny Creek No. 2 mine located near Sumerco in Lincoln County, West Virginia. The accident happened at approximately 5:30 to 5:45 p.m. Mr. Richard Hughes, a 49 year old continuous mining machine operator was fatally injured when an unintentional roof fall occurred in the no. 6 entry intersection on the 3rd Northwest Mains section. This is West Virginia’s first coal mine fatality in 2005.

Mr. Hughes had been employed at the Tiny Creek No. 2 mine since October 20, 2004 and had approximately 25 years of overall coal mining experience. Mr. Hughes resided at Turkey Creek, Kentucky.

Jim Bunn II of Coal River Mining, LLC, at approximately 7:29 p.m. on March 31, 2005, notified the Office of Miners’ Health, Safety and Training’s Inspector-at-Large, Harry Linville, of the accident. A joint investigation with the Mine Safety and Health Administration (MSHA) was started immediately.

Coal River Mining, LLC was originally permitted to commence operation of the Tiny Creek No. 2 mine on May 13, 2004. The mine employs 53 people on three shifts. One underground unit is currently in operation and coal is mined in the Number 5 Block seam.

DESCRIPTION

The 3rd Northwest Mains section evening shift crew entered the Tiny Creek No. 2 mine on March 31, 2005 at their normal starting time of 3:30 p.m. under the direction of section foreman, Douglas Perkins. They arrived at the 3rd Northwest Mains section around 3:55 to 4:00 p.m. Members of the evening shift crew included scoop/shuttle car operator, Earl Perry; shuttle car operator, Billy McClanahan; shuttle car operator, Patrick Rankin; roof bolter operator, Frank Spence; roof bolter operator, Henry Trout; roof bolter operator, Marvin Shawn Bench; roof bolter operator, Harold May; electrician, Eddie Eversole; continuous mining machine operator, John Vandal; and trainee (red-hat), James Fowler.

Upon arrival Perkins met briefly with day shift section foreman, Keith Pack, at the section power center. The two section foremen went over Pack’s section map and discussed where the evening shift crew would be mining. Pack told Perkins and continuous mining machine operator, Richard Hughes, that the continuous mining machine was located in the no. 1 left working place. Pack stated that he heard Perkins instruct Hughes to move the continuous mining machine from the no. 1 left location to the 5 right crosscut, which had been started on the dayshift and mined to a depth of approximately 35 feet. (Crosscuts are mined on 60-foot centers resulting in 40-foot wide blocks.) Pack stated that he heard Perkins instruct Hughes to mine the 5 right crosscut through, then back the mining machine out of the place and mine a short cut in the no. 5 entry face while the 5 right crosscut was being roof bolted. Section electrician, Eddie Eversole, also stated that he heard Perkins’ instructions to Hughes.
Perkins and Rankin stated that Hughes performed service work on the continuous mining machine (set bits, cleaned sprays and scrubber) before starting the move from 1 left to 5 right. Right side roof bolting machine operators, Spence and Trout, helped with the mining machine cable during the move. Spence and Trout stated that they heard Perkins say in Hughes' presence that crosscut 5 right would be mined through first and then the machine would be backed out to allow the roof bolting machine to bolt 5 right while a short cut was mined in the no. 5 face. Spence and Trout then parked their bolting machine in the crosscut between entries 4 and 5 (one crosscut outby the line of crosscuts where the mining was to be done) to wait for the completion of mining in 5 right.

No person interviewed was able to say what time coal production began in the 5 right crosscut. Given an approximated travel time to the section from the surface of approximately 25 minutes and time spent servicing the mining machine before the start of the move it is highly unlikely that mining started before 4:30 p.m.

Shuttle car operators, McClanahan and Rankin, stated that the section foreman, Perkins, was present in the 5 right crosscut area where mining was intended but left the area before mining actually commenced. Perkins left the area and found scoop operator Earl Perry. Perkins instructed Perry to begin operating a third shuttle car after supplying the roof bolting machines. Perry began operating a third shuttle car sometime later.

Left side roof bolting machine operators, Marvin Shawn Bench and Harold May, found their machine in the no. 1 entry at the start of the shift. They finished bolting the no. 1 face and moved their machine to the 1 left face where the continuous mining machine had been at the start of the shift. Bench and May noticed the roof “working” at this location and backed away from their machine to watch the roof. Perkins joined them a few minutes later. Bench and May stated that Perkins remained with them to watch the roof for approximately 30 to 35 minutes. After this period of observation they determined that the roof was okay and Perkins left the no. 1 entry. Bench and May stated that they heard a roof fall within 5 minutes or less after Perkins left.

Perkins stated that as he was moving from left to right across the section and was in the vicinity of the section power center in no. 5 entry when he heard a roof fall. He ran in the inby direction toward the no. 5 entry face and turned right into the crosscut 5 right where he encountered a roof fall. He then retraced his steps outby and proceeded up the no. 6 entry to the fall area where he could see Mr. Hughes under the fall that covered the entire no. 6 entry face and intersection created by the mining of 5 right into the no. 6 entry.

Shuttle car operator, Earl Perry, was positioned in his shuttle car in the crosscut 5 right at the time of the roof fall. Perry stated that Hughes had mined the crosscut 5 right through into the no. 6 entry and continued to mine across the no. 6 entry that had not been advanced far enough for an even cut through. Perry stated that Hughes had mined an area in the no. 6 entry face approximately as wide as the continuous mining machine ripper head and had also mined a crosscut from the no. 6 entry completely through into the no. 7 entry. Perry stated that Hughes was in the process of cleaning up the 6 right crosscut when the fall occurred. Perry stated that Hughes was positioned in the no. 6 entry and appeared to take a step toward the face in the inby direction when the roof fall occurred without warning.

No person interviewed could provide an exact time for the accident. Estimates ranged from 5:30 to 5:45 p.m. All persons involved in the recovery stated that Mr. Hughes' injuries were obviously instantly fatal. The body was eventually recovered and brought to the surface at approximately 10:00 p.m. The Lincoln County Medical Examiner made a pronouncement of
death at the mine, and the body was transported to the West Virginia Medical Examiner’s office in Charleston for an autopsy.

FINDINGS OF FACT

1. See Attachment No. 1. (Memorandum from OMHST, Chief Engineer, Monte Hieb, to Harry Linville and Terry Farley regarding geological conditions relevant to this accident.)
2. The victim, Richard Hughes, was operating via remote control a Model 14-1511CX Joy continuous mining machine, serial no. JM5073A, at the time of this accident. The machine measures 35 feet, 9 inches in length.
3. Crosscuts on the 3rd. North Mains section were turned/mined on 100 foot centers with the connection to the adjacent entries mined on 60 foot centers. This creates pillars that should measure 80 feet long by 40 feet wide.
4. The mine’s approved roof control plan allows extended cut mining via remote control to a maximum depth of 40 feet.
5. The dayshift crew had mined the no. 5 right crosscut to an approximate depth of 35 feet on March 31, 2005 leaving an approximate mine through distance of 5 feet to connect to the no. 6 entry.
6. The no. 6 entry face had been advanced to a point approximately 99 feet from a spad located in the last open crosscut according to engineer, Tim Tackett, who estimated the distance on March 31, 2005. This left the entry 10 feet short of a point where the connection to the 5 right crosscut would be even and a crosscut from the no. 6 entry to the no. 7 entry could be started.
7. The mine through from the 5 right crosscut into the no. 6 entry was accomplished by advancing the continuous mining machine approximately 5 feet creating an opening approximately 8 to 9 feet wide on the right side of the cut. An area approximately 10 to 11 feet wide was then mined as the continuous mining machine was advanced across the width of the no. 6 entry face which measured 19 feet wide. Mining then proceeded through the block from no. 6 entry connecting to no. 7 entry. The total distance of unsupported area created by the mining measured approximately 70 feet.
8. Earl Perry, Billy McClanahan, and Patrick Rankin were operating three shuttle cars at the time of the accident and traveled through the 5 right crosscut, no. 6 entry face, and 6 right crosscut to be loaded by the continuous mining machine. The total length of the shuttle cars is 37 feet, 8 inches.
9. Based on the location of the body, the victim, Richard Hughes, was positioned inby the next to last row of permanent roof supports, if not inby the last row of permanent roof supports at the time of the roof fall.

CONCLUSION

The victim sustained fatal crushing injuries from a roof fall accident while operating a continuous mining machine in the no. 6 entry intersection.
ENFORCEMENT ACTIONS

During the course of this investigation 8 notices of violation were cited, 5 of the violations were determined to have contributed to this occurrence. Three Individual Personal Assessments were issued. (See Attachment No. 2)

RECOMMENDATIONS

Coal River Mining, LLC submitted the following remedial measures.

1. The Tiny Creek No. 2 mine roof control plan will be modified. (See Attachment No. 3)
2. Additional instruction of approximately 2 hours (or more if needed to develop an understanding of these topics) will be provided for all current employees on the mine’s roof control plan, ventilation and cut sequences. This instruction will include all changes to the roof control plan. An additional 2 hours of instruction for new employees will be given at the time of employment on the mine’s roof control plan.
3. These remedial measures will be incorporated into the mine’s state comprehensive safety program.

ACKNOWLEDGMENT

The Office of Miners’ Health, Safety and Training gratefully acknowledges the cooperation of the employees and management of Coal River Mining, LLC, Quality Enterprises, Inc., and the Mine Safety and Health Administration during this investigation.

Terry Farley, Health and Safety Administrator 5-26-05

Harry Lineville, Inspector-at-Large 5/25/05

Kerry Herron, District Inspector 5/25/05

Larry McKnight, Roof Control Inspector 5/25/05

Eugene White, District Inspector 5/25/05
• Mine Information Sheet
• Victim Information Sheet
• Persons Present During Investigation
• Attachments
MINE INFORMATION

COMPANY __ Coal River Mining, LLC

MINE NAME __ Tiny Creek No. 2

WV PERMIT __ U-5037-98B __ MSHA PERMIT NO __ 46-08835

ADDRESS __ P. O. Box 79 __ Alum Creek, WV 25003

COUNTY ____________ Lincoln ____________ PHONE NO ____________ (304) 756-9100

DATE PERMIT ISSUED ________ April 14, 2004

WORKING STATUS __ Active

LOCATION ____________ No. 1 Justice Road __ Corridor G

UNION ________________ NON-UNION ____________ X

DAILY PRODUCTION 1500 tons __ ANNUAL PRODUCTION TO DATE __ 115,816.30 tons

TOTAL EMPLOYEES ____________ 53

NUMBER OF SHIFTS ____________ 3

COAL SEAM NAME AND THICKNESS ____________ No. 5 Block __ 48 inches

ACCIDENT INCIDENT RATE __ 2.78 __ LOST TIME ACCIDENTS __ 1

TYPE OF HAULAGE ____________ Conveyor belts

WVOMHST INSPECTOR ____________ Kerry Herron

DATE OF LAST INSPECTION ________ March 29, 2005

NOTIFIED BY ____________ Jim Bunn II

NOTIFICATION TIME ____________ Approximately 7:29p.m. on March 31, 2005

CMSP – ANNIVERSARY DATE ________ April 9, 2005

CMSP – CONTACT PERSON ____________ Larry Blackburn
INVESTIGATION

The following persons were present for the onsite investigation conducted on March 31, 2005.

COAL RIVER MINING, LLC

Jim Bunn II  
Larry Blackburn  
Scott Brown  
Vice President  
Superintendent  
Mine Foreman

MINE SAFETY AND HEALTH ADMINISTRATION

Jesse Cole  
Charles W. Cline  
Roger Richmond  
Terry Price  
T. L. Workman  
Bobby Moreland  
Herman Miller  
District 4 Manager  
Roof Control Specialist  
Accident Investigator  
Supervisor  
Coal Mine Inspector  
Coal Mine Inspector  
Coal Mine Inspector

MINERS’ HEALTH, SAFETY AND TRAINING

Terry Farley  
Harry Linville  
Kerry Herron  
Eugene White  
Willie Barker  
Health and Safety Administrator  
Inspector-at-Large  
District Inspector  
District Inspector  
Safety Instructor

The following persons were present for the onsite investigation conducted on April 1, 2005.

COAL RIVER MINING, LLC

Mark Blackburn  
Third Shift Mine Foreman

MINERS’ HEALTH, SAFETY AND TRAINING

Larry McKnight  
Roof Control Inspector
INTERVIEWS

The following persons were present for the interviews conducted on April 2, 2005.

COAL RIVER MINING, LLC

Jim Bunn II
Billy McClanahan *
Patiick Rankin *
Earl Perry *
Doug Perkins *
Emory Keith Pack *
Tim Tackett *
Mark Heath
Dnruse Smith Kushick
Gary L. Tincher
E. Forrest Jones, Jr.
Karon Vorholt
(* Denotes those interviewed)

Vice President
Shuttle Car Operator
Shuttle Car Operator
Shuttle Car/Scoop Operator
Second Shift Section Foreman
Day Shift Section Foreman
Engineer (P. & A. Engineers)
Attorney
Attorney
Safety Consultant
Jones & Associates
Court Reporter

MINE SAFETY AND HEALTH ADMINISTRATION

Roger Richmond
Charles W. Cline
Bobby Moreland

Accident Investigator
Roof Control Specialist
Coal Mine Inspector

MINERS’ HEALTH, SAFETY AND TRAINING

C. A. Phillips
Terry Farley
Harry Linville
Larry McKnight
Eugene White

Deputy Director
Health and Safety Administrator
Inspector-at-Large
Roof Control Inspector
District Inspector

INVESTIGATION

The following persons were present for the investigation conducted on April 3, 2005.

COAL RIVER MINING, LLC

Jim Bunn II
Larry Blackburn
Scott Brown

Vice President
Superintendent
Mine Foreman
MINERS’ HEALTH, SAFETY AND TRAINING

Terry Farley
Harry Linville
Larry McKnight
Monty Hieb

Health and Safety Administrator
Inspector-at-Large
Roof Control Inspector
Chief Engineer

INTERVIEWS

The following persons were present for the interviews conducted on April 7, 2005.

COAL RIVER MINING, LLC

Jim Bunn II
Larry Blackburn
Marvin Shawn Bench *
Harold May *
Frank E. Spence *
Henry Trout *
John Vandal *
Douglas Perkins *
Jerry Cisco *
Eddie D. Eversole *
James Fowler *
Steve Dolin *
Mark Heath
Gary Tincher
E. Forrest Jones, Jr.
Karon Vorholt
(* Denotes those interviewed)

Vice President
Superintendent
Roof bolter Operator
Roof bolter Operator
Roof bolter Operator
Roof bolter Operator
Continuous Miner Operator
Section Foreman
Second Shift Mine Foreman
Electrician (Quality Enterprises)
Apprentice Miner (Quality Enterprises)
Security Guard (Security Group Services)
Attorney
Safety Consultant
Jones & Associates
Court Reporter

MINERS’ HEALTH, SAFETY AND TRAINING

Roger Richmond
Charles W. Cline
Bobby Moreland

Accident Investigator
Roof Control Specialist
Coal Mine Inspector
MINERS’ HEALTH, SAFETY AND TRAINING

C. A. Phillips  
Terry Farley  
Harry Linville  
Eugene White  

Deputy Director  
Health and Safety Administrator  
Inspector-at-Large  
District Inspector

MEETING

The following persons were present for a roof control meeting at the MSHA District 4 office in Mt. Hope on April 12, 2005.

COAL RIVER MINING, LLC

Jim Bunn II  
Larry Blackburn  
Mark Heath  

Vice President  
Superintendent  
Attorney

MINE SAFETY AND HEALTH ADMINISTRATION

Jesse Cole  
Luther Mars  
Richard Kline  
Terry Price  
Roger Richmond  
Jon Braenovich  
Charles W. Cline  

District Manager  
Assistant District Manager  
Assistant District Manager  
Supervisor  
Accident Investigator  
Roof Control Specialist  
Roof Control Specialist

MINERS’ HEALTH, SAFETY AND TRAINING

Terry Farley  
Harry Linville  
Larry McKnight  

Health and Safety Administrator  
Inspector-at-Large  
Roof Control Inspector
MEMO
TO: Harry Linville, Terry Farley
FROM: Monte Hieb
DATE: April 4, 2005
SUBJECT: Tiny Cr. #2 Roof Fall; 3-31-05, 001 Section, MMU 003-0

Below are a few illustrations and photos summarizing observations made yesterday at Tiny Creek No. 2 Mine.

The seam section in Figure 1, below summarizes the stratigraphic geology as observed ½ break outby the site of the accident.

Figure 1. Stratigraphic section measured ½ break outby site of accident. The slab that fell was comprised mostly of the "sandy mudstone" unit, which is bounded on top by a horizontal separation containing plant debris, and bounded on three sides by sub-vertical slickensided slip planes (see Figure 2).
As shown, the immediate roof is approximately 16-in. of gray shale which in #6 entry appeared to have been taken down on-cyle as drawslate. Overlying it is a sandstone unit that on by first appearances looks competent, but in actuality it is more like a “sandy mudstone” exhibiting poor tensile strength due to high clay content and lack of conspicuous horizontal (bedding) structure. Attempts were made to hold this unit in the entries, but in #6 entry this was largely unsuccessful. It is overlain by a firm, gray shale containing 1/4-in. siderite bands which contains abundant plant fossil debris at this contact.

The rock slab that fell was approximately 65-7 ft. in length and is comprised primarily of the sandy mudstone unit. It’s thickness measured approximately 32-in. on the outby side of the fall, increasing to approximately 60-in. thick on the inby side of the x-cut, although the latter is estimated because the area was not accessible.

As shown in Figure 2, below, the roof cavity left by the fallen slab is bounded on all sides except the pillar line by a series of inter-connected high-angle slickensided slip planes which I believe is the point at which the slab failure initiated. The characteristically polished and slippery slickensided slips are related to differential compaction, but more specific details are not available at this point. Together with a bedding separation at the top of the sandy mudstone unit, these created a large “kettlebottom-like” structure that, without the benefit of bolting, was supported only by the tensile strength of the cantilevered rock mass on the outby side against the line of pillars.

![Diagram](image)

Figure 2. Plan view of fallen slab geometry. The slickensided failure plane around the inby edges of the fall are shown in red. Similar slips were noted outby the fall in #6 entry. The last row of surviving bolts in this entry were directly in line with the ribline.
Figure 3, below, is a generalized illustration from the vantage point of #7 entry, looking back toward #6 entry along the x-cut (right side of the x-cut is inby the fall).

The weight of the essentially-unbolted rock slab appears to have induced separation along the adjacent zones of weakness.

The result was a sudden drop-out of the rock slab, probably detaching simultaneously at the sub-vertical slickensided slips (A) and at the roof (B), and creating a cantilever of rock hinged along the line of pillars (C).

![Diagram](image)

**Figure 3.** This generalized view looking SW down the x-cut from #7 entry intersection illustrates how the "sandy mudstone" unit may have detached in simultaneous shear failure along the high-angle slickensided plane (A) and tensile failure at or near the overlying gray shale contact (B), creating a beam cantilevered along the pillar edge (C).

The cantilever then failed at its hinge (Figure 4). When it did so it pulled down the several roof bolts installed part-way up #6 entry before the x-cut was driven.

![Diagram](image)

**Figure 4.** The rock slab fell when the stress at the cantilever hinge exceeded the rock's tensile strength (see Photo 1, reverse view)

Two (2) roof bolts were visible protruding from the top of the rock slab in the #6 entry intersection (Photo 1) with resin still attached. Other bolts were also visible in the fallen rock slab.
Locally, the shale top over the sandy mudstone also contributed some material to the fall, although this was likely pulled down as an after-effect.

![Image](image.jpg)

**Photo 1.** View from accident site, looking NE down cross-cut between # 6 and # 7 entries. Note the high-angle slip plane dipping away from the fall, allowing the roof slab to behave like a large “kettlebottom.” This created a cantilevered rock beam in the immediate roof along the coal pillar (top right) which failed when the stresses exerted at the cantilever hinge exceeded the tensile strength of the rock.

In Tiny Creek Mine No. 2 the presence of sandstone directly on top of the seam has generally been associated with good roof conditions. Historically, most roof problems here have been due to variable shale roof complicated by one or more riper seams, differential compaction slips associated with sandstone channels higher in the roof, and in lateral transitions from shale to sandstone.

When sandstone directly overlies the coal seam, it is so often so hard that it is difficult to cut with the miner (which was a problem a few years ago when the mining height dropped below 45-in. and the bottom was also hard and equipment had insufficient clearance). The presence of sandstone roof here may or may not have resulted in a feeling of overconfidence about the conditions.
The combination of poor bedding, high clay content, and adjacent high-angle slickensided failure planes at this particular location made this sandstone top dangerous because it was self-supporting just long enough to fail in a massive, sudden way.

Photo 2. View from #6 entry accident site looking SW down cross-cut toward #5 entry. The intersecting high-angle failure planes created conditions analogous to very a large kettlebottom

The problem here (in addition to the extremely long cut taken) is the poorly-beded nature of the rock involved. Actually, ANY rock which does not exhibit horizontal bedding should be treated with extra caution. Lack of horizontal bedding is indicative of one of two things:

1) the sediments were simply dumped in place in a rapid, high-energy event (mudstone), or,

2) the sediments were originally laid in place as stratified layers, but the bedding was disturbed or destroyed by subsequent root action of from fossil plants (“paleo-soil”) in which case the tell-tail root casts are often visible.
Either way, rock which is not stratified (with discernable horizontal bands) is often weak rock. Rock strata that does not exhibit bedding, and/or exhibits “rooting” should always be suspected of poor strength.

Exceptions to this include strong, massive sandstone which may not have distinct bedding layers, but it can be distinguished from “sandy mudstone” because its grains are held together by a cement matrix of some kind (iron, calcium carbonate, etc.) and a hammer blow that returns a sharp rebound and ringing response is characteristic. A non-bedded sandstone that returns more of a “thud” and dents easily, on the other hand, indicates clay content rather than cement in its matrix (e.g. “sandy mudstone”). Because cement has good cohesion and clay does not, this makes the difference between a sandstone which is strong and one which is weak, respectively.

The NIOSH Coal Mine Roof Rating (CMRR) is one viable means to identify these potentially hazardous strata.

Photo 3. View from accident site looking inby down entry across rock fall. Prominent high-angle failure plane visible. The dark, diagonal structures are fossil tree roots. Although not visible in this photo the rootlets radiating off these roots can cause significant bedding disruption and loss of effective rock strength.
Conclusions:

It is not intended to over-state the case or “weak rock” here, but the perception that “solid sandstone” top was present at this location may have contributed to an illusion that very long cuts in this cross-cut could be made safely. This is an unfortunate example of how the combination of sub-vertical roof defects, together with immediate roof rock that is not as strong as it looks, can result in massive rock mass failure with little or no warning.
NOTICE OF VIOLATION

Company / Operator: Coal River Mining LLC  
Permit Number: 473-98-B  
Mine Name: Tiny Creek #2  
Date of Issue: 4/7/04  
Time: 11:30 AM

Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners' Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A, Article 2, Section 25(c) and/or West Virginia Administrative Regulation: 

During the investigation of a fatal accident that has occurred at this mine on the active 3rd North West Main #6 section on 3/31/05 at approx. 5:30 pm. Evidence at the accident scene revealed that three shuttle car operators had operated I (rammed) their equipment beyond the last row of permanent roof spacers (bolts) during the mining of the 5xR face extending across #6 heading and including the mining of #6 right to #7 which measured approx. 70' in depth.

Type of issuance: NO V  
Order: __________

Area or equipment (if order is issued): __________

The foregoing violation shall be totally abated by 4/18/05 at approx. 4 PM

The foregoing violation was totally abated by __________

Action taken to abate the violation: Revised, proof control plan / retraining meeting held with all employees / contractors working at this mine.

Company / Operator Agent Served: Ryan Browning Chief Electrician

Authorized Representative: Eugene White, LAM Inspector No. 79 138

REVIEW: In accordance with Section 22A-1-17 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners' Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Recommend Special Assessment: X

Likelihood of Occurrence: Unlikely: *(0) Reasonably likely (10) Occurred (20)

Severity of Injury Expected: None: *(0) No lost work days *(6) Lost or restricted days (11)

Permanently disabling (15) Fatal (20)

No. of Persons Potentially Affected: 0 (0) 1 (1) 2 (2) 3 (4) 4-5 (6) 6-9 (8) 9+ (10)

Negligence: None (0) Low (10) Moderate (15) High (20)

Knowing Violation: No _____ Yes _____ Repeat _____

Good Faith in Abatement: Lack of good faith (+15%) No compliance (extenuating circumstances) (0%) Extra effort (-15%)
STATE OF WEST VIRGINIA

OFFICE OF
MINERS' HEALTH, SAFETY AND TRAINING
1615 Washington Street East
Charleston, West Virginia 25311-2126

NOTICE OF VIOLATION

Company / Operator: Coal River Mining LLC
Permit Number: 91-5037-98-B
Mine Name: Tiny Creek, #2
Date of Issue: 4/7/98
Time: 11:35 A.M.

Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners' Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A, Article 2, Section 2.5(c) and/or West Virginia Administrative Regulation: Title , Series , Section , exists as follows:

THE OPERATOR OF A MINE HAS PRIMARY RESPONSIBILITY TO PREVENT PERSONS FROM WORKING UNDER UNSUPPORTED ROOF. THE INVESTIGATION OF A FATAL ACCIDENT REVEALED THAT PERSONS WERE EXPOSED TO UNSUPPORTED ROOF.

Type of Issuance: N O V

Area or equipment (if order is issued):

The foregoing violation shall be totally abated by __________ a.m. __________ p.m. on __________
The foregoing violation was totally abated by __________ a.m. __________ p.m. on __________
Action taken to abate the violation: Revised roof control plan / retraining meeting held with all employees / contractors working at this mine.

Company / Operator Agent Served: Ryan Browning Chief Electrician

Authorized Representative: Eugene White

REVIEW: In accordance with Section 22A-1-17 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners' Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Recommend Special Assessment: X

Likelihood of Occurrence: Unlikely: *(0) Reasonably likely (10) Occurred (20)
Severity of Injury Expected: None: *(0) No lost work days *(6) Lost or restricted days (11)

Permanently disabling (15) Fatal (20)

No. of Persons Potentially Affected: 0 (0) 1 (1) 2 (2) 3 (4) 4-5 (6) 6-9 (8) 9+ (10)

Negligence: None (0) Low (10) Moderate (15) High (20)

Knowing Violation: No ______ Yes ______ Repeat ______

Good Faith in Abatement: Lack of good faith (+15%)

No compliance (extenuating circumstances) (0%) Extra effort (-15%)
STATE OF WEST VIRGINA
OFFICE OF
MINERS’ HEALTH, SAFETY AND TRAINING
1615 Washington Street East
Charleston, West Virginia 25311-2126

NOTICE OF VIOLATION

Company / Operator: Coal River Mining LLC
Contractor: Yes No X
Permit Number: U-5037-98-B
Mine Name: Tiny Creek #2
Date of Issue: 4/28/05 Time: 11:40 AM

Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners’ Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A, Article 2, Section 25(a) and/or West Virginia Administrative Regulation: THE STATE APPROVED ROOF CONTROL PLAN WAS NOT BEING COMPLIED WITH AT THIS MINE IN THAT ON MARCH 31, 2005 AT APPROX. 5:30 PM A CONTINUOUS MINING MACHINE OPERATOR WAS TOTALLY INJURED WHILE MINING IN THE NUMEROUS ENTRY ON THE ACTIVE #358 NORTH WEST MAIN. EVIDENCE AND TESTIMONY REVEALED DURING AN INVESTIGATION WHICH WAS HELD BY PERSONNEL FROM THE OFFICE OF MINERS’ HEALTH, SAFETY AND TRAINING THAT THE CONTINUOUS MINING MACHINE OPERATOR HAD POSITIONED HIMSELF ONLY THE NEXT TO THE LAST FULL ROW OF PERMANENT ROOF SUPPORTS.

Type of Issuance: N.O.V. Order
Area or equipment (if order is issued):

The foregoing violation shall be totally abated by 4:00 p.m. on 4/8/05
Action taken to abate the violation: Reused roof control plan / retraining
Meeting held with all employees / contractors working at this mine

Company / Operator Agent Served: Ryan Browning Chief Electrician
Authorized Representative: Eugene White
Inspector No: 79 138

REVIEW: In accordance with Section 22A-1-17 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners’ Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Likelihood of Occurrence: Unlikely: *0) Reasonably likely (10) Occurred (20)
Severity of Injury Expected: None:*0) No lost work days *6) Lost or restricted days (11)
, Permanently disabling (15) Fatal (20)
No. of Persons Potentially Affected: 0 (0) 1 (1) 2 (2) 3 (4) 4-5 (6) 6-9 (8) 9+ (10)

Negligence: None (0) Low (10) Moderate (15) High (20)

Knowing Violation: No Yes Repeat

Good Faith in Abatement: Lack of good faith (+15%) Extra effort (-15%)
STATE OF WEST VIRGINIA
OFFICE OF
MINERS' HEALTH, SAFETY AND TRAINING
1615 Washington Street East
Charleston, West Virginia 25311-2126

NOTICE OF VIOLATION

Company / Operator: Coal River Mining LLC
Permit Number: 50317-98-B
Mine Name: Tiny Creek #2

Date of Issue: 4/28/2005 Time: 11:45 AM

Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners' Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A, Article 2, Section 25(a), and/or West Virginia Administrative Regulation: exists as follows:

DURING AN ACCIDENT INVESTIGATION OF A FATAL INJURY THAT HAS OCCURRED ON THE ACTIVE 3RD NORTHWEST MAINS SECTION, MEASUREMENTS WERE TAKEN AND A SKETCH WHICH WAS PROVIDED BY THE ENGINEERS OF THE MINE OPERATOR REVEALED APPROX. SEVENTY FEET OF UNSUPPORTED MINE ROOF BETWEEN THE NO. 5X RIGHT CROSSCUT EXTENDING ACROSS NO. 6 ENTRY AND THE MINING OF NO. 6X RIGHT CROSSCUT TO NO. 7 ENTRY. THE STATE APPROVED ROOF CONTROL PLAN STATES THE MAXIMUM DEPTH AT AN EXTENDED CUT AT COAL #40 FEET FROM THE LAST ROW OF PERMANENT SUPPORTS.

Type of Issuance: NOV Order: __________

Area or equipment (if order is issued): __________

The foregoing violation shall be totally abated by 4/28/2005 at 11:45 AM

The foregoing violation was totally abated by __________

Action taken to abate the violation: REVISED ROOF CONTROL PLAN RETRAINING MEETING HELD WITH ALL EMPLOYEES/CONTRACTORS WORKING AT THIS MINE.

Company / Operator Agent Served: Ryan Browning Chief Electrician

Authorized Representative: Eugene White, L.M.P. # 79/38

REVIEW: In accordance with Section 22A-1-17 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners' Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Recommend Special Assessment: [X]

Likelihood of Occurrence: Unlikely: "(0)" Reasonably likely (10) Occurred (20)

Severity of Injury Expected: None: "(0)" No lost work days "(6)" Lost or restricted days (11)

Permanently disabling (15) Fatal (20)

No. of Persons Potentially Affected: 0 (0) 1 (1) 2 (2) 3 (4) 4-5 (6) 6-9 (8) 9+ (10)

Negligence: None (0) Low (10) Moderate (15) High (20)

Knowing Violation: No (0) Yes (15) Repeat

Good Faith in Abatement: Lack of good faith (+15%)

No compliance (extenuating circumstances) (0%) Extra effort (-15%)
STATE OF WEST VIRGINA  
OFFICE OF  
MINERS' HEALTH, SAFETY AND TRAINING  
1615 Washington Street East  
Charleston, West Virginia 25311-2126

NOTICE OF VIOLATION

Company / Operator: Coal River Mining LLC  
Contractor: Yes No X

Permit Number: 4P88  
Mine Name: Pocahontas No. 2

Date of Issue: 4/28/05  
Time: 11:50 AM X A.M. P.M

Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners' Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A, Article 2, Section 25(a) and/or West Virginia Administrative Regulation: exists as follows:

A fatal roof fall accident occurred on March 31, 2005, from evidence gathered during the investigation it was determined that two reflective bolts cut out the face of five crosscut right aid No. 70 entry where the crosscut was mined into the No. 7 entry. This condition was on the project northwest main section. This requirement is on drawing No. 2 Item No. 3 of the approved roof control plan.

Type of Issuance: N O V X Order

Area or equipment (if order is issued):

The foregoing violation shall be totally abated by:  

The foregoing violation was totally abated by: 1:35 p.m. a.m. 4/29 2005

Action taken to abate the violation: Discussed roof control plan requirements concerning reflective with mine management.

Company / Operator Agent Served: Ryan Browning Chief Electrician

Authorized Representative: Eugene White FO myself  
Inspector No: 79 678

REVIEW: In accordance with Section 22A-1-17 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners' Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Recommend Special Assessment: 

Likelihood of Occurrence: Unlikely: *(0) Reasonably likely (10) X Occurred (20)

Severity of Injury Expected: None: *(0) No lost work days *(6) Lost or restricted days (11)

Permanently disabling (15) X Fatal (20)

No. of Persons Potentially Affected: *(0) 1 (1) 2 (2) 3 (4) X 4-5 (6) 6-9 (8) 9+ (10)

Negligence: None (0) Low (10) Moderate (15) High (20)

Knowing Violation: No Yes Repeat

Good Faith in Abatement: Lack of good faith (+15%)  
No compliance (extenuating circumstances) (0%) Extra effort (-15%)
West Virginia Office of Miners' Health, Safety and Training
INSPECTION REPORT

Record No. L0499   Date: 5-4-05   Regular Inspection No.: [Handwritten]
Case No. 143.152   Inspector Number: 143

Facility Type
Underground: ✓
Surface: [Blank]
Contractor: [Blank]
Preparation: [Blank]
Quarry: [Blank]

Type of Inspection
Regular: [Blank]
Idle:* [Blank]
Investigation:* [Blank]
Complaint:* [Blank]
Other:* [Blank]

Company Name: Coal River Mining LLC   WV Permit No.: H-5037-981
Mine Name: Tiny Creek No.2   Mine Phone: 5456-9100   Contractor ID: N/A
Mine Location: Justice Road   County: Lincoln
Company Address: P.O. Box 179 Allegany W.V. Zip: 25003
No. of Employees: 50   No. of Shifts: 3   No. of Sections: 1
Mine Foreman: Scott Brown   Certificate No.: 37483   Miners Rep.: N/A

VIOLATIONS BY CATEGORY

Mine Maps: [Blank]   Coal Dust & Rock Dust: [Blank]   Electricity: [Blank]
Fire Boss: 1   Transportation: 1   Underground Workings: [Blank]
Highwells: [Blank]   Excavating: [Blank]   Tipples & Cleaning Plants: [Blank]

VIOLATIONS / ORDERS ISSUED:

Orders: 0   Failure to Abate: 0   IPA: 3   71-WC: 0
Total Violations Issued: 2   Total Violations Abated: 2

COMMENTS:
*If this is an idle inspection, investigation, or complaint, please state the reasons:

Plan Contributing NO. 3 signed and T. P. A. 
during Total Investigation

[Handwritten]

Harry Sullivan 5-4-05   Inspector at-large

[Handwritten]

Inspector S.88
STATE OF WEST VIRGINIA
OFFICE OF
MINERS' HEALTH, SAFETY AND TRAINING
1615 Washington Street East
Charleston, West Virginia 25311-2126

NOTICE OF VIOLATION

Company / Operator: Coal River Mining LLC
Contractor: Yes ___ No ___
Permit Number: 11-5037-98B
Mine Name: Ding Creek No. 2 Mine
Date of Issue: 4-29-2005
Time: 10:30 A.M. ___ P.M.

Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners' Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A, Article 2, Section 20 and/or West Virginia Administrative Regulation, exists as follows:

DURING THE INVESTIGATION OF A FATAL ACCIDENT THAT TOOK PLACE AT THIS MINE, THE LAWYER FOR THE VICTIM, AS REQUIRED, CONDUCTED A POST-MORTEM EXAMINATION AND FOUND THAT THE DEATH WAS CAUSED BY IGNITION OF A MINER'S PORTABLEandscape. IT WAS DETERMINED THAT THE MINER'S PORTABLEandscape HAD BEEN STORED IN AN AREA WHERE IT COULD HAVE BEEN EXPOSED TO FIRE AND ALLIED GASES.

Type of Issuance: N O V ___ Order ___

Area or equipment (if order is issued):

The foregoing violation shall be totally abated by: 12:00 a.m. ___ p.m. on: 4-29-2005
The foregoing violation was totally abated by: ___ a.m. ___ p.m. on: ___
Action taken to abate the violation: 

Company / Operator Agent Served: 

Authorized Representative: 

REVIEW: In accordance with Section 22A-1-17 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners' Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Recommend Special Assessment: ___
Likelihood of Occurrence: Unlikely ___ *Reasonably likely (10) ___ Occurred (20) ___
Severity of Injury Expected: None ___ *No lost work days *6 ___ Lost or restricted days (11) ___
Permanently disabling (15) ___ Fatal (20) ___
No. of Persons Potentially Affected: 0 (0) ___ 1 (1) ___ 2 (2) ___ 3 (4) ___ 4-5 (6) ___ 6-9 (8) ___ 9+ (10) ___
Negligence: None (0) ___ Low (10) ___ Moderate (15) ___ High (20) ___
Knowing Violation: No ___ Yes ___ Repeat ___
Good Faith in Abatement: Lack of good faith (+15%) ___
No compliance (extenuating circumstances) (0%) ___ Extra effort (-15%) ___
STATE OF WEST VIRGINIA
OFFICE OF
MINERS' HEALTH, SAFETY AND TRAINING
1615 Washington Street East
Charleston, West Virginia 25311-2126

NOTICE OF VIOLATION

Company / Operator: Coal River Mining, LLC
Contractor: Yes No
Permit Number 11-5037-982 Mine Name TMZ Chuck No. 2 Mine
Date of Issue 4-27-2005 Time 12:45 AM
Notice is hereby given that the undersigned authorized representative of the Director of the Office of Miners' Health, Safety and Training, upon making an inspection of this mine finds that the violation referred to in West Virginia Code, Chapter 22A Article 1 Section 31 (T.3) and/or West Virginia Administrative Regulation:
 exists as follows:
During the investigation of a fatal accident that occurred at this mine, it was revealed that a responsible person was not provided on the shift at this mine, evening shift 3-31-05 concerning dispatchers and communication persons responsible for duties. An employee of Security Guards Services LLC was assigned these duties. When questioned he was not familiar with dispatching duties for claims, etc.

Type of Issuance: NO V Order
Area or equipment (if order is issued): ____________________________________________________________________________

The foregoing violation shall be totally abated by ______________ a.m. ______________ p.m. on ______________ 4-27-2005
The foregoing violation was totally abated by ______________ a.m. ______________ p.m. on ______________ 4-27-2005
Action taken to abate the violation: Section 22A-2-31 (T.3) has been revised

With Mine Management

Company / Operator Agent Served: ____________________________
Authorized Representative: ____________________________ Inspector No. 179 48

REVIEW: In accordance with Section 22A-1-77 of the Code, an operator or any representative of the miners may apply to the Director of the Office of Miners' Health, Safety and Training for review of this notice of violation within thirty (30) days from the issued date.

VIOLATION ASSESSMENT EVALUATION

Recommend Special Assessment: □
Likelihood of Occurrence: Unlikely: *(0) X* Reasonably likely (10) Occurred (20)
Severity of Injury Expected: None: *(0) * No lost work days *(6) Lost or restricted days (11) X
Permanently disabling (15) Fatal (20)
No. of Persons Potentially Affected: 0 (0) 1 (1) X 2 (2) 3 (4) 4-5 (6) 6-9 (8) 9+ (10)
Negligence: None (0) Low (10) Moderate (15) High (20)
Knowing Violation: No Yes Repeat
Good Faith in Abatement: Lack of good faith (+15%)
No compliance (extenuating circumstances) (0%) Extra effort (-15%)
State of West Virginia
OFFICE OF MINERS' HEALTH, SAFETY AND TRAINING
1615 Washington Street, East, Charleston, WV 25311-2126

Notice of Individual Violation

Case Number: 143-0153

Name of person charged: [Redacted]  
Social Security Number: [Redacted]

Home phone number: [Redacted]  
Certification number: 3-13680

Applicable type of certification: 3-13680

Name of mine operator/company: Coal River Mining  
Mine: tiny Creek No. 2

Date: 4-29-2005  
Time: 11:30 AM

Location of violation: 330 North West Main, 5Current Right toward No. 7 Entry

Notice is hereby given that you have been found in violation of the following: West Virginia Code,

Chapter 22A, Article 2, Section 25(f) and/or Administrative Regulation

Title: 36, Series 10, Section 3(3) in that you were: Operating a J-105c shuttle car beyond the last permanent rib support but the continuous miner was moving coal from 5-Verdict Right Access No. 6 entry, into the No. 7 entry. This covered a distance of approximately 1,600 feet (700) a fatal and fall accident occurred to the continuous miner operator when this practice was being performed. From the accident investigation, this violation of the West Virginia law was revealed.

Proposed Order of Assessment

Likelihood of occurrence: Unlikely (0)  Reasonably likely (10)  Occurred (20)  X

Severity of injury normally expected: None (0)  No lost work days (5)

Lost workdays/restricted days (10)  Permanently disabled (15)  X  Fatal (20)

Number of persons potentially affected: 0 (0)  1 (5)  2 (10)  3 (15)  4-5 (20)

6-9 (25)  more than 9 (30)

History of prior violations during past thirty-six (36) months: 0 (0)  1 (15)  2 or more (30)

Total Points:

Authorized representative: [Redacted]

Assessment Officer:

Assessment Review Officer:
State of West Virginia  
OFFICE OF MINERS' HEALTH, SAFETY AND TRAINING  
1815 Washington Street, East, Charleston, WV 25311-2128

Notice of Individual Violation

Case Number: 143-0154

Name of person charged: Patrick Ranking. Social Security Number: [Redacted]
Address: [Redacted]
Home phone number: [Redacted]
Applicable type of certification: L-10743
Certification number: [Redacted]
Name of mine operator/company: Coal River Mining LLC  
Mine: Tiny Fork No. 2
Date: 4-29-2005  Time: 11:40 AM
Location of violation: 3ED North West Maine 5 Tenent Right toward No. 7 Entry

Notice is hereby given that you have been found in violation of the following: West Virginia Code,

Chapter 22A, Article 2, Section 25(f) and/or Administrative Regulation

Title 36, Series 10, Section 3.3.2 in that you were: Operating a Joy 105C shuttle car beyond the last permanent roof support as the continuous miner was mining coal from 5 Tenent Right Access No. 6 into the No. 7 entry. This caused a distance of approximately 100 feet (20') a fatal roof fall accident occurred to the continuous miner operator when this practice was being performed. From the accident investigation, this violation of the West Virginia mining laws was revealed.

Proposed Order of Assessment

Likelihood of occurrence: Unlikely (0) Reasonably likely (10) Occurred (20) X

Severity of injury normally expected: None (0) No lost work days (5) X

Lost workdays/restricted days (10) Permanently disabled (15) X Fatal (20)

Number of persons potentially affected: 0 (0) X 1 (5) 2 (10) 3 (15) 4-5 (20)

6-9 (25) more than 9 (30)

History of prior violations during past thirty-six (36) months: 0 (0) X 1 (15) 2 or more (30)

Total Points:

Authorized representative: [Redacted]

Assessment Officer: [Redacted]

Assessment Review Officer: [Redacted]
State of West Virginia
OFFICE OF MINERS' HEALTH, SAFETY AND TRAINING
1815 Washington Street, East, Charleston, WV 25311-2126

Notice of Individual Violation
Case Number: 143-0155

Name of person charged: Billy McConehan  Social Security Number: 
Address:  
Home phone number: 844- Certifcation number: 4-2907-U6
Applicable type of certification: 4-2907-U6.
Name of mine operator/company: Coal River Mining LLC Mine: Tommy Park No. 2
Date: 4-29-2005 Time 11:50 A.M. 
Location of violation: 3rd North West Main 5-Cissent Right Toward No. 7 Entry

Notice is hereby given that you have been found in violation of the following: West Virginia Code,
Chapter 22A Article 2, Section 25(E) and/or Administrative Regulation
Title 36 Series 10, Section 3(3.2) in that you were: Operating a for 10:50 Shuttle as beyond the last permanent road support by the Continuous miner was minors Coal River 5-Cissent Right Access No. 6 entry into the No. 07 entry. The occurred a distance of approximately seven feet (77) a fatal roof fall accident occurred to the Continuous miner operator when this practice was being performed. From the accident investigation, this violation of the West Virginia Mining

Proposed Order of Assessment

Likelihood of occurrence: Unlikely (0) Reasonably likely (10) Occurred (20) x
Severity of Injury normally expected: None (0) No lost work days (5)
Lost workdays/restricted days (10) Permanently disabled (15) x Fatal (20)
Number of persons potentially affected: 0 (0) 1 (5) x 2 (10) 3 (15) 4-5 (20)
6-9 (25) more than 9 (30)
History of prior violations during past thirty-six (36) months: 0 (0) 1 (15) 2 or more (30)

Total Points:

Authorized representative: 
Assessment Officer:

Assessment Review Officer:
STATE OF WEST VIRGINIA
OFFICE OF
MINERS' HEALTH, SAFETY AND TRAINING

April 14, 2005

Mr. Jim O. Bunn, II
Coal River Mining, LLC.
Tiny Creek No. 2

Subject: Revisions to the approved roof control plan.
State Permit [U-5037-98B]

Dear Mr. Bunn,

Your proposed revisions to the state approved roof control plan new items 29, 30, and 31, page 6, to the general safety precautions to be taken. In addition, the revision to drawing #2, paragraphs 3, 5, 7, and the sketch have been reviewed and approved. Also, noted the original items 29, 31, 32, 33, and 34 of the general safety precautions have been deleted. These changes are now in affect and shall supersede the pages that are now in your approved plan. If you have any questions please call me at the Office of Miners' Health, Safety and Training at 369-7823.

Sincerely,

Larry McKnight

Larry McKnight
Inspector #138

Office of Miners' Health, Safety and Training
137 Peach Court, Suite 2
Danville, WV 25053
Mr. Doug Conaway  
Director  
WVOMHS&T  
Charleston, WV

Re: Revision to the Tiny Creek Mine #2 Roof Control Plan  
ID # 46-08835

Dear Mr. Conaway:

Coal River Mining, LLC is requesting a revision to our roof control plan, new items 29, 30, and 31, page 6, to the General Safety Precautions to be Taken. In addition, Drawing #2, paragraphs 3, 5, 7, and the sketch have been revised. Also, original items 29, 31, 32, 33, and 34 of General Safety Precautions to be Taken have been deleted.

Thank you.

Sincerely,

[Signature]

James O. Bunn, II  
Vice-President & General Manager

JOB/dt
1. In the event the continuous mining machine malfunctions or breaks down that requires persons to go inby existing permanent roof support to correct the malfunction, the unsupported area, in as much as possible, will be supported with roof bolts with the remaining area being supported with temporary supports set on 5' centers lengthwise and crosswise before any other type of work is performed.

2. An automated temporary roof support system shall be maintained and used during bolting operations. A dual head roof bolting machine with ATRS will be used.

3. Two reflective signs shall be hung on the second Full row of bolts outby the face, one on each side of the entry or crosscuts near eye-level, to aid the shuttle car operators and continuous mining machine operators in determining their position for maximum safety.

4. The initial cut taken from an entry for the development of a crosscut during the Initial run and cut sequence shall not exceed 24' in depth from the last full row of roof bolts. This pertains to crosscuts turned from an entry or room and not straight on from a supported crosscut.

5. At no time will there be more than one unsupported opening adjacent to an intersection.

6. No more than one (1) deep cut per active MMU shall be left unsupported for an idle period of over eight (8) hours.

7. The maximum number of cuts greater than 20' unsupported between shifts shall not exceed one (1).

8. Corners may be rounded off, as shown on Drawings 1 & 2, provided additional roof bolts are installed to within 4' of the rib. Only 1 corner may be rounded off in each intersection except that 2 corners may be rounded off in each intersection in 1 entry only.

9. No person shall advance inby the next to last Full row of permanent supports except to install temporary and/or permanent supports.

10. The total depth of cut shall be limited to 40' feet, to the last Full row of Bolts.

Drawing ID CR04028 Page 9
such supports installed a maximum of 12 inches in by the location of the row of bolts to be installed. NOTE: ATRS system other than those shown in the equipment list shall not be used without prior approval.

28. When conditions warrant the change from MRS assisted pillar plan to a partial pillar plan, two complete rows of blocks shall be left before partial pillar begins.

Add

29. Primary roof support shall consist of fully-grouted, torque-tension rebar bolts at least 72” in length. Supplemental roof support will consist of 8” mechanical anchor/resin assisted 7/8” dia., grade 75 bolts, three per row, installed between rows of primary roof support to cover the area of the intersection on cycle as mining progresses. Metal straps, spider plates, or roof caps will be installed with the primary roof support.

Add

30. Where a face has been advanced beyond the inby corner of a projected crosscut in excess of fifteen feet, a minimum of ten feet of roof shall be supported with roof bolts on required centers in the projected inby rib line prior to starting the crosscut. Where the face has been advanced fifteen feet or less inby the projected crosscut, a minimum of 1 rows of roof bolts shall be installed to within five feet of the face prior to starting the crosscut. The working face may be advanced no more than fifty feet inby the proposed inby corner of the crosscut rib line before the crosscut is completed on the intake side. One inby corner, not to exceed 26’, may be rounded at an intersection where crosscuts are not turned in order to assist the movement of equipment.

Add

31. The continuous miner operator will stop the cut at 20’ of material. The foreman will then evaluate roof conditions to authorize additional mining beyond 20 feet of material. Dates, times and initials will be made in the working place by the foreman when he gives this authorization. When the cut reaches 30 feet of material mined, the Continuous Miner Operator will stop the cut until the foreman comes to the cut and authorizes additional mining to a maximum of 40 feet. The foreman will remain in the area while this last material is mined. These examinations will be recorded in the on-shift examination record book by identifying each cut and times visited.